

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: P165025

Luminaire Tested: **VST-E03-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P165025  
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-E03-LED-E-U-SL2-HSS-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4587.1 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 75.2  
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



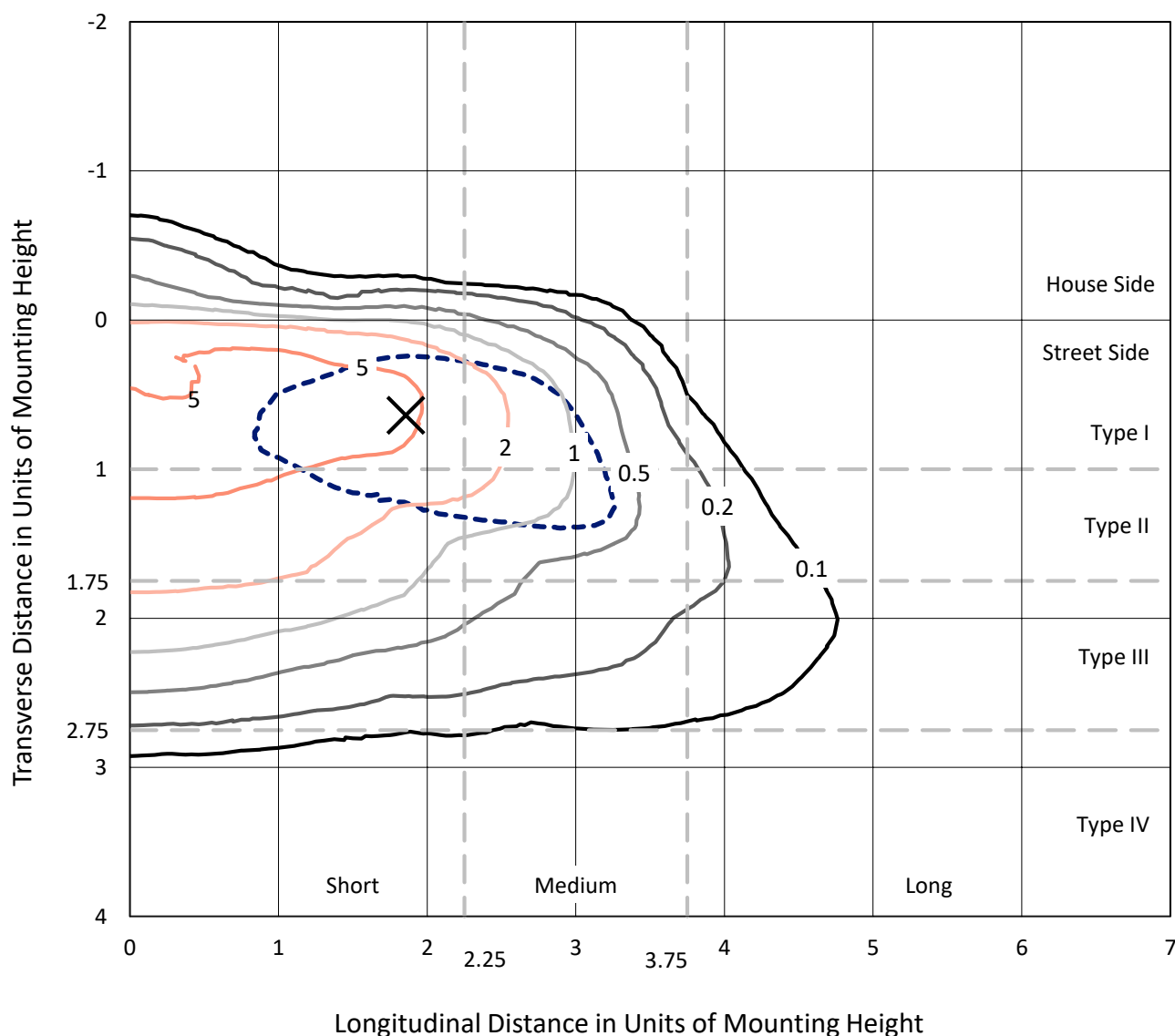
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

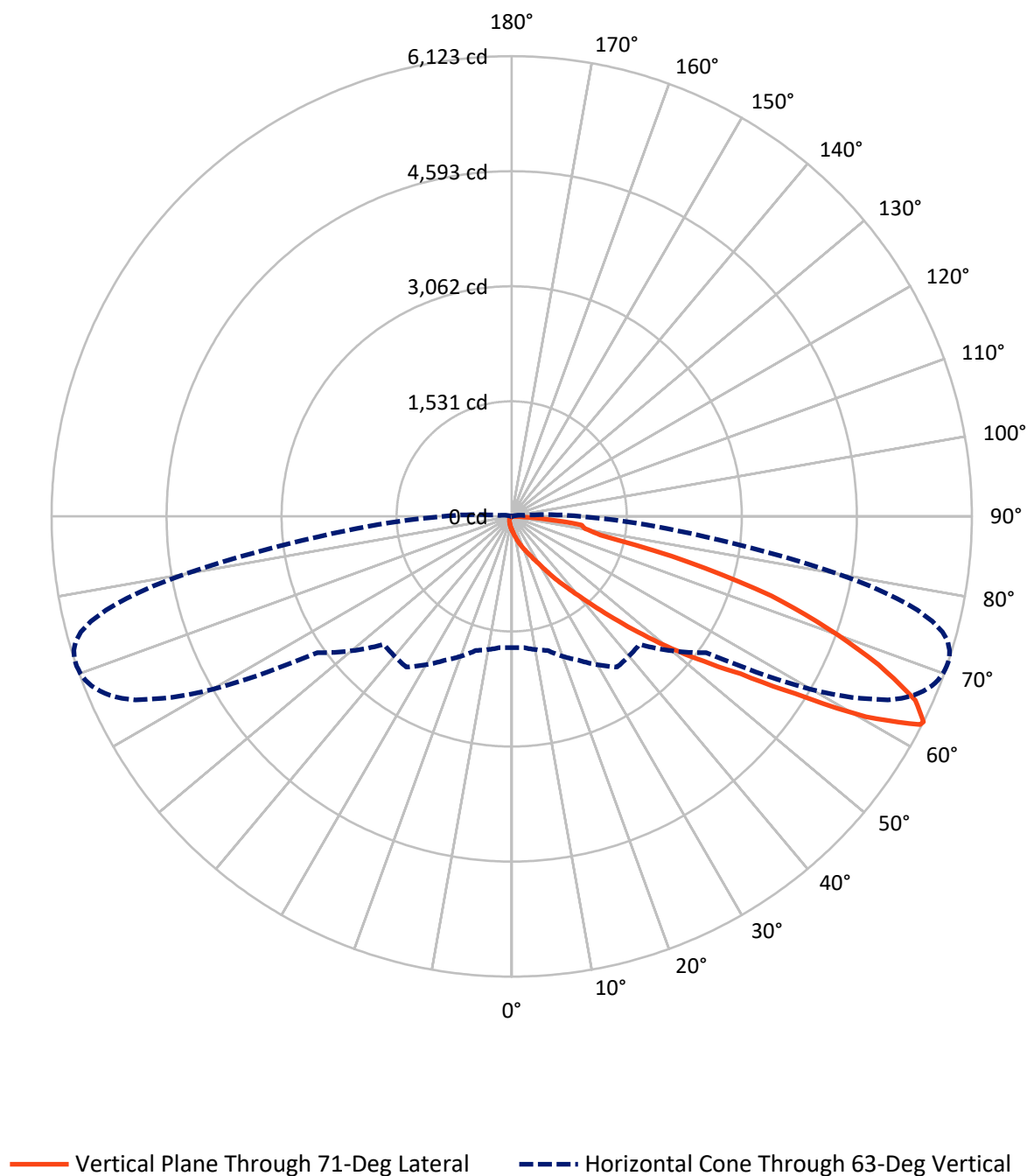


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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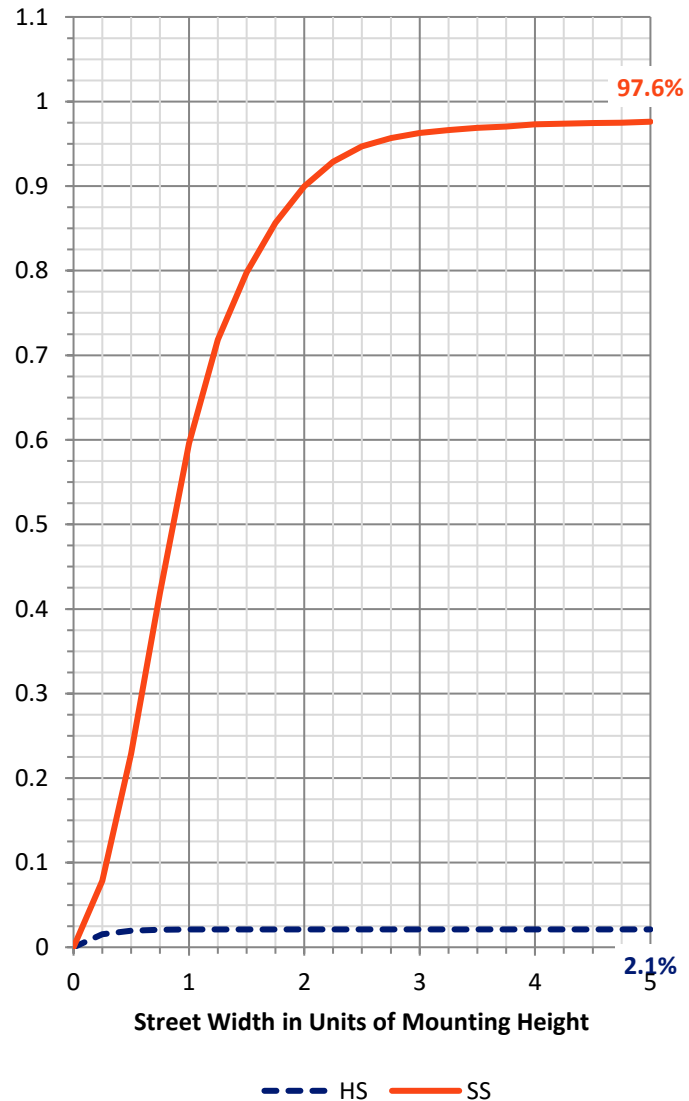
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 97.4     | 0.0    | 97.4   |
|                    | % Fixture | 2.1      | 0.0    | 2.1    |
| <b>Street Side</b> | Lumens    | 4489.7   | 0.0    | 4489.7 |
|                    | % Fixture | 97.9     | 0.0    | 97.9   |
| <b>Total</b>       | Lumens    | 4587.1   | 0.0    | 4587.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.4   | 0.4       |
| 10°-20°   | 75.4   | 1.6       |
| 20°-30°   | 153.2  | 3.3       |
| 30°-40°   | 374.3  | 8.2       |
| 40°-50°   | 837.1  | 18.2      |
| 50°-60°   | 1177.0 | 25.7      |
| 60°-70°   | 1384.1 | 30.2      |
| 70°-80°   | 499.8  | 10.9      |
| 80°-90°   | 66.8   | 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°    | 4587.1 | 100.0     |
| 0°-180°   | 4587.1 | 100.0     |

**Coefficient of Utilization**



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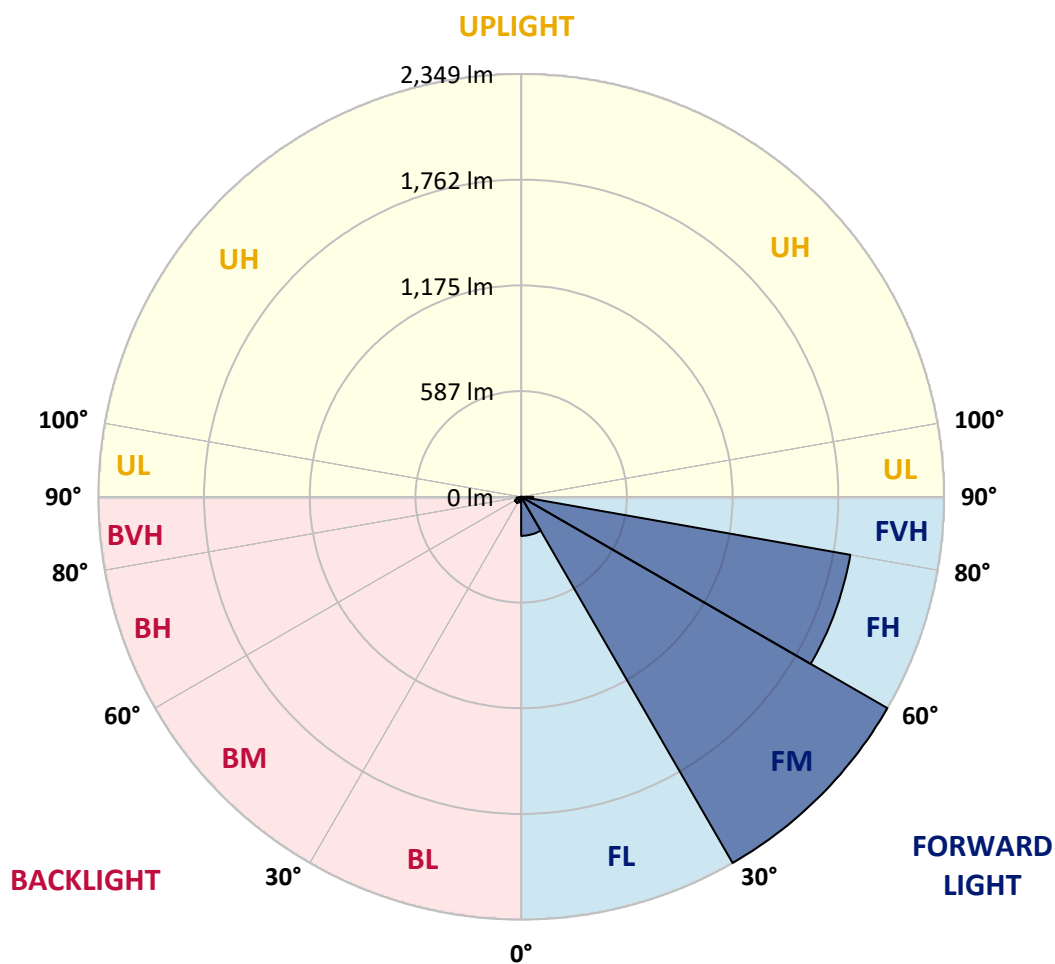
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 216.8  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 2349.1 | 51.2      |                         |      |         |
| FH   | (60°-80°)   | 1857.1 | 40.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 66.7   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 31.3   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 39.2   | 0.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 26.7   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.1    | 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°    | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  |
| 2.5°  | 230.2  | 232.6  | 230.9  | 226.8  | 221.8  | 215.2  | 209.3  | 209.3  | 208.5  | 206.0  | 206.8  |
| 5°    | 301.9  | 302.7  | 299.4  | 289.4  | 280.2  | 266.0  | 250.1  | 248.5  | 246.8  | 244.3  | 243.5  |
