

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: INVUE

Report Number: P154326

Luminaire Tested: **VXM-F02-LED-E1-T2-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P154326  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXM-F02-LED-E1-T2-7050  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5190.6 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 55  
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

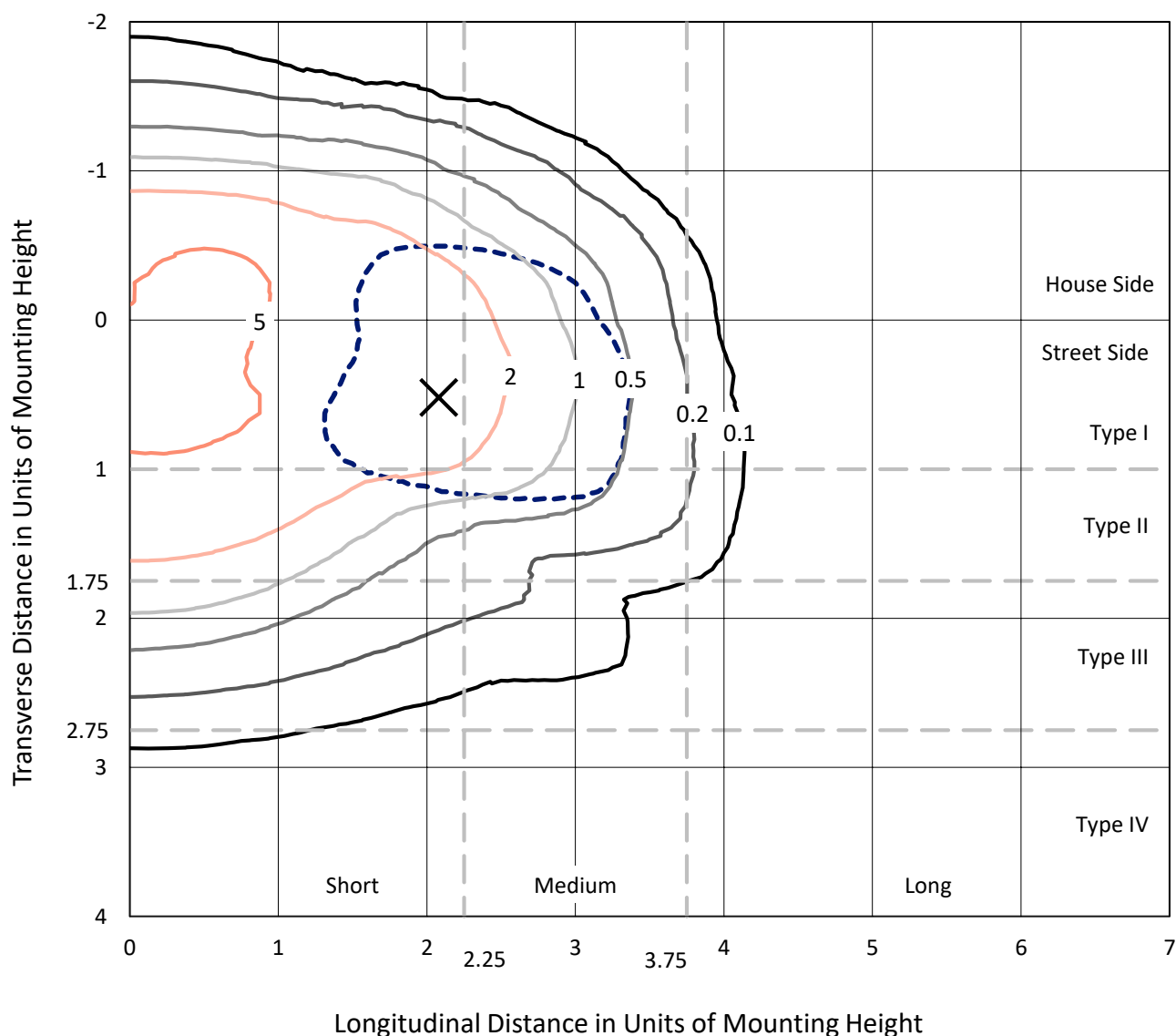


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

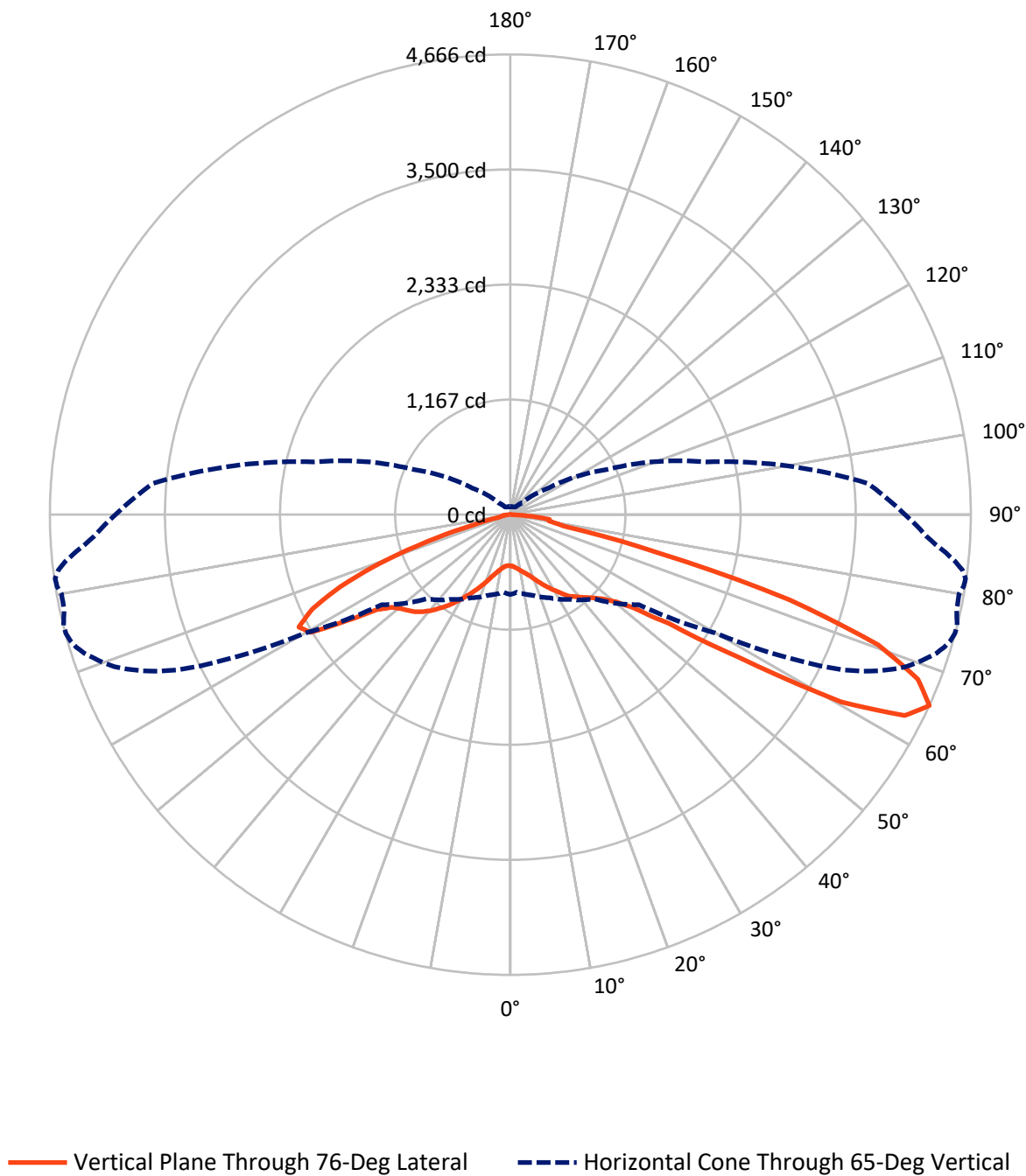


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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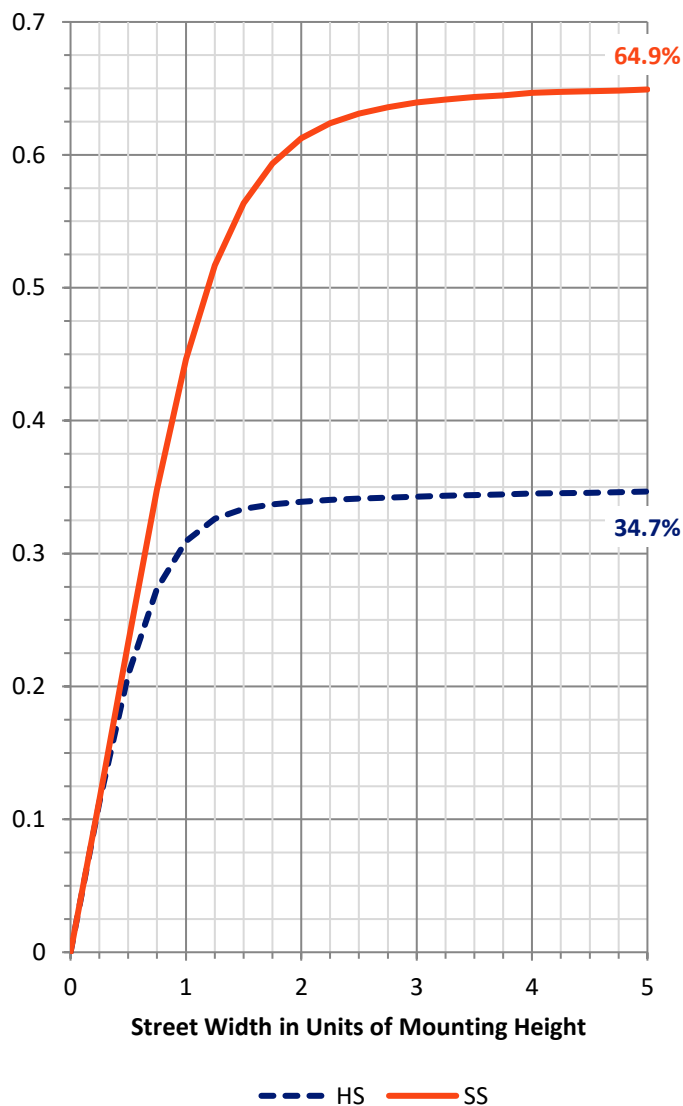
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1817.6   | 0.0    | 1817.6 |
|                    | % Fixture | 35.0     | 0.0    | 35.0   |
| <b>Street Side</b> | Lumens    | 3373.0   | 0.0    | 3373.0 |
|                    | % Fixture | 65.0     | 0.0    | 65.0   |
| <b>Total</b>       | Lumens    | 5190.6   | 0.0    | 5190.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.0   | 1.0       |
| 10°-20°   | 178.5  | 3.4       |
| 20°-30°   | 350.7  | 6.8       |
| 30°-40°   | 582.7  | 11.2      |
| 40°-50°   | 856.2  | 16.5      |
| 50°-60°   | 1185.4 | 22.8      |
| 60°-70°   | 1414.9 | 27.3      |
| 70°-80°   | 500.4  | 9.6       |
| 80°-90°   | 69.9   | 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°    | 5190.6 | 100.0     |
| 0°-180°   | 5190.6 | 100.0     |

**Coefficient of Utilization**



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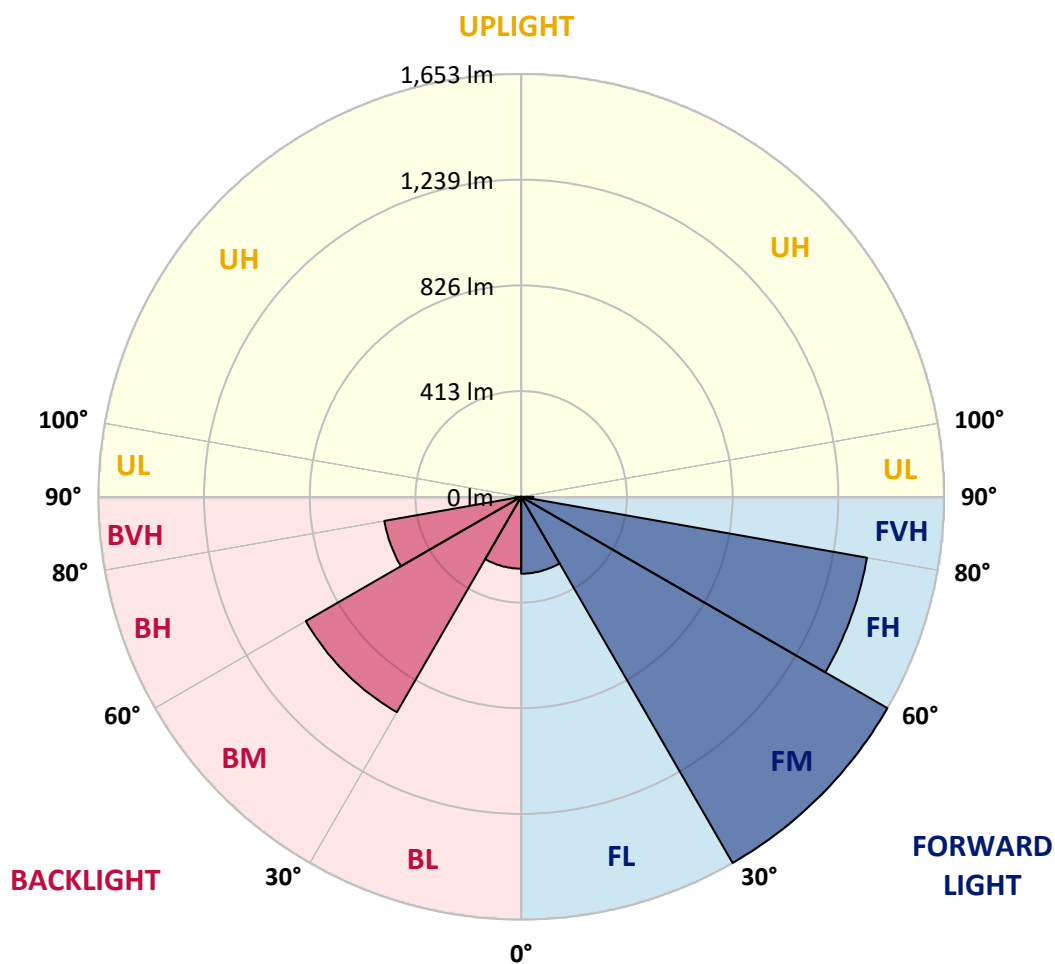
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 300.3  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 1652.5 | 31.8      |                         |      |         |
| FH   | (60°-80°)   | 1372.3 | 26.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 47.8   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 280.8  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 971.8  | 18.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 542.9  | 10.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 22.1   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  |
| 2.5°  | 541.6  | 542.1  | 541.0  | 540.4  | 538.7  | 535.9  | 533.7  | 531.4  | 531.4  | 531.4  | 529.7  |
