

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: P158950

Luminaire Tested: **VST-E11-LED-E-U-SLL**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P158950  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E11-LED-E-U-SLL  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(11) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (231) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29560.1 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 269.7  
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



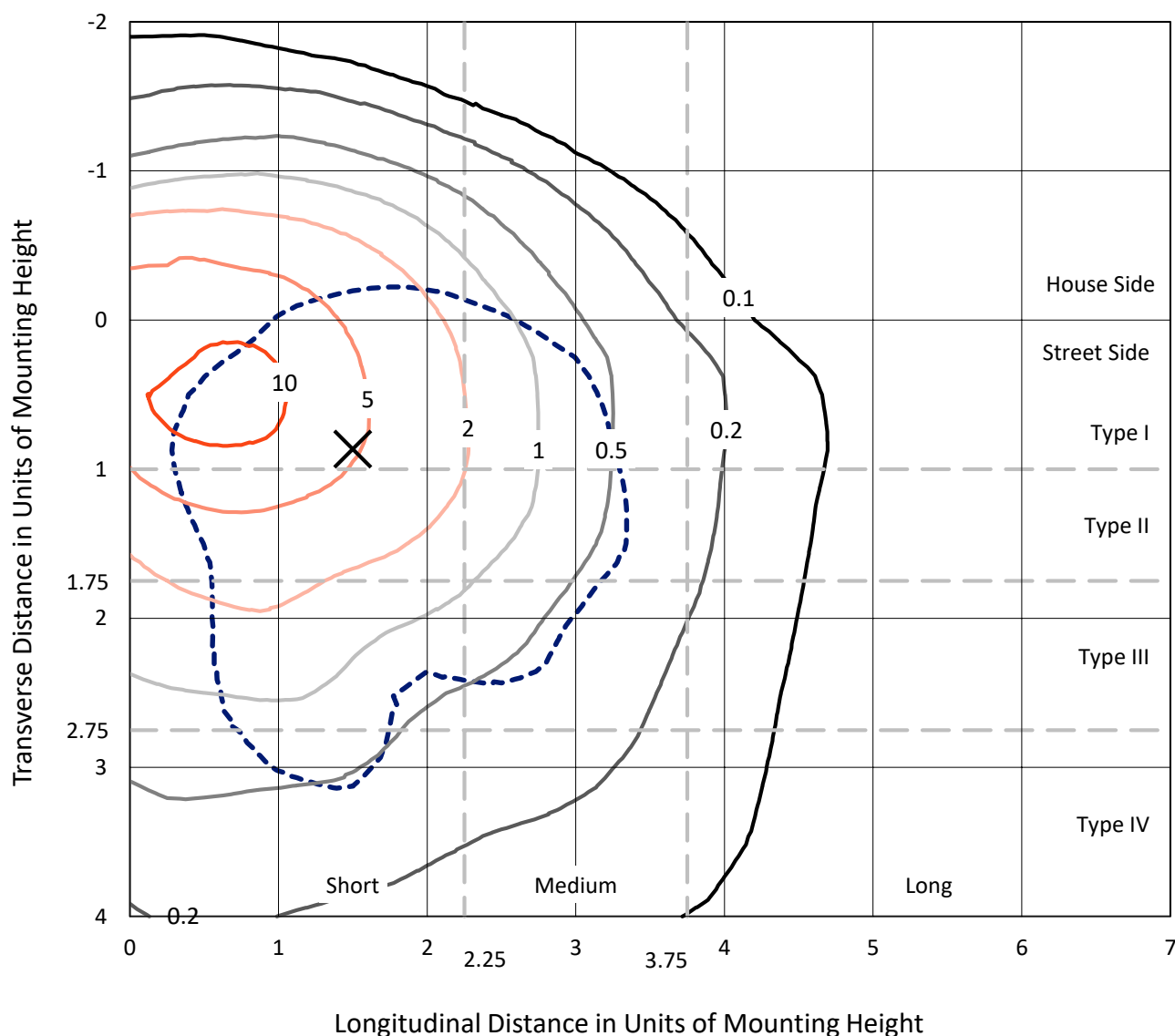
REPORT NUMBER: P158950

CATALOG NUMBER: VST-E11-LED-E-U-SLL

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

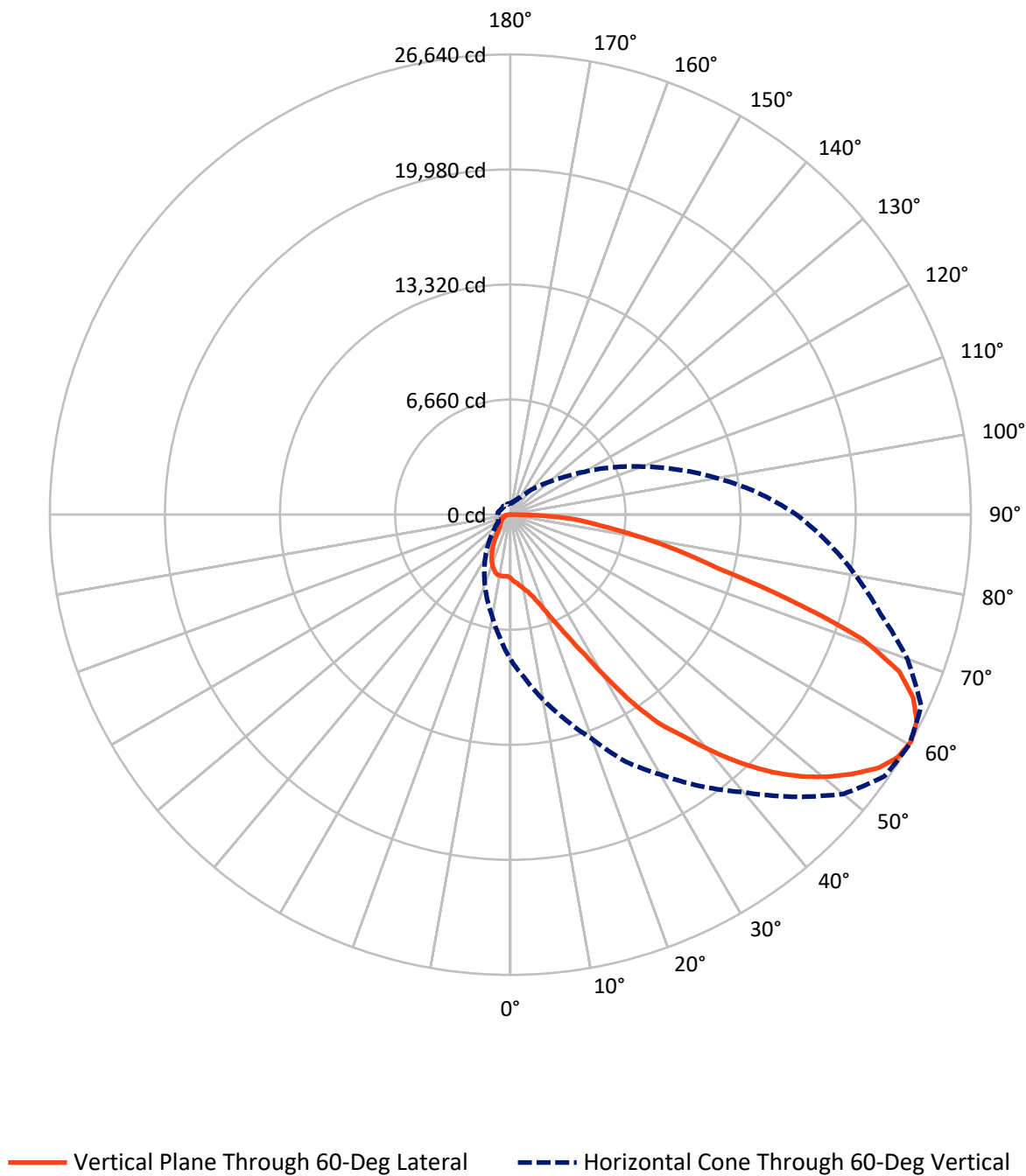


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: VST-E11-LED-E-U-SLL

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6656.0   | 0.0    | 6656.0  |
|                    | % Fixture | 22.5     | 0.0    | 22.5    |
| <b>Street Side</b> | Lumens    | 22904.1  | 0.0    | 22904.1 |
|                    | % Fixture | 77.5     | 0.0    | 77.5    |
| <b>Total</b>       | Lumens    | 29560.1  | 0.0    | 29560.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.7   | 1.2       |
| 10°-20°   | 1171.0  | 4.0       |
| 20°-30°   | 2222.1  | 7.5       |
| 30°-40°   | 3499.5  | 11.8      |
| 40°-50°   | 4884.4  | 16.5      |
| 50°-60°   | 6040.9  | 20.4      |
| 60°-70°   | 6261.7  | 21.2      |
| 70°-80°   | 3940.1  | 13.3      |
| 80°-90°   | 1177.8  | 4.0       |
| 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°    | 29560.1 | 100.0     |
| 0°-180°   | 29560.1 | 100.0     |

**Coefficient of Utilization**



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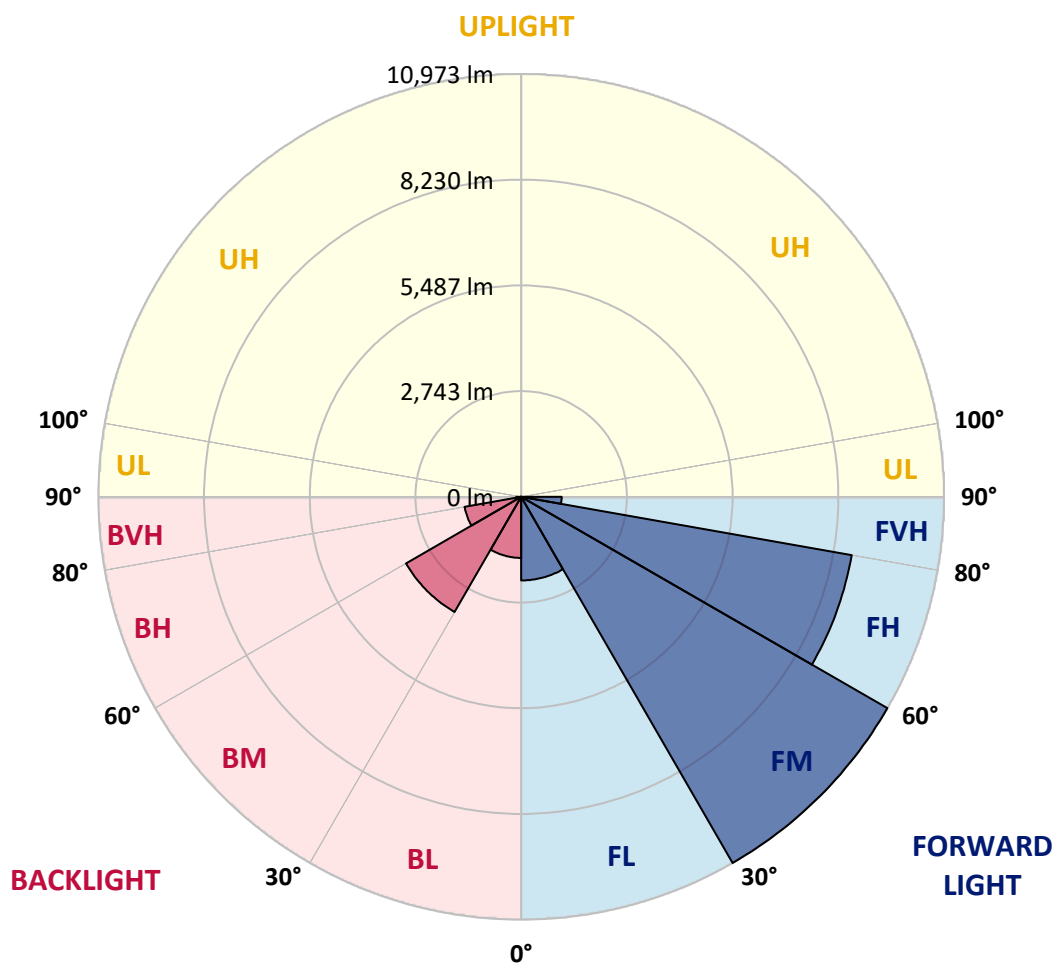
CATALOG NUMBER: VST-E11-LED-E-U-SLL