| 7.5°  | 371.9  | 375.2  | 371.9  | 361.1  | 342.7  | 321.1  | 296.0  | 293.6  | 288.5  | 288.5  | 285.2  |
| 10°   | 443.6  | 443.6  | 440.3  | 427.8  | 411.1  | 380.3  | 348.5  | 344.4  | 338.6  | 336.9  | 331.9  |
| 12.5° | 494.5  | 494.5  | 492.8  | 486.2  | 472.8  | 445.3  | 406.9  | 402.8  | 395.3  | 392.8  | 386.9  |
| 15°   | 514.5  | 514.5  | 515.3  | 521.2  | 522.1  | 509.5  | 469.5  | 466.1  | 458.6  | 452.0  | 449.5  |
| 17.5° | 527.0  | 526.2  | 526.2  | 534.5  | 549.5  | 557.9  | 532.0  | 528.7  | 520.4  | 517.0  | 508.7  |
| 20°   | 554.6  | 552.9  | 547.9  | 547.9  | 562.0  | 591.2  | 591.2  | 590.4  | 581.2  | 578.7  | 574.6  |
| 22.5° | 595.4  | 593.8  | 578.7  | 566.2  | 572.9  | 609.6  | 643.8  | 642.1  | 638.8  | 635.4  | 632.9  |
| 25°   | 662.1  | 656.3  | 630.4  | 593.8  | 587.9  | 627.1  | 683.8  | 688.0  | 690.5  | 690.5  | 692.2  |
| 27.5° | 763.0  | 755.5  | 709.7  | 641.3  | 615.4  | 655.4  | 728.0  | 736.3  | 743.8  | 745.5  | 753.0  |
| 30°   | 903.1  | 889.8  | 823.9  | 723.8  | 664.6  | 697.1  | 793.1  | 802.3  | 813.1  | 816.4  | 828.1  |
| 32.5° | 1133.3 | 1125.8 | 1062.4 | 912.2  | 785.5  | 778.9  | 884.0  | 895.6  | 909.8  | 915.6  | 929.8  |
| 35°   | 1483.6 | 1485.2 | 1433.5 | 1298.4 | 1123.3 | 1031.5 | 1046.6 | 1056.5 | 1061.6 | 1079.1 | 1086.6 |
| 37.5° | 1721.2 | 1725.4 | 1737.1 | 1683.7 | 1558.6 | 1465.1 | 1347.5 | 1358.5 | 1332.6 | 1335.1 | 1335.9 |
| 40°   | 1851.3 | 1864.6 | 1933.0 | 1984.7 | 1974.7 | 1920.5 | 1826.3 | 1832.1 | 1783.7 | 1772.9 | 1720.3 |
| 42.5° | 1938.0 | 1955.5 | 2064.8 | 2224.9 | 2306.6 | 2355.8 | 2334.1 | 2331.6 | 2294.0 | 2279.9 | 2235.7 |
| 45°   | 1992.2 | 2008.1 | 2145.7 | 2381.6 | 2570.1 | 2713.5 | 2772.7 | 2779.4 | 2747.7 | 2733.5 | 2696.9 |
| 47.5° | 1989.7 | 2008.1 | 2155.6 | 2440.0 | 2717.7 | 2947.0 | 3113.8 | 3122.1 | 3141.3 | 3128.8 | 3131.3 |
| 50°   | 1879.6 | 1897.1 | 2045.6 | 2340.8 | 2674.3 | 3053.8 | 3359.0 | 3385.7 | 3416.5 | 3437.3 | 3447.4 |
| 52.5° | 1746.2 | 1758.7 | 1890.5 | 2170.7 | 2489.2 | 3009.5 | 3504.1 | 3549.9 | 3595.8 | 3635.0 | 3662.5 |
| 55°   | 1697.0 | 1711.1 | 1814.6 | 2047.3 | 2340.8 | 2824.4 | 3571.6 | 3639.2 | 3704.2 | 3768.4 | 3820.9 |
| 57.5° | 1722.8 | 1736.2 | 1810.4 | 1988.9 | 2252.4 | 2629.3 | 3590.8 | 3695.9 | 3802.6 | 3906.8 | 4010.2 |
| 60°   | 1817.9 | 1832.1 | 1895.5 | 2043.1 | 2229.1 | 2516.8 | 3515.8 | 3690.1 | 3867.7 | 4049.5 | 4220.4 |
| 62.5° | 1780.4 | 1786.2 | 1879.6 | 2138.2 | 2395.8 | 2420.8 | 3243.1 | 3486.6 | 3757.6 | 4037.8 | 4313.8 |