| 5°    | 565.3  | 566.4  | 564.2  | 562.5  | 557.4  | 554.6  | 550.6  | 547.8  | 546.6  | 546.1  | 544.4  |
| 7.5°  | 595.2  | 593.5  | 590.1  | 589.0  | 585.0  | 578.8  | 571.5  | 565.8  | 565.8  | 565.3  | 565.8  |
| 10°   | 625.1  | 620.6  | 618.9  | 617.2  | 611.0  | 603.1  | 594.6  | 588.4  | 587.9  | 587.3  | 585.6  |
| 12.5° | 655.1  | 653.4  | 651.7  | 645.5  | 639.3  | 626.8  | 617.2  | 611.0  | 610.5  | 611.0  | 608.8  |
| 15°   | 694.6  | 690.6  | 689.0  | 678.2  | 664.7  | 651.1  | 639.3  | 633.6  | 631.9  | 632.5  | 630.8  |
| 17.5° | 725.1  | 725.1  | 721.1  | 709.3  | 691.8  | 673.1  | 660.7  | 657.3  | 656.8  | 656.8  | 657.3  |
| 20°   | 749.4  | 748.8  | 744.9  | 735.3  | 714.4  | 695.7  | 689.5  | 688.4  | 687.8  | 687.8  | 689.5  |
| 22.5° | 762.9  | 761.8  | 760.1  | 749.4  | 733.0  | 720.6  | 721.1  | 724.5  | 725.7  | 726.8  | 729.0  |
| 25°   | 769.7  | 768.0  | 767.5  | 760.1  | 748.3  | 746.6  | 756.7  | 765.8  | 768.0  | 770.3  | 773.1  |
| 27.5° | 781.0  | 778.2  | 779.3  | 776.5  | 773.7  | 778.7  | 799.6  | 809.2  | 810.9  | 813.8  | 815.5  |
| 30°   | 812.1  | 810.9  | 815.5  | 816.6  | 818.8  | 826.2  | 845.4  | 854.4  | 858.4  | 858.4  | 866.3  |
| 32.5° | 871.4  | 871.9  | 873.1  | 884.9  | 888.9  | 893.9  | 904.1  | 911.5  | 912.0  | 912.6  | 919.9  |
| 35°   | 951.0  | 954.4  | 964.0  | 974.1  | 983.7  | 983.2  | 977.0  | 980.9  | 978.1  | 981.5  | 982.0  |
| 37.5° | 1051.5 | 1047.0 | 1061.1 | 1084.3 | 1098.9 | 1095.0 | 1067.3 | 1049.2 | 1054.3 | 1052.1 | 1050.4 |
| 40°   | 1128.9 | 1134.0 | 1161.1 | 1191.6 | 1202.8 | 1215.3 | 1179.1 | 1148.1 | 1143.6 | 1135.1 | 1130.0 |
| 42.5° | 1235.6 | 1236.2 | 1258.2 | 1280.8 | 1313.5 | 1340.6 | 1317.5 | 1272.9 | 1259.3 | 1249.2 | 1227.1 |
| 45°   | 1334.4 | 1332.7 | 1350.8 | 1378.5 | 1417.4 | 1456.4 | 1464.9 | 1416.3 | 1411.2 | 1393.2 | 1364.4 |
| 47.5° | 1400.5 | 1398.2 | 1410.7 | 1446.8 | 1510.1 | 1573.9 | 1608.9 | 1594.2 | 1584.6 | 1577.3 | 1532.1 |
| 50°   | 1445.1 | 1440.6 | 1454.7 | 1493.1 | 1563.7 | 1662.0 | 1753.4 | 1765.9 | 1761.9 | 1761.9 | 1733.1 |
| 52.5° | 1478.4 | 1478.4 | 1488.6 | 1519.7 | 1591.4 | 1713.9 | 1877.7 | 1940.4 | 1945.5 | 1951.1 | 1949.4 |
| 55°   | 1459.8 | 1462.6 | 1488.0 | 1533.2 | 1608.9 | 1750.1 | 1980.5 | 2117.7 | 2145.9 | 2169.6 | 2196.7 |
| 57.5° | 1396.0 | 1405.6 | 1439.5 | 1513.4 | 1613.4 | 1777.2 | 2094.5 | 2366.2 | 2445.8 | 2514.7 | 2622.0 |