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2170.2  | 7.3       |                         |      |          |
| FM   | (30°-60°)   | 10973.2 | 37.1      |                         |      |          |
| FH   | (60°-80°)   | 8711.1  | 29.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 1049.7  | 3.6       |                         |      | G5       |
| BL   | (0°-30°)    | 1585.7  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3451.5  | 11.7      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1490.6  | 5.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 128.1   | 0.4       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  |
| 2.5°  | 3894.0  | 3889.6  | 3889.6  | 3889.6  | 3887.4  | 3883.0  | 3889.6  | 3887.4  | 3876.4  | 3869.8  | 3876.4  |
| 5°    | 3944.6  | 3946.8  | 3953.4  | 3955.6  | 3955.6  | 3962.2  | 3979.8  | 3982.0  | 3979.8  | 3984.2  | 3995.2  |
| 7.5°  | 3993.0  | 4004.0  | 4010.6  | 4021.6  | 4034.8  | 4045.8  | 4076.6  | 4107.4  | 4127.2  | 4142.6  | 4147.0  |
| 10°   | 4072.2  | 4089.8  | 4109.6  | 4138.2  | 4169.0  | 4224.0  | 4250.4  | 4281.2  | 4301.0  | 4331.8  | 4338.4  |
| 12.5° | 4274.6  | 4296.6  | 4309.8  | 4353.8  | 4393.4  | 4446.2  | 4483.6  | 4492.4  | 4538.6  | 4565.0  | 4595.8  |
| 15°   | 4615.6  | 4648.6  | 4694.8  | 4721.2  | 4765.2  | 4811.4  | 4844.4  | 4888.4  | 4895.0  | 4930.2  | 4954.4  |
| 17.5° | 5033.6  | 5079.8  | 5174.4  | 5238.2  | 5295.4  | 5341.6  | 5407.6  | 5458.2  | 5469.2  | 5508.8  | 5458.2  |
| 20°   | 5618.8  | 5731.0  | 5746.4  | 5874.0  | 5924.6  | 6017.0  | 6149.0  | 6173.2  | 6237.0  | 6173.2  | 6135.8  |
| 22.5° | 6410.8  | 6586.8  | 6635.2  | 6758.4  | 6820.0  | 6960.8  | 7000.4  | 7130.2  | 7174.2  | 7125.8  | 7024.6  |
| 25°   | 7321.6  | 7594.4  | 7735.2  | 7924.4  | 7955.2  | 8243.4  | 8274.2  | 8426.0  | 8344.6  | 8228.0  | 8230.2  |
| 27.5° | 7992.6  | 8456.8  | 8819.8  | 9143.2  | 9369.8  | 9695.4  | 9948.4  | 10018.8 | 9941.8  | 9790.0  | 9737.2  |
| 30°   | 8375.4  | 8901.2  | 9422.6  | 9869.2  | 10397.2 | 10894.4 | 11411.4 | 11668.8 | 11712.8 | 11792.0 | 11473.0 |
| 32.5° | 8621.8  | 9297.2  | 9917.6  | 10469.8 | 11011.0 | 11651.2 | 12344.2 | 13006.4 | 13563.0 | 13983.2 | 13785.2 |
| 35°   | 8828.6  | 9662.4  | 10456.6 | 11125.4 | 11765.6 | 12463.0 | 13162.6 | 13943.6 | 14865.4 | 15404.4 | 15516.6 |
| 37.5° | 8912.2  | 9930.8  | 10903.2 | 11761.2 | 12661.0 | 13446.4 | 14141.6 | 14836.8 | 15804.8 | 16766.2 | 17063.2 |
| 40°   | 8896.8  | 10062.8 | 11169.4 | 12247.4 | 13349.6 | 14330.8 | 15144.8 | 15967.6 | 17100.6 | 18224.8 | 18708.8 |
| 42.5° | 8793.4  | 10082.6 | 11338.8 | 12570.8 | 13827.0 | 15131.6 | 16172.2 | 17120.4 | 18207.2 | 19648.2 | 20332.4 |
| 45°   | 8663.6  | 10014.4 | 11374.0 | 12735.8 | 14181.2 | 15690.4 | 17006.0 | 18178.6 | 19452.4 | 20875.8 | 21703.0 |
| 47.5° | 8487.6  | 9906.6  | 11330.0 | 12793.0 | 14339.6 | 16049.0 | 17595.6 | 19005.8 | 20407.2 | 22046.2 | 23095.6 |
| 50°   | 8296.2  | 9752.6  | 11239.8 | 12751.2 | 14379.2 | 16244.8 | 17932.2 | 19538.2 | 21175.0 | 22943.8 | 24270.4 |
| 52.5° | 8162.0  | 9587.6  | 11158.4 | 12665.4 | 14339.6 | 16304.2 | 18055.4 | 19824.2 | 21645.8 | 23474.0 | 25058.0 |
| 55°   | 7997.0  | 9367.6  | 10940.6 | 12465.2 | 14194.4 | 16271.2 | 18042.2 | 19923.2 | 21775.6 | 23678.6 | 25487.0 |
| 57.5° | 8008.0  | 9266.4  | 10755.8 | 12225.4 | 13897.4 | 15965.4 | 17793.6 | 19824.2 | 21571.0 | 23546.6 | 25502.4 |
| 60°   | 8355.6  | 9484.2  | 10852.6 | 12273.8 | 13809.4 | 15771.8 | 17371.2 | 19186.2 | 20970.4 | 23091.2 | 25146.0 |
| 62.5° | 9072.8  | 10106.8 | 11349.8 | 12757.8 | 14304.4 | 16159.0 | 17179.8 | 18125.8 | 19709.8 | 22253.0 | 24538.8 |
| 65°   | 9928.6  | 10861.4 | 11939.4 | 13279.2 | 15012.8 | 16788.2 | 17072.0 | 17263.4 | 18064.2 | 20622.8 | 23399.2 |
| 67.5° | 10784.4 | 11618.2 | 12465.2 | 13576.2 | 15415.4 | 16968.6 | 16632.0 | 16176.6 | 16607.8 | 18728.6 | 21159.6 |
| 70°   | 11092.4 | 12199.0 | 12755.6 | 13519.0 | 15109.6 | 16548.4 | 15921.4 | 14775.2 | 14924.8 | 16852.0 | 18629.6 |
| 72.5° | 10630.4 | 12207.8 | 12392.6 | 12676.4 | 13747.8 | 15100.8 | 14438.6 | 12964.6 | 12933.8 | 14405.6 | 15842.2 |
| 75°   | 8916.6  | 11136.4 | 11134.2 | 11028.6 | 11270.6 | 12040.6 | 11697.4 | 10808.6 | 11184.8 | 12344.2 | 12817.2 |
| 77.5° | 6355.8  | 8690.0  | 8800.0  | 8089.4  | 8071.8  | 8419.4  | 8626.2  | 9660.2  | 11024.2 | 11675.4 | 11525.8 |
