

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: P165062

Luminaire Tested: **VST-F06-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P165062  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-F06-LED-E-U-SL2-HSS  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8973.4 lumens  
Efficiency: N/A  
Efficacy: 57.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 156.5  
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

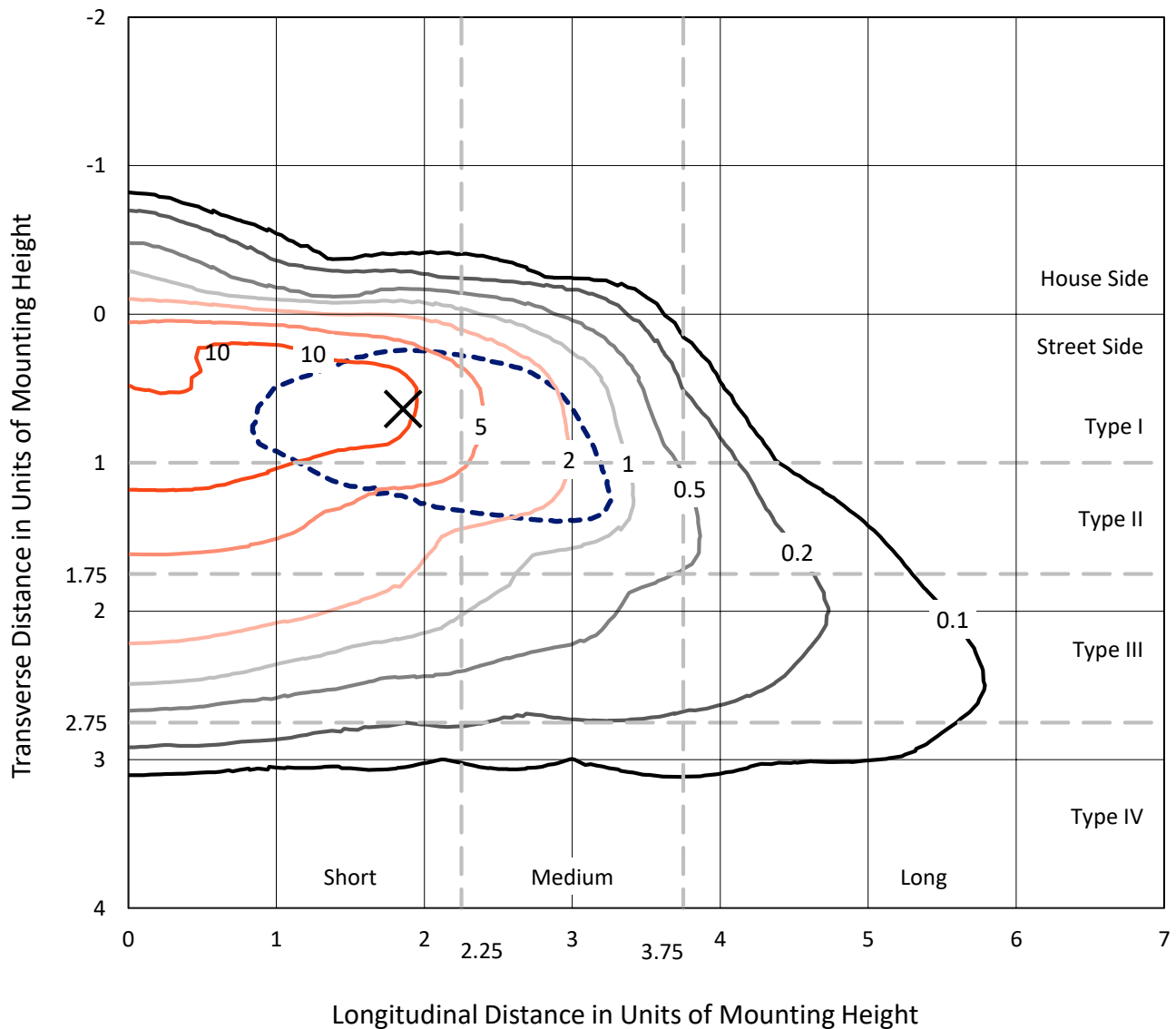


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

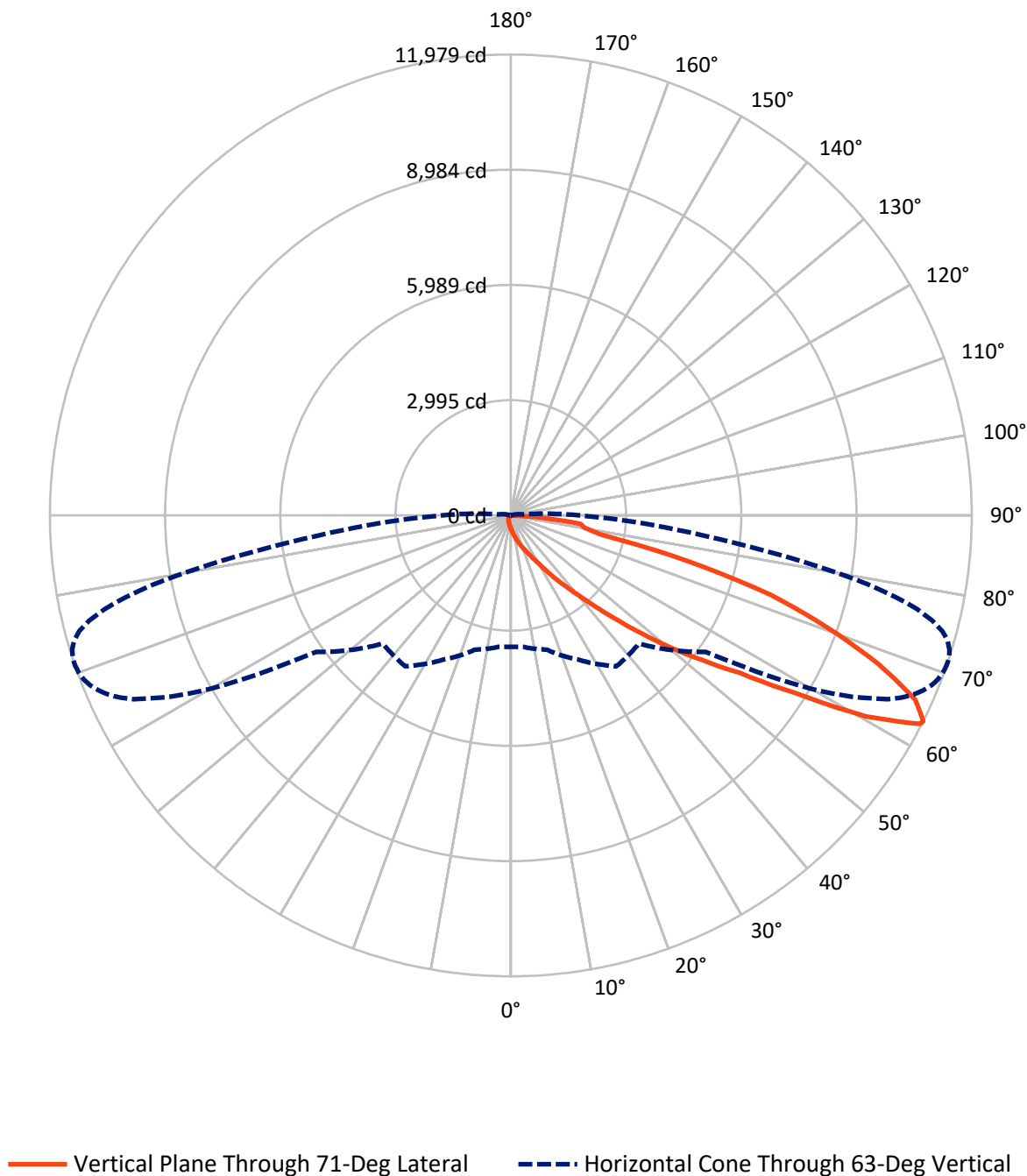


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc  
Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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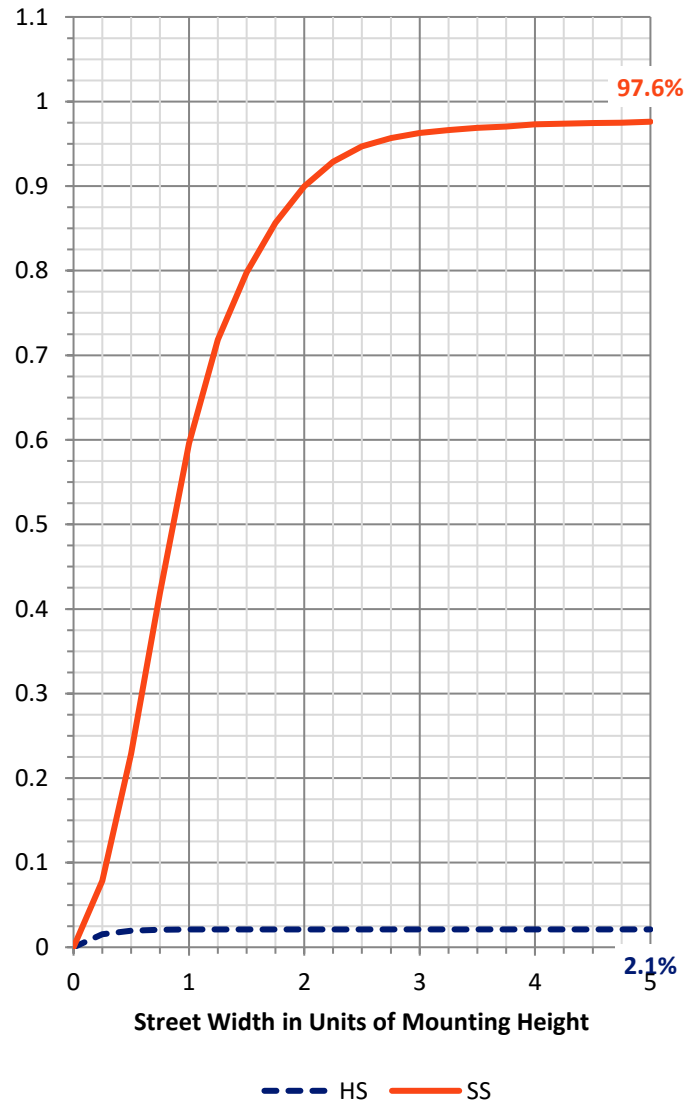
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 190.5    | 0.0    | 190.5  |
|                    | % Fixture | 2.1      | 0.0    | 2.1    |
| <b>Street Side</b> | Lumens    | 8782.9   | 0.0    | 8782.9 |
|                    | % Fixture | 97.9     | 0.0    | 97.9   |
| <b>Total</b>       | Lumens    | 8973.4   | 0.0    | 8973.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.0   | 0.4       |
| 10°-20°   | 147.5  | 1.6       |
| 20°-30°   | 299.7  | 3.3       |
| 30°-40°   | 732.2  | 8.2       |
| 40°-50°   | 1637.5 | 18.2      |
| 50°-60°   | 2302.5 | 25.7      |
| 60°-70°   | 2707.6 | 30.2      |
| 70°-80°   | 977.7  | 10.9      |
| 80°-90°   | 130.7  | 1.5       |
| 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°    | 8973.4 | 100.0     |
| 0°-180°   | 8973.4 | 100.0     |

**Coefficient of Utilization**



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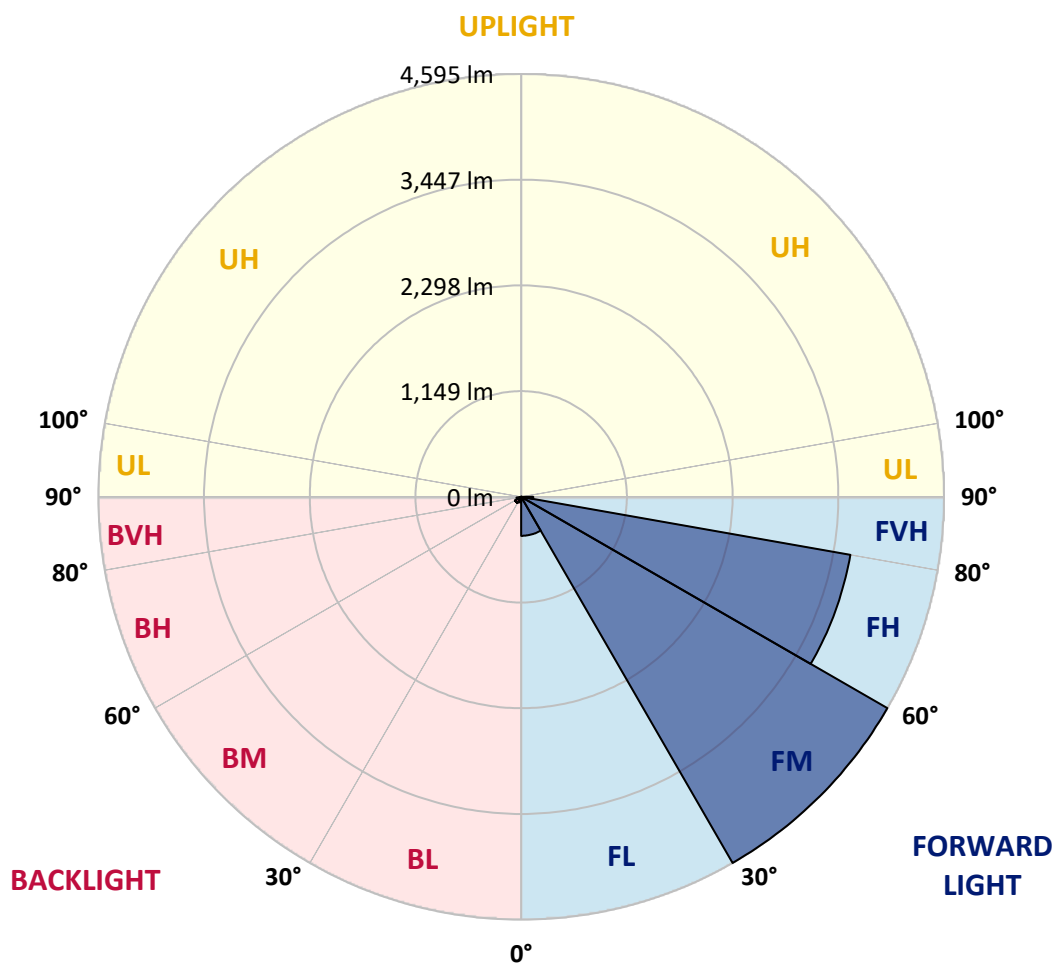
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 424.0  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 4595.4 | 51.2      |                         |      |         |
| FH   | (60°-80°)   | 3633.0 | 40.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 130.5  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 61.3   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 76.8   | 0.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 52.2   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  |
| 2.5°  | 450.2  | 455.1  | 451.8  | 443.7  | 433.9  | 420.9  | 409.4  | 409.4  | 407.8  | 402.9  | 404.6  |
| 5°    | 590.5  | 592.2  | 585.7  | 566.0  | 548.1  | 520.4  | 489.4  | 486.1  | 482.8  | 478.0  | 476.4  |
| 7.5°  | 727.6  | 734.1  | 727.6  | 706.3  | 670.5  | 628.1  | 579.1  | 574.3  | 564.5  | 564.5  | 557.9  |
