

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: P472215

Luminaire Tested: **CCP-VA-3-727-U-T2**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472215  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-3-727-U-T2  
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS  
Light Source: 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

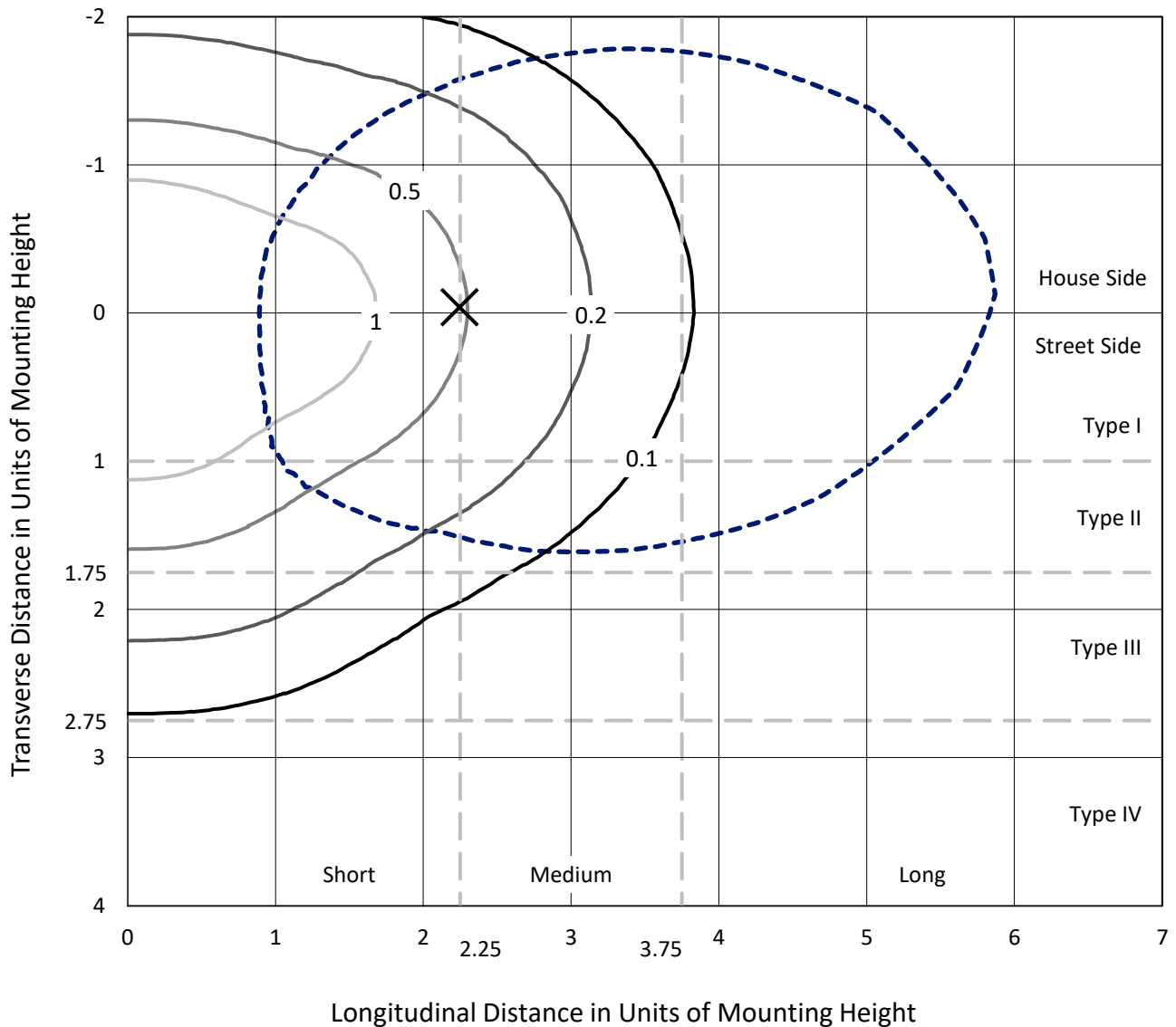
Lumens per Lamp: N/A  
Luminaire Lumens: 4042.8 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 48.3  
Input Voltage (V): 120  
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

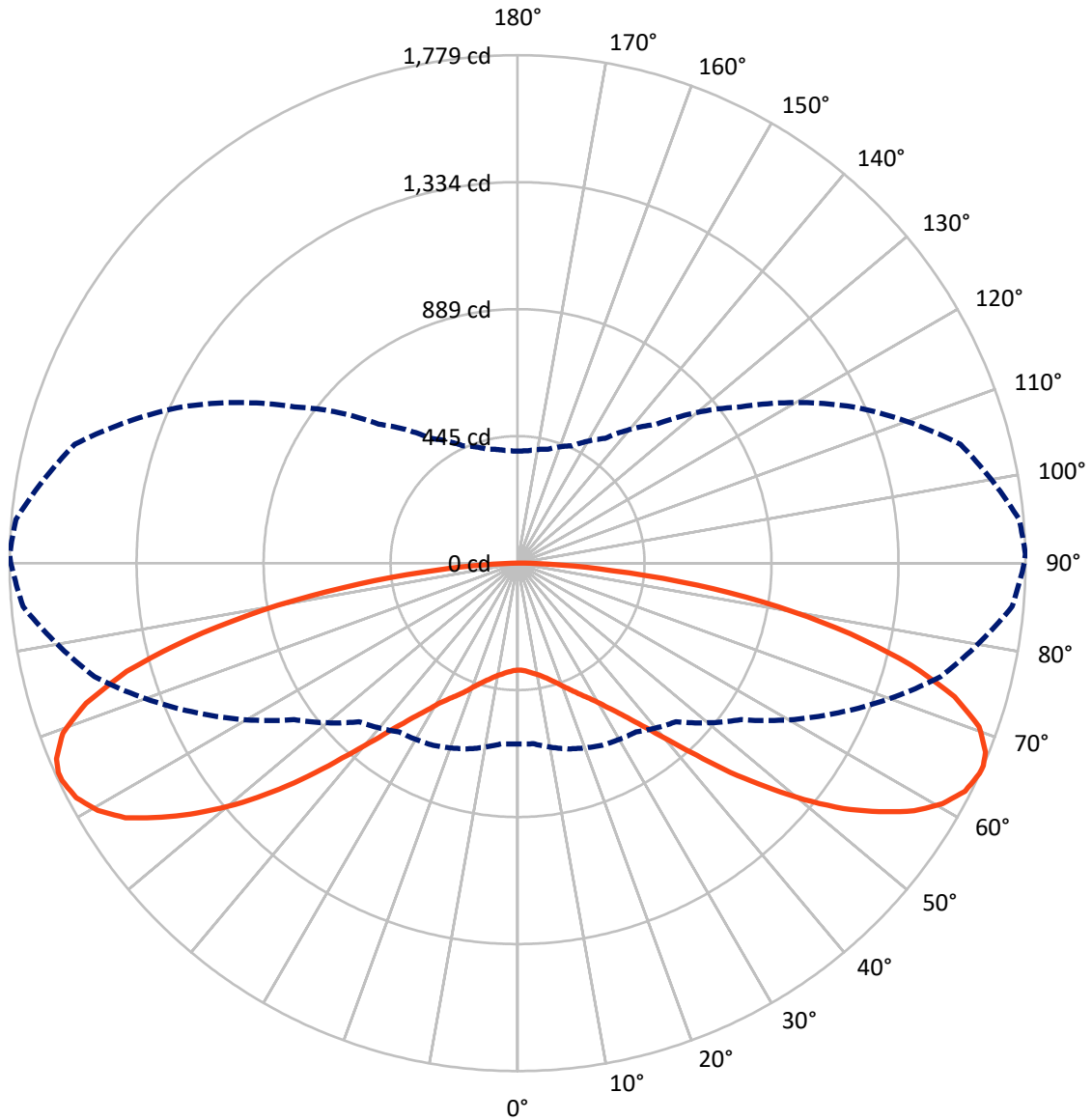
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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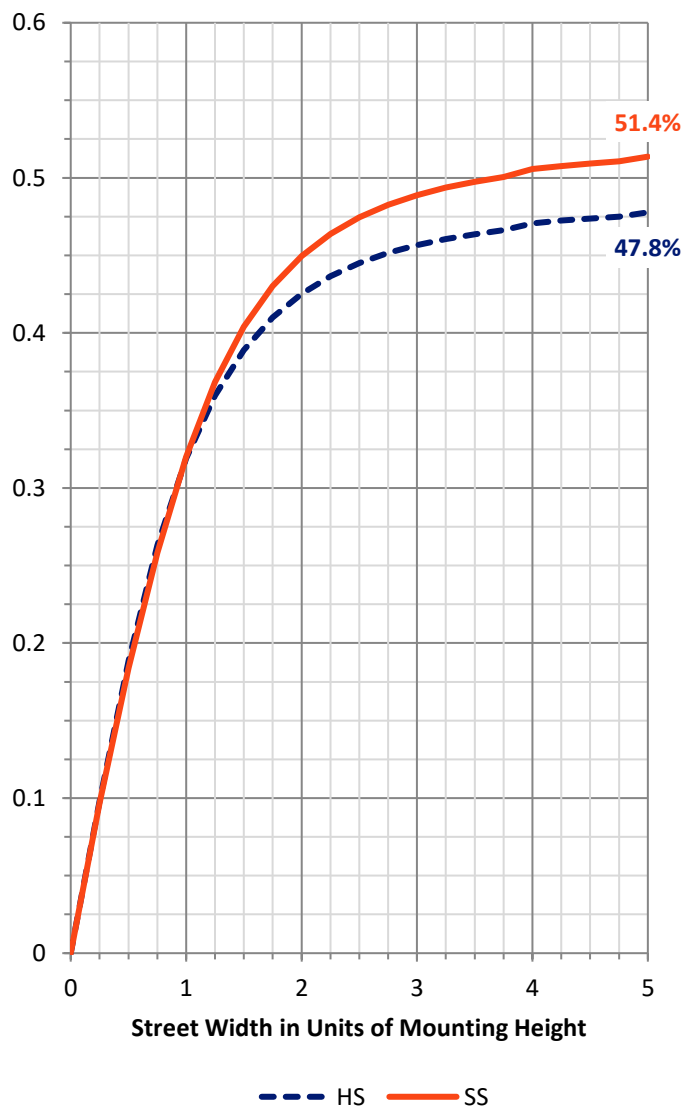
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1951.3   | 0.0    | 1951.3 |
|                    | % Fixture | 48.3     | 0.0    | 48.3   |
| <b>Street Side</b> | Lumens    | 2091.5   | 0.0    | 2091.5 |
|                    | % Fixture | 51.7     | 0.0    | 51.7   |
| <b>Total</b>       | Lumens    | 4042.8   | 0.0    | 4042.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.9   | 0.9       |
| 10°-20°   | 120.7  | 3.0       |
| 20°-30°   | 233.4  | 5.8       |
| 30°-40°   | 383.0  | 9.5       |
| 40°-50°   | 606.6  | 15.0      |
| 50°-60°   | 836.5  | 20.7      |
| 60°-70°   | 939.3  | 23.2      |
| 70°-80°   | 702.0  | 17.4      |
| 80°-90°   | 184.5  | 4.6       |