| 80°   | 3993.0  | 5863.0  | 6336.0  | 5458.2  | 5271.2  | 5764.0  | 7042.2  | 8547.0  | 10225.6 | 10810.8 | 10307.0 |
| 82.5° | 2404.6  | 3777.4  | 4785.0  | 4287.8  | 4243.8  | 5141.4  | 6553.8  | 7139.0  | 7642.8  | 8265.4  | 7422.8  |
| 85°   | 1632.4  | 2516.8  | 3273.6  | 3372.6  | 3757.6  | 4686.0  | 5299.8  | 5040.2  | 5053.4  | 4890.6  | 4455.0  |
| 87.5° | 312.4   | 686.4   | 1122.0  | 1368.4  | 1518.0  | 2039.4  | 2217.6  | 2008.6  | 2120.8  | 1551.0  | 1696.2  |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°    | 105°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  | 3676.2  |
| 2.5°  | 3865.4  | 3865.4  | 3865.4  | 3854.4  | 3856.6  | 3841.2  | 3834.6  | 3834.6  | 3828.0  | 3828.0  | 3825.8  |
| 5°    | 3986.4  | 3973.2  | 3979.8  | 3977.6  | 3977.6  | 3955.6  | 3944.6  | 3944.6  | 3916.0  | 3918.2  | 3909.4  |
| 7.5°  | 4166.8  | 4164.6  | 4171.2  | 4158.0  | 4140.4  | 4122.8  | 4105.2  | 4096.4  | 4056.8  | 4032.6  | 4017.2  |
| 10°   | 4371.4  | 4369.2  | 4375.8  | 4373.6  | 4342.8  | 4309.8  | 4261.4  | 4226.2  | 4177.8  | 4140.4  | 4103.0  |
| 12.5° | 4595.8  | 4593.6  | 4589.2  | 4569.4  | 4536.4  | 4483.6  | 4422.0  | 4362.6  | 4290.0  | 4241.6  | 4186.6  |
| 15°   | 4945.6  | 4939.0  | 4912.6  | 4884.0  | 4848.8  | 4767.4  | 4659.6  | 4573.8  | 4477.0  | 4393.4  | 4303.2  |
| 17.5° | 5462.6  | 5407.6  | 5403.2  | 5339.4  | 5244.8  | 5137.0  | 5035.8  | 4892.8  | 4754.2  | 4628.8  | 4505.6  |
| 20°   | 6175.4  | 6047.8  | 6012.6  | 5940.0  | 5814.6  | 5702.4  | 5482.4  | 5291.0  | 5101.8  | 4930.2  | 4774.0  |
| 22.5° | 6952.0  | 6859.6  | 6773.8  | 6655.0  | 6483.4  | 6320.6  | 6041.2  | 5801.4  | 5559.4  | 5339.4  | 5165.6  |
| 25°   | 8036.6  | 7876.0  | 7722.0  | 7532.8  | 7295.2  | 7101.6  | 6782.6  | 6540.6  | 6223.8  | 6023.6  | 5772.8  |
| 27.5° | 9438.0  | 9163.0  | 8903.4  | 8740.6  | 8322.6  | 8041.0  | 7634.0  | 7321.6  | 6938.8  | 6668.2  | 6371.2  |
| 30°   | 11261.8 | 10942.8 | 10557.8 | 9994.6  | 9497.4  | 8938.6  | 8434.8  | 8034.4  | 7627.4  | 7249.0  | 6905.8  |
| 32.5° | 13523.4 | 12960.2 | 12350.8 | 11457.6 | 10641.4 | 9845.0  | 9174.0  | 8681.2  | 8265.4  | 7794.6  | 7310.6  |
| 35°   | 15435.2 | 14854.4 | 13989.8 | 12854.6 | 11847.0 | 10936.2 | 10133.2 | 9460.0  | 8916.6  | 8320.4  | 7680.2  |
| 37.5° | 16944.4 | 16282.2 | 15470.4 | 14264.8 | 13200.0 | 12163.8 | 11321.2 | 10463.2 | 9750.4  | 8929.8  | 8120.2  |
| 40°   | 18673.6 | 18009.2 | 17116.0 | 15866.4 | 14605.8 | 13481.6 | 12493.8 | 11607.2 | 10731.6 | 9730.6  | 8690.0  |
| 42.5° | 20180.6 | 19701.0 | 18796.8 | 17505.4 | 16108.4 | 14856.6 | 13776.4 | 12762.2 | 11618.2 | 10498.4 | 9266.4  |
| 45°   | 21751.4 | 21263.0 | 20405.0 | 19054.2 | 17569.2 | 16174.4 | 14883.0 | 13791.8 | 12441.0 | 11107.8 | 9697.6  |
| 47.5° | 23139.6 | 22638.0 | 21771.2 | 20429.2 | 18851.8 | 17382.2 | 15961.0 | 14641.0 | 13072.4 | 11541.2 | 9979.2  |
| 50°   | 24464.0 | 23850.2 | 23056.0 | 21718.4 | 20033.2 | 18462.4 | 16920.2 | 15226.2 | 13563.0 | 11844.8 | 10170.6 |
| 52.5° | 25680.6 | 24899.6 | 24147.2 | 22770.0 | 20948.4 | 19307.2 | 17586.8 | 15723.4 | 13864.4 | 12084.6 | 10300.4 |
| 55°   | 26371.4 | 25867.6 | 24967.8 | 23614.8 | 21599.6 | 19888.0 | 18009.2 | 16073.2 | 14163.6 | 12254.0 | 10355.4 |
| 57.5° | 26584.8 | 26461.6 | 25707.0 | 24103.2 | 21982.4 | 20207.0 | 18295.2 | 16350.4 | 14363.8 | 12302.4 | 10278.4 |
| 60°   | 26415.4 | 26639.8 | 26226.2 | 24446.4 | 22156.2 | 20301.6 | 18436.0 | 16548.4 | 14399.0 | 12148.4 | 10045.2 |
| 62.5° | 25872.0 | 26382.4 | 26329.6 | 24560.8 | 22066.0 | 20182.8 | 18420.6 | 16447.2 | 14069.0 | 11668.8 | 9521.6  |
| 65°   | 24978.8 | 25621.2 | 25847.8 | 24136.2 | 21557.8 | 19749.4 | 18029.0 | 15811.4 | 13151.6 | 10731.6 | 8643.8  |
| 67.5° | 23298.0 | 24270.4 | 24490.4 | 22745.8 | 20229.0 | 18550.4 | 16900.4 | 14491.4 | 11453.2 | 9281.8  | 7273.2  |
| 70°   | 19929.8 | 21630.4 | 21927.4 | 20097.0 | 17886.0 | 16412.0 | 15012.8 | 12399.2 | 9537.0  | 7444.8  | 5581.4  |
| 72.5° | 15910.4 | 16979.6 | 17586.8 | 16326.2 | 14680.6 | 13611.4 | 12551.0 | 9512.8  | 7196.2  | 5493.4  | 3841.2  |
| 75°   | 12438.8 | 12375.0 | 12918.4 | 12080.2 | 11112.2 | 10612.8 | 9816.4  | 6637.4  | 4820.2  | 3638.8  | 2431.0  |
| 77.5° | 10634.8 | 9816.4  | 9198.2  | 8608.6  | 8034.4  | 7876.0  | 7112.6  | 4118.4  | 2978.8  | 2180.2  | 1454.2  |