| 10°   | 867.9  | 867.9  | 861.4  | 836.9  | 804.2  | 743.9  | 681.9  | 673.7  | 662.3  | 659.1  | 649.3  |
| 12.5° | 967.4  | 967.4  | 964.1  | 951.1  | 925.0  | 871.2  | 796.1  | 787.9  | 773.3  | 768.3  | 756.9  |
| 15°   | 1006.5 | 1006.5 | 1008.2 | 1019.6 | 1021.2 | 996.8  | 918.4  | 911.9  | 897.2  | 884.1  | 879.3  |
| 17.5° | 1030.9 | 1029.4 | 1029.4 | 1045.7 | 1075.0 | 1091.4 | 1040.8 | 1034.2 | 1018.0 | 1011.4 | 995.1  |
| 20°   | 1084.8 | 1081.6 | 1071.8 | 1071.8 | 1099.5 | 1156.6 | 1156.6 | 1155.0 | 1137.0 | 1132.1 | 1124.0 |
| 22.5° | 1164.8 | 1161.5 | 1132.1 | 1107.6 | 1120.7 | 1192.5 | 1259.4 | 1256.1 | 1249.6 | 1243.0 | 1238.2 |
| 25°   | 1295.2 | 1283.9 | 1233.2 | 1161.5 | 1150.1 | 1226.8 | 1337.6 | 1345.9 | 1350.7 | 1350.7 | 1354.0 |
| 27.5° | 1492.7 | 1478.0 | 1388.3 | 1254.5 | 1203.9 | 1282.2 | 1424.1 | 1440.5 | 1455.1 | 1458.4 | 1473.1 |
| 30°   | 1766.7 | 1740.6 | 1611.8 | 1416.0 | 1300.2 | 1363.8 | 1551.4 | 1569.4 | 1590.6 | 1597.1 | 1619.9 |
| 32.5° | 2216.9 | 2202.3 | 2078.3 | 1784.6 | 1536.7 | 1523.7 | 1729.2 | 1752.0 | 1779.8 | 1791.2 | 1818.9 |
| 35°   | 2902.1 | 2905.4 | 2804.3 | 2540.0 | 2197.4 | 2017.9 | 2047.3 | 2066.9 | 2076.7 | 2110.9 | 2125.6 |
| 37.5° | 3367.1 | 3375.2 | 3398.1 | 3293.6 | 3049.0 | 2866.2 | 2636.2 | 2657.5 | 2606.8 | 2611.7 | 2613.4 |
| 40°   | 3621.5 | 3647.6 | 3781.4 | 3882.6 | 3863.0 | 3757.0 | 3572.6 | 3584.0 | 3489.4 | 3468.2 | 3365.4 |
| 42.5° | 3791.1 | 3825.4 | 4039.2 | 4352.3 | 4512.2 | 4608.5 | 4566.1 | 4561.2 | 4487.8 | 4460.0 | 4373.5 |
| 45°   | 3897.2 | 3928.2 | 4197.4 | 4659.0 | 5027.7 | 5308.3 | 5424.1 | 5437.2 | 5375.2 | 5347.4 | 5275.7 |
| 47.5° | 3892.3 | 3928.2 | 4216.9 | 4773.3 | 5316.5 | 5765.1 | 6091.4 | 6107.6 | 6145.2 | 6120.7 | 6125.6 |
| 50°   | 3677.0 | 3711.3 | 4001.6 | 4579.1 | 5231.6 | 5973.9 | 6570.9 | 6623.2 | 6683.5 | 6724.3 | 6743.9 |
| 52.5° | 3416.0 | 3440.5 | 3698.2 | 4246.3 | 4869.4 | 5887.4 | 6854.8 | 6944.5 | 7034.3 | 7110.9 | 7164.7 |
| 55°   | 3319.7 | 3347.4 | 3549.7 | 4004.9 | 4579.1 | 5525.2 | 6986.9 | 7119.1 | 7246.4 | 7372.0 | 7474.7 |
| 57.5° | 3370.3 | 3396.4 | 3541.6 | 3890.7 | 4406.2 | 5143.5 | 7024.5 | 7230.0 | 7438.8 | 7642.7 | 7845.0 |
| 60°   | 3556.3 | 3584.0 | 3708.0 | 3996.7 | 4360.6 | 4923.3 | 6877.6 | 7218.6 | 7566.0 | 7921.7 | 8256.1 |
| 62.5° | 3482.9 | 3494.2 | 3677.0 | 4182.7 | 4686.8 | 4735.7 | 6344.2 | 6820.6 | 7350.8 | 7898.9 | 8438.8 |
| 63°   | 3412.7 | 3425.8 | 3611.7 | 4132.1 | 4786.3 | 4708.0 | 6179.5 | 6681.9 | 7241.4 | 7831.9 | 8419.3 |
| 65°   | 3094.6 | 3096.2 | 3238.2 | 3649.3 | 4675.4 | 4756.9 | 5445.4 | 5925.0 | 6567.7 | 7275.7 | 8018.0 |