| 60°   | 1302.8 | 1315.2 | 1364.4 | 1458.7 | 1580.1 | 1733.1 | 2134.6 | 2576.2 | 2702.7 | 2853.0 | 3133.1 |
| 62.5° | 1143.0 | 1155.4 | 1203.4 | 1297.7 | 1401.6 | 1564.3 | 1968.6 | 2607.3 | 2809.5 | 3022.4 | 3445.9 |
| 65°   | 809.8  | 790.0  | 845.4  | 930.1  | 1049.2 | 1206.8 | 1590.8 | 2398.9 | 2689.7 | 2978.3 | 3501.2 |
| 67.5° | 451.2  | 449.5  | 483.4  | 546.6  | 660.7  | 830.1  | 1096.1 | 1839.8 | 2107.5 | 2434.5 | 3076.6 |
| 70°   | 311.2  | 314.5  | 336.0  | 404.3  | 498.6  | 644.9  | 781.0  | 1155.4 | 1348.0 | 1569.9 | 2201.3 |
| 72.5° | 218.5  | 225.9  | 237.7  | 278.4  | 375.0  | 543.3  | 797.9  | 690.6  | 786.7  | 938.0  | 1323.7 |
| 75°   | 128.2  | 133.3  | 141.7  | 161.5  | 213.5  | 363.1  | 826.2  | 607.1  | 607.1  | 642.6  | 800.8  |
| 77.5° | 79.1   | 79.1   | 84.1   | 92.0   | 113.5  | 177.9  | 588.4  | 682.2  | 663.0  | 642.6  | 644.3  |
| 80°   | 40.7   | 43.5   | 50.8   | 54.8   | 63.2   | 81.3   | 264.3  | 636.4  | 698.0  | 739.2  | 710.4  |
| 82.5° | 18.6   | 20.9   | 31.1   | 33.3   | 36.7   | 42.9   | 90.9   | 362.0  | 485.1  | 638.7  | 797.9  |
| 85°   | 9.6    | 9.6    | 16.4   | 20.3   | 22.0   | 19.8   | 33.3   | 146.3  | 221.4  | 337.7  | 528.6  |
| 87.5° | 1.7    | 1.7    | 2.8    | 3.4    | 5.1    | 4.5    | 5.6    | 8.5    | 14.1   | 15.2   | 15.8   |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  |
| 2.5°  | 529.1  | 529.7  | 529.1  | 528.6  | 527.4  | 527.4  | 527.4  | 526.9  | 526.9  | 526.9  | 526.3  |
| 5°    | 544.4  | 542.1  | 542.7  | 541.6  | 541.0  | 540.4  | 541.0  | 539.9  | 538.7  | 539.3  | 538.7  |
| 7.5°  | 563.6  | 562.5  | 560.2  | 560.2  | 559.6  | 558.5  | 558.5  | 556.8  | 556.2  | 555.1  | 554.6  |
| 10°   | 585.0  | 582.2  | 583.4  | 582.2  | 582.8  | 580.5  | 579.4  | 578.3  | 577.1  | 577.1  | 577.7  |
| 12.5° | 607.1  | 606.5  | 604.8  | 603.7  | 603.7  | 602.0  | 602.6  | 602.0  | 600.3  | 599.7  | 598.0  |
| 15°   | 629.7  | 629.7  | 628.0  | 628.5  | 628.0  | 626.8  | 625.7  | 625.7  | 624.6  | 623.4  | 624.0  |
| 17.5° | 656.2  | 656.2  | 656.2  | 656.2  | 656.8  | 655.1  | 655.6  | 654.5  | 653.4  | 655.6  | 655.6  |
| 20°   | 690.6  | 692.9  | 692.9  | 692.3  | 695.2  | 693.5  | 692.9  | 695.7  | 692.9  | 696.9  | 696.3  |
| 22.5° | 730.2  | 732.4  | 732.4  | 734.7  | 735.3  | 737.0  | 738.1  | 737.0  | 739.2  | 741.5  | 741.5  |
| 25°   | 774.2  | 776.5  | 778.2  | 781.6  | 783.3  | 782.1  | 782.7  | 785.5  | 786.7  | 788.9  | 791.2  |