| 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°    | 4042.8 | 100.0     |
| 0°-180°   | 4042.8 | 100.0     |



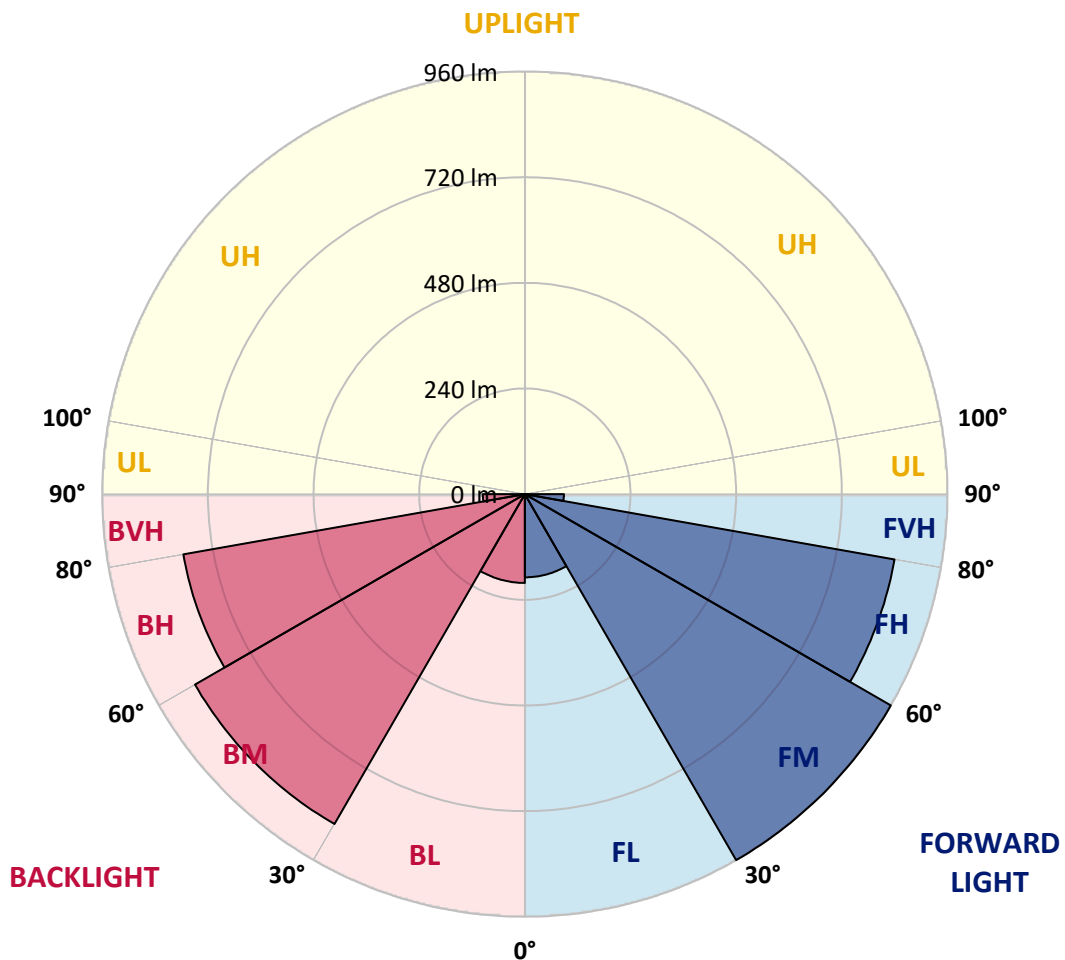
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 189.0  | 4.7       |                         |      |         |
| FM (30°-60°)   | 960.4  | 23.8      |                         |      |         |
| FH (60°-80°)   | 853.2  | 21.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 88.8   | 2.2       |                         |      | G1/100  |
| BL (0°-30°)    | 201.9  | 5.0       | B1/500                  |      |         |
| BM (30°-60°)   | 865.6  | 21.4      | B1/1000                 |      |         |
| BH (60°-80°)   | 788.1  | 19.5      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 95.6   | 2.4       |                         |      | 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°   | 65°    | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°    | 374.6 | 374.6 | 374.6 | 374.6 | 374.6 | 374.6 | 374.6 | 374.6  | 374.6  | 374.6  | 374.6  |
| 2.5°  | 376.0 | 376.0 | 376.0 | 376.0 | 377.5 | 377.5 | 377.5 | 377.5  | 377.5  | 376.0  | 376.0  |
| 5°    | 378.9 | 378.9 | 378.9 | 378.9 | 380.3 | 380.3 | 380.3 | 380.3  | 381.8  | 381.8  | 381.8  |
| 7.5°  | 381.8 | 381.8 | 383.2 | 383.2 | 384.6 | 384.6 | 386.1 | 386.1  | 387.5  | 388.9  | 388.9  |
| 10°   | 387.5 | 387.5 | 388.9 | 388.9 | 391.8 | 393.2 | 394.6 | 394.6  | 397.5  | 397.5  | 397.5  |