| 80°   | 8839.6  | 7345.8  | 6217.2  | 5387.8  | 5183.2  | 5495.6  | 4655.2  | 2428.8  | 1764.4  | 1251.8  | 913.0   |
| 82.5° | 6316.2  | 5284.4  | 4301.0  | 3775.2  | 3425.4  | 3922.6  | 2745.6  | 1348.6  | 957.0   | 750.2   | 605.0   |
| 85°   | 4094.2  | 3913.8  | 3872.0  | 3700.4  | 3275.8  | 3093.2  | 2085.6  | 1161.6  | 717.2   | 466.4   | 376.2   |
| 87.5° | 1575.2  | 2019.6  | 2329.8  | 2497.0  | 2699.4  | 2404.6  | 1086.8  | 400.4   | 393.8   | 242.0   | 182.6   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 |
| 2.5°  | 3810.4 | 3801.6 | 3799.4 | 3792.8 | 3788.4 | 3788.4 | 3777.4 | 3577.2 | 3575.0 | 3575.0 | 3572.8 |
| 5°    | 3891.8 | 3880.8 | 3869.8 | 3867.6 | 3858.8 | 3858.8 | 3847.8 | 3647.6 | 3647.6 | 3647.6 | 3643.2 |
| 7.5°  | 4001.8 | 3979.8 | 3966.6 | 3960.0 | 3946.8 | 3953.4 | 3962.2 | 3759.8 | 3762.0 | 3759.8 | 3764.2 |
| 10°   | 4081.0 | 4067.8 | 4052.4 | 4048.0 | 4039.2 | 4045.8 | 4059.0 | 3858.8 | 3865.4 | 3867.6 | 3872.0 |
| 12.5° | 4158.0 | 4136.0 | 4116.2 | 4109.6 | 4105.2 | 4122.8 | 4138.2 | 3944.6 | 3951.2 | 3957.8 | 3957.8 |
| 15°   | 4252.6 | 4215.2 | 4188.8 | 4173.4 | 4164.6 | 4182.2 | 4204.2 | 4012.8 | 4015.0 | 4021.6 | 4019.4 |
| 17.5° | 4413.2 | 4358.2 | 4296.6 | 4285.6 | 4257.0 | 4263.6 | 4268.0 | 4054.6 | 4045.8 | 4030.4 | 4004.0 |
| 20°   | 4661.8 | 4578.2 | 4494.6 | 4459.4 | 4402.2 | 4378.0 | 4329.6 | 4056.8 | 4001.8 | 3955.6 | 3916.0 |
| 22.5° | 5018.2 | 4895.0 | 4804.8 | 4745.4 | 4628.8 | 4547.4 | 4415.4 | 4045.8 | 3942.4 | 3863.2 | 3801.6 |
| 25°   | 5594.6 | 5447.2 | 5308.6 | 5159.0 | 4976.4 | 4813.6 | 4620.0 | 4142.6 | 3982.0 | 3845.6 | 3726.8 |
| 27.5° | 6155.6 | 5922.4 | 5709.0 | 5484.6 | 5227.2 | 4983.0 | 4710.2 | 4173.4 | 3990.8 | 3814.8 | 3621.2 |
| 30°   | 6575.8 | 6237.0 | 5913.6 | 5585.8 | 5249.2 | 4932.4 | 4624.4 | 4067.8 | 3850.0 | 3652.0 | 3447.4 |
| 32.5° | 6831.0 | 6391.0 | 5970.8 | 5563.8 | 5167.8 | 4811.4 | 4466.0 | 3885.2 | 3645.4 | 3412.2 | 3194.4 |
| 35°   | 7073.0 | 6527.4 | 6006.0 | 5526.4 | 5073.2 | 4677.2 | 4305.4 | 3671.8 | 3385.8 | 3137.2 | 2862.2 |
| 37.5° | 7372.2 | 6670.4 | 6028.0 | 5458.2 | 4934.6 | 4481.4 | 4072.2 | 3403.4 | 3117.4 | 2811.6 | 2552.0 |
| 40°   | 7730.8 | 6817.8 | 6006.0 | 5321.8 | 4719.0 | 4224.0 | 3790.6 | 3121.8 | 2802.8 | 2505.8 | 2250.6 |
| 42.5° | 8071.8 | 6947.6 | 5948.8 | 5139.2 | 4483.6 | 3955.6 | 3533.2 | 2871.0 | 2552.0 | 2248.4 | 1995.4 |
| 45°   | 8324.8 | 7057.6 | 5920.2 | 5011.6 | 4303.2 | 3773.0 | 3306.6 | 2668.6 | 2332.0 | 2026.2 | 1768.8 |
| 47.5° | 8500.8 | 7123.6 | 5907.0 | 4941.2 | 4177.8 | 3583.8 | 3099.8 | 2466.2 | 2112.0 | 1804.0 | 1553.2 |
| 50°   | 8593.2 | 7121.4 | 5874.0 | 4864.2 | 3993.0 | 3357.2 | 2886.4 | 2261.6 | 1909.6 | 1608.2 | 1379.4 |
| 52.5° | 8617.4 | 7081.8 | 5803.6 | 4723.4 | 3768.6 | 3130.6 | 2657.6 | 2048.2 | 1731.4 | 1443.2 | 1212.2 |
| 55°   | 8562.4 | 6985.0 | 5656.2 | 4488.0 | 3528.8 | 2890.8 | 2448.6 | 1881.0 | 1557.6 | 1284.8 | 1104.4 |
| 57.5° | 8406.2 | 6813.4 | 5379.0 | 4164.6 | 3275.8 | 2668.6 | 2208.8 | 1678.6 | 1368.4 | 1139.6 | 990.0  |
| 60°   | 8115.8 | 6450.4 | 4945.6 | 3781.8 | 2954.6 | 2329.8 | 1878.8 | 1414.6 | 1168.2 | 996.6  | 875.6  |
| 62.5° | 7579.0 | 5880.6 | 4336.2 | 3253.8 | 2492.6 | 1889.8 | 1500.4 | 1128.6 | 943.8  | 831.6  | 756.8  |
| 65°   | 6714.4 | 5022.6 | 3630.0 | 2563.0 | 1894.2 | 1375.0 | 1115.4 | 849.2  | 715.0  | 646.8  | 624.8  |
| 67.5° | 5480.2 | 3878.6 | 2640.0 | 1779.8 | 1282.6 | 963.6  | 776.6  | 620.4  | 556.6  | 530.2  | 521.4  |
| 70°   | 3984.2 | 2642.2 | 1709.4 | 1124.2 | 847.0  | 673.2  | 587.4  | 499.4  | 464.2  | 457.6  | 457.6  |
| 72.5° | 2501.4 | 1606.0 | 1047.2 | 770.0  | 642.4  | 545.6  | 501.6  | 440.0  | 426.8  | 422.4  | 415.8  |
| 75°   | 1467.4 | 974.6  | 741.4  | 631.4  | 550.0  | 488.4  | 451.0  | 400.4  | 391.6  | 389.4  | 382.8  |
| 77.5° | 935.0  | 701.8  | 598.4  | 539.0  | 497.2  | 442.2  | 409.2  | 356.4  | 354.2  | 352.0  | 349.8  |
| 80°   | 671.0  | 583.0  | 523.6  | 477.4  | 435.6  | 385.0  | 365.2  | 323.4  | 319.0  | 316.8  | 321.2  |
| 82.5° | 508.2  | 481.8  | 457.6  | 422.4  | 365.2  | 327.8  | 312.4  | 283.8  | 286.0  | 275.0  | 272.8  |
| 85°   | 349.8  | 345.4  | 343.2  | 327.8  | 286.0  | 253.0  | 242.0  | 226.6  | 237.6  | 226.6  | 213.4  |
| 87.5° | 171.6  | 169.4  | 156.2  | 184.8  | 171.6  | 136.4  | 123.2  | 136.4  | 151.8  | 147.4  | 136.4  |
| 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):**

