

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: McGRAW-EDISON

Report Number: P157937

Luminaire Tested: **VTS-F08-LED-E1-RW-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157937  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F08-LED-E1-RW-7060  
Description: VENTUS LED SITE LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (56) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

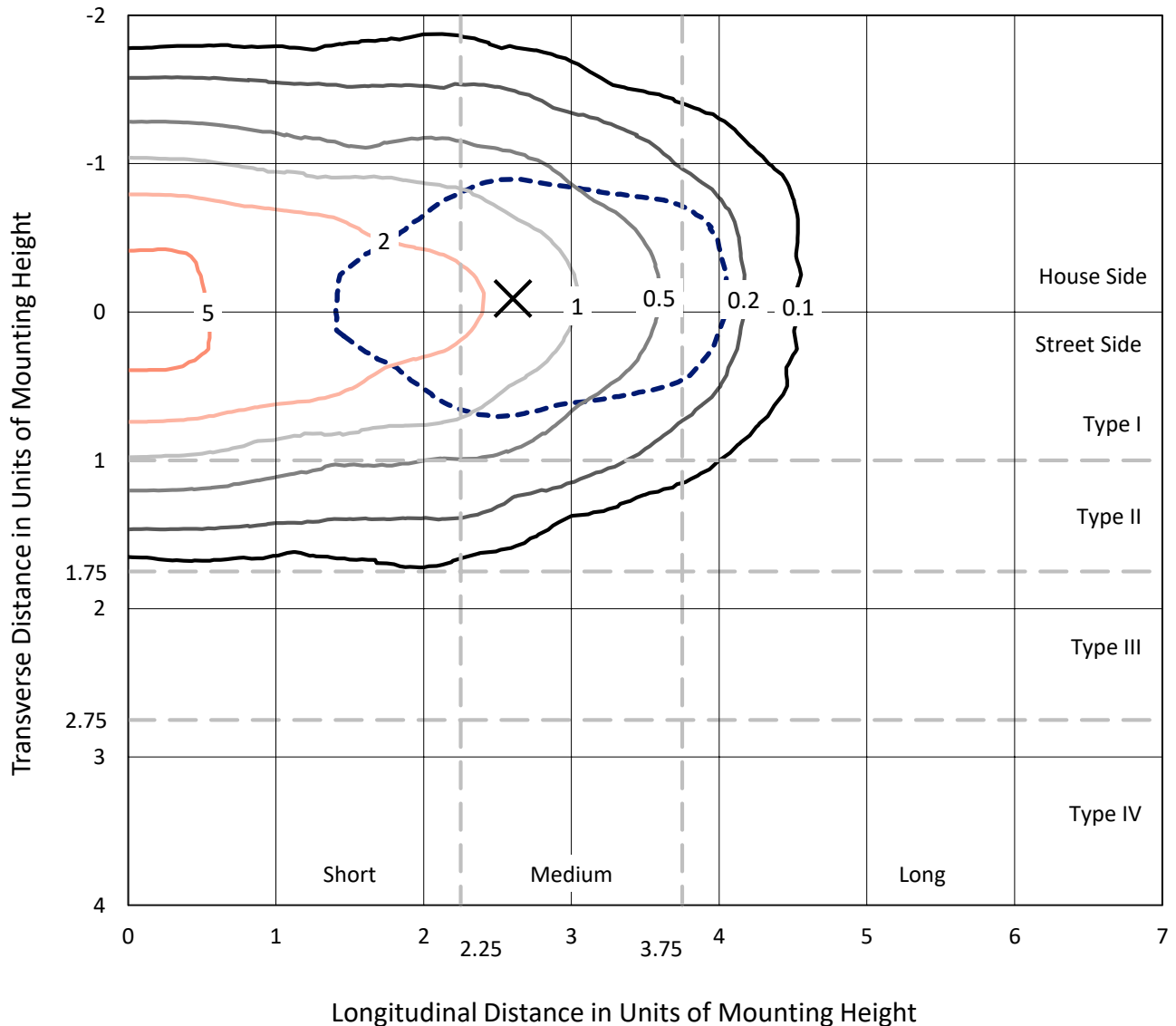
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21111.9 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 204.4  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

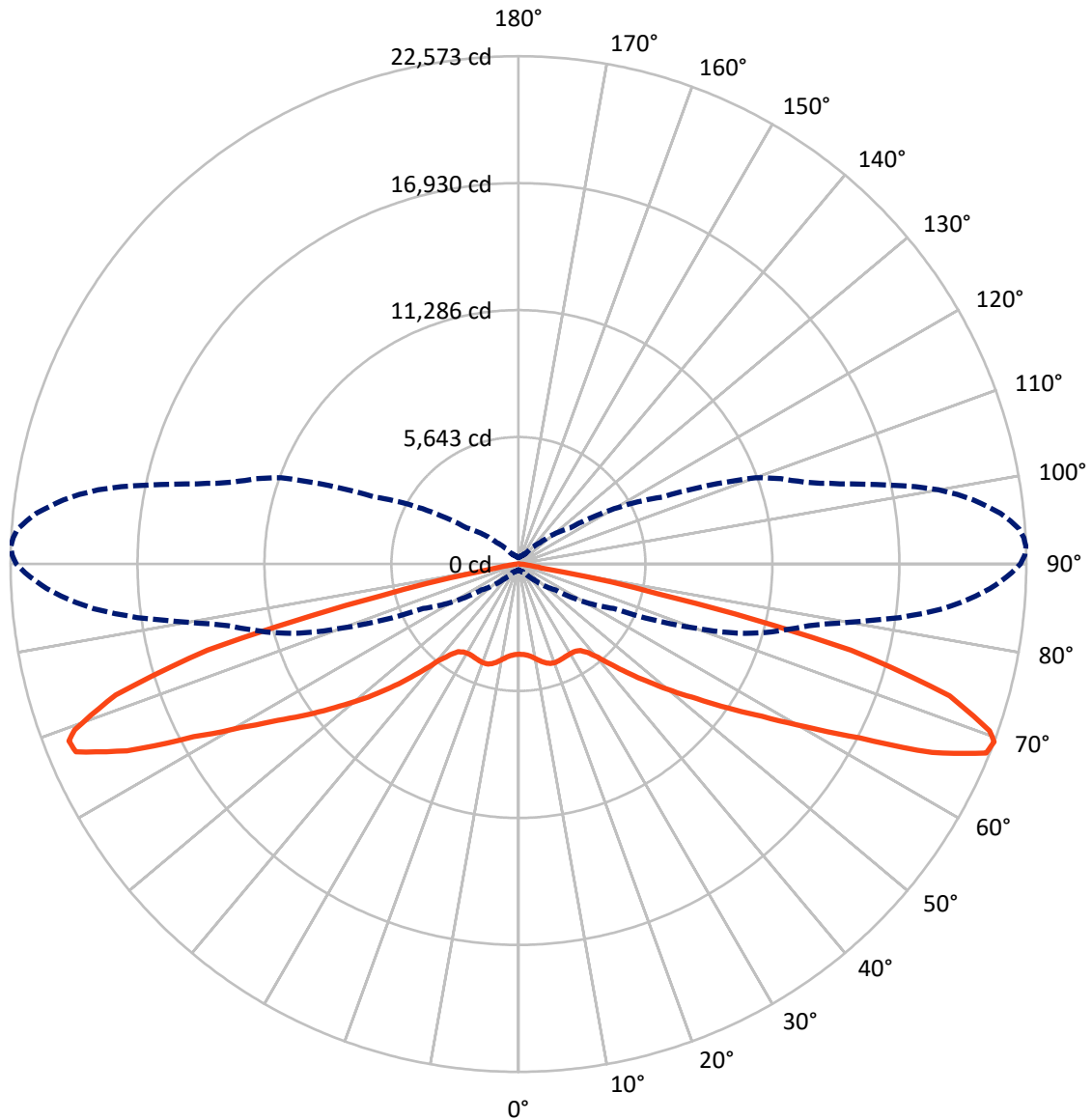
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11196.8  | 0.0    | 11196.8 |
|                    | % Fixture | 53.0     | 0.0    | 53.0    |
| <b>Street Side</b> | Lumens    | 9915.2   | 0.0    | 9915.2  |
|                    | % Fixture | 47.0     | 0.0    | 47.0    |
| <b>Total</b>       | Lumens    | 21111.9  | 0.0    | 21111.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 392.4   | 1.9       |
| 10°-20°   | 1239.7  | 5.9       |
| 20°-30°   | 2011.2  | 9.5       |
| 30°-40°   | 2506.5  | 11.9      |
| 40°-50°   | 3120.9  | 14.8      |
| 50°-60°   | 3848.9  | 18.2      |
| 60°-70°   | 4780.0  | 22.6      |
| 70°-80°   | 2937.0  | 13.9      |
| 80°-90°   | 275.3   | 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°    | 21111.9 | 100.0     |
| 0°-180°   | 21111.9 | 100.0     |



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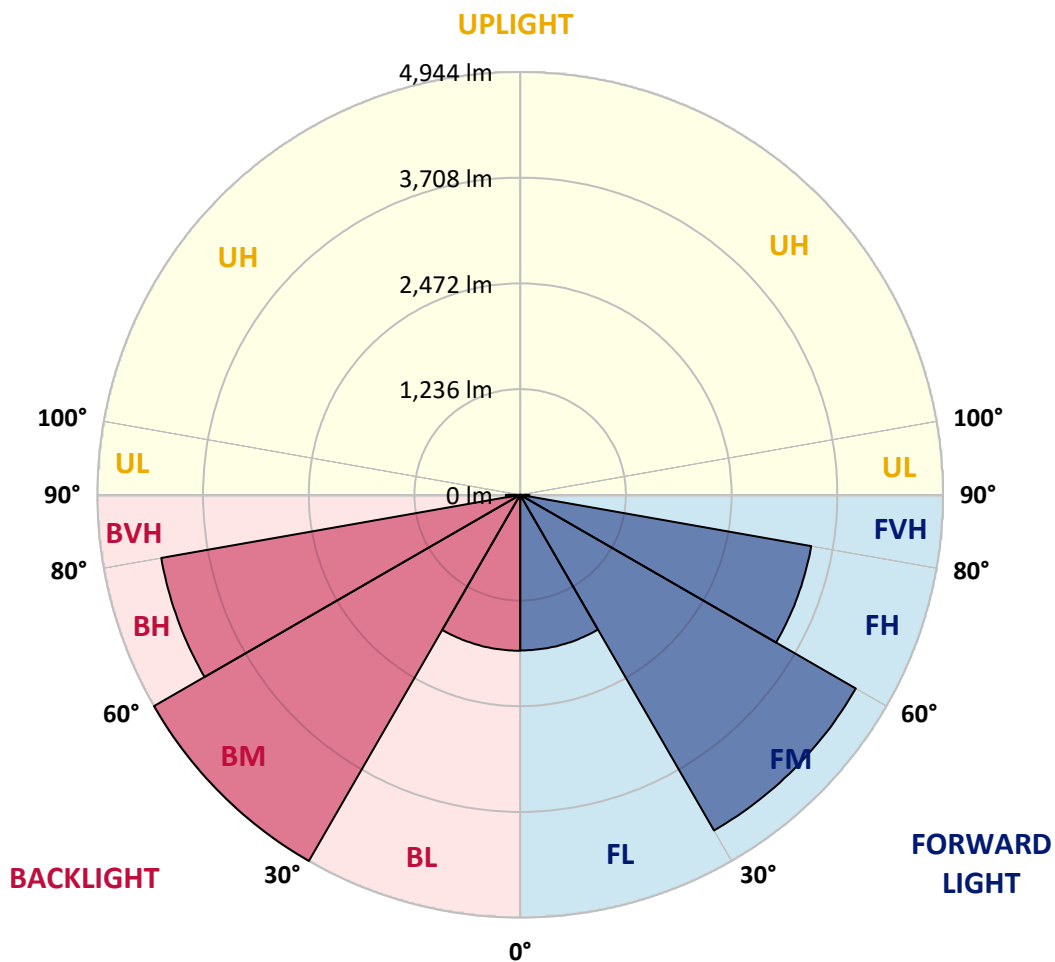
CATALOG NUMBER: VTS-F08-LED-E1-RW-7060

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1819.7 | 8.6       |                         |      |         |
| FM (30°-60°)   | 4531.9 | 21.5      |                         |      |         |
| FH (60°-80°)   | 3455.7 | 16.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 107.8  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 1823.6 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 4944.4 | 23.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 4261.3 | 20.2      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 167.5  | 0.8       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 71°    | 72°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4  |
| 2.5°  | 4074.1 | 4063.3 | 4072.7 | 4074.1 | 4072.7 | 4072.7 | 4060.5 | 4057.8 | 4041.6 | 4045.6 | 4044.3  |
| 5°    | 4129.7 | 4125.6 | 4132.4 | 4135.1 | 4137.8 | 4132.4 | 4122.9 | 4118.8 | 4108.0 | 4103.9 | 4102.6  |
| 7.5°  | 4181.2 | 4174.4 | 4185.2 | 4194.7 | 4201.5 | 4202.9 | 4204.2 | 4197.4 | 4197.4 | 4192.0 | 4192.0  |
| 10°   | 4224.5 | 4219.1 | 4236.7 | 4248.9 | 4270.6 | 4282.8 | 4296.4 | 4305.9 | 4311.3 | 4312.6 | 4311.3  |
| 12.5° | 4243.5 | 4239.4 | 4267.9 | 4304.5 | 4345.2 | 4373.6 | 4407.5 | 4431.9 | 4438.7 | 4437.3 | 4444.1  |
| 15°   | 4211.0 | 4213.7 | 4257.1 | 4328.9 | 4415.6 | 4487.5 | 4534.9 | 4555.2 | 4560.7 | 4563.4 | 4564.7  |
| 17.5° | 4122.9 | 4128.3 | 4190.7 | 4307.2 | 4459.0 | 4589.1 | 4659.6 | 4659.6 | 4648.8 | 4648.8 | 4647.4  |
| 20°   | 3981.9 | 3987.4 | 4068.7 | 4236.7 | 4460.4 | 4659.6 | 4759.9 | 4739.6 | 4698.9 | 4690.8 | 4682.6  |