| 12.5° | 394.6 | 396.1 | 397.5 | 398.9 | 401.8 | 403.2 | 404.6 | 406.1  | 407.5  | 408.9  | 408.9  |
| 15°   | 406.1 | 404.6 | 407.5 | 410.4 | 411.8 | 414.6 | 416.1 | 417.5  | 420.4  | 423.2  | 423.2  |
| 17.5° | 414.6 | 416.1 | 417.5 | 420.4 | 423.2 | 427.5 | 430.4 | 433.2  | 436.1  | 439.0  | 439.0  |
| 20°   | 426.1 | 424.7 | 430.4 | 434.7 | 437.5 | 443.2 | 447.5 | 453.3  | 456.1  | 459.0  | 460.4  |
| 22.5° | 436.1 | 437.5 | 440.4 | 446.1 | 451.8 | 460.4 | 469.0 | 473.3  | 477.6  | 480.4  | 484.7  |
| 25°   | 449.0 | 450.4 | 454.7 | 460.4 | 469.0 | 479.0 | 489.0 | 494.7  | 499.0  | 504.7  | 509.0  |
| 27.5° | 461.8 | 461.8 | 469.0 | 477.6 | 487.6 | 500.4 | 511.9 | 517.6  | 524.7  | 531.9  | 534.8  |
| 30°   | 476.1 | 476.1 | 483.3 | 494.7 | 509.0 | 523.3 | 533.3 | 544.8  | 554.8  | 561.9  | 567.6  |
| 32.5° | 497.6 | 497.6 | 506.2 | 517.6 | 533.3 | 550.5 | 564.8 | 576.2  | 589.1  | 602.0  | 613.4  |
| 35°   | 521.9 | 523.3 | 534.8 | 549.1 | 567.6 | 589.1 | 602.0 | 617.7  | 632.0  | 653.4  | 664.9  |
| 37.5° | 560.5 | 561.9 | 574.8 | 593.4 | 612.0 | 634.8 | 656.3 | 674.9  | 696.3  | 720.6  | 729.2  |
| 40°   | 617.7 | 622.0 | 634.8 | 643.4 | 660.6 | 677.7 | 709.2 | 740.6  | 777.8  | 810.7  | 816.4  |
| 42.5° | 720.6 | 716.3 | 707.8 | 704.9 | 709.2 | 727.8 | 762.1 | 810.7  | 876.5  | 917.9  | 917.9  |
| 45°   | 760.7 | 760.7 | 762.1 | 759.2 | 756.4 | 769.2 | 809.3 | 886.5  | 979.4  | 1036.6 | 1048.1 |