| 27.5° | 820.5  | 821.1  | 823.4  | 827.3  | 830.1  | 831.3  | 831.8  | 836.3  | 836.9  | 838.0  | 840.3  |
| 30°   | 865.7  | 871.4  | 870.2  | 875.3  | 877.0  | 878.7  | 882.1  | 883.8  | 887.7  | 890.0  | 890.0  |
| 32.5° | 918.8  | 917.7  | 922.2  | 926.1  | 929.0  | 931.8  | 934.6  | 936.9  | 939.1  | 940.3  | 945.9  |
| 35°   | 984.9  | 987.1  | 987.1  | 987.7  | 994.5  | 995.0  | 997.3  | 1002.4 | 1004.1 | 1007.5 | 1009.7 |
| 37.5° | 1050.4 | 1046.4 | 1045.9 | 1045.9 | 1043.6 | 1045.3 | 1045.9 | 1046.4 | 1048.7 | 1049.2 | 1051.5 |
| 40°   | 1123.8 | 1118.7 | 1114.2 | 1111.4 | 1106.8 | 1100.6 | 1099.5 | 1096.7 | 1098.4 | 1097.8 | 1098.4 |
| 42.5° | 1224.3 | 1210.2 | 1199.5 | 1191.6 | 1182.5 | 1175.7 | 1170.7 | 1163.3 | 1158.2 | 1152.0 | 1150.9 |
| 45°   | 1352.5 | 1326.0 | 1307.9 | 1294.9 | 1281.9 | 1263.3 | 1252.5 | 1241.2 | 1231.1 | 1220.9 | 1212.4 |
| 47.5° | 1520.8 | 1492.5 | 1463.7 | 1440.0 | 1419.7 | 1389.8 | 1359.3 | 1342.3 | 1322.6 | 1305.1 | 1292.6 |
| 50°   | 1719.0 | 1685.1 | 1671.6 | 1638.2 | 1612.8 | 1567.7 | 1529.8 | 1502.1 | 1462.6 | 1436.1 | 1412.9 |
| 52.5° | 1921.7 | 1913.3 | 1905.9 | 1877.7 | 1847.8 | 1821.8 | 1788.5 | 1739.9 | 1699.8 | 1669.3 | 1621.9 |
| 55°   | 2197.9 | 2201.8 | 2199.0 | 2183.8 | 2173.0 | 2148.2 | 2134.6 | 2092.3 | 2074.2 | 2030.2 | 1980.5 |
| 57.5° | 2662.6 | 2694.3 | 2734.4 | 2750.2 | 2771.6 | 2751.3 | 2775.0 | 2803.8 | 2732.1 | 2756.9 | 2712.3 |
| 60°   | 3256.2 | 3401.3 | 3487.7 | 3593.9 | 3663.3 | 3760.5 | 3778.0 | 3803.4 | 3796.0 | 3810.1 | 3838.9 |
| 62.5° | 3618.7 | 3790.9 | 3956.4 | 4076.7 | 4205.4 | 4276.6 | 4362.4 | 4422.3 | 4484.4 | 4526.2 | 4514.3 |
| 65°   | 3725.4 | 3902.8 | 4053.0 | 4184.6 | 4299.8 | 4386.7 | 4466.3 | 4541.5 | 4598.5 | 4638.6 | 4662.3 |
| 67.5° | 3333.5 | 3565.1 | 3723.2 | 3877.3 | 4025.9 | 4117.4 | 4184.0 | 4256.8 | 4340.4 | 4409.9 | 4423.4 |
| 70°   | 2508.5 | 2855.8 | 3080.0 | 3264.6 | 3439.1 | 3562.2 | 3655.4 | 3723.2 | 3788.1 | 3837.8 | 3892.0 |
| 72.5° | 1568.8 | 1872.6 | 2129.0 | 2368.4 | 2553.7 | 2723.1 | 2801.6 | 2951.8 | 2932.0 | 2969.8 | 3010.5 |
| 75°   | 940.3  | 1088.2 | 1229.4 | 1398.2 | 1495.4 | 1636.6 | 1662.0 | 1686.8 | 1673.8 | 1631.5 | 1663.1 |
| 77.5° | 653.4  | 677.7  | 676.5  | 666.9  | 656.8  | 631.9  | 599.7  | 582.2  | 570.4  | 553.4  | 560.2  |