| 67.5° | 2310.0 | 2298.6 | 2435.6 | 2748.8 | 3670.5 | 4758.6 | 4673.7 | 4942.9 | 5389.9 | 6018.0 | 6683.5 |
| 70°   | 819.0  | 801.0  | 1022.8 | 1456.7 | 2287.1 | 3892.3 | 4016.3 | 4034.2 | 4158.3 | 4497.6 | 4915.2 |
| 72.5° | 265.9  | 270.8  | 326.2  | 533.5  | 1053.8 | 2619.9 | 3636.2 | 3580.7 | 3548.1 | 3546.5 | 3601.9 |
| 75°   | 106.0  | 107.7  | 130.5  | 236.6  | 473.1  | 1262.7 | 3184.4 | 3215.3 | 3226.8 | 3243.0 | 3261.1 |
| 77.5° | 50.5   | 55.5   | 73.4   | 132.2  | 234.9  | 624.8  | 2278.9 | 2541.6 | 2691.6 | 2807.5 | 2877.7 |
| 80°   | 17.9   | 21.2   | 40.8   | 81.5   | 109.3  | 287.1  | 1200.6 | 1448.6 | 1668.8 | 1952.7 | 2197.4 |
| 82.5° | 0.0    | 0.0    | 8.1    | 57.1   | 60.3   | 115.8  | 492.6  | 577.4  | 660.7  | 856.4  | 1099.5 |
| 85°   | 0.0    | 0.0    | 0.0    | 16.3   | 17.9   | 19.6   | 166.4  | 200.7  | 225.2  | 262.6  | 303.4  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 4.9    | 9.8    | 24.5   | 37.5   |
| 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):**

|       | 60°    | 61°    | 62°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     | 71°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 344.2  | 344.2  | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   |
| 2.5°  | 401.3  | 399.7  | 399.7   | 396.5   | 394.8   | 391.5   | 389.9   | 385.0   | 383.4   | 383.4   | 383.4   |
| 5°    | 474.7  | 468.2  | 464.9   | 456.8   | 451.8   | 450.2   | 442.1   | 438.8   | 433.9   | 435.6   | 427.4   |
| 7.5°  | 556.2  | 544.8  | 540.0   | 528.5   | 525.3   | 513.8   | 510.6   | 502.4   | 497.6   | 487.8   | 484.5   |
| 10°   | 646.0  | 631.3  | 623.2   | 605.2   | 600.3   | 592.2   | 582.4   | 572.6   | 564.5   | 554.7   | 549.8   |
| 12.5° | 748.8  | 735.7  | 729.2   | 704.7   | 693.3   | 681.9   | 668.9   | 655.8   | 642.7   | 634.6   | 623.2   |
| 15°   | 869.5  | 848.3  | 841.7   | 819.0   | 799.3   | 784.7   | 766.7   | 750.4   | 740.6   | 724.3   | 712.9   |
| 17.5° | 988.5  | 967.4  | 962.5   | 928.2   | 907.0   | 897.2   | 877.7   | 856.4   | 838.5   | 822.2   | 804.2   |
| 20°   | 1107.6 | 1093.0 | 1079.9  | 1047.3  | 1024.5  | 1008.2  | 982.0   | 960.8   | 946.2   | 923.4   | 900.5   |
| 22.5° | 1226.8 | 1212.0 | 1202.3  | 1168.1  | 1146.9  | 1124.0  | 1101.2  | 1078.3  | 1057.1  | 1029.4  | 1003.3  |
| 25°   | 1349.1 | 1339.3 | 1334.4  | 1303.5  | 1283.9  | 1262.7  | 1239.8  | 1213.7  | 1187.6  | 1156.6  | 1128.9  |
| 27.5° | 1476.3 | 1479.6 | 1469.8  | 1463.3  | 1442.1  | 1427.4  | 1391.5  | 1373.6  | 1354.0  | 1316.4  | 1282.2  |
| 30°   | 1637.8 | 1647.6 | 1644.3  | 1649.3  | 1636.2  | 1626.4  | 1598.7  | 1575.9  | 1553.0  | 1517.1  | 1478.0  |