| 63°   | 1744.5 | 1751.2 | 1846.3 | 2112.3 | 2446.7 | 2406.7 | 3158.8 | 3415.7 | 3701.7 | 4003.6 | 4303.8 |
| 65°   | 1581.9 | 1582.7 | 1655.3 | 1865.5 | 2390.0 | 2431.7 | 2783.6 | 3028.7 | 3357.3 | 3719.2 | 4098.7 |
| 67.5° | 1180.8 | 1175.0 | 1245.0 | 1405.1 | 1876.3 | 2432.5 | 2389.1 | 2526.8 | 2755.3 | 3076.3 | 3416.5 |
| 70°   | 418.6  | 409.5  | 522.8  | 744.7  | 1169.1 | 1989.7 | 2053.1 | 2062.3 | 2125.6 | 2299.1 | 2512.6 |
| 72.5° | 135.9  | 138.4  | 166.7  | 272.7  | 538.7  | 1339.3 | 1858.8 | 1830.4 | 1813.7 | 1812.9 | 1841.3 |
| 75°   | 54.2   | 55.0   | 66.7   | 120.9  | 241.9  | 645.5  | 1627.8 | 1643.6 | 1649.5 | 1657.8 | 1667.0 |
| 77.5° | 25.8   | 28.4   | 37.5   | 67.6   | 120.1  | 319.4  | 1165.0 | 1299.2 | 1375.9 | 1435.2 | 1471.0 |
| 80°   | 9.2    | 10.9   | 20.9   | 41.7   | 55.9   | 146.8  | 613.7  | 740.5  | 853.1  | 998.2  | 1123.3 |
| 82.5° | 0.0    | 0.0    | 4.1    | 29.2   | 30.8   | 59.2   | 251.8  | 295.2  | 337.7  | 437.8  | 562.0  |
| 85°   | 0.0    | 0.0    | 0.0    | 8.3    | 9.2    | 10.0   | 85.1   | 102.6  | 115.1  | 134.2  | 155.1  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 2.5    | 5.0    | 12.5   | 19.2   |
| 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):**

|       | 60°    | 61°    | 62°    | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  |
| 2.5°  | 205.1  | 204.4  | 204.4  | 202.7  | 201.8  | 200.1  | 199.3  | 196.8  | 196.0  | 196.0  | 196.0  |
| 5°    | 242.6  | 239.3  | 237.7  | 233.5  | 230.9  | 230.2  | 226.0  | 224.3  | 221.8  | 222.7  | 218.5  |
| 7.5°  | 284.3  | 278.5  | 276.1  | 270.2  | 268.6  | 262.7  | 261.0  | 256.9  | 254.3  | 249.4  | 247.7  |
| 10°   | 330.2  | 322.7  | 318.6  | 309.4  | 306.9  | 302.7  | 297.7  | 292.7  | 288.5  | 283.6  | 281.0  |
| 12.5° | 382.8  | 376.1  | 372.8  | 360.2  | 354.4  | 348.5  | 341.9  | 335.2  | 328.6  | 324.4  | 318.6  |
| 15°   | 444.5  | 433.6  | 430.3  | 418.6  | 408.6  | 401.1  | 391.9  | 383.6  | 378.6  | 370.3  | 364.4  |
| 17.5° | 505.3  | 494.5  | 492.0  | 474.5  | 463.7  | 458.6  | 448.7  | 437.8  | 428.6  | 420.3  | 411.1  |
| 20°   | 566.2  | 558.7  | 552.0  | 535.4  | 523.7  | 515.3  | 502.0  | 491.2  | 483.7  | 472.0  | 460.3  |
| 22.5° | 627.1  | 619.6  | 614.6  | 597.1  | 586.3  | 574.6  | 562.9  | 551.2  | 540.4  | 526.2  | 512.9  |
| 25°   | 689.6  | 684.7  | 682.1  | 666.3  | 656.3  | 645.5  | 633.8  | 620.5  | 607.1  | 591.2  | 577.1  |
| 27.5° | 754.7  | 756.4  | 751.3  | 748.0  | 737.2  | 729.7  | 711.4  | 702.2  | 692.2  | 673.0  | 655.4  |
