

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: P472330

Luminaire Tested: **CCW-VA-2-760-U-T3**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472330  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-2-760-U-T3  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS  
Light Source: 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3817.1 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

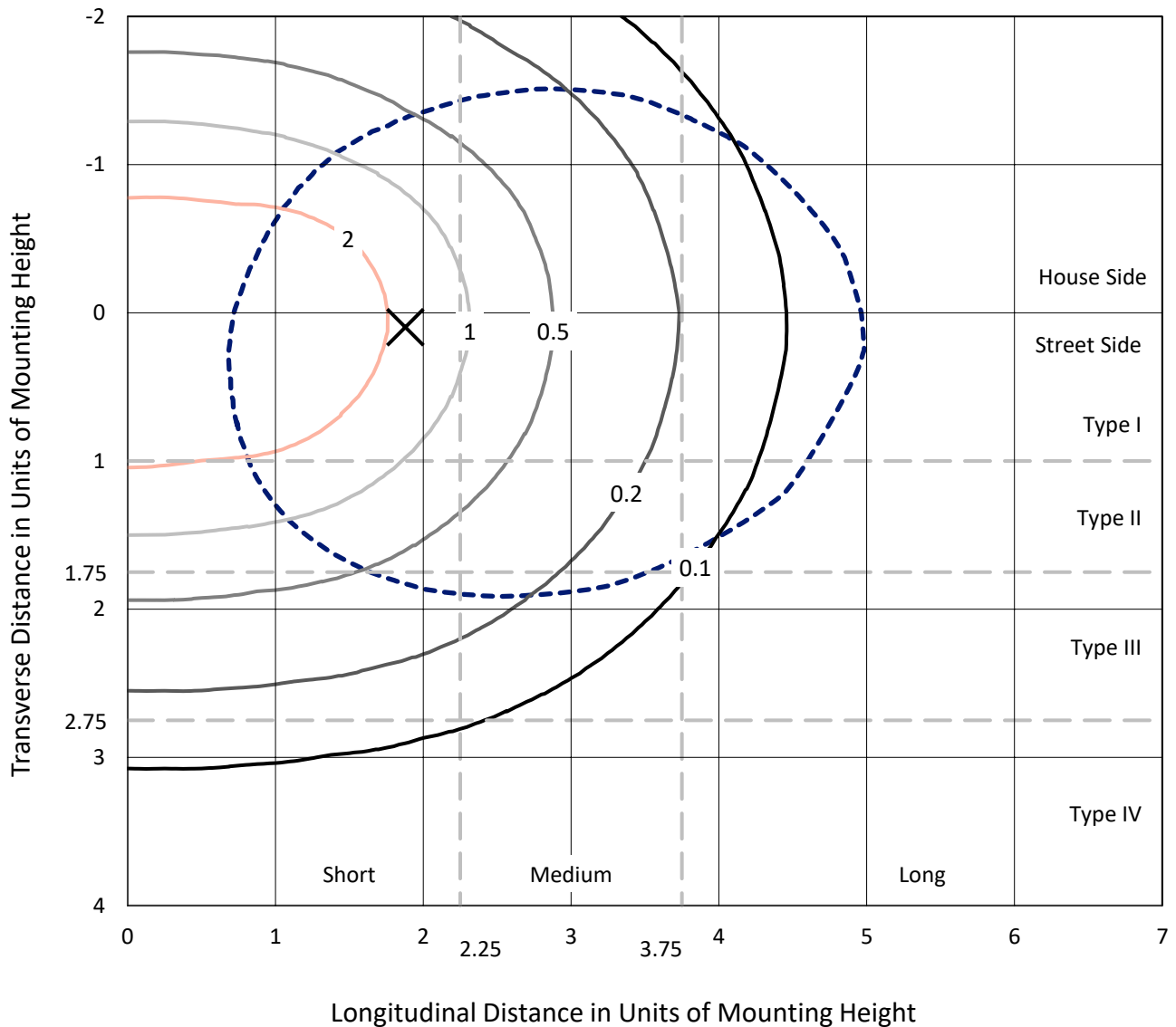
Input Watts (W): 41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

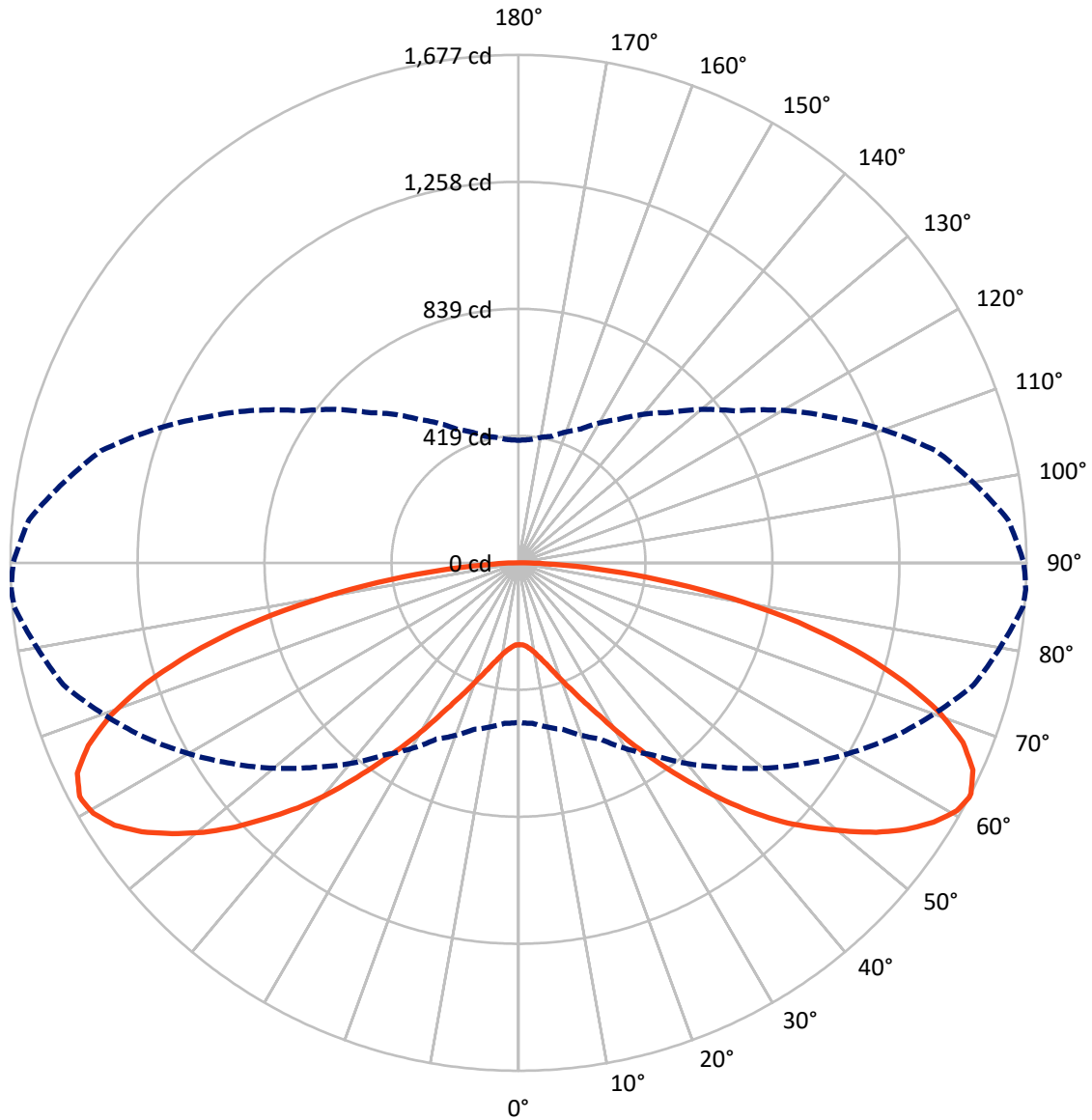
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral    - - - Horizontal Cone Through 62-Deg Vertical

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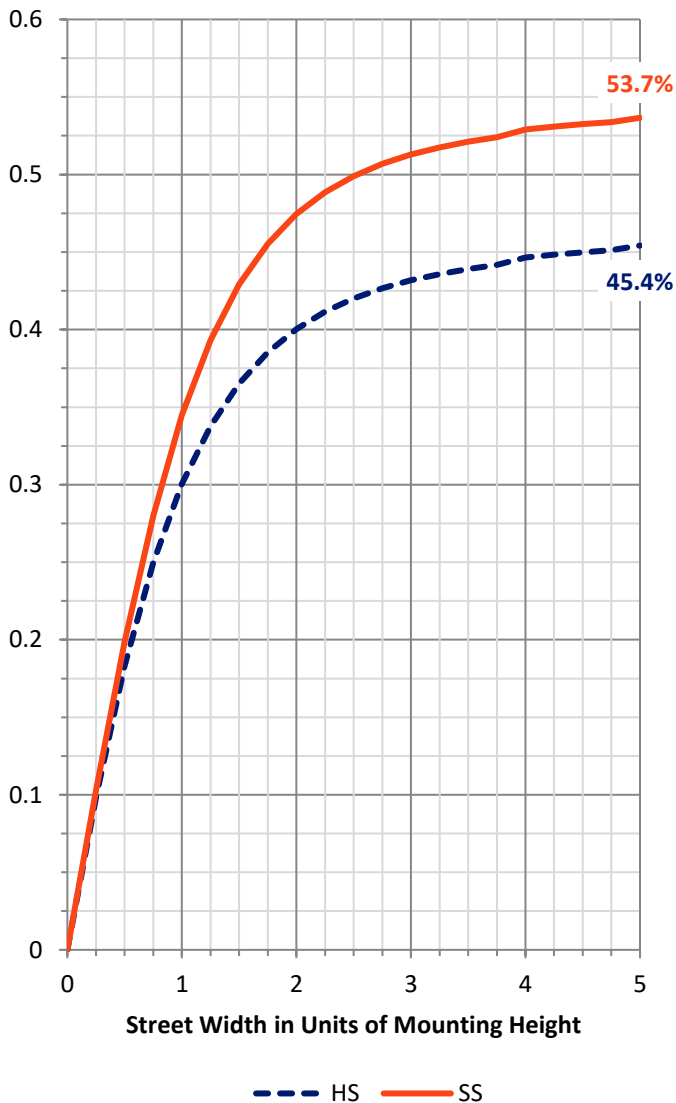
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1757.5   | 0.0    | 1757.5 |
|                    | % Fixture | 46.0     | 0.0    | 46.0   |
| <b>Street Side</b> | Lumens    | 2059.6   | 0.0    | 2059.6 |
|                    | % Fixture | 54.0     | 0.0    | 54.0   |
| <b>Total</b>       | Lumens    | 3817.1   | 0.0    | 3817.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.2   | 0.7       |
| 10°-20°   | 95.9   | 2.5       |
| 20°-30°   | 205.1  | 5.4       |
| 30°-40°   | 378.0  | 9.9       |
| 40°-50°   | 602.8  | 15.8      |
| 50°-60°   | 819.7  | 21.5      |
| 60°-70°   | 888.1  | 23.3      |
| 70°-80°   | 634.6  | 16.6      |