| 32.5° | 1841.8 | 1854.9 | 1861.3  | 1879.3  | 1872.8  | 1869.5  | 1861.3  | 1828.7  | 1812.4  | 1750.4  | 1734.1  |
| 35°   | 2156.6 | 2150.1 | 2177.8  | 2192.5  | 2185.9  | 2182.8  | 2172.9  | 2155.0  | 2135.4  | 2091.3  | 2050.6  |
| 37.5° | 2566.0 | 2572.6 | 2582.4  | 2553.1  | 2533.4  | 2531.9  | 2502.4  | 2484.5  | 2456.8  | 2407.8  | 2358.9  |
| 40°   | 3316.4 | 3275.7 | 3230.0  | 3106.0  | 3052.2  | 3021.2  | 2934.7  | 2910.3  | 2862.9  | 2796.1  | 2745.5  |
| 42.5° | 4292.0 | 4251.2 | 4114.2  | 3907.0  | 3796.1  | 3642.7  | 3572.6  | 3486.1  | 3419.3  | 3310.0  | 3251.2  |
| 45°   | 5261.0 | 5143.5 | 5127.2  | 4885.8  | 4748.8  | 4546.5  | 4420.9  | 4275.7  | 4124.0  | 3980.5  | 3876.0  |
| 47.5° | 6078.3 | 6052.2 | 5972.3  | 5825.4  | 5698.2  | 5528.5  | 5367.0  | 5143.5  | 4986.9  | 4783.1  | 4595.4  |
| 50°   | 6732.4 | 6730.8 | 6701.4  | 6616.6  | 6510.6  | 6373.6  | 6231.7  | 6042.4  | 5864.6  | 5615.0  | 5414.4  |
| 52.5° | 7221.9 | 7247.9 | 7257.8  | 7231.6  | 7190.9  | 7070.1  | 6998.4  | 6840.1  | 6690.0  | 6477.9  | 6261.0  |
| 55°   | 7580.7 | 7677.0 | 7725.9  | 7781.4  | 7770.0  | 7727.6  | 7724.3  | 7621.5  | 7553.1  | 7384.9  | 7231.6  |
| 57.5° | 8024.5 | 8182.7 | 8334.4  | 8603.6  | 8613.3  | 8708.0  | 8757.0  | 8805.9  | 8818.9  | 8752.0  | 8701.5  |
| 60°   | 8588.9 | 8911.9 | 9199.0  | 9761.9  | 9908.7  | 10140.3 | 10290.4 | 10453.5 | 10592.1 | 10603.6 | 10600.3 |
| 62.5° | 8986.9 | 9484.5 | 9947.8  | 10783.0 | 11068.5 | 11336.1 | 11536.7 | 11695.0 | 11791.2 | 11889.0 | 11934.7 |
| 63°   | 8998.4 | 9543.2 | 10035.9 | 10897.2 | 11197.4 | 11451.9 | 11642.8 | 11789.6 | 11890.7 | 11949.4 | 11978.8 |
| 65°   | 8722.7 | 9383.3 | 9970.6  | 10828.7 | 11110.9 | 11367.1 | 11466.5 | 11562.8 | 11611.8 | 11634.6 | 11548.1 |
| 67.5° | 7393.2 | 8039.2 | 8724.3  | 9683.5  | 9924.9  | 10231.6 | 10313.2 | 10362.2 | 10385.0 | 10380.1 | 10306.7 |
| 70°   | 5528.5 | 6070.2 | 6832.0  | 7928.2  | 8248.0  | 8548.1  | 8734.1  | 8814.0  | 8840.1  | 8832.0  | 8722.7  |
| 72.5° | 3859.7 | 4177.8 | 4805.8  | 6026.1  | 6461.7  | 6846.6  | 7076.7  | 7195.7  | 7220.2  | 7171.3  | 7070.1  |
| 75°   | 3241.4 | 3257.8 | 3399.6  | 4066.8  | 4474.7  | 4885.8  | 5145.1  | 5220.2  | 5171.3  | 5022.8  | 4765.1  |
| 77.5° | 2893.9 | 2929.9 | 2929.9  | 3029.3  | 3109.3  | 3223.5  | 3248.0  | 3065.2  | 2853.2  | 2579.1  | 2357.3  |
| 80°   | 2427.4 | 2553.1 | 2641.1  | 2714.5  | 2722.6  | 2699.9  | 2639.4  | 2536.7  | 2373.5  | 2164.7  | 1933.1  |
| 82.5° | 1474.8 | 1722.7 | 1823.8  | 2202.3  | 2388.2  | 2513.8  | 2504.1  | 2367.0  | 2243.1  | 2026.1  | 1828.7  |