| 30°   | 837.2  | 842.2  | 840.5  | 843.1  | 836.4  | 831.4  | 817.2  | 805.6  | 793.9  | 775.6  | 755.5  |
| 32.5° | 941.5  | 948.2  | 951.5  | 960.7  | 957.4  | 955.7  | 951.5  | 934.8  | 926.5  | 894.8  | 886.4  |
| 35°   | 1102.4 | 1099.1 | 1113.2 | 1120.7 | 1117.4 | 1115.8 | 1110.8 | 1101.6 | 1091.6 | 1069.0 | 1048.3 |
| 37.5° | 1311.7 | 1315.1 | 1320.1 | 1305.1 | 1295.0 | 1294.3 | 1279.2 | 1270.0 | 1255.9 | 1230.8 | 1205.8 |
| 40°   | 1695.3 | 1674.5 | 1651.1 | 1587.7 | 1560.2 | 1544.4 | 1500.2 | 1487.7 | 1463.5 | 1429.3 | 1403.5 |
| 42.5° | 2194.0 | 2173.1 | 2103.1 | 1997.2 | 1940.5 | 1862.1 | 1826.3 | 1782.1 | 1747.9 | 1692.0 | 1662.0 |
| 45°   | 2689.4 | 2629.3 | 2620.9 | 2497.6 | 2427.5 | 2324.1 | 2259.9 | 2185.6 | 2108.1 | 2034.7 | 1981.4 |
| 47.5° | 3107.2 | 3093.8 | 3053.0 | 2977.9 | 2912.8 | 2826.1 | 2743.6 | 2629.3 | 2549.2 | 2445.0 | 2349.1 |
| 50°   | 3441.5 | 3440.7 | 3425.6 | 3382.3 | 3328.1 | 3258.1 | 3185.5 | 3088.8 | 2997.9 | 2870.3 | 2767.7 |
| 52.5° | 3691.7 | 3705.1 | 3710.0 | 3696.7 | 3675.8 | 3614.2 | 3577.5 | 3496.6 | 3419.8 | 3311.4 | 3200.5 |
| 55°   | 3875.2 | 3924.4 | 3949.4 | 3977.7 | 3971.9 | 3950.2 | 3948.5 | 3896.0 | 3861.0 | 3775.1 | 3696.7 |
| 57.5° | 4102.0 | 4182.8 | 4260.4 | 4398.1 | 4403.0 | 4451.4 | 4476.4 | 4501.4 | 4508.1 | 4473.9 | 4448.0 |
| 60°   | 4390.5 | 4555.6 | 4702.4 | 4990.1 | 5065.1 | 5183.6 | 5260.3 | 5343.7 | 5414.5 | 5420.4 | 5418.7 |
| 62.5° | 4594.0 | 4848.3 | 5085.2 | 5512.1 | 5658.1 | 5794.8 | 5897.3 | 5978.3 | 6027.5 | 6077.5 | 6100.9 |
| 63°   | 4599.8 | 4878.4 | 5130.2 | 5570.5 | 5723.9 | 5854.0 | 5951.6 | 6026.6 | 6078.4 | 6108.4 | 6123.4 |
| 65°   | 4458.9 | 4796.6 | 5096.8 | 5535.4 | 5679.7 | 5810.7 | 5861.5 | 5910.7 | 5935.7 | 5947.4 | 5903.2 |
| 67.5° | 3779.3 | 4109.5 | 4459.7 | 4950.1 | 5073.5 | 5230.3 | 5272.0 | 5297.0 | 5308.6 | 5306.2 | 5268.7 |
| 70°   | 2826.1 | 3103.0 | 3492.4 | 4052.8 | 4216.3 | 4369.7 | 4464.7 | 4505.6 | 4518.9 | 4514.8 | 4458.9 |
| 72.5° | 1973.0 | 2135.6 | 2456.7 | 3080.5 | 3303.1 | 3499.9 | 3617.5 | 3678.4 | 3690.8 | 3665.8 | 3614.2 |
| 75°   | 1657.0 | 1665.3 | 1737.8 | 2078.9 | 2287.4 | 2497.6 | 2630.1 | 2668.5 | 2643.5 | 2567.6 | 2435.9 |
| 77.5° | 1479.4 | 1497.7 | 1497.7 | 1548.5 | 1589.4 | 1647.8 | 1660.3 | 1566.9 | 1458.5 | 1318.4 | 1205.0 |
| 80°   | 1240.9 | 1305.1 | 1350.1 | 1387.6 | 1391.8 | 1380.1 | 1349.2 | 1296.7 | 1213.3 | 1106.6 | 988.2  |
| 82.5° | 753.8  | 880.6  | 932.3  | 1125.8 | 1220.8 | 1285.0 | 1280.0 | 1210.0 | 1146.6 | 1035.7 | 934.8  |