| 80°-90°   | 165.9  | 4.3       |
| 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°    | 3817.1 | 100.0     |
| 0°-180°   | 3817.1 | 100.0     |

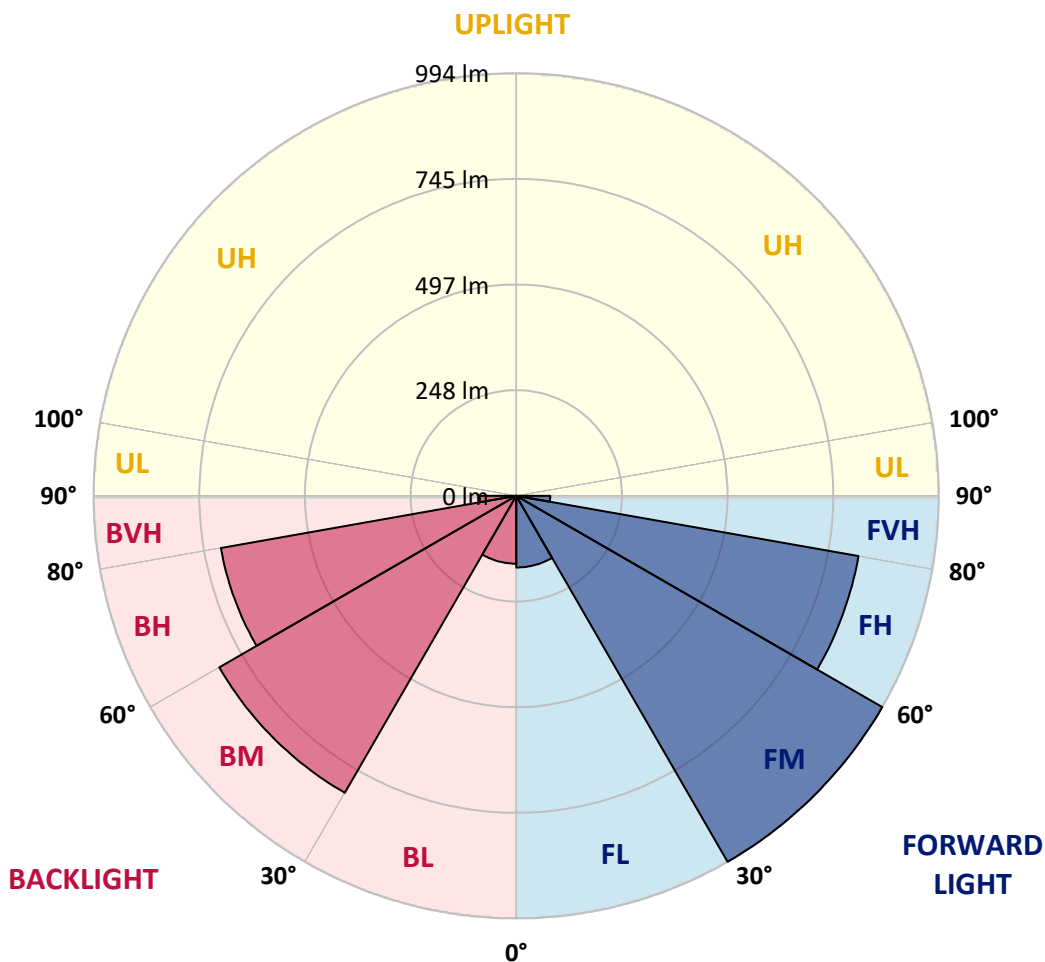


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 168.6  | 4.4       |                         |      |         |
| FM (30°-60°)   | 993.9  | 26.0      |                         |      |         |
| FH (60°-80°)   | 817.2  | 21.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 79.9   | 2.1       |                         |      | G1/100  |
| BL (0°-30°)    | 159.6  | 4.2       | B1/500                  |      |         |
| BM (30°-60°)   | 806.5  | 21.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 705.4  | 18.5      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 86.0   | 2.3       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°    | 65°    | 75°    | 85°    | 87°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1  | 270.1  | 270.1  | 270.1  | 270.1  |
| 2.5°  | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8  | 270.8  | 270.8  | 271.4  | 271.4  |
| 5°    | 272.6 | 272.0 | 272.0 | 272.6 | 273.2 | 273.8 | 275.1  | 275.7  | 276.9  | 278.1  | 277.5  |
| 7.5°  | 278.1 | 278.1 | 278.1 | 278.8 | 280.6 | 281.8 | 283.7  | 285.5  | 287.4  | 288.6  | 288.0  |
| 10°   | 286.8 | 286.8 | 286.8 | 288.0 | 289.8 | 293.5 | 296.6  | 299.7  | 301.5  | 302.8  | 303.4  |