| 47.5° | 767.8 | 769.2 | 782.1 | 793.6 | 796.4 | 810.7 | 859.3 | 960.8  | 1085.2 | 1169.6 | 1176.7 |
| 50°   | 767.8 | 770.7 | 787.8 | 807.8 | 822.1 | 842.2 | 902.2 | 1026.6 | 1189.6 | 1286.8 | 1305.4 |
| 52.5° | 765.0 | 767.8 | 786.4 | 810.7 | 833.6 | 862.2 | 939.4 | 1095.2 | 1282.6 | 1414.1 | 1422.7 |
| 55°   | 757.8 | 760.7 | 783.5 | 809.3 | 835.0 | 873.6 | 969.4 | 1153.9 | 1372.6 | 1519.9 | 1535.6 |
| 57.5° | 749.2 | 753.5 | 777.8 | 805.0 | 829.3 | 876.5 | 989.4 | 1199.6 | 1445.5 | 1614.3 | 1642.9 |
| 60°   | 732.1 | 739.2 | 766.4 | 793.6 | 816.4 | 866.5 | 999.4 | 1235.4 | 1499.9 | 1682.9 | 1711.5 |
| 62.5° | 697.8 | 704.9 | 734.9 | 765.0 | 787.8 | 842.2 | 993.7 | 1252.5 | 1531.3 | 1725.8 | 1755.8 |
| 65°   | 654.9 | 657.7 | 690.6 | 722.1 | 744.9 | 802.1 | 969.4 | 1249.7 | 1538.5 | 1740.1 | 1774.4 |
| 66°   | 633.4 | 634.8 | 673.4 | 703.5 | 722.1 | 785.0 | 955.1 | 1239.7 | 1534.2 | 1738.7 | 1774.4 |
| 67.5° | 594.8 | 602.0 | 634.8 | 666.3 | 687.7 | 746.4 | 920.8 | 1216.8 | 1517.0 | 1724.4 | 1761.5 |
| 70°   | 527.6 | 533.3 | 560.5 | 591.9 | 614.8 | 670.6 | 846.5 | 1149.6 | 1454.1 | 1665.7 | 1708.6 |
| 72.5° | 454.7 | 459.0 | 487.6 | 510.4 | 524.7 | 584.8 | 756.4 | 1039.5 | 1344.0 | 1555.6 | 1597.1 |
| 75°   | 377.5 | 380.3 | 406.1 | 421.8 | 434.7 | 487.6 | 636.3 | 897.9  | 1171.0 | 1376.9 | 1431.3 |
| 77.5° | 297.4 | 298.8 | 320.3 | 334.6 | 334.6 | 380.3 | 504.7 | 727.8  | 960.8  | 1151.0 | 1191.0 |