| 85°   | 190.1  | 205.1  | 222.7  | 289.4  | 324.4  | 396.1  | 441.1  | 462.0  | 469.5  | 431.2  | 390.3  |
| 87.5° | 18.4   | 12.5   | 20.9   | 15.8   | 22.6   | 16.7   | 22.6   | 20.9   | 25.8   | 27.5   | 30.0   |
| 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):**

|       | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  |
| 2.5°  | 194.3  | 193.4  | 192.7  | 191.8  | 191.0  | 190.1  | 188.5  | 188.5  | 186.8  | 185.9  | 185.2  |
| 5°    | 216.0  | 214.3  | 213.5  | 211.8  | 209.3  | 207.6  | 205.1  | 201.8  | 199.3  | 198.5  | 196.8  |
| 7.5°  | 243.5  | 239.3  | 237.7  | 235.1  | 231.8  | 226.8  | 223.5  | 221.0  | 216.8  | 214.3  | 209.3  |
| 10°   | 274.4  | 270.2  | 265.2  | 260.2  | 255.2  | 249.4  | 245.2  | 241.9  | 235.1  | 231.8  | 226.0  |
| 12.5° | 313.6  | 306.1  | 300.2  | 293.6  | 286.9  | 280.2  | 275.2  | 265.2  | 259.3  | 251.8  | 246.8  |
| 15°   | 353.6  | 346.9  | 340.3  | 331.9  | 321.8  | 311.0  | 306.1  | 296.8  | 289.4  | 277.7  | 271.0  |
| 17.5° | 401.9  | 389.4  | 379.4  | 369.4  | 360.2  | 350.2  | 340.3  | 326.0  | 315.2  | 305.2  | 291.9  |
| 20°   | 449.5  | 434.5  | 423.6  | 410.3  | 397.0  | 381.1  | 369.4  | 359.4  | 344.4  | 331.1  | 316.9  |
| 22.5° | 500.3  | 485.3  | 467.8  | 454.5  | 436.1  | 423.6  | 407.8  | 391.1  | 376.1  | 358.6  | 341.0  |
| 25°   | 562.0  | 546.2  | 526.2  | 508.7  | 487.8  | 470.3  | 451.1  | 431.9  | 413.6  | 393.6  | 371.1  |
| 27.5° | 638.0  | 621.2  | 599.6  | 578.7  | 551.2  | 529.6  | 511.2  | 485.3  | 462.0  | 437.0  | 411.1  |
| 30°   | 733.8  | 715.5  | 688.8  | 658.7  | 631.3  | 607.1  | 581.2  | 547.1  | 521.2  | 491.2  | 457.9  |
| 32.5° | 859.0  | 837.2  | 801.4  | 773.0  | 738.8  | 707.1  | 671.3  | 637.1  | 600.4  | 561.2  | 522.8  |
| 35°   | 1016.5 | 996.5  | 954.8  | 913.1  | 875.6  | 838.1  | 793.1  | 753.8  | 702.2  | 654.6  | 605.4  |
| 37.5° | 1180.0 | 1144.1 | 1105.7 | 1060.7 | 1014.0 | 969.0  | 913.9  | 859.7  | 800.6  | 748.9  | 687.1  |
| 40°   | 1366.7 | 1323.4 | 1291.7 | 1243.4 | 1177.4 | 1113.2 | 1062.4 | 994.9  | 920.6  | 851.4  | 778.9  |
| 42.5° | 1622.8 | 1574.5 | 1517.7 | 1444.3 | 1396.8 | 1321.7 | 1255.9 | 1175.8 | 1078.2 | 1000.7 | 913.1  |
| 45°   | 1918.9 | 1852.9 | 1797.9 | 1727.0 | 1669.5 | 1576.1 | 1499.4 | 1392.7 | 1295.0 | 1193.3 | 1086.6 |
| 47.5° | 2256.5 | 2174.8 | 2094.8 | 2024.7 | 1933.0 | 1841.3 | 1743.7 | 1630.3 | 1505.2 | 1393.4 | 1266.7 |
