

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: P189825

Luminaire Tested: **VERD-M-A0485-E-U-T3-7030-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26224)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-A0485-E-U-T3-7030-AP  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K LEDS AT 85% STANDARD LUMENS AND TYPE III OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25150 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

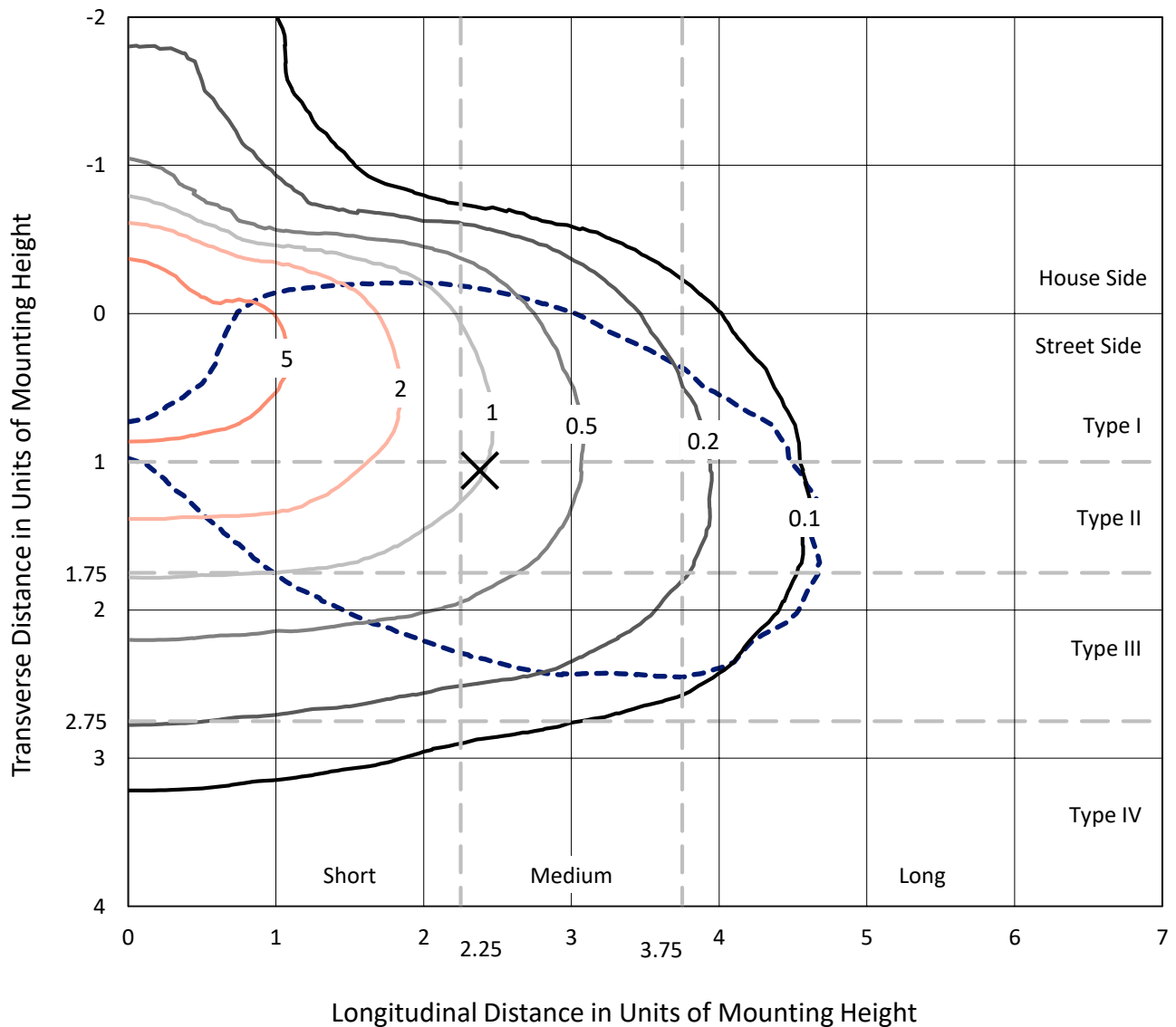
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

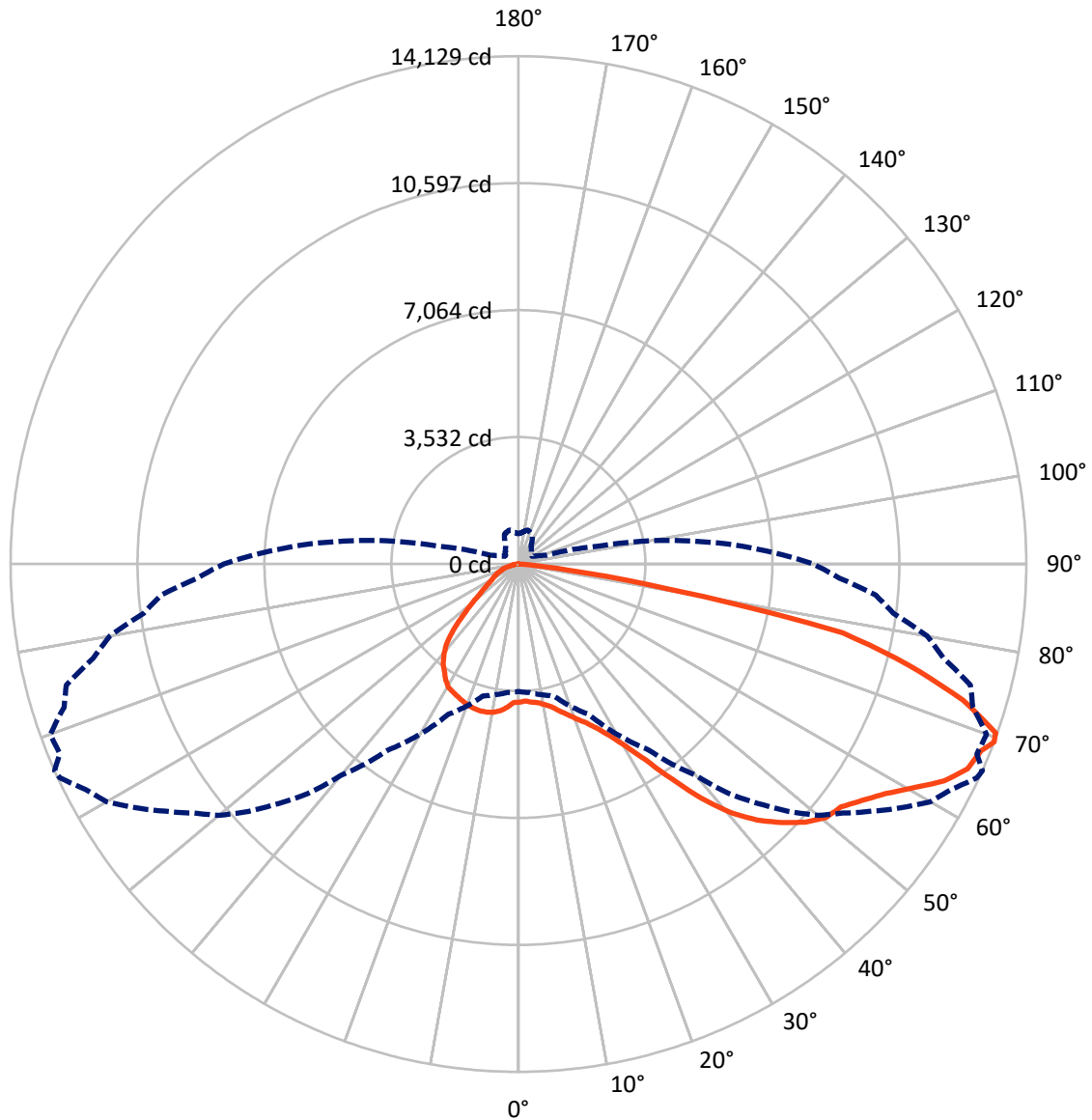
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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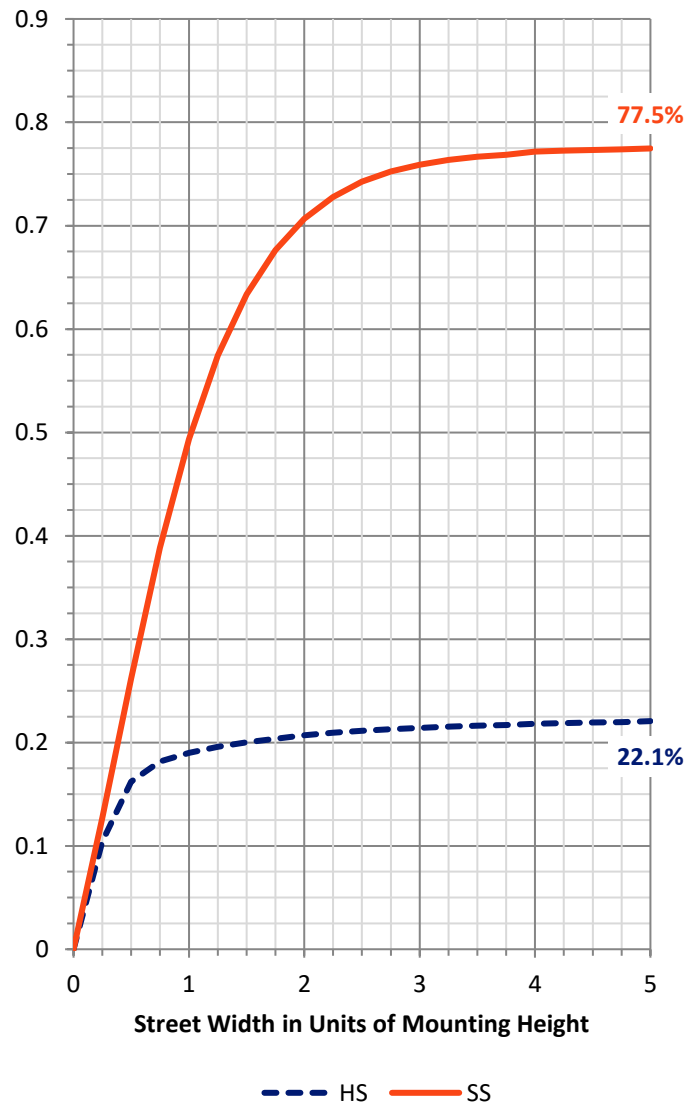
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5651.5   | 0.0    | 5651.5  |
|                    | % Fixture | 22.5     | 0.0    | 22.5    |
| <b>Street Side</b> | Lumens    | 19498.5  | 0.0    | 19498.5 |
|                    | % Fixture | 77.5     | 0.0    | 77.5    |
| <b>Total</b>       | Lumens    | 25150.0  | 0.0    | 25150.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 386.9   | 1.5       |
| 10°-20°   | 1229.8  | 4.9       |
| 20°-30°   | 2106.2  | 8.4       |
| 30°-40°   | 3158.2  | 12.6      |
| 40°-50°   | 4297.2  | 17.1      |
| 50°-60°   | 5056.0  | 20.1      |
| 60°-70°   | 5309.3  | 21.1      |
| 70°-80°   | 3289.5  | 13.1      |
| 80°-90°   | 316.9   | 1.3       |
| 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°    | 25150.0 | 100.0     |
| 0°-180°   | 25150.0 | 100.0     |



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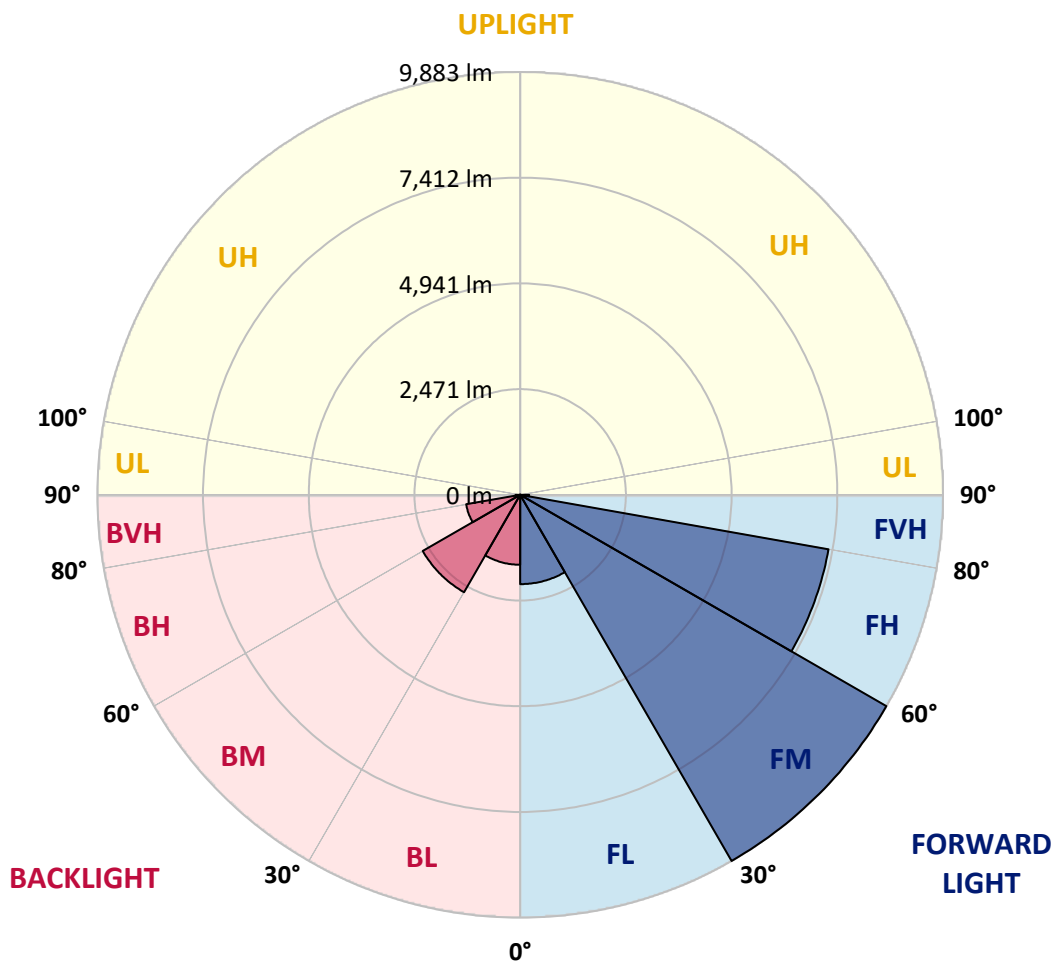
CATALOG NUMBER: VERD-M-A0485-E-U-T3-7030-AP

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2087.9 | 8.3       |                         |      |         |
| FM (30°-60°)   | 9882.5 | 39.3      |                         |      |         |
| FH (60°-80°)   | 7317.4 | 29.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 210.6  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 1635.0 | 6.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 2628.9 | 10.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 1281.4 | 5.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 106.2  | 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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 37.5°  | 40°    | 42.5°   | 45°     | 47.5°   | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6  | 3841.6  | 3841.6  | 3841.6  |
| 2.5°  | 3904.5 | 3904.5 | 3863.1 | 3856.5 | 3849.8 | 3830.0 | 3816.7 | 3816.7  | 3803.5  | 3816.7  | 3823.3  |
| 5°    | 3984.0 | 3964.1 | 3921.1 | 3917.8 | 3897.9 | 3897.9 | 3897.9 | 3876.4  | 3863.1  | 3856.5  | 3856.5  |