| 80°   | 218.8 | 217.3 | 230.2 | 237.4 | 241.6 | 271.7 | 363.2 | 534.8  | 732.1  | 880.8  | 919.4  |
| 82.5° | 143.0 | 141.6 | 150.1 | 153.0 | 153.0 | 171.6 | 228.8 | 338.9  | 480.4  | 597.7  | 620.5  |
| 85°   | 75.8  | 78.6  | 77.2  | 77.2  | 77.2  | 84.4  | 114.4 | 177.3  | 255.9  | 320.3  | 336.0  |
| 87.5° | 12.9  | 12.9  | 12.9  | 14.3  | 17.2  | 22.9  | 30.0  | 50.0   | 72.9   | 98.7   | 111.5  |
| 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):**

|       | 91°    | 95°    | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 374.6  | 374.6  | 374.6  | 374.6  | 374.6 | 374.6 | 374.6 | 374.6 | 374.6 | 374.6 | 374.6 |
| 2.5°  | 376.0  | 377.5  | 377.5  | 377.5  | 377.5 | 377.5 | 377.5 | 377.5 | 377.5 | 377.5 | 377.5 |
| 5°    | 381.8  | 381.8  | 381.8  | 383.2  | 383.2 | 383.2 | 383.2 | 383.2 | 383.2 | 383.2 | 383.2 |
| 7.5°  | 388.9  | 388.9  | 390.3  | 390.3  | 390.3 | 391.8 | 391.8 | 390.3 | 390.3 | 390.3 | 390.3 |
| 10°   | 397.5  | 397.5  | 398.9  | 400.4  | 400.4 | 401.8 | 401.8 | 400.4 | 400.4 | 398.9 | 398.9 |
| 12.5° | 408.9  | 410.4  | 411.8  | 413.2  | 414.6 | 414.6 | 413.2 | 411.8 | 410.4 | 408.9 | 408.9 |
| 15°   | 423.2  | 424.7  | 426.1  | 428.9  | 428.9 | 428.9 | 427.5 | 426.1 | 423.2 | 421.8 | 423.2 |
| 17.5° | 440.4  | 441.8  | 444.7  | 446.1  | 447.5 | 446.1 | 446.1 | 444.7 | 444.7 | 443.2 | 443.2 |
| 20°   | 461.8  | 463.3  | 467.6  | 469.0  | 469.0 | 470.4 | 474.7 | 477.6 | 481.8 | 483.3 | 483.3 |