| 12.5° | 296.0 | 296.0 | 297.2 | 299.7 | 303.4 | 308.3 | 313.8  | 318.1  | 321.2  | 322.4  | 323.1  |
| 15°   | 308.9 | 309.5 | 312.0 | 314.4 | 319.4 | 326.7 | 336.0  | 342.1  | 345.2  | 347.7  | 347.1  |
| 17.5° | 328.6 | 328.0 | 329.8 | 335.4 | 340.9 | 351.4 | 362.4  | 372.9  | 379.1  | 379.1  | 379.1  |
| 20°   | 350.7 | 350.1 | 351.4 | 355.7 | 364.9 | 379.1 | 396.3  | 410.4  | 417.2  | 416.0  | 417.2  |
| 22.5° | 375.4 | 375.4 | 376.6 | 380.3 | 389.5 | 409.8 | 433.8  | 454.7  | 464.0  | 460.9  | 459.7  |
| 25°   | 402.4 | 402.4 | 404.3 | 407.4 | 420.3 | 444.9 | 476.9  | 507.0  | 516.3  | 513.2  | 512.0  |
| 27.5° | 433.8 | 431.4 | 435.1 | 438.1 | 454.1 | 486.7 | 528.6  | 566.7  | 587.0  | 576.6  | 572.9  |
| 30°   | 467.0 | 465.2 | 465.8 | 472.0 | 490.4 | 532.3 | 582.1  | 633.2  | 661.5  | 654.7  | 649.2  |
| 32.5° | 496.0 | 497.2 | 499.0 | 509.5 | 530.4 | 580.9 | 638.7  | 705.8  | 737.8  | 736.0  | 734.7  |
| 35°   | 528.6 | 528.6 | 532.3 | 542.1 | 572.9 | 632.6 | 702.7  | 778.4  | 825.8  | 827.6  | 824.0  |
| 37.5° | 554.4 | 554.4 | 560.0 | 572.9 | 609.2 | 680.0 | 766.1  | 855.3  | 912.6  | 922.4  | 919.3  |
| 40°   | 577.2 | 576.0 | 582.1 | 601.2 | 643.7 | 730.4 | 828.3  | 931.6  | 1008.6 | 1025.2 | 1020.9 |
| 42.5° | 590.7 | 592.0 | 600.6 | 624.6 | 676.9 | 774.7 | 889.2  | 1003.6 | 1093.5 | 1121.8 | 1121.8 |
| 45°   | 600.6 | 601.8 | 614.7 | 643.0 | 707.0 | 818.4 | 944.6  | 1077.5 | 1176.5 | 1217.8 | 1219.6 |