| 85°   | 372.0  | 401.3  | 435.6   | 566.0   | 634.6   | 774.9   | 862.9   | 903.8   | 918.4   | 843.4   | 763.5   |
| 87.5° | 35.9   | 24.5   | 40.8    | 31.0    | 44.1    | 32.6    | 44.1    | 40.8    | 50.5    | 53.8    | 58.7    |
| 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):**

|       | 72°     | 73°     | 74°     | 75°     | 76°     | 77°     | 78°     | 79°    | 80°    | 81°    | 82°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   | 344.2   | 344.2  | 344.2  | 344.2  | 344.2  |
| 2.5°  | 380.1   | 378.4   | 376.8   | 375.3   | 373.6   | 372.0   | 368.7   | 368.7  | 365.4  | 363.8  | 362.2  |
| 5°    | 422.5   | 419.2   | 417.6   | 414.4   | 409.4   | 406.2   | 401.3   | 394.8  | 389.9  | 388.2  | 385.0  |
| 7.5°  | 476.4   | 468.2   | 464.9   | 460.0   | 453.5   | 443.7   | 437.2   | 432.3  | 424.2  | 419.2  | 409.4  |
| 10°   | 536.7   | 528.5   | 518.8   | 509.0   | 499.2   | 487.8   | 479.6   | 473.1  | 460.0  | 453.5  | 442.1  |
| 12.5° | 613.4   | 598.7   | 587.2   | 574.3   | 561.2   | 548.1   | 538.3   | 518.8  | 507.3  | 492.6  | 482.8  |
| 15°   | 691.7   | 678.6   | 665.6   | 649.3   | 629.6   | 608.4   | 598.7   | 580.7  | 566.0  | 543.3  | 530.2  |
| 17.5° | 786.3   | 761.8   | 742.3   | 722.7   | 704.7   | 685.1   | 665.6   | 637.9  | 616.7  | 597.1  | 571.0  |
| 20°   | 879.3   | 850.0   | 828.7   | 802.6   | 776.6   | 745.5   | 722.7   | 703.1  | 673.7  | 647.7  | 619.9  |
| 22.5° | 978.7   | 949.4   | 915.1   | 889.1   | 853.2   | 828.7   | 797.8   | 765.1  | 735.7  | 701.5  | 667.2  |
| 25°   | 1099.5  | 1068.5  | 1029.4  | 995.1   | 954.3   | 920.1   | 882.6   | 845.0  | 809.1  | 770.0  | 725.9  |
| 27.5° | 1248.0  | 1215.3  | 1172.9  | 1132.1  | 1078.3  | 1035.9  | 1000.0  | 949.4  | 903.8  | 854.8  | 804.2  |
| 30°   | 1435.5  | 1399.7  | 1347.5  | 1288.7  | 1234.9  | 1187.6  | 1137.0  | 1070.2 | 1019.6 | 960.8  | 895.6  |
| 32.5° | 1680.3  | 1637.8  | 1567.7  | 1512.2  | 1445.3  | 1383.3  | 1313.2  | 1246.3 | 1174.6 | 1097.9 | 1022.8 |
| 35°   | 1988.6  | 1949.5  | 1867.8  | 1786.3  | 1712.9  | 1639.5  | 1551.4  | 1474.8 | 1373.6 | 1280.6 | 1184.3 |
| 37.5° | 2308.4  | 2238.1  | 2163.1  | 2075.1  | 1983.6  | 1895.6  | 1787.9  | 1681.9 | 1566.1 | 1464.9 | 1344.2 |
| 40°   | 2673.7  | 2588.9  | 2526.9  | 2432.3  | 2303.4  | 2177.8  | 2078.3  | 1946.2 | 1801.0 | 1665.5 | 1523.7 |
| 42.5° | 3174.6  | 3080.0  | 2969.0  | 2825.5  | 2732.5  | 2585.6  | 2456.8  | 2300.1 | 2109.2 | 1957.6 | 1786.3 |
| 45°   | 3753.7  | 3624.8  | 3517.1  | 3378.4  | 3265.9  | 3083.2  | 2933.2  | 2724.3 | 2533.4 | 2334.4 | 2125.6 |