| 22.5° | 483.3  | 486.1  | 490.4  | 496.1  | 499.0 | 504.7 | 506.2 | 509.0 | 507.6 | 503.3 | 503.3 |
| 25°   | 509.0  | 511.9  | 520.5  | 527.6  | 533.3 | 536.2 | 533.3 | 529.0 | 521.9 | 516.2 | 514.7 |
| 27.5° | 536.2  | 540.5  | 553.3  | 563.3  | 566.2 | 563.3 | 551.9 | 541.9 | 533.3 | 526.2 | 523.3 |
| 30°   | 570.5  | 577.6  | 591.9  | 597.7  | 596.2 | 584.8 | 567.6 | 554.8 | 541.9 | 533.3 | 531.9 |
| 32.5° | 613.4  | 620.5  | 633.4  | 634.8  | 626.3 | 604.8 | 581.9 | 564.8 | 549.1 | 539.0 | 537.6 |
| 35°   | 664.9  | 672.0  | 679.2  | 674.9  | 650.6 | 623.4 | 594.8 | 570.5 | 554.8 | 543.3 | 543.3 |
| 37.5° | 730.6  | 734.9  | 734.9  | 713.5  | 676.3 | 640.6 | 604.8 | 576.2 | 559.1 | 547.6 | 546.2 |
| 40°   | 816.4  | 815.0  | 795.0  | 753.5  | 704.9 | 656.3 | 612.0 | 581.9 | 560.5 | 549.1 | 547.6 |
| 42.5° | 919.4  | 909.4  | 866.5  | 799.3  | 732.1 | 670.6 | 620.5 | 583.4 | 559.1 | 547.6 | 546.2 |
| 45°   | 1045.2 | 1028.0 | 950.8  | 852.2  | 760.7 | 683.5 | 624.8 | 581.9 | 554.8 | 541.9 | 540.5 |
| 47.5° | 1169.6 | 1159.6 | 1053.8 | 907.9  | 789.3 | 697.8 | 627.7 | 577.6 | 546.2 | 527.6 | 527.6 |
| 50°   | 1301.1 | 1276.8 | 1156.7 | 975.1  | 819.3 | 707.8 | 627.7 | 570.5 | 531.9 | 511.9 | 509.0 |
| 52.5° | 1428.4 | 1404.1 | 1261.1 | 1042.3 | 852.2 | 717.8 | 624.8 | 560.5 | 519.0 | 497.6 | 494.7 |
| 55°   | 1537.1 | 1517.0 | 1362.6 | 1118.1 | 886.5 | 724.9 | 620.5 | 549.1 | 506.2 | 486.1 | 483.3 |