| 22.5° | 3786.8 | 3808.5 | 3897.9 | 4093.1 | 4402.1 | 4679.9 | 4822.2 | 4792.4 | 4728.7 | 4711.1 | 4698.9  |
| 25°   | 3565.8 | 3563.1 | 3670.2 | 3889.8 | 4261.1 | 4631.1 | 4839.9 | 4834.4 | 4766.7 | 4747.7 | 4726.0  |
| 27.5° | 3313.8 | 3321.9 | 3420.8 | 3643.1 | 4045.6 | 4490.2 | 4810.0 | 4881.9 | 4826.3 | 4807.3 | 4787.0  |
| 30°   | 3054.9 | 3063.0 | 3156.5 | 3415.4 | 3800.3 | 4288.2 | 4749.0 | 4927.9 | 4906.3 | 4891.4 | 4877.8  |
| 32.5° | 2794.7 | 2797.4 | 2908.5 | 3186.4 | 3593.0 | 4047.0 | 4656.9 | 4970.0 | 4999.8 | 4993.0 | 4987.6  |
| 35°   | 2550.7 | 2553.4 | 2674.0 | 2956.0 | 3388.3 | 3841.0 | 4545.7 | 5031.0 | 5127.2 | 5135.3 | 5140.7  |
| 37.5° | 2313.5 | 2317.6 | 2440.9 | 2736.4 | 3186.4 | 3685.1 | 4422.4 | 5124.5 | 5306.1 | 5335.9 | 5341.3  |
| 40°   | 2077.7 | 2081.8 | 2199.7 | 2512.8 | 2981.7 | 3548.2 | 4327.5 | 5255.9 | 5547.3 | 5588.0 | 5630.0  |
| 42.5° | 1852.7 | 1867.6 | 1967.9 | 2267.5 | 2754.0 | 3378.8 | 4286.9 | 5415.9 | 5833.3 | 5897.0 | 5944.4  |
| 45°   | 1642.6 | 1644.0 | 1757.9 | 2038.4 | 2484.3 | 3149.8 | 4259.8 | 5597.5 | 6153.2 | 6249.4 | 6314.4  |
| 47.5° | 1417.7 | 1433.9 | 1553.2 | 1825.6 | 2232.2 | 2866.5 | 4173.0 | 5810.3 | 6501.5 | 6614.0 | 6745.4  |
| 50°   | 1199.5 | 1222.5 | 1337.7 | 1607.4 | 2001.8 | 2573.8 | 3939.9 | 6059.6 | 6893.2 | 7039.5 | 7191.3  |
| 52.5° | 989.4  | 988.0  | 1110.0 | 1390.6 | 1770.0 | 2325.7 | 3561.8 | 6321.2 | 7345.8 | 7503.1 | 7667.1  |
| 55°   | 748.1  | 748.1  | 868.8  | 1124.9 | 1519.3 | 2104.8 | 3156.5 | 6483.9 | 7766.0 | 7955.7 | 8134.6  |
| 57.5° | 513.7  | 527.2  | 641.1  | 862.0  | 1257.7 | 1902.9 | 2846.2 | 6390.3 | 8087.2 | 8323.0 | 8535.8  |
| 60°   | 380.8  | 394.4  | 478.4  | 619.4  | 984.0  | 1664.3 | 2613.1 | 5949.9 | 8281.0 | 8594.1 | 8870.6  |
| 62.5° | 329.3  | 338.8  | 418.8  | 496.0  | 708.8  | 1410.9 | 2407.1 | 5390.1 | 8560.2 | 8988.5 | 9373.4  |
| 65°   | 294.1  | 303.6  | 383.6  | 428.3  | 554.3  | 1134.4 | 2291.8 | 5070.3 | 8893.6 | 9548.2 | 10106.6 |
| 67.5° | 272.4  | 283.3  | 351.0  | 383.6  | 483.8  | 1026.0 | 2202.4 | 4995.7 | 8890.9 | 9685.1 | 10398.0 |
| 69°   | 261.6  | 269.7  | 325.3  | 360.5  | 467.6  | 993.5  | 2008.6 | 4671.8 | 8304.1 | 9156.5 | 9872.2  |
| 70°   | 254.8  | 262.9  | 310.4  | 345.6  | 462.2  | 935.2  | 1829.7 | 4243.5 | 7635.9 | 8493.8 | 9220.2  |
| 72.5° | 233.1  | 241.2  | 276.5  | 309.0  | 384.9  | 624.8  | 1275.4 | 2716.1 | 5456.5 | 6069.1 | 6899.9  |
| 75°   | 206.0  | 215.5  | 242.6  | 269.7  | 291.4  | 361.9  | 735.9  | 1409.5 | 3119.9 | 3584.8 | 4324.8  |
| 77.5° | 168.1  | 177.5  | 206.0  | 249.4  | 246.7  | 275.1  | 478.4  | 866.1  | 1461.0 | 1812.1 | 2085.8  |
| 80°   | 138.2  | 145.0  | 169.4  | 252.1  | 201.9  | 230.4  | 387.6  | 710.2  | 1028.7 | 1137.1 | 1202.2  |
| 82.5° | 92.2   | 101.6  | 131.5  | 197.9  | 154.5  | 164.0  | 290.0  | 664.1  | 870.1  | 954.1  | 1032.8  |
| 85°   | 43.4   | 47.4   | 80.0   | 105.7  | 93.5   | 88.1   | 165.3  | 468.9  | 647.8  | 687.1  | 717.0   |
| 87.5° | 0.0    | 0.0    | 4.1    | 8.1    | 12.2   | 12.2   | 29.8   | 98.9   | 181.6  | 219.6  | 216.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 73°     | 74°     | 75°     | 76°     | 77°     | 78°     | 79°     | 80°     | 81°     | 82°     | 83°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  |