| 80°   | 657.3  | 604.8  | 524.6  | 441.0  | 364.2  | 313.4  | 293.1  | 293.1  | 314.0  | 343.9  | 373.8  |
| 82.5° | 785.5  | 729.6  | 650.6  | 544.4  | 431.4  | 351.3  | 297.6  | 276.1  | 280.1  | 310.6  | 349.0  |
| 85°   | 529.7  | 542.1  | 475.5  | 434.8  | 344.5  | 268.2  | 224.8  | 182.4  | 161.5  | 166.6  | 188.6  |
| 87.5° | 19.2   | 23.2   | 8.5    | 11.3   | 7.9    | 6.8    | 6.8    | 7.3    | 5.1    | 6.2    | 5.6    |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  |
| 2.5°  | 525.8  | 525.2  | 525.2  | 524.1  | 524.1  | 523.5  | 523.5  | 522.9  | 522.4  | 522.4  | 521.8  |
| 5°    | 538.2  | 537.6  | 536.5  | 535.9  | 534.8  | 534.8  | 534.2  | 533.1  | 533.1  | 532.0  | 531.4  |
| 7.5°  | 555.7  | 554.6  | 553.4  | 552.9  | 552.3  | 550.6  | 550.6  | 549.5  | 549.5  | 548.3  | 547.8  |
| 10°   | 576.6  | 575.4  | 574.3  | 574.9  | 573.2  | 572.6  | 571.5  | 571.5  | 569.8  | 569.2  | 569.2  |
| 12.5° | 599.2  | 598.6  | 598.6  | 596.9  | 596.3  | 595.8  | 593.5  | 593.5  | 593.5  | 592.4  | 593.0  |
| 15°   | 623.4  | 624.0  | 622.3  | 624.0  | 623.4  | 621.8  | 621.8  | 621.8  | 619.5  | 622.3  | 620.1  |
| 17.5° | 656.2  | 657.9  | 656.8  | 657.3  | 656.2  | 656.2  | 656.8  | 656.2  | 657.3  | 657.3  | 660.7  |
| 20°   | 696.9  | 697.4  | 700.2  | 699.1  | 699.1  | 698.6  | 699.7  | 700.2  | 702.5  | 701.4  | 703.6  |
| 22.5° | 741.5  | 744.3  | 744.9  | 747.1  | 747.1  | 746.6  | 747.7  | 749.9  | 751.1  | 752.8  | 752.2  |
| 25°   | 792.3  | 794.0  | 796.3  | 793.4  | 797.9  | 797.9  | 799.1  | 801.9  | 802.5  | 802.5  | 806.4  |
| 27.5° | 839.7  | 844.3  | 844.8  | 847.6  | 845.9  | 847.1  | 851.0  | 852.7  | 855.0  | 855.0  | 856.1  |
| 30°   | 893.4  | 895.1  | 896.2  | 899.6  | 899.0  | 899.6  | 900.2  | 903.0  | 903.0  | 905.8  | 908.6  |
| 32.5° | 948.7  | 949.9  | 951.0  | 954.4  | 955.5  | 957.8  | 956.6  | 958.9  | 961.7  | 962.3  | 964.0  |
| 35°   | 1014.8 | 1015.9 | 1017.1 | 1022.1 | 1022.7 | 1026.7 | 1027.8 | 1026.7 | 1031.2 | 1028.3 | 1031.2 |
| 37.5° | 1053.2 | 1058.3 | 1059.4 | 1062.8 | 1061.7 | 1064.5 | 1066.2 | 1068.4 | 1069.6 | 1071.8 | 1076.4 |
| 40°   | 1100.1 | 1101.8 | 1105.2 | 1106.8 | 1109.1 | 1109.7 | 1111.9 | 1113.6 | 1115.3 | 1120.4 | 1125.5 |
| 42.5° | 1148.1 | 1150.3 | 1152.0 | 1154.3 | 1157.1 | 1159.4 | 1161.1 | 1166.1 | 1167.3 | 1170.7 | 1180.3 |
| 45°   | 1206.2 | 1205.1 | 1205.7 | 1206.2 | 1207.4 | 1210.2 | 1215.3 | 1220.4 | 1223.7 | 1231.6 | 1239.6 |