| 7.5°  | 4098.3 | 4075.1 | 4042.0 | 4012.2 | 3987.3 | 3970.8 | 3931.0 | 3964.1  | 3941.0  | 3937.6  | 3941.0  |
| 10°   | 4280.6 | 4264.0 | 4202.7 | 4196.1 | 4139.7 | 4119.9 | 4085.1 | 4085.1  | 4071.8  | 4065.2  | 4045.3  |
| 12.5° | 4449.5 | 4442.9 | 4378.3 | 4365.0 | 4303.7 | 4273.9 | 4254.0 | 4247.4  | 4217.6  | 4207.7  | 4176.2  |
| 15°   | 4698.0 | 4668.2 | 4620.1 | 4597.0 | 4515.8 | 4495.9 | 4456.1 | 4423.0  | 4404.8  | 4394.9  | 4384.9  |
| 17.5° | 4926.6 | 4910.0 | 4860.3 | 4822.2 | 4731.1 | 4704.6 | 4658.2 | 4651.6  | 4597.0  | 4577.1  | 4550.6  |
| 20°   | 5190.0 | 5161.8 | 5112.1 | 5095.6 | 5031.0 | 4961.4 | 4900.1 | 4900.1  | 4835.5  | 4779.2  | 4769.2  |
| 22.5° | 5471.6 | 5441.8 | 5373.9 | 5363.9 | 5304.3 | 5269.5 | 5190.0 | 5161.8  | 5085.6  | 5040.9  | 4978.0  |
| 25°   | 5788.0 | 5748.3 | 5701.9 | 5687.0 | 5640.6 | 5620.7 | 5519.7 | 5506.4  | 5392.1  | 5350.7  | 5304.3  |
| 27.5° | 6064.7 | 6081.2 | 6058.0 | 6041.5 | 6006.7 | 5970.2 | 5895.7 | 5895.7  | 5761.5  | 5741.6  | 5673.7  |
| 30°   | 6440.7 | 6414.2 | 6427.5 | 6417.5 | 6374.4 | 6367.8 | 6319.8 | 6313.2  | 6195.5  | 6205.5  | 6091.2  |
| 32.5° | 6730.6 | 6737.2 | 6768.7 | 6775.3 | 6788.6 | 6798.5 | 6750.5 | 6704.1  | 6629.6  | 6677.6  | 6556.7  |
| 35°   | 6959.2 | 6959.2 | 7070.2 | 7219.3 | 7245.8 | 7350.2 | 7288.9 | 7269.0  | 7144.7  | 7255.7  | 7128.2  |
| 37.5° | 7148.1 | 7158.0 | 7235.9 | 7424.7 | 7605.3 | 7727.9 | 7706.3 | 7747.7  | 7650.0  | 7828.9  | 7734.5  |
| 40°   | 7288.9 | 7292.2 | 7428.0 | 7656.6 | 7959.8 | 8130.4 | 8143.7 | 8204.9  | 8168.5  | 8393.8  | 8355.7  |
| 42.5° | 7154.7 | 7174.6 | 7424.7 | 7872.0 | 8276.2 | 8494.8 | 8567.7 | 8710.2  | 8726.8  | 8991.8  | 8985.2  |
| 45°   | 6994.0 | 7020.5 | 7300.5 | 7949.8 | 8547.9 | 8831.1 | 8991.8 | 9228.7  | 9278.4  | 9584.9  | 9588.2  |
| 47.5° | 6844.9 | 6889.6 | 7174.6 | 7891.9 | 8794.7 | 9160.8 | 9389.4 | 9679.3  | 9793.6  | 10062.0 | 10080.2 |
| 50°   | 6704.1 | 6743.9 | 7056.9 | 7848.8 | 9013.3 | 9463.9 | 9747.2 | 10090.1 | 10201.1 | 10459.5 | 10449.6 |
| 52.5° | 6407.6 | 6455.6 | 6821.7 | 7703.0 | 9117.7 | 9611.4 | 9914.5 | 10224.3 | 10393.3 | 10681.5 | 10661.6 |
| 55°   | 6132.6 | 6192.2 | 6556.7 | 7529.1 | 9124.3 | 9639.5 | 9982.4 | 10285.6 | 10479.4 | 10802.4 | 10789.2 |
| 57.5° | 5822.8 | 5846.0 | 6225.4 | 7255.7 | 8991.8 | 9558.4 | 9894.6 | 10285.6 | 10482.7 | 10863.7 | 10921.7 |
| 60°   | 5412.0 | 5474.9 | 5829.4 | 6883.0 | 8756.6 | 9422.5 | 9881.4 | 10338.6 | 10580.5 | 11072.5 | 11190.1 |
| 62.5° | 5027.7 | 5062.4 | 5405.4 | 6440.7 | 8355.7 | 9121.0 | 9652.8 | 10224.3 | 10621.9 | 11160.2 | 11460.1 |