| 2.5°  | 4038.9  | 4040.2  | 4038.9  | 4038.9  | 4037.5  | 4034.8  | 4034.8  | 4032.1  | 4033.4  | 4032.1  | 4034.8  |
| 5°    | 4101.2  | 4101.2  | 4097.1  | 4094.4  | 4098.5  | 4094.4  | 4095.8  | 4089.0  | 4089.0  | 4084.9  | 4079.5  |
| 7.5°  | 4190.7  | 4190.7  | 4192.0  | 4183.9  | 4189.3  | 4190.7  | 4186.6  | 4183.9  | 4181.2  | 4174.4  | 4175.7  |
| 10°   | 4309.9  | 4309.9  | 4314.0  | 4303.1  | 4308.6  | 4311.3  | 4312.6  | 4312.6  | 4309.9  | 4297.7  | 4299.1  |
| 12.5° | 4442.7  | 4440.0  | 4441.4  | 4436.0  | 4441.4  | 4444.1  | 4446.8  | 4444.1  | 4444.1  | 4441.4  | 4440.0  |
| 15°   | 4563.4  | 4562.0  | 4564.7  | 4560.7  | 4562.0  | 4564.7  | 4572.9  | 4571.5  | 4570.1  | 4562.0  | 4562.0  |
| 17.5° | 4646.0  | 4642.0  | 4639.3  | 4637.9  | 4637.9  | 4636.6  | 4637.9  | 4637.9  | 4633.8  | 4632.5  | 4632.5  |
| 20°   | 4677.2  | 4666.4  | 4659.6  | 4655.5  | 4650.1  | 4647.4  | 4644.7  | 4646.0  | 4643.3  | 4639.3  | 4640.6  |
| 22.5° | 4682.6  | 4667.7  | 4654.2  | 4642.0  | 4631.1  | 4624.4  | 4617.6  | 4614.9  | 4608.1  | 4604.0  | 4604.0  |
| 25°   | 4708.4  | 4685.3  | 4663.7  | 4643.3  | 4627.1  | 4612.2  | 4597.2  | 4586.4  | 4578.3  | 4568.8  | 4566.1  |
| 27.5° | 4765.3  | 4740.9  | 4715.2  | 4689.4  | 4667.7  | 4637.9  | 4617.6  | 4595.9  | 4576.9  | 4562.0  | 4551.2  |
| 30°   | 4853.4  | 4829.0  | 4803.3  | 4773.4  | 4745.0  | 4713.8  | 4679.9  | 4654.2  | 4627.1  | 4597.2  | 4581.0  |
| 32.5° | 4970.0  | 4953.7  | 4927.9  | 4899.5  | 4873.7  | 4841.2  | 4800.5  | 4761.2  | 4735.5  | 4700.3  | 4674.5  |
| 35°   | 5136.7  | 5117.7  | 5109.6  | 5097.4  | 5071.6  | 5051.3  | 5006.6  | 4970.0  | 4945.6  | 4896.8  | 4877.8  |
| 37.5° | 5364.4  | 5363.0  | 5369.8  | 5365.7  | 5369.8  | 5344.0  | 5323.7  | 5322.3  | 5287.1  | 5239.7  | 5193.6  |
| 40°   | 5674.7  | 5691.0  | 5727.6  | 5753.3  | 5777.7  | 5780.4  | 5808.9  | 5779.1  | 5783.2  | 5776.4  | 5728.9  |
| 42.5° | 6028.5  | 6084.0  | 6127.4  | 6203.3  | 6261.6  | 6315.8  | 6352.4  | 6402.5  | 6440.5  | 6474.4  | 6482.5  |
| 45°   | 6422.9  | 6505.5  | 6605.8  | 6673.6  | 6787.4  | 6878.3  | 7002.9  | 7099.2  | 7199.5  | 7298.4  | 7333.6  |
| 47.5° | 6851.1  | 6954.2  | 7065.3  | 7191.3  | 7335.0  | 7477.3  | 7669.8  | 7817.5  | 7978.8  | 8113.0  | 8232.2  |
| 50°   | 7324.2  | 7431.2  | 7580.3  | 7725.3  | 7923.2  | 8087.2  | 8339.3  | 8533.1  | 8793.3  | 8972.2  | 9126.7  |
| 52.5° | 7817.5  | 7951.7  | 8118.4  | 8278.3  | 8480.2  | 8690.3  | 8970.9  | 9256.8  | 9569.9  | 9841.0  | 10066.0 |
| 55°   | 8300.0  | 8465.3  | 8625.3  | 8812.3  | 9035.9  | 9279.9  | 9597.0  | 9973.8  | 10364.1 | 10674.5 | 10972.7 |
| 57.5° | 8729.6  | 8920.7  | 9109.1  | 9298.9  | 9527.9  | 9811.2  | 10167.6 | 10574.2 | 11021.5 | 11434.8 | 11844.2 |
| 60°   | 9128.1  | 9357.1  | 9587.5  | 9824.7  | 10087.7 | 10437.3 | 10865.6 | 11365.7 | 11944.4 | 12509.6 | 13045.0 |
| 62.5° | 9758.3  | 10059.2 | 10345.2 | 10651.5 | 10968.6 | 11379.3 | 11884.8 | 12540.8 | 13204.9 | 13911.0 | 14459.9 |
| 65°   | 10612.2 | 11035.0 | 11409.1 | 11806.2 | 12216.9 | 12765.8 | 13370.2 | 14155.0 | 15106.4 | 15830.1 | 16711.1 |