| 57.5° | 1637.1 | 1617.1 | 1451.3 | 1182.5 | 919.4 | 729.2 | 610.5 | 534.8 | 490.4 | 470.4 | 469.0 |
| 60°   | 1710.1 | 1694.3 | 1527.0 | 1242.5 | 946.5 | 729.2 | 596.2 | 517.6 | 473.3 | 453.3 | 451.8 |
| 62.5° | 1758.7 | 1743.0 | 1581.4 | 1282.6 | 963.7 | 719.2 | 574.8 | 494.7 | 451.8 | 433.2 | 428.9 |
| 65°   | 1777.3 | 1763.0 | 1605.7 | 1298.3 | 960.8 | 699.2 | 546.2 | 466.1 | 424.7 | 406.1 | 403.2 |
| 66°   | 1778.7 | 1763.0 | 1605.7 | 1295.4 | 953.7 | 687.7 | 533.3 | 453.3 | 413.2 | 394.6 | 391.8 |
| 67.5° | 1767.3 | 1753.0 | 1595.7 | 1281.1 | 933.7 | 666.3 | 507.6 | 431.8 | 391.8 | 373.2 | 371.8 |
| 70°   | 1714.4 | 1702.9 | 1541.3 | 1226.8 | 886.5 | 619.1 | 464.7 | 390.3 | 351.7 | 338.9 | 334.6 |
| 72.5° | 1600.0 | 1587.1 | 1432.7 | 1125.3 | 809.3 | 554.8 | 410.4 | 341.7 | 310.3 | 294.5 | 293.1 |
| 75°   | 1422.7 | 1417.0 | 1266.8 | 990.9  | 697.8 | 477.6 | 347.4 | 288.8 | 263.1 | 251.6 | 251.6 |
| 77.5° | 1191.0 | 1179.6 | 1052.3 | 819.3  | 573.4 | 386.1 | 278.8 | 234.5 | 214.5 | 204.5 | 205.9 |
| 80°   | 926.5  | 917.9  | 810.7  | 614.8  | 433.2 | 290.3 | 208.8 | 178.7 | 164.4 | 158.7 | 155.9 |
| 82.5° | 634.8  | 612.0  | 540.5  | 407.5  | 281.7 | 195.9 | 144.4 | 124.4 | 117.2 | 115.8 | 114.4 |
| 85°   | 330.3  | 338.9  | 284.5  | 215.9  | 153.0 | 108.7 | 87.2  | 80.1  | 77.2  | 78.6  | 78.6  |
| 87.5° | 108.7  | 111.5  | 85.8   | 65.8   | 50.0  | 38.6  | 32.9  | 31.5  | 27.2  | 30.0  | 31.5  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)