| 65°   | 4537.3 | 4593.6 | 4890.2 | 5855.9 | 7777.6 | 8554.5 | 9180.7 | 9888.0  | 10436.3 | 11059.2 | 11476.7 |
| 67.5° | 3937.6 | 3980.7 | 4237.5 | 5135.3 | 6919.5 | 7679.8 | 8387.2 | 9281.7  | 9941.0  | 10580.5 | 11143.7 |
| 69°   | 3546.7 | 3591.4 | 3796.8 | 4610.2 | 6313.2 | 7013.9 | 7673.2 | 8662.2  | 9412.6  | 10184.5 | 10877.0 |
| 70°   | 3258.5 | 3281.6 | 3490.4 | 4227.5 | 5852.6 | 6528.5 | 7101.7 | 8143.7  | 8971.9  | 9934.4  | 10661.6 |
| 72.5° | 2456.7 | 2489.8 | 2645.5 | 3210.4 | 4479.3 | 5095.6 | 5607.5 | 6449.0  | 7399.9  | 8576.0  | 9369.5  |
| 75°   | 1669.8 | 1666.5 | 1813.9 | 2160.2 | 2802.9 | 3203.8 | 3641.1 | 4408.1  | 5239.7  | 6280.0  | 7336.9  |
| 77.5° | 551.6  | 564.9  | 656.0  | 975.7  | 1262.3 | 1360.0 | 1419.7 | 1702.9  | 2385.4  | 2961.9  | 4075.1  |
| 80°   | 215.4  | 222.0  | 366.1  | 485.4  | 629.5  | 679.2  | 714.0  | 841.5   | 962.5   | 1116.5  | 1426.3  |
| 82.5° | 134.2  | 185.5  | 255.1  | 289.9  | 293.2  | 276.6  | 261.7  | 316.4   | 394.3   | 492.0   | 574.8   |
| 85°   | 87.8   | 117.6  | 117.6  | 124.2  | 124.2  | 114.3  | 87.8   | 127.6   | 175.6   | 195.5   | 235.2   |
| 87.5° | 46.4   | 71.2   | 67.9   | 58.0   | 43.1   | 26.5   | 0.0    | 13.3    | 26.5    | 33.1    | 16.6    |
| 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):**

|       | 52.5°   | 55°     | 57.5°   | 60°     | 62.5°   | 65°     | 66°     | 67.5°   | 70°     | 72.5°   | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6  |
| 2.5°  | 3823.3  | 3820.0  | 3783.6  | 3820.0  | 3796.8  | 3816.7  | 3816.7  | 3783.6  | 3826.7  | 3836.6  | 3846.5  |
| 5°    | 3849.8  | 3859.8  | 3843.2  | 3846.5  | 3843.2  | 3849.8  | 3859.8  | 3849.8  | 3869.7  | 3883.0  | 3869.7  |
| 7.5°  | 3911.1  | 3927.7  | 3876.4  | 3914.5  | 3869.7  | 3876.4  | 3894.6  | 3876.4  | 3921.1  | 3931.0  | 3917.8  |
| 10°   | 4018.8  | 4018.8  | 4005.6  | 4005.6  | 3977.4  | 3980.7  | 3974.1  | 3964.1  | 3977.4  | 3950.9  | 3987.3  |
| 12.5° | 4126.5  | 4133.1  | 4091.7  | 4116.6  | 4078.5  | 4078.5  | 4071.8  | 4051.9  | 4071.8  | 4065.2  | 4065.2  |
| 15°   | 4307.1  | 4322.0  | 4267.3  | 4290.5  | 4247.4  | 4240.8  | 4237.5  | 4234.2  | 4224.2  | 4199.4  | 4234.2  |
| 17.5° | 4502.5  | 4492.6  | 4456.1  | 4429.6  | 4394.9  | 4401.5  | 4398.2  | 4401.5  | 4381.6  | 4368.4  | 4388.2  |
| 20°   | 4704.6  | 4701.3  | 4664.9  | 4635.1  | 4603.6  | 4590.3  | 4593.6  | 4590.3  | 4570.5  | 4577.1  | 4580.4  |
| 22.5° | 4974.7  | 4913.4  | 4920.0  | 4853.7  | 4832.2  | 4809.0  | 4792.4  | 4825.6  | 4779.2  | 4838.8  | 4792.4  |
| 25°   | 5284.4  | 5213.2  | 5236.4  | 5128.7  | 5108.8  | 5065.8  | 5057.5  | 5102.2  | 5062.4  | 5155.2  | 5105.5  |
| 27.5° | 5634.0  | 5559.4  | 5566.0  | 5478.2  | 5445.1  | 5405.4  | 5405.4  | 5499.8  | 5441.8  | 5526.3  | 5431.9  |