|       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 |
| 2.5°  | 3564.0 | 3555.2 | 3561.8 | 3557.4 | 3557.4 | 3555.2 | 3559.6 | 3553.0 | 3548.6 | 3553.0 | 3555.2 |
| 5°    | 3634.4 | 3623.4 | 3625.6 | 3610.2 | 3616.8 | 3601.4 | 3605.8 | 3594.8 | 3583.8 | 3579.4 | 3579.4 |
| 7.5°  | 3753.2 | 3742.2 | 3729.0 | 3726.8 | 3702.6 | 3693.8 | 3678.4 | 3669.6 | 3663.0 | 3647.6 | 3638.8 |
| 10°   | 3861.0 | 3843.4 | 3828.0 | 3825.8 | 3801.6 | 3779.6 | 3759.8 | 3742.2 | 3731.2 | 3709.2 | 3698.2 |
| 12.5° | 3949.0 | 3931.4 | 3907.2 | 3894.0 | 3869.8 | 3843.4 | 3830.2 | 3803.8 | 3788.4 | 3764.2 | 3744.4 |
| 15°   | 3999.6 | 3968.8 | 3933.6 | 3909.4 | 3874.2 | 3845.6 | 3825.8 | 3806.0 | 3790.6 | 3759.8 | 3731.2 |
| 17.5° | 3975.4 | 3924.8 | 3876.4 | 3832.4 | 3784.0 | 3757.6 | 3729.0 | 3704.8 | 3700.4 | 3665.2 | 3621.2 |
| 20°   | 3874.2 | 3814.8 | 3751.0 | 3691.6 | 3627.8 | 3590.4 | 3555.2 | 3517.8 | 3506.8 | 3465.0 | 3407.8 |
| 22.5° | 3751.0 | 3682.8 | 3610.2 | 3537.6 | 3456.2 | 3403.4 | 3350.6 | 3304.4 | 3267.0 | 3205.4 | 3124.0 |
| 25°   | 3625.6 | 3524.4 | 3418.8 | 3326.4 | 3231.8 | 3165.8 | 3110.8 | 3060.2 | 3016.2 | 2917.2 | 2833.6 |
| 27.5° | 3460.6 | 3302.2 | 3194.4 | 3088.8 | 2974.4 | 2888.6 | 2827.0 | 2756.6 | 2708.2 | 2593.8 | 2505.8 |
| 30°   | 3249.4 | 3091.0 | 2937.0 | 2831.4 | 2717.0 | 2624.6 | 2545.4 | 2444.2 | 2373.8 | 2290.2 | 2208.8 |
| 32.5° | 2983.2 | 2824.8 | 2668.6 | 2549.8 | 2455.2 | 2340.8 | 2241.8 | 2145.0 | 2063.6 | 1982.2 | 1918.4 |
| 35°   | 2659.8 | 2505.8 | 2358.4 | 2239.6 | 2134.0 | 2043.8 | 1949.2 | 1865.6 | 1773.2 | 1685.2 | 1647.8 |
| 37.5° | 2318.8 | 2153.8 | 1991.0 | 1887.6 | 1804.0 | 1740.2 | 1652.2 | 1584.0 | 1500.4 | 1447.6 | 1403.6 |
| 40°   | 2021.8 | 1845.8 | 1691.8 | 1603.8 | 1537.8 | 1465.2 | 1392.6 | 1339.8 | 1280.4 | 1227.6 | 1194.6 |
| 42.5° | 1771.0 | 1606.0 | 1474.0 | 1399.2 | 1320.0 | 1240.8 | 1185.8 | 1141.8 | 1104.4 | 1064.8 | 1025.2 |
| 45°   | 1540.0 | 1381.6 | 1271.6 | 1179.2 | 1113.2 | 1049.4 | 1012.0 | 992.2  | 970.2  | 946.0  | 919.6  |
| 47.5° | 1346.4 | 1210.0 | 1102.2 | 1016.4 | 948.2  | 904.2  | 886.6  | 880.0  | 871.2  | 851.4  | 838.2  |
| 50°   | 1199.0 | 1086.8 | 976.8  | 899.8  | 842.6  | 820.6  | 800.8  | 794.2  | 783.2  | 776.6  | 767.8  |
| 52.5° | 1075.8 | 957.0  | 864.6  | 794.2  | 759.0  | 750.2  | 741.4  | 732.6  | 730.4  | 726.0  | 721.6  |
| 55°   | 974.6  | 871.2  | 785.4  | 732.6  | 715.0  | 708.4  | 706.2  | 697.4  | 695.2  | 695.2  | 688.6  |
| 57.5° | 884.4  | 796.4  | 719.4  | 686.4  | 675.4  | 668.8  | 664.4  | 660.0  | 660.0  | 664.4  | 662.2  |
| 60°   | 792.0  | 717.2  | 671.0  | 653.4  | 646.8  | 635.8  | 624.8  | 620.4  | 622.6  | 633.6  | 633.6  |
| 62.5° | 701.8  | 646.8  | 618.2  | 611.6  | 605.0  | 596.2  | 583.0  | 578.6  | 583.0  | 596.2  | 602.8  |
| 65°   | 602.8  | 578.6  | 569.8  | 565.4  | 561.0  | 554.4  | 545.6  | 541.2  | 543.4  | 550.0  | 558.8  |
| 67.5° | 512.6  | 510.4  | 510.4  | 512.6  | 510.4  | 508.2  | 503.8  | 497.2  | 495.0  | 495.0  | 499.4  |
| 70°   | 457.6  | 457.6  | 464.2  | 464.2  | 462.0  | 462.0  | 455.4  | 448.8  | 444.4  | 440.0  | 442.2  |
| 72.5° | 415.8  | 415.8  | 418.0  | 420.2  | 418.0  | 418.0  | 409.2  | 404.8  | 393.8  | 391.6  | 387.2  |
| 75°   | 380.6  | 376.2  | 376.2  | 374.0  | 371.8  | 374.0  | 365.2  | 354.2  | 349.8  | 347.6  | 343.2  |
| 77.5° | 345.4  | 336.6  | 332.2  | 327.8  | 330.0  | 327.8  | 321.2  | 314.6  | 308.0  | 305.8  | 303.6  |
| 80°   | 305.8  | 292.6  | 286.0  | 275.0  | 281.6  | 283.8  | 279.4  | 272.8  | 270.6  | 268.4  | 266.2  |
| 82.5° | 253.0  | 239.8  | 231.0  | 224.4  | 220.0  | 224.4  | 231.0  | 246.4  | 242.0  | 239.8  | 235.4  |
| 85°   | 198.0  | 176.0  | 165.0  | 167.2  | 156.2  | 158.4  | 178.2  | 187.0  | 187.0  | 191.4  | 187.0  |
| 87.5° | 112.2  | 107.8  | 81.4   | 74.8   | 79.2   | 94.6   | 105.6  | 116.6  | 116.6  | 110.0  | 123.2  |
| 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):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 |
| 2.5°  | 3555.2 | 3559.6 | 3561.8 | 3570.6 | 3575.0 | 3577.2 | 3579.4 | 3583.8 | 3586.0 | 3583.8 | 3594.8 |