| 47.5° | 604.9 | 606.7 | 622.7 | 657.2 | 732.3 | 858.4 | 998.1  | 1143.9 | 1251.0 | 1309.5 | 1305.8 |
| 50°   | 604.9 | 607.3 | 626.4 | 667.7 | 755.0 | 892.3 | 1048.6 | 1207.3 | 1326.7 | 1391.9 | 1391.3 |
| 52.5° | 601.2 | 604.3 | 627.7 | 675.7 | 774.1 | 924.9 | 1093.5 | 1261.5 | 1399.3 | 1476.2 | 1478.7 |
| 55°   | 593.8 | 597.5 | 624.6 | 680.6 | 788.9 | 950.7 | 1129.8 | 1311.9 | 1462.1 | 1548.8 | 1554.4 |
| 57.5° | 579.0 | 582.7 | 613.5 | 676.3 | 794.4 | 964.2 | 1156.2 | 1347.6 | 1513.1 | 1614.7 | 1615.9 |
| 60°   | 554.4 | 558.7 | 592.0 | 662.1 | 788.9 | 964.9 | 1163.0 | 1363.6 | 1547.6 | 1659.0 | 1663.3 |
| 62°   | 527.4 | 532.3 | 569.8 | 642.4 | 774.7 | 955.0 | 1155.6 | 1363.0 | 1556.8 | 1671.9 | 1677.4 |
| 62.5° | 520.6 | 524.9 | 563.0 | 635.7 | 769.2 | 950.1 | 1151.3 | 1359.9 | 1555.6 | 1672.5 | 1676.8 |
| 65°   | 478.7 | 483.0 | 521.8 | 598.7 | 735.3 | 919.9 | 1119.9 | 1332.8 | 1533.4 | 1647.9 | 1649.1 |
| 67.5° | 432.6 | 436.9 | 475.7 | 548.3 | 686.7 | 869.5 | 1067.0 | 1279.3 | 1474.4 | 1573.4 | 1582.7 |
| 70°   | 379.1 | 385.2 | 420.9 | 492.9 | 622.7 | 796.9 | 983.3  | 1194.4 | 1380.2 | 1464.5 | 1473.1 |
| 72.5° | 326.1 | 330.4 | 358.7 | 422.1 | 539.7 | 701.5 | 875.0  | 1065.8 | 1235.0 | 1315.0 | 1322.4 |
| 75°   | 264.6 | 268.3 | 296.0 | 348.3 | 446.7 | 584.6 | 748.3  | 915.0  | 1068.9 | 1140.9 | 1146.4 |
| 77.5° | 208.6 | 209.8 | 229.5 | 271.4 | 347.1 | 458.4 | 593.8  | 725.5  | 865.2  | 930.4  | 945.2  |