| 67.5° | 11036.4 | 11593.4 | 12074.6 | 12516.4 | 13024.6 | 13579.0 | 14297.3 | 15225.7 | 16240.8 | 17289.8 | 18272.4 |
| 69°   | 10537.6 | 11112.3 | 11644.9 | 12139.6 | 12653.3 | 13191.3 | 13942.2 | 14895.0 | 15968.4 | 17102.8 | 18062.4 |
| 70°   | 9891.1  | 10465.8 | 11033.7 | 11597.5 | 12066.4 | 12590.9 | 13344.5 | 14327.1 | 15399.2 | 16578.3 | 17529.7 |
| 72.5° | 7577.6  | 8268.8  | 8782.5  | 9311.1  | 9854.5  | 10299.1 | 11169.2 | 11997.3 | 13114.1 | 14310.8 | 15358.5 |
| 75°   | 4848.0  | 5483.6  | 6044.7  | 6494.7  | 7026.0  | 7558.6  | 8201.0  | 9121.3  | 9820.7  | 10803.3 | 11653.0 |
| 77.5° | 2491.1  | 2679.5  | 3220.2  | 3381.5  | 3750.2  | 4040.2  | 4394.0  | 4624.4  | 5193.6  | 5314.2  | 5815.7  |
| 80°   | 1180.5  | 1063.9  | 1001.6  | 944.7   | 960.9   | 954.1   | 925.7   | 887.7   | 935.2   | 914.8   | 906.7   |
| 82.5° | 1028.7  | 917.6   | 731.9   | 622.1   | 538.1   | 456.7   | 393.0   | 360.5   | 364.6   | 375.4   | 379.5   |
| 85°   | 721.0   | 677.7   | 528.6   | 401.2   | 313.1   | 242.6   | 195.2   | 187.0   | 192.5   | 207.4   | 201.9   |
| 87.5° | 208.7   | 218.2   | 192.5   | 134.2   | 93.5    | 67.8    | 52.9    | 59.6    | 56.9    | 55.6    | 58.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





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**CANDELA DISTRIBUTION (continued):**

|       | 84°     | 85°     | 86°     | 87°     | 88°     | 89°     | 90°     | 91°     | 92°     | 93°     | 94°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  |
| 2.5°  | 4034.8  | 4033.4  | 4029.4  | 4025.3  | 4025.3  | 4022.6  | 4025.3  | 4026.7  | 4025.3  | 4025.3  | 4022.6  |
| 5°    | 4080.9  | 4082.2  | 4086.3  | 4078.2  | 4076.8  | 4078.2  | 4072.7  | 4071.4  | 4067.3  | 4071.4  | 4066.0  |
| 7.5°  | 4169.0  | 4173.0  | 4173.0  | 4167.6  | 4166.3  | 4170.3  | 4162.2  | 4159.5  | 4155.4  | 4154.1  | 4152.7  |
| 10°   | 4300.4  | 4304.5  | 4297.7  | 4293.7  | 4289.6  | 4295.0  | 4288.2  | 4288.2  | 4284.2  | 4280.1  | 4278.7  |
| 12.5° | 4446.8  | 4444.1  | 4441.4  | 4444.1  | 4440.0  | 4440.0  | 4436.0  | 4433.3  | 4431.9  | 4430.5  | 4427.8  |
| 15°   | 4560.7  | 4570.1  | 4570.1  | 4572.9  | 4570.1  | 4570.1  | 4564.7  | 4566.1  | 4563.4  | 4562.0  | 4563.4  |
| 17.5° | 4633.8  | 4636.6  | 4643.3  | 4647.4  | 4647.4  | 4648.8  | 4646.0  | 4648.8  | 4646.0  | 4646.0  | 4651.5  |
| 20°   | 4643.3  | 4646.0  | 4652.8  | 4659.6  | 4663.7  | 4666.4  | 4666.4  | 4670.4  | 4673.1  | 4675.9  | 4682.6  |
| 22.5° | 4605.4  | 4609.4  | 4617.6  | 4629.8  | 4636.6  | 4639.3  | 4644.7  | 4651.5  | 4658.2  | 4663.7  | 4673.1  |
| 25°   | 4566.1  | 4567.4  | 4575.6  | 4587.8  | 4595.9  | 4602.7  | 4612.2  | 4620.3  | 4629.8  | 4640.6  | 4651.5  |
| 27.5° | 4544.4  | 4543.0  | 4549.8  | 4562.0  | 4568.8  | 4578.3  | 4586.4  | 4598.6  | 4609.4  | 4623.0  | 4632.5  |
| 30°   | 4563.4  | 4552.5  | 4553.9  | 4559.3  | 4564.7  | 4571.5  | 4581.0  | 4591.8  | 4604.0  | 4616.2  | 4627.1  |
| 32.5° | 4647.4  | 4623.0  | 4606.7  | 4602.7  | 4604.0  | 4605.4  | 4610.8  | 4617.6  | 4627.1  | 4636.6  | 4640.6  |
| 35°   | 4829.0  | 4787.0  | 4765.3  | 4747.7  | 4732.8  | 4720.6  | 4723.3  | 4721.9  | 4721.9  | 4730.1  | 4720.6  |