| 5°    | 3572.8 | 3572.8 | 3568.4 | 3575.0 | 3577.2 | 3577.2 | 3572.8 | 3577.2 | 3577.2 | 3577.2 | 3588.2 |
| 7.5°  | 3619.0 | 3605.8 | 3599.2 | 3590.4 | 3583.8 | 3575.0 | 3564.0 | 3564.0 | 3561.8 | 3564.0 | 3570.6 |
| 10°   | 3667.4 | 3647.6 | 3623.4 | 3601.4 | 3581.6 | 3566.2 | 3546.4 | 3539.8 | 3537.6 | 3535.4 | 3553.0 |
| 12.5° | 3704.8 | 3669.6 | 3632.2 | 3594.8 | 3555.2 | 3528.8 | 3495.8 | 3476.0 | 3473.8 | 3473.8 | 3495.8 |
| 15°   | 3678.4 | 3621.2 | 3548.6 | 3482.6 | 3447.4 | 3410.0 | 3372.6 | 3348.4 | 3346.2 | 3350.6 | 3363.8 |
| 17.5° | 3546.4 | 3454.0 | 3390.2 | 3326.4 | 3280.2 | 3249.4 | 3225.2 | 3220.8 | 3229.6 | 3220.8 | 3238.4 |
| 20°   | 3322.0 | 3223.0 | 3179.0 | 3128.4 | 3110.8 | 3088.8 | 3053.6 | 3022.8 | 3022.8 | 2983.2 | 2994.2 |
| 22.5° | 3031.6 | 2976.6 | 2919.4 | 2879.8 | 2866.6 | 2829.2 | 2791.8 | 2750.0 | 2745.6 | 2697.2 | 2690.6 |
| 25°   | 2728.0 | 2673.0 | 2626.8 | 2618.0 | 2578.4 | 2527.8 | 2492.6 | 2444.2 | 2433.2 | 2384.8 | 2378.2 |
| 27.5° | 2417.8 | 2373.8 | 2327.6 | 2301.2 | 2279.2 | 2224.2 | 2193.4 | 2136.2 | 2114.2 | 2061.4 | 2054.8 |
| 30°   | 2123.0 | 2092.2 | 2037.2 | 2015.2 | 1973.4 | 1909.6 | 1843.6 | 1808.4 | 1790.8 | 1735.8 | 1718.2 |
| 32.5° | 1845.8 | 1797.4 | 1755.6 | 1729.2 | 1676.4 | 1603.8 | 1544.4 | 1493.8 | 1460.8 | 1394.8 | 1377.2 |
| 35°   | 1581.8 | 1533.4 | 1513.6 | 1445.4 | 1399.2 | 1350.8 | 1269.4 | 1238.6 | 1179.2 | 1128.6 | 1111.0 |
| 37.5° | 1348.6 | 1302.4 | 1276.0 | 1218.8 | 1172.6 | 1124.2 | 1075.8 | 1036.2 | 1007.6 | 996.6  | 996.6  |
| 40°   | 1148.4 | 1124.2 | 1091.2 | 1049.4 | 1018.6 | 983.4  | 957.0  | 943.8  | 941.6  | 946.0  | 957.0  |
| 42.5° | 1005.4 | 979.0  | 957.0  | 935.0  | 913.0  | 908.6  | 902.0  | 910.8  | 921.8  | 932.8  | 943.8  |
| 45°   | 897.6  | 875.6  | 862.4  | 853.6  | 851.4  | 858.0  | 871.2  | 884.4  | 904.2  | 917.4  | 926.2  |
| 47.5° | 820.6  | 803.0  | 798.6  | 796.4  | 807.4  | 827.2  | 844.8  | 864.6  | 880.0  | 893.2  | 902.0  |
| 50°   | 754.6  | 739.2  | 737.0  | 734.8  | 750.2  | 767.8  | 783.2  | 809.6  | 820.6  | 829.4  | 836.0  |
| 52.5° | 708.4  | 695.2  | 688.6  | 690.8  | 706.2  | 721.6  | 743.6  | 763.4  | 778.8  | 785.4  | 792.0  |
| 55°   | 671.0  | 666.6  | 651.2  | 657.8  | 673.2  | 693.0  | 715.0  | 737.0  | 752.4  | 763.4  | 774.4  |
| 57.5° | 642.4  | 631.4  | 620.4  | 631.4  | 646.8  | 666.6  | 693.0  | 712.8  | 732.6  | 748.0  | 759.0  |
| 60°   | 611.6  | 602.8  | 594.0  | 605.0  | 620.4  | 640.2  | 660.0  | 686.4  | 710.6  | 726.0  | 737.0  |
| 62.5° | 585.2  | 578.6  | 569.8  | 572.0  | 578.6  | 591.8  | 602.8  | 627.0  | 649.0  | 668.8  | 682.0  |
| 65°   | 547.8  | 545.6  | 532.4  | 534.6  | 539.0  | 552.2  | 561.0  | 583.0  | 605.0  | 622.6  | 633.6  |
| 67.5° | 492.8  | 488.4  | 488.4  | 495.0  | 497.2  | 503.8  | 510.4  | 532.4  | 550.0  | 563.2  | 576.4  |
| 70°   | 437.8  | 435.6  | 435.6  | 440.0  | 437.8  | 444.4  | 453.2  | 473.0  | 495.0  | 508.2  | 521.4  |
| 72.5° | 385.0  | 385.0  | 382.8  | 387.2  | 387.2  | 389.4  | 400.4  | 418.0  | 437.8  | 448.8  | 457.6  |
| 75°   | 338.8  | 336.6  | 336.6  | 336.6  | 338.8  | 338.8  | 349.8  | 365.2  | 385.0  | 391.6  | 404.8  |
| 77.5° | 297.0  | 297.0  | 297.0  | 297.0  | 299.2  | 297.0  | 303.6  | 314.6  | 321.2  | 332.2  | 332.2  |
| 80°   | 261.8  | 259.6  | 261.8  | 264.0  | 264.0  | 261.8  | 261.8  | 264.0  | 266.2  | 266.2  | 266.2  |
| 82.5° | 231.0  | 224.4  | 228.8  | 239.8  | 239.8  | 239.8  | 237.6  | 222.2  | 211.2  | 211.2  | 215.6  |
| 85°   | 184.8  | 184.8  | 187.0  | 202.4  | 204.6  | 195.8  | 204.6  | 182.6  | 160.6  | 154.0  | 158.4  |
| 87.5° | 114.4  | 90.2   | 110.0  | 125.4  | 125.4  | 118.8  | 132.0  | 123.2  | 103.4  | 83.6   | 79.2   |
| 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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REPORT N  
CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|       | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |       |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 0°    |
| 2.5°  | 3603.6 | 3605.8 | 3619.0 | 3625.6 | 3625.6 | 3634.4 | 3638.8 | 3652.0 | 3649.8 | 3649.8 | 3654.2 | 2.5°  |