| 47.5° | 1278.5 | 1271.2 | 1268.4 | 1263.8 | 1265.0 | 1271.2 | 1272.3 | 1280.8 | 1287.6 | 1294.9 | 1304.5 |
| 50°   | 1388.1 | 1368.3 | 1356.5 | 1344.6 | 1343.5 | 1346.9 | 1351.4 | 1360.4 | 1368.3 | 1377.9 | 1391.5 |
| 52.5° | 1572.2 | 1534.3 | 1510.6 | 1477.9 | 1468.8 | 1467.1 | 1463.7 | 1468.8 | 1471.1 | 1484.1 | 1509.5 |
| 55°   | 1944.9 | 1874.9 | 1829.7 | 1778.9 | 1731.4 | 1717.3 | 1690.2 | 1695.8 | 1690.2 | 1698.1 | 1735.9 |
| 57.5° | 2723.1 | 2667.2 | 2623.1 | 2558.2 | 2476.8 | 2390.4 | 2369.0 | 2280.3 | 2297.8 | 2348.7 | 2315.9 |
| 60°   | 3853.1 | 3832.7 | 3801.1 | 3770.1 | 3658.8 | 3596.1 | 3493.9 | 3482.6 | 3410.9 | 3411.5 | 3364.6 |
| 62.5° | 4485.5 | 4511.5 | 4492.3 | 4483.3 | 4477.1 | 4457.3 | 4406.5 | 4345.5 | 4254.0 | 4187.9 | 4090.8 |
| 65°   | 4666.3 | 4644.2 | 4623.3 | 4620.5 | 4618.8 | 4651.0 | 4658.4 | 4615.4 | 4532.4 | 4429.6 | 4317.8 |
| 67.5° | 4455.6 | 4443.2 | 4444.3 | 4420.6 | 4435.3 | 4491.2 | 4530.2 | 4518.3 | 4442.1 | 4317.8 | 4175.5 |
| 70°   | 3954.1 | 3929.9 | 3954.7 | 3985.8 | 4007.8 | 4040.0 | 4079.0 | 4088.6 | 4019.1 | 3891.5 | 3746.3 |
| 72.5° | 2960.8 | 2964.8 | 2988.5 | 2997.0 | 3085.6 | 3076.6 | 3111.6 | 2997.5 | 2947.3 | 2825.8 | 2751.3 |
| 75°   | 1558.1 | 1532.6 | 1598.7 | 1458.7 | 1401.1 | 1441.2 | 1328.8 | 1220.9 | 1243.5 | 1262.1 | 1127.7 |
| 77.5° | 550.6  | 515.0  | 454.6  | 430.3  | 358.0  | 303.3  | 247.9  | 223.6  | 210.6  | 203.9  | 195.4  |
| 80°   | 395.3  | 406.6  | 394.2  | 364.8  | 310.0  | 248.5  | 196.0  | 154.7  | 132.7  | 120.8  | 112.9  |
| 82.5° | 399.8  | 444.4  | 464.2  | 455.7  | 406.0  | 307.2  | 202.7  | 129.3  | 96.0   | 80.2   | 74.5   |
| 85°   | 214.6  | 234.9  | 225.9  | 190.3  | 171.1  | 102.2  | 70.0   | 46.9   | 39.5   | 36.1   | 33.3   |
| 87.5° | 8.5    | 6.8    | 5.6    | 5.6    | 6.2    | 6.8    | 5.6    | 6.2    | 5.6    | 5.6    | 5.6    |
| 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):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°  | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0 | 519.0 | 519.0 |
| 2.5°  | 520.7  | 520.7  | 520.7  | 520.1  | 519.0  | 516.2  | 513.3  | 511.1  | 509.4 | 507.7 | 505.4 |
| 5°    | 530.8  | 529.7  | 529.7  | 529.7  | 525.2  | 520.7  | 516.7  | 512.8  | 509.4 | 506.6 | 504.3 |
| 7.5°  | 547.8  | 547.2  | 545.0  | 544.4  | 541.0  | 533.7  | 529.1  | 522.4  | 518.4 | 514.5 | 513.3 |