| 30°   | 6077.9  | 6010.0  | 6064.7  | 5913.9  | 5917.2  | 5865.9  | 5872.5  | 6003.4  | 5923.9  | 6031.5  | 5920.5  |
| 32.5° | 6616.3  | 6505.3  | 6589.8  | 6452.3  | 6502.0  | 6452.3  | 6488.7  | 6671.0  | 6589.8  | 6750.5  | 6553.4  |
| 35°   | 7202.7  | 7095.0  | 7255.7  | 7154.7  | 7269.0  | 7303.8  | 7340.2  | 7578.8  | 7532.4  | 7734.5  | 7575.5  |
| 37.5° | 7895.2  | 7823.9  | 7969.7  | 7959.8  | 8178.4  | 8204.9  | 8262.9  | 8567.7  | 8511.4  | 8783.1  | 8579.3  |
| 40°   | 8595.9  | 8518.0  | 8776.5  | 8723.4  | 9013.3  | 9043.2  | 9099.5  | 9430.8  | 9329.8  | 9490.4  | 9251.9  |
| 42.5° | 9207.2  | 9187.3  | 9362.9  | 9359.6  | 9646.2  | 9676.0  | 9735.6  | 9982.4  | 9861.5  | 9921.1  | 9695.9  |
| 45°   | 9833.3  | 9767.1  | 9975.8  | 9934.4  | 10244.2 | 10234.2 | 10260.7 | 10500.9 | 10386.6 | 10358.5 | 10139.8 |
| 47.5° | 10257.4 | 10211.0 | 10433.0 | 10393.3 | 10709.7 | 10684.8 | 10732.9 | 10870.4 | 10726.2 | 10736.2 | 10514.2 |
| 50°   | 10661.6 | 10605.3 | 10802.4 | 10766.0 | 11017.8 | 11052.6 | 11089.0 | 11173.5 | 10997.9 | 10877.0 | 10698.1 |
| 52.5° | 10877.0 | 10766.0 | 10931.6 | 10951.5 | 11186.8 | 11186.8 | 11229.8 | 11274.6 | 11193.4 | 11180.1 | 11022.8 |
| 55°   | 10958.1 | 10913.4 | 11065.8 | 11105.6 | 11435.2 | 11533.0 | 11604.2 | 11678.8 | 11640.7 | 11617.5 | 11428.6 |
| 57.5° | 11147.0 | 11118.8 | 11395.5 | 11493.2 | 11846.1 | 11967.0 | 12044.9 | 12197.3 | 12122.7 | 11973.6 | 11738.4 |
| 60°   | 11557.8 | 11617.5 | 11947.1 | 12034.9 | 12478.9 | 12583.2 | 12637.9 | 12700.9 | 12664.4 | 12445.7 | 12155.8 |
| 62.5° | 11832.8 | 12021.7 | 12425.9 | 12637.9 | 13098.4 | 13267.4 | 13293.9 | 13287.3 | 13138.2 | 12828.4 | 12523.6 |
| 65°   | 11920.6 | 12203.9 | 12748.9 | 13105.1 | 13555.6 | 13721.3 | 13731.2 | 13676.6 | 13562.3 | 13124.9 | 12801.9 |
| 67.5° | 11665.5 | 12119.4 | 12748.9 | 13173.0 | 13650.1 | 13875.4 | 13878.7 | 13751.1 | 13737.9 | 13226.0 | 12970.9 |
| 69°   | 11382.2 | 11991.8 | 12621.3 | 13226.0 | 13575.5 | 14077.5 | 14128.8 | 13805.8 | 13858.8 | 13252.5 | 13020.6 |
| 70°   | 11233.1 | 11897.4 | 12579.9 | 13226.0 | 13650.1 | 14011.2 | 14087.4 | 13878.7 | 13795.8 | 13124.9 | 12843.3 |
| 72.5° | 10083.5 | 10850.5 | 11806.3 | 12397.7 | 12687.6 | 12951.0 | 12922.8 | 12801.9 | 12717.4 | 12041.5 | 11796.4 |
| 75°   | 8191.7  | 8938.8  | 9826.7  | 10419.8 | 10701.4 | 11170.2 | 11203.3 | 11085.7 | 11147.0 | 10466.2 | 10292.2 |
| 77.5° | 5047.5  | 6276.7  | 7209.4  | 8084.0  | 8373.9  | 9107.8  | 9225.4  | 9200.5  | 9333.1  | 8716.8  | 8528.0  |
| 80°   | 1663.2  | 2120.4  | 2557.7  | 3278.3  | 3177.3  | 4078.5  | 4257.4  | 4260.7  | 4509.2  | 3487.1  | 3866.4  |