| 37.5° | 5174.6  | 5121.8  | 5098.7  | 5067.5  | 5049.9  | 5005.2  | 4993.0  | 4990.3  | 4972.7  | 4972.7  | 4952.3  |
| 40°   | 5716.7  | 5685.6  | 5668.0  | 5639.5  | 5554.1  | 5564.9  | 5504.0  | 5505.3  | 5455.2  | 5460.6  | 5425.3  |
| 42.5° | 6487.9  | 6492.0  | 6470.3  | 6451.3  | 6384.9  | 6355.1  | 6298.2  | 6216.9  | 6153.2  | 6151.8  | 6081.3  |
| 45°   | 7379.7  | 7428.5  | 7359.4  | 7383.8  | 7325.5  | 7245.5  | 7179.1  | 7074.8  | 6975.8  | 6944.7  | 6872.8  |
| 47.5° | 8312.2  | 8392.1  | 8339.3  | 8348.8  | 8320.3  | 8206.5  | 8117.0  | 7988.3  | 7859.5  | 7772.8  | 7729.4  |
| 50°   | 9308.3  | 9361.2  | 9359.8  | 9334.1  | 9320.5  | 9209.4  | 9065.7  | 8968.2  | 8873.3  | 8756.7  | 8718.8  |
| 52.5° | 10211.0 | 10334.3 | 10417.0 | 10398.0 | 10358.7 | 10292.3 | 10164.9 | 10080.9 | 9941.3  | 9925.0  | 9941.3  |
| 55°   | 11177.3 | 11337.3 | 11421.3 | 11522.9 | 11524.3 | 11512.1 | 11459.2 | 11428.1 | 11298.0 | 11312.9 | 11293.9 |
| 57.5° | 12092.2 | 12326.6 | 12455.4 | 12672.3 | 12746.8 | 12845.7 | 12809.1 | 12849.8 | 12771.2 | 12822.7 | 12807.8 |
| 60°   | 13332.3 | 13657.6 | 13871.7 | 14168.5 | 14306.8 | 14554.8 | 14603.6 | 14633.4 | 14676.8 | 14782.5 | 14722.9 |
| 62.5° | 14892.3 | 15369.3 | 15813.9 | 16217.8 | 16350.6 | 16723.3 | 16784.3 | 17017.4 | 17029.6 | 17101.4 | 16970.0 |
| 65°   | 17445.7 | 18027.1 | 18516.4 | 19000.2 | 19279.4 | 19715.9 | 19892.0 | 20344.7 | 20206.5 | 20264.8 | 19984.2 |
| 67.5° | 19118.2 | 19794.5 | 20450.4 | 20908.5 | 21372.1 | 21818.0 | 22139.2 | 22431.9 | 22429.2 | 22372.3 | 22122.9 |
| 69°   | 18970.4 | 19724.0 | 20370.5 | 20984.4 | 21472.4 | 21930.4 | 22316.7 | 22506.5 | 22572.9 | 22490.2 | 22312.6 |
| 70°   | 18459.5 | 19233.4 | 20024.9 | 20530.4 | 21061.7 | 21564.5 | 21963.0 | 22170.3 | 22216.4 | 22158.1 | 22005.0 |
| 72.5° | 16098.5 | 16841.2 | 17714.0 | 18173.5 | 18815.9 | 19179.1 | 19728.1 | 19996.4 | 20043.8 | 19969.3 | 19869.0 |
| 75°   | 12563.8 | 12698.0 | 13587.1 | 13879.8 | 14346.1 | 14764.9 | 15106.4 | 15019.7 | 15262.3 | 15214.8 | 15176.9 |
| 77.5° | 5918.7  | 5560.9  | 6136.9  | 6405.2  | 6264.3  | 5888.9  | 6435.1  | 6040.7  | 6302.2  | 6642.4  | 6555.7  |
| 80°   | 975.8   | 973.1   | 998.9   | 1055.8  | 988.0   | 1049.0  | 1047.7  | 1017.8  | 1020.6  | 1093.7  | 1055.8  |
| 82.5° | 375.4   | 383.6   | 387.6   | 398.5   | 398.5   | 399.8   | 406.6   | 414.7   | 408.0   | 421.5   | 418.8   |
| 85°   | 203.3   | 216.9   | 204.7   | 195.2   | 201.9   | 206.0   | 211.4   | 218.2   | 211.4   | 231.8   | 220.9   |
| 87.5° | 52.9    | 55.6    | 48.8    | 48.8    | 47.4    | 43.4    | 43.4    | 46.1    | 50.1    | 59.6    | 65.1    |
| 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):**

|       | 95°     | 96°     | 97°     | 98°     | 99°     | 100°    | 101°    | 102°    | 103°    | 104°    | 105°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  |
| 2.5°  | 4017.2  | 4018.5  | 4019.9  | 4015.8  | 4013.1  | 4013.1  | 4011.8  | 4009.0  | 4007.7  | 4007.7  | 4007.7  |
| 5°    | 4063.3  | 4066.0  | 4059.2  | 4057.8  | 4055.1  | 4052.4  | 4052.4  | 4049.7  | 4051.1  | 4051.1  | 4044.3  |