| 10°   | 568.1  | 567.5  | 567.0  | 566.4  | 561.9  | 554.6  | 548.9  | 542.7  | 537.0 | 531.4 | 525.8 |
| 12.5° | 591.8  | 591.3  | 590.7  | 589.0  | 587.3  | 583.4  | 577.1  | 570.4  | 563.6 | 551.7 | 545.5 |
| 15°   | 621.2  | 622.3  | 621.2  | 620.6  | 619.5  | 620.1  | 616.1  | 606.5  | 595.8 | 580.5 | 567.5 |
| 17.5° | 660.2  | 659.0  | 658.5  | 660.7  | 660.2  | 663.0  | 661.8  | 649.4  | 633.0 | 608.8 | 586.2 |
| 20°   | 703.1  | 703.1  | 705.3  | 707.0  | 712.1  | 719.4  | 716.1  | 700.8  | 670.9 | 637.0 | 607.6 |
| 22.5° | 754.5  | 755.6  | 757.9  | 756.7  | 764.6  | 776.5  | 777.6  | 756.2  | 717.2 | 670.3 | 629.1 |
| 25°   | 808.1  | 809.2  | 807.0  | 810.4  | 823.4  | 840.3  | 843.7  | 813.2  | 761.8 | 700.8 | 647.2 |
| 27.5° | 858.9  | 860.1  | 860.1  | 864.6  | 877.0  | 905.8  | 909.2  | 875.3  | 807.0 | 727.4 | 660.2 |
| 30°   | 908.6  | 913.1  | 914.3  | 915.4  | 934.0  | 974.1  | 981.5  | 932.3  | 846.5 | 747.1 | 669.2 |
| 32.5° | 971.3  | 973.0  | 975.3  | 978.1  | 999.5  | 1048.7 | 1048.7 | 981.5  | 871.9 | 759.5 | 670.9 |
| 35°   | 1038.5 | 1039.1 | 1044.2 | 1044.7 | 1075.2 | 1124.4 | 1114.8 | 1022.1 | 890.0 | 756.7 | 658.5 |
| 37.5° | 1079.2 | 1081.4 | 1086.5 | 1093.3 | 1125.5 | 1194.9 | 1172.9 | 1057.2 | 893.4 | 738.1 | 630.2 |
| 40°   | 1129.4 | 1134.0 | 1139.0 | 1145.8 | 1193.8 | 1266.7 | 1222.0 | 1079.2 | 879.3 | 701.4 | 587.9 |
| 42.5° | 1183.6 | 1189.9 | 1197.8 | 1210.2 | 1267.2 | 1329.9 | 1259.3 | 1082.6 | 847.1 | 660.2 | 537.6 |
| 45°   | 1244.6 | 1255.9 | 1265.0 | 1279.6 | 1344.0 | 1384.7 | 1281.9 | 1062.8 | 806.4 | 605.9 | 484.0 |
| 47.5° | 1315.2 | 1324.3 | 1340.1 | 1355.9 | 1420.3 | 1422.0 | 1284.2 | 1024.4 | 751.1 | 551.7 | 426.9 |
| 50°   | 1402.2 | 1407.8 | 1431.6 | 1441.2 | 1501.6 | 1460.9 | 1267.8 | 972.4  | 692.9 | 490.7 | 363.7 |
| 52.5° | 1518.0 | 1525.9 | 1556.4 | 1571.0 | 1614.0 | 1514.0 | 1244.6 | 916.0  | 626.3 | 422.4 | 298.7 |
| 55°   | 1746.7 | 1781.1 | 1802.6 | 1828.0 | 1855.7 | 1634.3 | 1234.5 | 855.5  | 551.2 | 343.3 | 236.6 |
| 57.5° | 2388.8 | 2377.5 | 2424.9 | 2482.5 | 2481.9 | 1909.3 | 1295.5 | 803.6  | 462.5 | 262.6 | 181.8 |
| 60°   | 3345.4 | 3356.1 | 3331.8 | 3366.3 | 3256.7 | 2250.4 | 1379.0 | 748.8  | 362.5 | 195.4 | 138.9 |
| 62.5° | 4056.4 | 3994.2 | 3959.8 | 3919.1 | 3678.0 | 2287.7 | 1318.0 | 636.4  | 263.7 | 137.2 | 106.7 |
| 65°   | 4224.6 | 4151.8 | 4077.8 | 4000.5 | 3636.8 | 2062.3 | 1081.4 | 467.0  | 170.5 | 94.3  | 84.7  |