| 82.5° | 632.8   | 786.9   | 936.0   | 1121.5  | 1184.4  | 1272.2  | 1282.2  | 1245.7  | 1356.7  | 1210.9  | 1197.7  |
| 85°   | 188.8   | 215.4   | 188.8   | 218.7   | 222.0   | 273.3   | 241.9   | 182.2   | 248.5   | 195.5   | 185.5   |
| 87.5° | 13.3    | 19.9    | 19.9    | 43.1    | 0.0     | 43.1    | 26.5    | 19.9    | 19.9    | 26.5    | 23.2    |
| 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):**

|       | 77.5°   | 80°     | 82.5°   | 85°     | 87.5°  | 90°    | 95°    | 100°   | 102.5° | 105°   | 107.5° |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3841.6  | 3841.6  | 3841.6  | 3841.6  | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 |
| 2.5°  | 3843.2  | 3830.0  | 3836.6  | 3833.3  | 3836.6 | 3853.2 | 3843.2 | 3823.3 | 3830.0 | 3846.5 | 3823.3 |
| 5°    | 3876.4  | 3856.5  | 3897.9  | 3830.0  | 3869.7 | 3891.3 | 3897.9 | 3904.5 | 3904.5 | 3907.8 | 3937.6 |
| 7.5°  | 3917.8  | 3879.7  | 3917.8  | 3914.5  | 3937.6 | 3941.0 | 3967.5 | 3990.7 | 4018.8 | 4005.6 | 4032.1 |
| 10°   | 3984.0  | 3987.3  | 3998.9  | 3990.7  | 4012.2 | 4008.9 | 4051.9 | 4088.4 | 4119.9 | 4103.3 | 4106.6 |
| 12.5° | 4133.1  | 4088.4  | 4126.5  | 4098.3  | 4126.5 | 4126.5 | 4146.4 | 4139.7 | 4192.8 | 4166.3 | 4146.4 |
| 15°   | 4280.6  | 4244.1  | 4273.9  | 4244.1  | 4267.3 | 4260.7 | 4250.7 | 4220.9 | 4260.7 | 4250.7 | 4240.8 |
| 17.5° | 4442.9  | 4388.2  | 4429.6  | 4371.7  | 4388.2 | 4345.2 | 4307.1 | 4247.4 | 4293.8 | 4244.1 | 4220.9 |
| 20°   | 4603.6  | 4580.4  | 4577.1  | 4522.4  | 4495.9 | 4472.7 | 4375.0 | 4297.1 | 4315.3 | 4270.6 | 4199.4 |
| 22.5° | 4799.1  | 4765.9  | 4746.0  | 4658.2  | 4630.1 | 4587.0 | 4466.1 | 4345.2 | 4315.3 | 4277.2 | 4214.3 |
| 25°   | 5089.0  | 5007.8  | 4987.9  | 4890.2  | 4867.0 | 4775.9 | 4583.7 | 4433.0 | 4388.2 | 4331.9 | 4234.2 |
| 27.5° | 5431.9  | 5310.9  | 5277.8  | 5138.7  | 5122.1 | 4978.0 | 4785.8 | 4553.9 | 4449.5 | 4335.2 | 4254.0 |
| 30°   | 5909.0  | 5698.6  | 5687.0  | 5493.2  | 5471.6 | 5262.9 | 4991.2 | 4724.5 | 4577.1 | 4433.0 | 4287.2 |
| 32.5° | 6642.8  | 6354.6  | 6381.1  | 6104.4  | 6077.9 | 5738.3 | 5277.8 | 4886.9 | 4678.1 | 4509.2 | 4273.9 |
| 35°   | 7767.6  | 7447.9  | 7418.1  | 7111.6  | 7033.8 | 6674.3 | 6061.4 | 5291.1 | 4893.5 | 4587.0 | 4280.6 |
| 37.5° | 8582.6  | 8339.1  | 8266.2  | 7986.3  | 7693.1 | 7408.1 | 6704.1 | 5829.4 | 5363.9 | 4913.4 | 4375.0 |
| 40°   | 9160.8  | 8899.0  | 8736.7  | 8443.5  | 8211.6 | 7928.3 | 7184.5 | 6290.0 | 5741.6 | 5203.3 | 4577.1 |
| 42.5° | 9604.7  | 9359.6  | 9180.7  | 8912.3  | 8675.4 | 8299.4 | 7487.7 | 6437.4 | 5869.2 | 5363.9 | 4597.0 |
| 45°   | 10015.6 | 9770.4  | 9578.2  | 9285.0  | 9026.6 | 8700.3 | 7800.7 | 6505.3 | 5855.9 | 5262.9 | 4502.5 |