| 5°    | 3599.2 | 3605.8 | 3619.0 | 3627.8 | 3632.2 | 3643.2 | 3652.0 | 3667.4 | 3665.2 | 3669.6 | 3671.8 | 5°    |
| 7.5°  | 3583.8 | 3601.4 | 3614.6 | 3632.2 | 3647.6 | 3656.4 | 3667.4 | 3680.6 | 3676.2 | 3678.4 | 3676.2 | 7.5°  |
| 10°   | 3570.6 | 3588.2 | 3614.6 | 3638.8 | 3660.8 | 3674.0 | 3680.6 | 3696.0 | 3693.8 | 3698.2 | 3698.2 | 10°   |
| 12.5° | 3517.8 | 3548.6 | 3581.6 | 3619.0 | 3652.0 | 3687.2 | 3709.2 | 3742.2 | 3757.6 | 3777.4 | 3799.4 | 12.5° |
| 15°   | 3383.6 | 3418.8 | 3471.6 | 3513.4 | 3577.2 | 3625.6 | 3689.4 | 3753.2 | 3810.4 | 3865.4 | 3929.2 | 15°   |
| 17.5° | 3251.6 | 3267.0 | 3308.8 | 3366.0 | 3423.2 | 3495.8 | 3572.8 | 3687.2 | 3790.6 | 3902.8 | 4026.0 | 17.5° |
| 20°   | 3007.4 | 3033.8 | 3062.4 | 3130.6 | 3198.8 | 3302.2 | 3396.8 | 3546.4 | 3698.2 | 3874.2 | 4063.4 | 20°   |
| 22.5° | 2706.0 | 2732.4 | 2763.2 | 2840.2 | 2923.8 | 3029.4 | 3143.8 | 3311.0 | 3513.4 | 3742.2 | 3995.2 | 22.5° |
| 25°   | 2380.4 | 2395.8 | 2420.0 | 2497.0 | 2547.6 | 2686.2 | 2824.8 | 2998.6 | 3218.6 | 3513.4 | 3808.2 | 25°   |
| 27.5° | 2021.8 | 2050.4 | 2070.2 | 2105.4 | 2222.0 | 2340.8 | 2486.0 | 2673.0 | 2939.2 | 3240.6 | 3597.0 | 27.5° |
| 30°   | 1678.6 | 1702.8 | 1691.8 | 1766.6 | 1843.6 | 1969.0 | 2125.2 | 2332.0 | 2587.2 | 2945.8 | 3357.2 | 30°   |
| 32.5° | 1342.0 | 1359.6 | 1353.0 | 1405.8 | 1482.8 | 1608.2 | 1755.6 | 1980.0 | 2250.6 | 2633.4 | 3080.0 | 32.5° |
| 35°   | 1106.6 | 1111.0 | 1135.2 | 1159.4 | 1225.4 | 1326.6 | 1452.0 | 1647.8 | 1925.0 | 2277.0 | 2750.0 | 35°   |
| 37.5° | 996.6  | 1005.4 | 1020.8 | 1053.8 | 1102.2 | 1174.8 | 1278.2 | 1430.0 | 1667.6 | 1977.8 | 2400.2 | 37.5° |
| 40°   | 963.6  | 970.2  | 979.0  | 1001.0 | 1047.2 | 1111.0 | 1203.4 | 1331.0 | 1504.8 | 1766.6 | 2109.8 | 40°   |
| 42.5° | 948.2  | 948.2  | 948.2  | 961.4  | 996.6  | 1064.8 | 1170.4 | 1295.8 | 1447.6 | 1645.6 | 1922.8 | 42.5° |
| 45°   | 926.2  | 926.2  | 924.0  | 930.6  | 954.8  | 1023.0 | 1137.4 | 1278.2 | 1441.0 | 1630.2 | 1870.0 | 45°   |
| 47.5° | 902.0  | 899.8  | 893.2  | 893.2  | 908.6  | 976.8  | 1095.6 | 1247.4 | 1425.6 | 1643.4 | 1900.8 | 47.5° |
| 50°   | 836.0  | 836.0  | 836.0  | 842.6  | 855.8  | 917.4  | 1045.0 | 1205.6 | 1410.2 | 1652.2 | 1949.2 | 50°   |
| 52.5° | 798.6  | 800.8  | 807.4  | 807.4  | 820.6  | 884.4  | 1018.6 | 1196.8 | 1419.0 | 1685.2 | 2010.8 | 52.5° |
| 55°   | 781.0  | 787.6  | 794.2  | 794.2  | 805.2  | 871.2  | 1009.8 | 1203.4 | 1452.0 | 1753.4 | 2116.4 | 55°   |
| 57.5° | 765.6  | 772.2  | 776.6  | 776.6  | 785.4  | 842.6  | 985.6  | 1192.4 | 1471.8 | 1819.4 | 2246.2 | 57.5° |
| 60°   | 737.0  | 741.4  | 743.6  | 743.6  | 745.8  | 794.2  | 930.6  | 1139.6 | 1427.8 | 1815.0 | 2316.6 | 60°   |
| 62.5° | 684.2  | 693.0  | 695.2  | 697.4  | 697.4  | 743.6  | 860.2  | 1053.8 | 1333.2 | 1749.0 | 2296.8 | 62.5° |
| 65°   | 644.6  | 649.0  | 655.6  | 660.0  | 668.8  | 699.6  | 792.0  | 950.4  | 1210.0 | 1617.0 | 2186.8 | 65°   |
| 67.5° | 583.0  | 589.6  | 596.2  | 605.0  | 613.8  | 633.6  | 706.2  | 833.8  | 1042.8 | 1392.6 | 1940.4 | 67.5° |
| 70°   | 528.0  | 530.2  | 536.8  | 547.8  | 550.0  | 561.0  | 613.8  | 701.8  | 853.6  | 1117.6 | 1562.0 | 70°   |
| 72.5° | 459.8  | 464.2  | 473.0  | 486.2  | 486.2  | 495.0  | 525.8  | 572.0  | 668.8  | 853.6  | 1152.8 | 72.5° |
| 75°   | 400.4  | 404.8  | 411.4  | 411.4  | 400.4  | 402.6  | 424.6  | 457.6  | 530.2  | 642.4  | 840.4  | 75°   |
| 77.5° | 332.2  | 341.0  | 347.6  | 334.4  | 330.0  | 336.6  | 347.6  | 371.8  | 424.6  | 510.4  | 631.4  | 77.5° |
| 80°   | 275.0  | 279.4  | 281.6  | 283.8  | 279.4  | 286.0  | 294.8  | 310.2  | 345.4  | 411.4  | 499.4  | 80°   |
| 82.5° | 220.0  | 224.4  | 231.0  | 239.8  | 239.8  | 264.0  | 266.2  | 266.2  | 286.0  | 327.8  | 391.6  | 82.5° |
| 85°   | 162.8  | 171.6  | 180.4  | 191.4  | 193.6  | 206.8  | 200.2  | 198.0  | 204.6  | 244.2  | 270.6  | 85°   |
| 87.5° | 83.6   | 90.2   | 94.6   | 103.4  | 92.4   | 96.8   | 96.8   | 90.2   | 79.2   | 99.0   | 110.0  | 87.5° |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 90°   |