| 80°   | 147.1 | 153.2 | 166.8 | 195.7 | 243.7 | 328.6 | 426.4  | 539.0  | 636.9  | 710.1  | 715.0  |
| 82.5° | 95.4  | 96.6  | 105.2 | 115.7 | 150.1 | 207.4 | 271.4  | 340.9  | 428.3  | 475.7  | 472.0  |
| 85°   | 49.8  | 49.8  | 52.9  | 56.0  | 67.7  | 92.9  | 131.1  | 179.7  | 230.8  | 266.4  | 261.5  |
| 87.5° | 8.6   | 8.0   | 8.6   | 8.0   | 10.5  | 14.8  | 27.7   | 44.9   | 67.7   | 80.0   | 88.0   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 270.1  | 270.1  | 270.1  | 270.1  | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 |
| 2.5°  | 271.4  | 271.4  | 272.0  | 273.2  | 273.2 | 273.8 | 274.4 | 274.4 | 275.1 | 275.7 | 275.7 |
| 5°    | 278.8  | 278.8  | 279.4  | 280.6  | 281.2 | 281.2 | 281.8 | 282.4 | 282.4 | 282.4 | 283.1 |
| 7.5°  | 288.6  | 289.2  | 289.8  | 290.4  | 291.1 | 291.1 | 292.9 | 292.3 | 292.3 | 292.3 | 292.3 |
| 10°   | 302.8  | 304.0  | 304.0  | 304.0  | 304.0 | 303.4 | 304.0 | 303.4 | 302.1 | 302.1 | 301.5 |
| 12.5° | 323.7  | 323.7  | 322.4  | 321.2  | 319.4 | 318.7 | 318.1 | 316.3 | 313.8 | 312.6 | 312.6 |
| 15°   | 347.7  | 346.4  | 344.0  | 341.5  | 338.4 | 336.0 | 331.7 | 329.2 | 326.1 | 324.9 | 324.9 |
| 17.5° | 378.4  | 376.6  | 369.8  | 364.9  | 357.5 | 352.0 | 347.1 | 342.1 | 338.4 | 337.2 | 336.6 |
| 20°   | 413.5  | 409.2  | 399.4  | 388.3  | 378.4 | 369.8 | 360.6 | 354.4 | 350.7 | 347.7 | 347.1 |
| 22.5° | 457.8  | 451.7  | 434.4  | 417.2  | 399.4 | 387.1 | 375.4 | 366.7 | 360.0 | 356.9 | 355.7 |