| 50°   | 2644.3 | 2528.4 | 2417.5 | 2327.5 | 2201.5 | 2095.6 | 1989.7 | 1862.1 | 1723.7 | 1595.2 | 1451.0 |
| 52.5° | 3075.4 | 2941.2 | 2794.4 | 2656.0 | 2510.0 | 2374.1 | 2246.5 | 2099.8 | 1945.5 | 1788.7 | 1627.8 |
| 55°   | 3595.8 | 3494.9 | 3322.3 | 3146.3 | 2951.2 | 2769.4 | 2605.1 | 2423.3 | 2235.7 | 2029.7 | 1860.4 |
| 57.5° | 4410.5 | 4361.3 | 4217.0 | 4041.1 | 3786.8 | 3565.8 | 3287.3 | 3064.6 | 2792.8 | 2509.3 | 2290.7 |
| 60°   | 5514.7 | 5453.7 | 5372.8 | 5230.3 | 5028.4 | 4728.2 | 4421.4 | 4075.3 | 3661.7 | 3268.9 | 2896.2 |
| 62.5° | 6103.4 | 6081.7 | 6015.8 | 5917.4 | 5728.9 | 5492.1 | 5182.7 | 4802.5 | 4335.5 | 3858.5 | 3383.2 |
| 63°   | 6120.8 | 6093.4 | 6036.6 | 5936.6 | 5770.6 | 5541.3 | 5237.8 | 4868.3 | 4411.4 | 3925.2 | 3439.9 |
| 65°   | 5884.1 | 5873.2 | 5815.6 | 5706.4 | 5593.0 | 5417.9 | 5182.7 | 4865.0 | 4481.4 | 4021.9 | 3539.1 |
| 67.5° | 5218.6 | 5186.0 | 5097.7 | 5064.3 | 4985.1 | 4863.3 | 4684.0 | 4465.6 | 4191.2 | 3830.1 | 3413.2 |
| 70°   | 4413.8 | 4365.5 | 4254.6 | 4195.4 | 4098.7 | 4021.9 | 3912.7 | 3756.7 | 3587.5 | 3335.6 | 3024.6 |
| 72.5° | 3560.8 | 3460.7 | 3359.0 | 3204.7 | 3069.6 | 2932.9 | 2811.9 | 2701.9 | 2515.9 | 2414.2 | 2178.2 |
| 75°   | 2312.4 | 2130.6 | 1956.4 | 1722.8 | 1512.7 | 1326.8 | 1145.8 | 1054.1 | 863.1  | 785.5  | 674.6  |
| 77.5° | 1097.4 | 995.7  | 859.0  | 753.0  | 617.9  | 504.5  | 412.0  | 309.4  | 242.6  | 190.1  | 145.1  |
| 80°   | 885.6  | 799.7  | 717.2  | 621.2  | 519.5  | 414.4  | 317.7  | 237.7  | 168.4  | 116.7  | 82.6   |
| 82.5° | 789.7  | 696.3  | 594.5  | 528.7  | 459.5  | 376.1  | 308.5  | 251.8  | 185.9  | 135.9  | 92.6   |
| 85°   | 306.9  | 258.5  | 199.3  | 162.6  | 126.8  | 104.2  | 94.3   | 65.0   | 50.9   | 40.0   | 30.8   |
| 87.5° | 26.7   | 21.7   | 17.5   | 11.7   | 12.5   | 6.7    | 7.5    | 5.0    | 4.1    | 4.1    | 3.4    |
| 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):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°   | 95°   | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0  | 176.0 | 176.0 | 176.0 | 176.0 |
| 2.5°  | 184.3  | 183.5  | 182.6  | 181.0  | 181.0  | 179.3  | 178.4  | 177.7 | 173.5 | 164.3 | 156.8 |
| 5°    | 193.4  | 191.8  | 190.1  | 187.6  | 185.9  | 183.5  | 181.8  | 179.3 | 170.1 | 152.6 | 137.6 |
| 7.5°  | 206.8  | 203.5  | 201.0  | 196.0  | 193.4  | 190.1  | 187.6  | 183.5 | 168.4 | 141.7 | 120.9 |
| 10°   | 222.7  | 216.8  | 212.6  | 206.8  | 201.8  | 197.6  | 193.4  | 187.6 | 166.7 | 130.1 | 105.9 |