| 47.5° | 4414.3  | 4254.5  | 4097.8  | 3960.8  | 3781.4  | 3601.9  | 3411.1  | 3189.2 | 2944.5 | 2725.9 | 2478.0 |
| 50°   | 5172.9  | 4946.1  | 4729.2  | 4553.0  | 4306.7  | 4099.5  | 3892.3  | 3642.7 | 3371.9 | 3120.7 | 2838.5 |
| 52.5° | 6016.3  | 5753.7  | 5466.6  | 5195.8  | 4910.3  | 4644.4  | 4394.7  | 4107.6 | 3805.9 | 3499.2 | 3184.4 |
| 55°   | 7034.3  | 6836.8  | 6499.2  | 6155.0  | 5773.2  | 5417.7  | 5096.2  | 4740.7 | 4373.5 | 3970.6 | 3639.5 |
| 57.5° | 8628.1  | 8531.8  | 8249.6  | 7905.4  | 7407.8  | 6975.5  | 6430.7  | 5995.1 | 5463.3 | 4908.7 | 4481.2 |
| 60°   | 10788.0 | 10668.8 | 10510.6 | 10231.6 | 9836.9  | 9249.6  | 8649.3  | 7972.3 | 7163.1 | 6394.8 | 5665.6 |
| 62.5° | 11939.7 | 11897.2 | 11768.4 | 11575.8 | 11207.2 | 10743.9 | 10138.7 | 9394.7 | 8481.3 | 7548.1 | 6618.3 |
| 63°   | 11973.8 | 11920.1 | 11809.1 | 11613.4 | 11288.7 | 10840.2 | 10246.3 | 9523.6 | 8629.7 | 7678.7 | 6729.2 |
| 65°   | 11510.6 | 11489.4 | 11376.8 | 11163.1 | 10941.3 | 10598.7 | 10138.7 | 9517.1 | 8766.7 | 7867.9 | 6923.3 |
| 67.5° | 10208.8 | 10145.1 | 9972.3  | 9907.0  | 9752.1  | 9513.8  | 9163.1  | 8735.7 | 8199.0 | 7492.6 | 6676.9 |
| 70°   | 8634.5  | 8539.9  | 8323.0  | 8207.2  | 8018.0  | 7867.9  | 7654.2  | 7349.1 | 7017.9 | 6525.3 | 5916.8 |
| 72.5° | 6965.7  | 6770.0  | 6570.9  | 6269.2  | 6004.9  | 5737.3  | 5500.8  | 5285.5 | 4921.6 | 4722.6 | 4261.0 |
| 75°   | 4523.6  | 4168.0  | 3827.1  | 3370.3  | 2959.2  | 2595.5  | 2241.4  | 2062.0 | 1688.4 | 1536.7 | 1319.7 |
| 77.5° | 2146.8  | 1947.8  | 1680.3  | 1473.1  | 1208.8  | 987.0   | 805.9   | 605.2  | 474.7  | 372.0  | 283.8  |
| 80°   | 1732.4  | 1564.4  | 1402.9  | 1215.3  | 1016.3  | 810.7   | 621.5   | 464.9  | 329.5  | 228.3  | 161.5  |
| 82.5° | 1544.9  | 1362.1  | 1163.1  | 1034.2  | 898.9   | 735.7   | 603.6   | 492.6  | 363.8  | 265.9  | 181.1  |
| 85°   | 600.3   | 505.7   | 389.9   | 318.1   | 248.0   | 203.9   | 184.4   | 127.2  | 99.6   | 78.3   | 60.3   |
| 87.5° | 52.2    | 42.4    | 34.3    | 22.9    | 24.5    | 13.1    | 14.7    | 9.8    | 8.1    | 8.1    | 6.5    |
| 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):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°   | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2  | 344.2 | 344.2 | 344.2 |
| 2.5°  | 360.5  | 358.9  | 357.2  | 354.0  | 354.0  | 350.8  | 349.1  | 347.5  | 339.3 | 321.4 | 306.7 |
| 5°    | 378.4  | 375.3  | 372.0  | 367.0  | 363.8  | 358.9  | 355.6  | 350.8  | 332.8 | 298.6 | 269.2 |
| 7.5°  | 404.6  | 398.0  | 393.2  | 383.4  | 378.4  | 372.0  | 367.0  | 358.9  | 329.5 | 277.3 | 236.6 |