| 67.5° | 4058.6 | 3941.7 | 3847.4 | 3767.8 | 3332.4 | 1709.4 | 790.6  | 286.9  | 97.7  | 76.2  | 72.3  |
| 70°   | 3628.3 | 3499.0 | 3346.5 | 3257.3 | 2806.1 | 1259.9 | 506.6  | 154.7  | 75.1  | 67.8  | 66.1  |
| 72.5° | 2655.9 | 2549.7 | 2383.1 | 2280.9 | 2014.9 | 765.8  | 282.9  | 87.0   | 70.0  | 64.9  | 62.7  |
| 75°   | 1034.6 | 979.2  | 909.8  | 915.4  | 817.1  | 338.8  | 128.2  | 75.1   | 68.3  | 63.8  | 61.6  |
| 77.5° | 177.9  | 173.4  | 160.4  | 160.4  | 182.4  | 123.7  | 85.3   | 75.7   | 67.8  | 62.7  | 58.7  |
| 80°   | 106.7  | 104.5  | 99.4   | 98.3   | 94.9   | 87.0   | 81.9   | 76.8   | 66.6  | 59.3  | 54.2  |
| 82.5° | 70.0   | 67.2   | 65.5   | 64.9   | 70.6   | 76.2   | 76.8   | 76.2   | 63.2  | 51.4  | 44.0  |
| 85°   | 29.9   | 29.9   | 29.9   | 30.5   | 40.7   | 61.6   | 63.2   | 67.8   | 52.0  | 40.1  | 31.6  |
| 87.5° | 5.1    | 6.2    | 6.2    | 6.8    | 7.3    | 13.6   | 16.9   | 22.0   | 17.5  | 16.9  | 15.2  |
| 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):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 519.0 | 519.0 | 519.0 |
| 2.5°  | 504.9 | 503.7 | 503.7 |
| 5°    | 503.2 | 502.0 | 502.6 |
| 7.5°  | 509.9 | 507.7 | 508.2 |
| 10°   | 522.4 | 520.1 | 519.0 |
| 12.5° | 538.2 | 535.4 | 535.4 |
| 15°   | 554.6 | 547.8 | 547.2 |
| 17.5° | 568.1 | 559.6 | 558.5 |
| 20°   | 583.4 | 572.1 | 570.4 |
| 22.5° | 597.5 | 582.2 | 580.0 |
| 25°   | 607.6 | 589.0 | 586.2 |
| 27.5° | 612.2 | 590.1 | 587.9 |
| 30°   | 615.5 | 590.7 | 587.3 |
| 32.5° | 612.2 | 585.6 | 582.8 |
| 35°   | 593.5 | 564.7 | 563.0 |
| 37.5° | 561.3 | 529.1 | 526.9 |
| 40°   | 519.0 | 485.1 | 479.4 |
| 42.5° | 464.8 | 433.1 | 426.9 |
| 45°   | 412.2 | 376.1 | 373.3 |
| 47.5° | 355.8 | 321.3 | 323.0 |
| 50°   | 296.5 | 265.4 | 264.9 |
| 52.5° | 240.0 | 212.9 | 211.2 |
| 55°   | 189.2 | 170.0 | 168.3 |
| 57.5° | 149.7 | 139.5 | 137.8 |
| 60°   | 122.0 | 116.9 | 115.2 |
| 62.5° | 98.3  | 96.6  | 96.0  |
| 65°   | 81.9  | 81.9  | 81.9  |
| 67.5° | 71.2  | 71.7  | 71.7  |
| 70°   | 65.5  | 66.1  | 65.5  |
| 72.5° | 63.2  | 64.9  | 64.9  |
| 75°   | 61.6  | 62.7  | 60.4  |
| 77.5° | 60.4  | 61.0  | 57.0  |
| 80°   | 59.9  | 59.3  | 52.0  |
| 82.5° | 52.0  | 50.3  | 44.0  |
| 85°   | 47.4  | 36.1  | 30.5  |
| 87.5° | 24.3  | 16.9  | 13.0  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)