| 7.5°  | 4155.4  | 4151.3  | 4143.2  | 4137.8  | 4143.2  | 4133.7  | 4129.7  | 4132.4  | 4129.7  | 4131.0  | 4128.3  |
| 10°   | 4278.7  | 4278.7  | 4269.3  | 4274.7  | 4267.9  | 4257.1  | 4261.1  | 4257.1  | 4254.4  | 4244.9  | 4250.3  |
| 12.5° | 4431.9  | 4427.8  | 4422.4  | 4410.2  | 4406.1  | 4404.8  | 4392.6  | 4394.0  | 4389.9  | 4387.2  | 4383.1  |
| 15°   | 4566.1  | 4564.7  | 4552.5  | 4545.7  | 4544.4  | 4539.0  | 4533.5  | 4530.8  | 4524.1  | 4522.7  | 4520.0  |
| 17.5° | 4655.5  | 4651.5  | 4646.0  | 4639.3  | 4639.3  | 4631.1  | 4628.4  | 4621.6  | 4620.3  | 4616.2  | 4612.2  |
| 20°   | 4685.3  | 4686.7  | 4681.3  | 4675.9  | 4673.1  | 4667.7  | 4663.7  | 4658.2  | 4655.5  | 4650.1  | 4646.0  |
| 22.5° | 4678.6  | 4678.6  | 4673.1  | 4671.8  | 4666.4  | 4658.2  | 4652.8  | 4646.0  | 4639.3  | 4632.5  | 4624.4  |
| 25°   | 4656.9  | 4655.5  | 4651.5  | 4644.7  | 4637.9  | 4625.7  | 4614.9  | 4604.0  | 4594.5  | 4586.4  | 4574.2  |
| 27.5° | 4637.9  | 4635.2  | 4627.1  | 4617.6  | 4604.0  | 4590.5  | 4570.1  | 4555.2  | 4543.0  | 4532.2  | 4518.6  |
| 30°   | 4631.1  | 4621.6  | 4609.4  | 4594.5  | 4578.3  | 4557.9  | 4536.3  | 4517.3  | 4503.7  | 4492.9  | 4487.5  |
| 32.5° | 4639.3  | 4627.1  | 4608.1  | 4589.1  | 4568.8  | 4544.4  | 4522.7  | 4506.4  | 4494.2  | 4491.5  | 4491.5  |
| 35°   | 4713.8  | 4693.5  | 4667.7  | 4640.6  | 4614.9  | 4594.5  | 4579.6  | 4578.3  | 4570.1  | 4579.6  | 4594.5  |
| 37.5° | 4932.0  | 4914.4  | 4875.1  | 4839.9  | 4822.2  | 4812.7  | 4799.2  | 4801.9  | 4782.9  | 4812.7  | 4837.1  |
| 40°   | 5395.5  | 5373.8  | 5327.8  | 5299.3  | 5264.1  | 5230.2  | 5257.3  | 5249.2  | 5262.7  | 5257.3  | 5283.0  |
| 42.5° | 6071.8  | 6050.2  | 5977.0  | 5966.1  | 5951.2  | 5937.7  | 5937.7  | 5926.8  | 5921.4  | 5940.4  | 5918.7  |
| 45°   | 6894.5  | 6851.1  | 6824.0  | 6856.6  | 6811.8  | 6825.4  | 6872.8  | 6809.1  | 6824.0  | 6735.9  | 6654.6  |
| 47.5° | 7748.4  | 7744.3  | 7737.5  | 7776.8  | 7783.6  | 7803.9  | 7829.7  | 7764.6  | 7646.7  | 7580.3  | 7415.0  |
| 50°   | 8731.0  | 8773.0  | 8789.3  | 8827.2  | 8843.5  | 8858.4  | 8817.7  | 8721.5  | 8522.3  | 8346.1  | 8150.9  |
| 52.5° | 9925.0  | 9851.8  | 9952.1  | 9988.7  | 9972.5  | 9912.8  | 9766.4  | 9648.5  | 9373.4  | 9120.0  | 8817.7  |
| 55°   | 11315.6 | 11333.2 | 11262.7 | 11234.3 | 11178.7 | 11013.3 | 10811.4 | 10545.8 | 10197.4 | 9866.7  | 9484.5  |
| 57.5° | 12731.9 | 12725.1 | 12615.3 | 12460.8 | 12272.4 | 12073.2 | 11772.3 | 11391.5 | 10984.9 | 10540.3 | 10078.2 |
| 60°   | 14454.5 | 14447.7 | 14225.4 | 13961.2 | 13692.8 | 13371.6 | 12899.9 | 12441.8 | 11897.0 | 11312.9 | 10762.6 |
| 62.5° | 16717.9 | 16426.5 | 16208.3 | 15813.9 | 15399.2 | 14979.0 | 14340.7 | 13732.1 | 13004.3 | 12267.0 | 11624.6 |
| 65°   | 19618.3 | 19138.5 | 18890.5 | 18318.5 | 17676.1 | 17020.1 | 16370.9 | 15571.3 | 14591.4 | 13699.6 | 12914.9 |
| 67.5° | 21763.7 | 21324.6 | 20870.6 | 20300.0 | 19595.2 | 18863.4 | 17974.3 | 16967.3 | 15854.5 | 14854.3 | 13999.1 |
| 69°   | 21952.1 | 21541.5 | 20996.6 | 20424.7 | 19757.9 | 18962.3 | 17991.9 | 16864.3 | 15736.6 | 14724.2 | 13882.6 |
| 70°   | 21666.2 | 21229.7 | 20656.4 | 20061.5 | 19316.0 | 18565.2 | 17548.7 | 16373.6 | 15244.7 | 14229.5 | 13408.2 |