| 10°   | 435.6  | 424.2  | 416.0  | 404.6  | 394.8  | 386.6  | 378.4  | 367.0  | 326.2 | 254.5 | 207.1 |
| 12.5° | 473.1  | 460.0  | 443.7  | 430.6  | 417.6  | 406.2  | 394.8  | 380.1  | 321.4 | 234.9 | 184.4 |
| 15°   | 510.6  | 491.1  | 479.6  | 461.6  | 443.7  | 427.4  | 411.1  | 398.0  | 323.0 | 213.7 | 164.7 |
| 17.5° | 553.0  | 533.5  | 509.0  | 489.4  | 469.9  | 448.7  | 429.0  | 402.9  | 314.8 | 197.4 | 150.1 |
| 20°   | 593.8  | 566.0  | 543.3  | 518.8  | 491.1  | 464.9  | 440.4  | 417.6  | 308.3 | 181.1 | 137.0 |
| 22.5° | 637.9  | 605.2  | 575.9  | 544.8  | 510.6  | 481.2  | 451.8  | 422.5  | 296.9 | 166.4 | 125.6 |
| 25°   | 691.7  | 654.1  | 611.7  | 574.3  | 538.3  | 502.4  | 464.9  | 429.0  | 285.5 | 153.3 | 117.5 |
| 27.5° | 756.9  | 708.0  | 665.6  | 618.3  | 567.7  | 522.1  | 481.2  | 442.1  | 274.1 | 143.5 | 109.3 |
| 30°   | 840.2  | 783.0  | 722.7  | 662.3  | 608.4  | 556.2  | 499.2  | 450.2  | 262.6 | 133.7 | 101.1 |
| 32.5° | 951.1  | 879.3  | 805.9  | 735.7  | 663.9  | 597.1  | 536.7  | 473.1  | 256.1 | 125.6 | 93.0  |
| 35°   | 1097.9 | 1004.9 | 915.1  | 827.1  | 740.6  | 659.1  | 580.7  | 509.0  | 256.1 | 115.8 | 83.2  |
| 37.5° | 1236.5 | 1128.9 | 1014.7 | 905.3  | 802.6  | 708.0  | 615.0  | 528.5  | 243.1 | 107.7 | 75.1  |
| 40°   | 1386.6 | 1257.7 | 1124.0 | 995.1  | 871.2  | 753.7  | 647.7  | 548.1  | 231.6 | 97.9  | 66.9  |
| 42.5° | 1616.6 | 1453.6 | 1279.0 | 1128.9 | 980.4  | 835.2  | 703.1  | 585.7  | 216.9 | 88.1  | 58.7  |
| 45°   | 1918.5 | 1711.2 | 1505.8 | 1323.0 | 1133.8 | 956.0  | 799.3  | 654.1  | 213.7 | 79.9  | 50.5  |
| 47.5° | 2241.4 | 1996.7 | 1755.3 | 1522.0 | 1300.2 | 1093.0 | 905.3  | 730.8  | 213.7 | 71.8  | 44.1  |
| 50°   | 2562.8 | 2256.2 | 1998.4 | 1727.6 | 1478.0 | 1233.2 | 1009.7 | 810.7  | 215.4 | 65.3  | 35.9  |
| 52.5° | 2853.2 | 2525.3 | 2236.5 | 1923.3 | 1647.6 | 1363.8 | 1120.7 | 889.1  | 212.1 | 57.1  | 29.3  |
| 55°   | 3256.1 | 2871.1 | 2536.7 | 2190.9 | 1867.8 | 1548.2 | 1272.5 | 1006.5 | 213.7 | 50.5  | 24.5  |
| 57.5° | 3998.4 | 3546.5 | 3143.6 | 2690.1 | 2318.1 | 1905.4 | 1570.9 | 1248.0 | 233.3 | 42.4  | 17.9  |
| 60°   | 5063.6 | 4476.4 | 3910.3 | 3357.2 | 2884.2 | 2393.2 | 1959.2 | 1579.2 | 274.1 | 34.3  | 13.1  |
| 62.5° | 5779.7 | 5011.4 | 4336.1 | 3726.0 | 3176.2 | 2662.3 | 2189.2 | 1756.9 | 301.7 | 27.7  | 8.1   |
| 63°   | 5853.1 | 5058.8 | 4380.1 | 3750.4 | 3189.2 | 2675.4 | 2199.0 | 1770.0 | 303.4 | 26.1  | 8.1   |
| 65°   | 5991.8 | 5140.3 | 4404.5 | 3755.3 | 3176.2 | 2657.5 | 2192.5 | 1768.4 | 306.7 | 21.2  | 6.5   |
| 67.5° | 5833.6 | 5014.7 | 4262.7 | 3615.0 | 3061.9 | 2551.4 | 2110.9 | 1703.1 | 305.0 | 14.7  | 4.9   |