| 47.5° | 10371.7 | 10106.7 | 9833.3  | 9535.2  | 9248.6 | 8938.8 | 8006.2 | 6616.3 | 5788.0 | 5108.8 | 4186.1 |
| 50°   | 10527.4 | 10308.8 | 10076.9 | 9773.7  | 9457.3 | 9160.8 | 8143.7 | 6563.3 | 5519.7 | 4782.5 | 3775.3 |
| 52.5° | 10837.2 | 10514.2 | 10250.8 | 9944.3  | 9598.1 | 9245.3 | 8120.5 | 6371.1 | 5122.1 | 4287.2 | 3271.7 |
| 55°   | 11186.8 | 10900.2 | 10534.1 | 10240.9 | 9806.8 | 9382.8 | 8195.0 | 6142.5 | 4772.6 | 3947.6 | 2900.6 |
| 57.5° | 11489.9 | 11170.2 | 10729.5 | 10406.5 | 9888.0 | 9430.8 | 8029.4 | 5855.9 | 4456.1 | 3621.2 | 2584.2 |
| 60°   | 11786.4 | 11473.3 | 10978.0 | 10580.5 | 9962.6 | 9402.6 | 7868.7 | 5687.0 | 4227.5 | 3334.7 | 2201.6 |
| 62.5° | 12054.8 | 11692.0 | 11032.7 | 10602.0 | 9846.6 | 9285.0 | 7656.6 | 5370.6 | 3830.0 | 2991.7 | 1804.0 |
| 65°   | 12223.8 | 11786.4 | 10978.0 | 10507.6 | 9672.7 | 9086.2 | 7303.8 | 4916.7 | 3392.6 | 2499.8 | 1413.0 |
| 67.5° | 12223.8 | 11711.9 | 10762.7 | 10274.0 | 9281.7 | 8599.2 | 6642.8 | 4234.2 | 2746.6 | 1958.1 | 1008.8 |
| 69°   | 12116.1 | 11542.9 | 10520.8 | 9979.1  | 8938.8 | 8195.0 | 6054.7 | 3725.6 | 2315.9 | 1555.5 | 801.8  |
| 70°   | 11973.6 | 11388.9 | 10244.2 | 9642.8  | 8629.0 | 7828.9 | 5627.3 | 3402.6 | 2026.0 | 1285.5 | 733.9  |
| 72.5° | 10971.4 | 10406.5 | 9121.0  | 8514.7  | 7404.8 | 6671.0 | 4587.0 | 2365.6 | 1144.7 | 733.9  | 593.0  |
| 75°   | 9409.3  | 8955.4  | 7620.2  | 7023.8  | 5862.6 | 5209.9 | 3109.4 | 1103.3 | 646.1  | 558.3  | 457.2  |
| 77.5° | 7404.8  | 6942.6  | 5801.3  | 5122.1  | 3917.8 | 3288.3 | 1259.0 | 589.7  | 485.4  | 387.6  | 303.2  |
| 80°   | 2975.2  | 2850.9  | 1756.0  | 1726.1  | 1076.8 | 955.8  | 616.2  | 410.8  | 329.7  | 265.0  | 188.8  |
| 82.5° | 975.7   | 952.5   | 801.8   | 737.2   | 606.3  | 574.8  | 410.8  | 286.6  | 215.4  | 175.6  | 107.7  |
| 85°   | 140.8   | 172.3   | 162.3   | 162.3   | 114.3  | 130.9  | 97.7   | 77.9   | 61.3   | 49.7   | 26.5   |
| 87.5° | 0.0     | 9.9     | 6.6     | 16.6    | 13.3   | 19.9   | 26.5   | 26.5   | 6.6    | 26.5   | 0.0    |
| 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):**

|       | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   | 135°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 | 3841.6 |
| 2.5°  | 3859.8 | 3863.1 | 3853.2 | 3869.7 | 3876.4 | 3891.3 | 3891.3 | 3904.5 | 3891.3 | 3897.9 | 3947.6 |
| 5°    | 3977.4 | 4005.6 | 3990.7 | 4005.6 | 4025.4 | 4025.4 | 4055.3 | 4078.5 | 4065.2 | 4081.8 | 4172.9 |
| 7.5°  | 4065.2 | 4126.5 | 4106.6 | 4139.7 | 4143.1 | 4172.9 | 4159.6 | 4220.9 | 4196.1 | 4199.4 | 4280.6 |
| 10°   | 4156.3 | 4172.9 | 4189.4 | 4199.4 | 4207.7 | 4254.0 | 4227.5 | 4254.0 | 4264.0 | 4264.0 | 4328.6 |