| 12.5° | 241.9  | 235.1  | 226.8  | 220.1  | 213.5  | 207.6  | 201.8  | 194.3 | 164.3 | 120.1 | 94.3  |
| 15°   | 261.0  | 251.0  | 245.2  | 236.0  | 226.8  | 218.5  | 210.2  | 203.5 | 165.1 | 109.2 | 84.2  |
| 17.5° | 282.7  | 272.7  | 260.2  | 250.1  | 240.2  | 229.3  | 219.3  | 206.0 | 160.9 | 100.9 | 76.7  |
| 20°   | 303.5  | 289.4  | 277.7  | 265.2  | 251.0  | 237.7  | 225.1  | 213.5 | 157.6 | 92.6  | 70.0  |
| 22.5° | 326.0  | 309.4  | 294.4  | 278.5  | 261.0  | 246.0  | 230.9  | 216.0 | 151.7 | 85.1  | 64.2  |
| 25°   | 353.6  | 334.4  | 312.7  | 293.6  | 275.2  | 256.9  | 237.7  | 219.3 | 145.9 | 78.4  | 60.1  |
| 27.5° | 386.9  | 361.9  | 340.3  | 316.0  | 290.2  | 266.9  | 246.0  | 226.0 | 140.1 | 73.4  | 55.9  |
| 30°   | 429.5  | 400.3  | 369.4  | 338.6  | 311.0  | 284.3  | 255.2  | 230.2 | 134.2 | 68.3  | 51.7  |
| 32.5° | 486.2  | 449.5  | 412.0  | 376.1  | 339.4  | 305.2  | 274.4  | 241.9 | 130.9 | 64.2  | 47.6  |
| 35°   | 561.2  | 513.7  | 467.8  | 422.8  | 378.6  | 336.9  | 296.8  | 260.2 | 130.9 | 59.2  | 42.5  |
| 37.5° | 632.1  | 577.1  | 518.7  | 462.8  | 410.3  | 361.9  | 314.3  | 270.2 | 124.3 | 55.0  | 38.4  |
| 40°   | 708.8  | 642.9  | 574.6  | 508.7  | 445.3  | 385.3  | 331.1  | 280.2 | 118.4 | 50.0  | 34.2  |
| 42.5° | 826.4  | 743.0  | 653.8  | 577.1  | 501.2  | 427.0  | 359.4  | 299.4 | 110.9 | 45.0  | 30.0  |
| 45°   | 980.7  | 874.7  | 769.7  | 676.3  | 579.5  | 488.7  | 408.6  | 334.4 | 109.2 | 40.9  | 25.8  |
| 47.5° | 1145.8 | 1020.7 | 897.3  | 778.0  | 664.6  | 558.7  | 462.8  | 373.6 | 109.2 | 36.7  | 22.6  |
| 50°   | 1310.0 | 1153.3 | 1021.6 | 883.1  | 755.5  | 630.4  | 516.2  | 414.4 | 110.1 | 33.4  | 18.4  |
| 52.5° | 1458.5 | 1290.9 | 1143.3 | 983.2  | 842.2  | 697.1  | 572.9  | 454.5 | 108.4 | 29.2  | 15.0  |
| 55°   | 1664.5 | 1467.7 | 1296.7 | 1120.0 | 954.8  | 791.4  | 650.5  | 514.5 | 109.2 | 25.8  | 12.5  |
| 57.5° | 2043.9 | 1812.9 | 1606.9 | 1375.1 | 1184.9 | 974.0  | 803.0  | 638.0 | 119.3 | 21.7  | 9.2   |
| 60°   | 2588.5 | 2288.2 | 1998.9 | 1716.2 | 1474.4 | 1223.3 | 1001.5 | 807.2 | 140.1 | 17.5  | 6.7   |
| 62.5° | 2954.5 | 2561.8 | 2216.5 | 1904.6 | 1623.6 | 1360.9 | 1119.1 | 898.1 | 154.3 | 14.2  | 4.1   |
| 63°   | 2992.0 | 2585.9 | 2239.0 | 1917.2 | 1630.3 | 1367.6 | 1124.1 | 904.8 | 155.1 | 13.3  | 4.1   |
| 65°   | 3062.9 | 2627.6 | 2251.6 | 1919.6 | 1623.6 | 1358.5 | 1120.7 | 904.0 | 156.8 | 10.9  | 3.4   |
| 67.5° | 2982.1 | 2563.4 | 2179.0 | 1847.9 | 1565.2 | 1304.2 | 1079.1 | 870.6 | 155.9 | 7.5   | 2.5   |