| 25°   | 505.8  | 496.6  | 474.4  | 448.6  | 424.0 | 404.9 | 390.1 | 378.4 | 370.4 | 365.5 | 364.3 |
| 27.5° | 566.7  | 553.2  | 520.6  | 481.8  | 449.2 | 425.2 | 404.9 | 391.4 | 380.9 | 373.5 | 372.3 |
| 30°   | 638.1  | 624.0  | 569.8  | 518.7  | 477.5 | 443.7 | 421.5 | 403.7 | 390.7 | 382.1 | 380.3 |
| 32.5° | 723.0  | 697.2  | 635.0  | 563.0  | 506.4 | 465.2 | 436.9 | 416.0 | 400.0 | 390.1 | 387.7 |
| 35°   | 809.2  | 782.7  | 700.9  | 609.8  | 537.2 | 487.4 | 453.5 | 428.3 | 410.4 | 398.1 | 396.9 |
| 37.5° | 905.8  | 873.8  | 777.8  | 662.7  | 570.4 | 510.7 | 468.9 | 440.0 | 418.4 | 405.5 | 404.3 |
| 40°   | 1009.8 | 977.2  | 860.3  | 723.6  | 609.8 | 533.5 | 483.7 | 451.0 | 427.1 | 412.9 | 411.1 |
| 42.5° | 1111.9 | 1073.2 | 943.9  | 784.6  | 649.8 | 558.7 | 500.9 | 462.7 | 434.4 | 419.7 | 417.2 |
| 45°   | 1200.5 | 1166.7 | 1028.9 | 854.7  | 696.0 | 584.6 | 518.1 | 473.8 | 442.4 | 425.8 | 423.4 |
| 47.5° | 1300.8 | 1264.5 | 1121.8 | 919.3  | 740.3 | 614.1 | 534.7 | 483.7 | 449.2 | 431.4 | 429.5 |
| 50°   | 1389.5 | 1356.8 | 1204.2 | 979.0  | 782.7 | 641.8 | 550.1 | 492.9 | 454.7 | 435.7 | 433.2 |
| 52.5° | 1470.1 | 1441.1 | 1279.9 | 1035.0 | 819.0 | 667.7 | 564.3 | 499.7 | 458.4 | 437.5 | 434.4 |
| 55°   | 1551.3 | 1513.8 | 1345.8 | 1084.2 | 847.9 | 688.0 | 576.0 | 502.7 | 457.8 | 436.3 | 433.2 |
| 57.5° | 1612.2 | 1576.5 | 1393.8 | 1119.3 | 869.5 | 701.5 | 582.7 | 502.1 | 454.1 | 430.7 | 427.1 |