| 72.5° | 19532.9 | 19107.3 | 18497.4 | 17785.9 | 17021.5 | 16379.1 | 15414.1 | 14188.9 | 12960.9 | 12023.1 | 11383.3 |
| 75°   | 14853.0 | 14759.4 | 14327.1 | 13912.4 | 13310.6 | 12593.6 | 11711.3 | 10887.3 | 9880.3  | 8888.2  | 8291.9  |
| 77.5° | 6337.5  | 6553.0  | 6778.0  | 6810.5  | 6832.2  | 6611.3  | 6474.4  | 6267.0  | 5593.4  | 5287.1  | 4971.3  |
| 80°   | 1171.0  | 1046.3  | 1116.8  | 1124.9  | 1171.0  | 1195.4  | 1284.8  | 1523.4  | 1550.5  | 1608.8  | 1680.6  |
| 82.5° | 416.1   | 422.9   | 433.7   | 437.8   | 441.8   | 458.1   | 519.1   | 622.1   | 715.6   | 837.6   | 1000.2  |
| 85°   | 235.8   | 239.9   | 249.4   | 257.5   | 262.9   | 279.2   | 313.1   | 374.1   | 466.2   | 605.8   | 821.3   |
| 87.5° | 71.8    | 81.3    | 86.7    | 97.6    | 101.6   | 104.4   | 119.3   | 159.9   | 206.0   | 304.9   | 444.5   |
| 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):**

|       | 106°    | 107°    | 108°    | 109°    | 110°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4  | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 | 4010.4 |
| 2.5°  | 4007.7  | 4006.3  | 4003.6  | 4000.9  | 4002.3  | 3999.6 | 3991.4 | 3988.7 | 3979.2 | 3972.4 | 3967.0 |
| 5°    | 4044.3  | 4042.9  | 4037.5  | 4038.9  | 4037.5  | 4023.9 | 4014.5 | 3998.2 | 3988.7 | 3973.8 | 3968.4 |
| 7.5°  | 4120.2  | 4118.8  | 4109.3  | 4113.4  | 4110.7  | 4090.4 | 4074.1 | 4048.3 | 4034.8 | 4015.8 | 4000.9 |
| 10°   | 4234.0  | 4234.0  | 4223.2  | 4224.5  | 4224.5  | 4197.4 | 4169.0 | 4125.6 | 4094.4 | 4064.6 | 4038.9 |
| 12.5° | 4372.3  | 4366.8  | 4365.5  | 4358.7  | 4353.3  | 4323.5 | 4280.1 | 4221.8 | 4163.5 | 4114.8 | 4079.5 |
| 15°   | 4511.9  | 4503.7  | 4499.7  | 4491.5  | 4484.8  | 4457.7 | 4399.4 | 4327.5 | 4248.9 | 4170.3 | 4112.0 |
| 17.5° | 4602.7  | 4597.2  | 4589.1  | 4586.4  | 4576.9  | 4549.8 | 4509.2 | 4437.3 | 4339.7 | 4230.0 | 4141.9 |
| 20°   | 4636.6  | 4627.1  | 4621.6  | 4616.2  | 4610.8  | 4591.8 | 4591.8 | 4545.7 | 4437.3 | 4282.8 | 4148.6 |
| 22.5° | 4614.9  | 4609.4  | 4601.3  | 4597.2  | 4591.8  | 4594.5 | 4647.4 | 4640.6 | 4515.9 | 4295.0 | 4099.8 |
| 25°   | 4564.7  | 4557.9  | 4551.2  | 4551.2  | 4549.8  | 4578.3 | 4705.7 | 4723.3 | 4539.0 | 4235.4 | 3992.8 |
| 27.5° | 4513.2  | 4503.7  | 4506.4  | 4507.8  | 4514.6  | 4575.6 | 4769.4 | 4745.0 | 4476.6 | 4091.7 | 3808.5 |
| 30°   | 4482.0  | 4482.0  | 4488.8  | 4499.7  | 4513.2  | 4620.3 | 4819.5 | 4696.2 | 4315.3 | 3874.9 | 3564.5 |
| 32.5° | 4495.6  | 4509.2  | 4524.1  | 4551.2  | 4571.5  | 4719.2 | 4837.1 | 4570.1 | 4080.9 | 3606.5 | 3309.7 |
| 35°   | 4616.2  | 4632.5  | 4660.9  | 4703.0  | 4727.4  | 4861.5 | 4837.1 | 4385.8 | 3808.5 | 3376.1 | 3046.8 |
| 37.5° | 4879.2  | 4895.4  | 4929.3  | 4961.8  | 4986.2  | 5040.4 | 4816.8 | 4151.3 | 3580.8 | 3137.6 | 2810.9 |
| 40°   | 5302.0  | 5325.1  | 5349.5  | 5344.0  | 5327.8  | 5274.9 | 4776.2 | 3933.1 | 3370.7 | 2928.8 | 2579.2 |
| 42.5° | 5897.0  | 5875.3  | 5872.6  | 5819.7  | 5765.5  | 5539.2 | 4746.3 | 3790.8 | 3190.4 | 2709.3 | 2348.8 |
| 45°   | 6584.1  | 6496.1  | 6405.2  | 6334.8  | 6252.1  | 5829.2 | 4738.2 | 3675.6 | 2991.2 | 2465.3 | 2098.0 |