| 70°   | 2666.8 | 2320.0 | 1982.2 | 1673.6 | 1416.8 | 1180.8 | 982.4  | 793.9 | 143.4 | 5.0   | 1.7   |
| 72.5° | 1958.0 | 1722.0 | 1460.2 | 1237.5 | 1067.4 | 886.4  | 756.4  | 596.2 | 110.9 | 3.4   | 0.8   |
| 75°   | 580.4  | 528.7  | 444.5  | 391.9  | 346.1  | 286.0  | 254.3  | 198.5 | 56.7  | 1.7   | 0.0   |
| 77.5° | 115.9  | 105.1  | 94.3   | 85.9   | 80.9   | 69.2   | 65.9   | 54.2  | 23.3  | 0.8   | 0.0   |
| 80°   | 60.8   | 50.0   | 42.5   | 37.5   | 32.5   | 26.7   | 22.6   | 18.4  | 4.1   | 0.0   | 0.0   |
| 82.5° | 58.4   | 39.2   | 28.4   | 23.3   | 20.0   | 15.8   | 12.5   | 9.2   | 2.5   | 0.0   | 0.0   |
| 85°   | 21.7   | 16.7   | 12.5   | 10.0   | 8.3    | 7.5    | 5.8    | 5.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.4    | 2.5    | 2.5    | 1.7    | 1.7    | 0.8    | 0.8    | 0.8   | 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°    | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 |
| 2.5°  | 149.3 | 142.6 | 139.3 | 135.1 | 135.1 | 134.2 | 135.9 |
| 5°    | 124.3 | 115.1 | 108.4 | 103.4 | 104.2 | 101.8 | 102.6 |
| 7.5°  | 105.1 | 95.9  | 90.1  | 86.8  | 85.9  | 85.1  | 85.1  |
| 10°   | 90.9  | 82.6  | 77.5  | 75.1  | 74.2  | 74.2  | 74.2  |
| 12.5° | 80.9  | 72.5  | 68.3  | 66.7  | 66.7  | 65.9  | 65.9  |
| 15°   | 72.5  | 65.9  | 61.7  | 60.1  | 60.1  | 59.2  | 60.1  |
| 17.5° | 65.9  | 59.2  | 55.9  | 54.2  | 54.2  | 53.4  | 53.4  |
| 20°   | 60.1  | 54.2  | 50.9  | 48.4  | 48.4  | 47.6  | 48.4  |
| 22.5° | 55.0  | 49.2  | 45.0  | 43.3  | 42.5  | 41.7  | 42.5  |
| 25°   | 50.0  | 44.2  | 40.0  | 37.5  | 36.7  | 36.7  | 35.9  |
| 27.5° | 45.9  | 40.0  | 35.0  | 32.5  | 31.7  | 31.7  | 30.8  |
| 30°   | 41.7  | 35.0  | 30.0  | 27.5  | 26.7  | 26.7  | 26.7  |
| 32.5° | 37.5  | 30.0  | 25.8  | 23.3  | 22.6  | 22.6  | 22.6  |
| 35°   | 33.4  | 25.8  | 21.7  | 19.2  | 18.4  | 18.4  | 18.4  |
| 37.5° | 28.4  | 21.7  | 16.7  | 15.0  | 14.2  | 13.3  | 13.3  |
| 40°   | 24.2  | 16.7  | 12.5  | 10.9  | 9.2   | 9.2   | 9.2   |
| 42.5° | 20.0  | 13.3  | 9.2   | 6.7   | 5.8   | 5.0   | 5.8   |
| 45°   | 16.7  | 10.0  | 5.8   | 3.4   | 2.5   | 2.5   | 2.5   |
| 47.5° | 13.3  | 6.7   | 2.5   | 0.8   | 0.8   | 0.8   | 0.8   |
| 50°   | 10.0  | 4.1   | 0.8   | 0.0   | 0.0   | 0.8   | 0.8   |
| 52.5° | 7.5   | 2.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 4.1   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 2.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.8   | 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)