| 60°   | 1653.4 | 1614.1 | 1422.1 | 1136.5 | 876.9 | 705.8 | 582.7 | 496.6 | 444.9 | 419.7 | 416.0 |
| 62°   | 1668.8 | 1623.3 | 1427.6 | 1139.0 | 873.8 | 701.5 | 578.4 | 487.4 | 432.6 | 408.0 | 404.3 |
| 62.5° | 1669.4 | 1622.7 | 1425.8 | 1137.2 | 871.9 | 699.7 | 576.0 | 484.3 | 429.5 | 404.3 | 400.6 |
| 65°   | 1642.4 | 1595.6 | 1403.6 | 1118.1 | 851.0 | 683.0 | 558.7 | 466.4 | 408.0 | 383.4 | 379.7 |
| 67.5° | 1564.8 | 1529.1 | 1350.7 | 1073.8 | 815.3 | 652.3 | 533.5 | 440.6 | 382.7 | 356.9 | 355.1 |
| 70°   | 1457.1 | 1424.5 | 1264.5 | 1006.7 | 763.6 | 608.0 | 496.0 | 406.1 | 350.7 | 327.4 | 323.1 |
| 72.5° | 1321.8 | 1279.3 | 1142.1 | 916.9  | 689.2 | 547.0 | 446.7 | 363.1 | 313.8 | 292.9 | 290.4 |
| 75°   | 1153.8 | 1102.7 | 988.2  | 798.1  | 600.0 | 473.8 | 389.5 | 315.1 | 271.4 | 253.5 | 255.4 |
| 77.5° | 939.6  | 915.6  | 798.7  | 636.3  | 488.6 | 392.0 | 319.4 | 267.1 | 229.5 | 214.8 | 213.5 |
| 80°   | 709.5  | 686.7  | 604.9  | 483.0  | 369.2 | 296.6 | 247.4 | 210.4 | 184.6 | 171.7 | 171.1 |
| 82.5° | 481.2  | 459.7  | 397.5  | 324.3  | 251.7 | 209.8 | 179.1 | 155.1 | 139.1 | 132.9 | 132.9 |
| 85°   | 264.6  | 246.1  | 210.4  | 175.4  | 142.1 | 120.0 | 115.7 | 103.4 | 99.1  | 97.8  | 99.1  |
| 87.5° | 82.5   | 81.8   | 69.5   | 57.2   | 49.8  | 50.5  | 45.5  | 46.8  | 44.3  | 43.7  | 46.8  |
| 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)