| 12.5° | 4179.5 | 4214.3 | 4217.6 | 4247.4 | 4211.0 | 4273.9 | 4240.8 | 4280.6 | 4257.4 | 4254.0 | 4297.1 |
| 15°   | 4230.9 | 4234.2 | 4211.0 | 4227.5 | 4220.9 | 4300.4 | 4257.4 | 4287.2 | 4230.9 | 4240.8 | 4270.6 |
| 17.5° | 4202.7 | 4207.7 | 4199.4 | 4214.3 | 4189.4 | 4227.5 | 4179.5 | 4207.7 | 4162.9 | 4136.4 | 4133.1 |
| 20°   | 4230.9 | 4207.7 | 4146.4 | 4159.6 | 4133.1 | 4153.0 | 4098.3 | 4098.3 | 4038.7 | 4008.9 | 3911.1 |
| 22.5° | 4192.8 | 4146.4 | 4098.3 | 4051.9 | 4015.5 | 4012.2 | 3960.8 | 3970.8 | 3866.4 | 3772.0 | 3654.4 |
| 25°   | 4176.2 | 4071.8 | 4045.3 | 3944.3 | 3937.6 | 3891.3 | 3790.2 | 3768.7 | 3670.9 | 3530.1 | 3372.8 |
| 27.5° | 4199.4 | 4051.9 | 3970.8 | 3869.7 | 3796.8 | 3682.5 | 3614.6 | 3520.2 | 3399.3 | 3243.5 | 2971.9 |
| 30°   | 4162.9 | 4025.4 | 3891.3 | 3695.8 | 3634.5 | 3467.2 | 3356.2 | 3236.9 | 3116.0 | 2913.9 | 2577.6 |
| 32.5° | 4136.4 | 3924.4 | 3728.9 | 3493.7 | 3395.9 | 3183.9 | 3086.2 | 2894.0 | 2773.1 | 2518.0 | 2093.9 |
| 35°   | 4032.1 | 3775.3 | 3540.1 | 3285.0 | 3147.5 | 2913.9 | 2753.2 | 2537.9 | 2368.9 | 2065.7 | 1605.2 |
| 37.5° | 4002.3 | 3614.6 | 3382.7 | 3021.6 | 2837.7 | 2557.7 | 2378.8 | 2107.1 | 1938.2 | 1608.5 | 1282.2 |
| 40°   | 4032.1 | 3452.3 | 3122.6 | 2711.8 | 2453.4 | 2127.0 | 1898.4 | 1621.8 | 1436.2 | 1191.1 | 989.0  |
| 42.5° | 3990.7 | 3223.7 | 2812.8 | 2281.1 | 1979.6 | 1595.3 | 1353.4 | 1144.7 | 1056.9 | 904.5  | 750.4  |
| 45°   | 3786.9 | 2927.1 | 2362.3 | 1722.8 | 1429.6 | 1103.3 | 939.3  | 808.4  | 783.6  | 704.0  | 665.9  |
| 47.5° | 3442.3 | 2443.4 | 1895.1 | 1259.0 | 1017.1 | 808.4  | 747.1  | 685.8  | 694.1  | 665.9  | 649.4  |
| 50°   | 3024.9 | 2039.2 | 1510.8 | 989.0  | 831.6  | 773.6  | 720.6  | 694.1  | 694.1  | 662.6  | 659.3  |
| 52.5° | 2564.4 | 1635.0 | 1194.4 | 815.0  | 730.5  | 694.1  | 652.7  | 659.3  | 622.9  | 603.0  | 603.0  |
| 55°   | 2211.5 | 1346.8 | 1027.1 | 753.7  | 682.5  | 646.1  | 656.0  | 619.6  | 612.9  | 593.0  | 616.2  |
| 57.5° | 1895.1 | 1109.9 | 887.9  | 714.0  | 662.6  | 619.6  | 629.5  | 578.1  | 589.7  | 584.8  | 612.9  |
| 60°   | 1545.6 | 929.3  | 805.1  | 665.9  | 616.2  | 599.7  | 578.1  | 558.3  | 551.6  | 541.7  | 596.4  |
| 62.5° | 1229.2 | 821.7  | 733.9  | 626.2  | 571.5  | 545.0  | 538.4  | 545.0  | 535.1  | 545.0  | 603.0  |
| 65°   | 969.1  | 727.2  | 675.9  | 586.4  | 541.7  | 545.0  | 521.8  | 525.1  | 541.7  | 551.6  | 626.2  |
| 67.5° | 790.2  | 619.6  | 584.8  | 511.9  | 488.7  | 463.8  | 477.1  | 498.6  | 505.3  | 518.5  | 629.5  |
| 69°   | 694.1  | 586.4  | 525.1  | 463.8  | 437.3  | 437.3  | 434.0  | 463.8  | 485.4  | 505.3  | 612.9  |