| 70°   | 5217.0 | 4538.4 | 3877.6 | 3274.0 | 2771.6 | 2310.0 | 1921.7 | 1553.0 | 280.5 | 9.8   | 3.3   |
| 72.5° | 3830.4 | 3368.6 | 2856.5 | 2420.9 | 2088.0 | 1734.1 | 1479.6 | 1166.4 | 216.9 | 6.5   | 1.6   |
| 75°   | 1135.4 | 1034.2 | 869.5  | 766.7  | 677.0  | 559.5  | 497.6  | 388.2  | 111.0 | 3.3   | 0.0   |
| 77.5° | 226.8  | 205.6  | 184.4  | 168.0  | 158.2  | 135.4  | 128.9  | 106.0  | 45.7  | 1.6   | 0.0   |
| 80°   | 119.1  | 97.9   | 83.2   | 73.4   | 63.6   | 52.2   | 44.1   | 35.9   | 8.1   | 0.0   | 0.0   |
| 82.5° | 114.2  | 76.7   | 55.5   | 45.7   | 39.1   | 31.0   | 24.5   | 17.9   | 4.9   | 0.0   | 0.0   |
| 85°   | 42.4   | 32.6   | 24.5   | 19.6   | 16.3   | 14.7   | 11.4   | 9.8    | 0.0   | 0.0   | 0.0   |
| 87.5° | 6.5    | 4.9    | 4.9    | 3.3    | 3.3    | 1.6    | 1.6    | 1.6    | 0.0   | 0.0   | 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):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 344.2 | 344.2 | 344.2 | 344.2 | 344.2 | 344.2 | 344.2 |
| 2.5°  | 292.0 | 279.0 | 272.4 | 264.3 | 264.3 | 262.6 | 265.9 |
| 5°    | 243.1 | 225.2 | 212.1 | 202.3 | 203.9 | 199.0 | 200.7 |
| 7.5°  | 205.6 | 187.6 | 176.1 | 169.7 | 168.0 | 166.4 | 166.4 |
| 10°   | 177.8 | 161.5 | 151.7 | 146.8 | 145.2 | 145.2 | 145.2 |
| 12.5° | 158.2 | 142.0 | 133.7 | 130.5 | 130.5 | 128.9 | 128.9 |
| 15°   | 142.0 | 128.9 | 120.8 | 117.5 | 117.5 | 115.8 | 117.5 |
| 17.5° | 128.9 | 115.8 | 109.3 | 106.0 | 106.0 | 104.4 | 104.4 |
| 20°   | 117.5 | 106.0 | 99.6  | 94.6  | 94.6  | 93.0  | 94.6  |
| 22.5° | 107.7 | 96.3  | 88.1  | 84.8  | 83.2  | 81.5  | 83.2  |
| 25°   | 97.9  | 86.5  | 78.3  | 73.4  | 71.8  | 71.8  | 70.1  |
| 27.5° | 89.8  | 78.3  | 68.6  | 63.6  | 62.0  | 62.0  | 60.3  |
| 30°   | 81.5  | 68.6  | 58.7  | 53.8  | 52.2  | 52.2  | 52.2  |
| 32.5° | 73.4  | 58.7  | 50.5  | 45.7  | 44.1  | 44.1  | 44.1  |
| 35°   | 65.3  | 50.5  | 42.4  | 37.5  | 35.9  | 35.9  | 35.9  |
| 37.5° | 55.5  | 42.4  | 32.6  | 29.3  | 27.7  | 26.1  | 26.1  |
| 40°   | 47.4  | 32.6  | 24.5  | 21.2  | 17.9  | 17.9  | 17.9  |
| 42.5° | 39.1  | 26.1  | 17.9  | 13.1  | 11.4  | 9.8   | 11.4  |
| 45°   | 32.6  | 19.6  | 11.4  | 6.5   | 4.9   | 4.9   | 4.9   |
| 47.5° | 26.1  | 13.1  | 4.9   | 1.6   | 1.6   | 1.6   | 1.6   |
| 50°   | 19.6  | 8.1   | 1.6   | 0.0   | 0.0   | 1.6   | 1.6   |
| 52.5° | 14.7  | 4.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 8.1   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 4.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 3.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)