NUMBER: P158950

NUMBER: VST-E11-LED-E-U-SLL

**DISTRIBUTION (continued):**

| 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°    |
|--------|--------|--------|--------|--------|--------|---------|
| 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2 | 3676.2  |
| 3658.6 | 3654.2 | 3658.6 | 3658.6 | 3665.2 | 3660.8 | 3894.0  |
| 3676.2 | 3671.8 | 3676.2 | 3680.6 | 3687.2 | 3687.2 | 3944.6  |
| 3678.4 | 3678.4 | 3674.0 | 3685.0 | 3693.8 | 3702.6 | 3993.0  |
| 3704.8 | 3704.8 | 3709.2 | 3711.4 | 3731.2 | 3753.2 | 4072.2  |
| 3812.6 | 3823.6 | 3843.4 | 3850.0 | 3885.2 | 3909.4 | 4274.6  |
| 3977.6 | 4039.2 | 4078.8 | 4092.0 | 4122.8 | 4169.0 | 4615.6  |
| 4144.8 | 4248.2 | 4356.0 | 4422.0 | 4461.6 | 4516.6 | 5033.6  |
| 4270.2 | 4463.8 | 4648.6 | 4813.6 | 4908.2 | 5016.0 | 5618.8  |
| 4281.2 | 4589.2 | 4901.6 | 5207.4 | 5460.4 | 5660.6 | 6410.8  |
| 4175.6 | 4580.4 | 5011.6 | 5480.2 | 5915.8 | 6276.6 | 7321.6  |
| 4041.4 | 4538.6 | 5088.6 | 5687.0 | 6259.0 | 6791.4 | 7992.6  |
| 3872.0 | 4468.2 | 5101.8 | 5775.0 | 6446.0 | 7086.2 | 8375.4  |
| 3614.6 | 4259.2 | 4943.4 | 5687.0 | 6465.8 | 7244.6 | 8621.8  |
| 3284.6 | 3942.4 | 4644.2 | 5491.2 | 6373.4 | 7308.4 | 8828.6  |
| 2948.0 | 3597.0 | 4351.6 | 5229.4 | 6226.0 | 7297.4 | 8912.2  |
| 2591.6 | 3236.2 | 4008.4 | 4950.0 | 6025.8 | 7196.2 | 8896.8  |
| 2349.6 | 2937.0 | 3693.8 | 4666.2 | 5803.6 | 7062.0 | 8793.4  |
| 2208.8 | 2723.6 | 3445.2 | 4406.6 | 5601.2 | 6901.4 | 8663.6  |
| 2206.6 | 2659.8 | 3313.2 | 4221.8 | 5396.6 | 6723.2 | 8487.6  |
| 2283.6 | 2699.4 | 3297.8 | 4142.6 | 5284.4 | 6593.4 | 8296.2  |
| 2373.8 | 2809.4 | 3379.2 | 4171.2 | 5282.2 | 6536.2 | 8162.0  |
| 2516.8 | 2996.4 | 3557.4 | 4294.4 | 5339.4 | 6527.4 | 7997.0  |
| 2699.4 | 3249.4 | 3878.6 | 4598.0 | 5561.6 | 6701.2 | 8008.0  |
| 2886.4 | 3546.4 | 4298.8 | 5117.2 | 5999.4 | 7106.0 | 8355.6  |
| 2954.6 | 3775.2 | 4725.6 | 5726.6 | 6655.0 | 7713.2 | 9072.8  |
| 2895.2 | 3828.0 | 4985.2 | 6199.6 | 7293.0 | 8423.8 | 9928.6  |
| 2675.2 | 3614.6 | 4879.6 | 6333.8 | 7660.4 | 8927.6 | 10784.4 |
| 2202.2 | 3084.4 | 4400.0 | 6032.4 | 7631.8 | 9031.0 | 11092.4 |
| 1614.8 | 2391.4 | 3577.2 | 5126.0 | 6784.8 | 8384.2 | 10630.4 |
| 1166.0 | 1691.8 | 2582.8 | 3861.0 | 5363.6 | 6751.8 | 8916.6  |
| 836.0  | 1172.6 | 1676.4 | 2536.6 | 3654.2 | 4701.4 | 6355.8  |
| 600.6  | 796.4  | 1045.0 | 1522.4 | 2226.4 | 2886.4 | 3993.0  |
| 442.2  | 545.6  | 686.4  | 946.0  | 1311.2 | 1680.8 | 2404.6  |
| 301.4  | 321.2  | 413.6  | 558.8  | 860.2  | 1236.4 | 1632.4  |
| 114.4  | 129.8  | 151.8  | 228.8  | 385.0  | 442.2  | 312.4   |
| 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

(END OF REPORT)