| 70°   | 636.1  | 498.6  | 501.9  | 424.1  | 400.9  | 390.9  | 420.8  | 430.7  | 447.3  | 498.6  | 626.2  |
| 72.5° | 538.4  | 457.2  | 450.6  | 377.7  | 381.0  | 369.4  | 381.0  | 444.0  | 420.8  | 488.7  | 646.1  |
| 75°   | 400.9  | 349.5  | 342.9  | 309.8  | 306.5  | 316.4  | 329.7  | 356.2  | 387.6  | 437.3  | 596.4  |
| 77.5° | 286.6  | 235.2  | 261.7  | 208.7  | 225.3  | 202.1  | 235.2  | 261.7  | 293.2  | 346.2  | 535.1  |
| 80°   | 188.8  | 162.3  | 182.2  | 134.2  | 154.1  | 140.8  | 178.9  | 188.8  | 172.3  | 241.9  | 400.9  |
| 82.5° | 120.9  | 114.3  | 117.6  | 81.2   | 97.7   | 87.8   | 94.4   | 87.8   | 111.0  | 130.9  | 255.1  |
| 85°   | 29.8   | 26.5   | 58.0   | 46.4   | 26.5   | 33.1   | 36.4   | 61.3   | 58.0   | 61.3   | 97.7   |
| 87.5° | 0.0    | 0.0    | 23.2   | 0.0    | 6.6    | 0.0    | 6.6    | 33.1   | 26.5   | 33.1   | 26.5   |
| 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):**

|       | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 3841.6 | 3841.6 | 3841.6 | 3841.6 |
| 2.5°  | 3998.9 | 4051.9 | 4038.7 | 4071.8 |
| 5°    | 4227.5 | 4297.1 | 4297.1 | 4341.8 |
| 7.5°  | 4322.0 | 4394.9 | 4394.9 | 4429.6 |
| 10°   | 4378.3 | 4456.1 | 4459.5 | 4502.5 |
| 12.5° | 4318.7 | 4381.6 | 4394.9 | 4442.9 |
| 15°   | 4247.4 | 4260.7 | 4267.3 | 4300.4 |
| 17.5° | 4065.2 | 4078.5 | 4085.1 | 4098.3 |
| 20°   | 3856.5 | 3836.6 | 3826.7 | 3849.8 |
| 22.5° | 3581.5 | 3523.5 | 3487.1 | 3487.1 |
| 25°   | 3200.5 | 3170.7 | 3089.5 | 3076.2 |
| 27.5° | 2779.7 | 2716.8 | 2652.2 | 2638.9 |
| 30°   | 2332.4 | 2244.6 | 2191.6 | 2214.8 |
| 32.5° | 1820.6 | 1794.1 | 1794.1 | 1823.9 |
| 35°   | 1454.5 | 1487.6 | 1500.8 | 1520.7 |
| 37.5° | 1204.3 | 1278.9 | 1305.4 | 1340.2 |
| 40°   | 932.6  | 1033.7 | 1121.5 | 1177.8 |
| 42.5° | 773.6  | 906.1  | 992.3  | 1017.1 |
| 45°   | 737.2  | 858.1  | 936.0  | 942.6  |
| 47.5° | 730.5  | 838.2  | 919.4  | 942.6  |
| 50°   | 733.9  | 868.0  | 939.3  | 949.2  |
| 52.5° | 694.1  | 808.4  | 874.7  | 868.0  |
| 55°   | 727.2  | 834.9  | 868.0  | 868.0  |
| 57.5° | 740.5  | 868.0  | 949.2  | 962.5  |
| 60°   | 770.3  | 1020.4 | 1106.6 | 1109.9 |
| 62.5° | 861.4  | 1184.4 | 1096.6 | 1056.9 |
| 65°   | 1013.8 | 1265.6 | 1121.5 | 1063.5 |
| 67.5° | 939.3  | 1020.4 | 897.9  | 887.9  |
| 69°   | 912.8  | 979.0  | 871.4  | 841.5  |
| 70°   | 881.3  | 959.1  | 871.4  | 861.4  |
| 72.5° | 891.2  | 975.7  | 760.4  | 714.0  |
| 75°   | 838.2  | 932.6  | 723.9  | 659.3  |
| 77.5° | 793.5  | 878.0  | 714.0  | 652.7  |
| 80°   | 659.3  | 801.8  | 707.4  | 685.8  |
| 82.5° | 453.9  | 632.8  | 612.9  | 652.7  |
| 85°   | 235.2  | 394.3  | 495.3  | 578.1  |
| 87.5° | 77.9   | 157.4  | 231.9  | 261.7  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)