| 47.5° | 7275.4  | 7134.4  | 6958.2  | 6848.4  | 6714.3  | 6138.2 | 4762.6 | 3521.1 | 2735.0 | 2199.7 | 1863.6 |
| 50°   | 7953.0  | 7722.6  | 7504.4  | 7372.9  | 7221.2  | 6493.3 | 4801.9 | 3260.9 | 2428.7 | 1958.4 | 1649.4 |
| 52.5° | 8580.5  | 8283.7  | 8060.1  | 7905.6  | 7719.9  | 6906.7 | 4766.7 | 2919.4 | 2163.1 | 1726.7 | 1446.1 |
| 55°   | 9176.9  | 8848.9  | 8617.1  | 8454.5  | 8236.3  | 7321.4 | 4511.9 | 2609.0 | 1909.6 | 1500.3 | 1217.1 |
| 57.5° | 9698.7  | 9384.2  | 9143.0  | 8922.1  | 8737.8  | 7682.0 | 4009.0 | 2352.8 | 1665.7 | 1241.5 | 969.1  |
| 60°   | 10308.6 | 9954.8  | 9668.9  | 9433.0  | 9216.2  | 7867.6 | 3445.2 | 2125.1 | 1405.5 | 960.9  | 700.7  |
| 62.5° | 11131.3 | 10724.7 | 10394.0 | 10124.2 | 9841.0  | 7908.3 | 3060.3 | 1897.4 | 1115.4 | 695.3  | 509.6  |
| 65°   | 12351.0 | 11849.6 | 11436.2 | 11064.8 | 10681.3 | 7740.2 | 2870.6 | 1649.4 | 829.5  | 516.4  | 426.9  |
| 67.5° | 13320.1 | 12799.7 | 12321.2 | 11844.2 | 11353.5 | 7428.5 | 2828.6 | 1420.4 | 637.0  | 439.1  | 383.6  |
| 69°   | 13202.2 | 12706.1 | 12267.0 | 11750.6 | 11207.1 | 7036.8 | 2786.5 | 1332.3 | 581.4  | 408.0  | 363.2  |
| 70°   | 12748.1 | 12277.9 | 11832.0 | 11411.8 | 10746.3 | 6600.4 | 2675.4 | 1283.5 | 559.7  | 393.0  | 348.3  |
| 72.5° | 10772.1 | 10227.3 | 9794.9  | 9271.8  | 8571.0  | 4904.9 | 2028.9 | 1038.2 | 513.7  | 359.2  | 314.4  |
| 75°   | 7856.8  | 7405.5  | 6974.5  | 6395.8  | 5714.0  | 2838.0 | 1263.2 | 593.6  | 376.8  | 325.3  | 284.6  |
| 77.5° | 4587.8  | 4486.1  | 4070.0  | 3689.2  | 3014.2  | 1444.8 | 725.1  | 355.1  | 292.7  | 295.5  | 250.7  |
| 80°   | 1726.7  | 1839.2  | 1881.2  | 1749.7  | 1616.9  | 997.5  | 527.2  | 288.7  | 254.8  | 291.4  | 212.8  |
| 82.5° | 1259.1  | 1461.0  | 1485.4  | 1423.1  | 1324.1  | 929.8  | 421.5  | 231.8  | 207.4  | 313.1  | 183.0  |
| 85°   | 1050.4  | 1162.9  | 1180.5  | 1115.4  | 1082.9  | 787.4  | 294.1  | 162.6  | 151.8  | 225.0  | 136.9  |
| 87.5° | 531.3   | 559.7   | 574.7   | 520.4   | 523.2   | 367.3  | 117.9  | 69.1   | 82.7   | 96.2   | 75.9   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 175°   | 180°   |
|-------|--------|--------|
| 0°    | 4010.4 | 4010.4 |
| 2.5°  | 3954.8 | 3963.0 |
| 5°    | 3960.2 | 3960.2 |
| 7.5°  | 3991.4 | 3991.4 |
| 10°   | 4025.3 | 4026.7 |
| 12.5° | 4056.5 | 4055.1 |
| 15°   | 4080.9 | 4076.8 |
| 17.5° | 4095.8 | 4091.7 |
| 20°   | 4080.9 | 4074.1 |
| 22.5° | 4005.0 | 3986.0 |
| 25°   | 3866.7 | 3842.3 |
| 27.5° | 3683.8 | 3667.5 |
| 30°   | 3445.2 | 3420.8 |
| 32.5° | 3166.0 | 3153.8 |
| 35°   | 2899.0 | 2884.1 |
| 37.5° | 2655.1 | 2651.0 |
| 40°   | 2449.1 | 2427.4 |
| 42.5° | 2207.8 | 2198.3 |
| 45°   | 1962.5 | 1957.1 |
| 47.5° | 1732.1 | 1726.7 |
| 50°   | 1519.3 | 1508.5 |
| 52.5° | 1310.6 | 1293.0 |
| 55°   | 1078.8 | 1066.6 |
| 57.5° | 828.1  | 817.3  |
| 60°   | 582.8  | 570.6  |
| 62.5° | 414.7  | 401.2  |
| 65°   | 345.6  | 334.8  |
| 67.5° | 313.1  | 300.9  |
| 69°   | 298.2  | 287.3  |
| 70°   | 288.7  | 280.6  |
| 72.5° | 268.4  | 262.9  |
| 75°   | 245.3  | 241.2  |
| 77.5° | 215.5  | 208.7  |
| 80°   | 180.3  | 173.5  |
| 82.5° | 151.8  | 145.0  |
| 85°   | 101.6  | 92.2   |
| 87.5° | 46.1   | 40.7   |
| 90°   | 0.0    | 0.0    |

(END OF REPORT)