

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:

Luminaire Tested: **ENV-SA1B-740-U-T3-ULG**

Issue Date: 3/30/2022

**Test Information**

Test Method: LM-79-08  
Report Number:  
REPORT IS A COMBINATION OF REPORTS P401152 AND P226775  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1B-740-U-T3-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5263.9 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')  
IES Classification: Type III - Short  
BUG Rating: B1 - U5 - G1

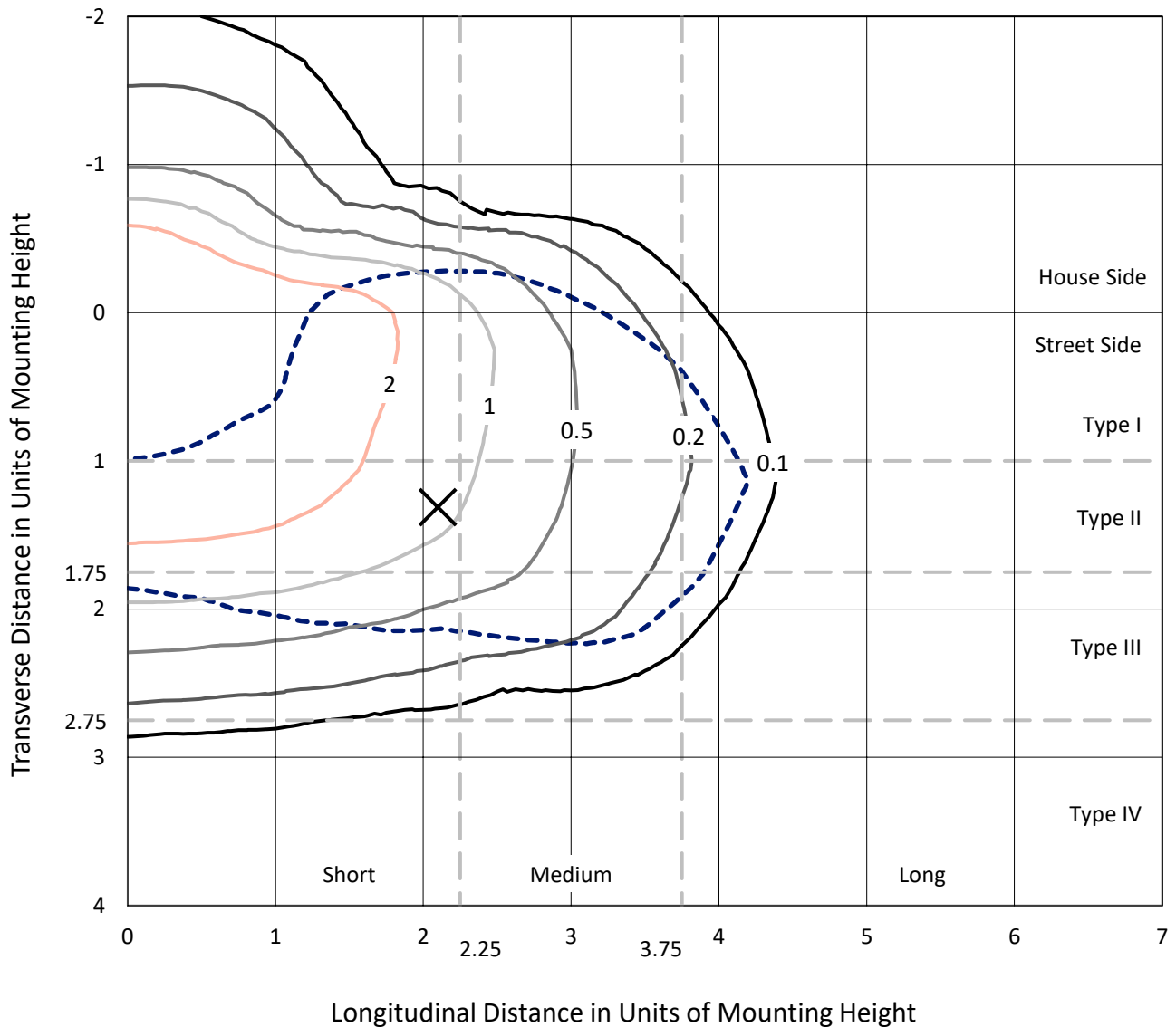
Input Watts (W): 42.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER:  
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### Iso-Footcandle Lines of Horizontal Illumination

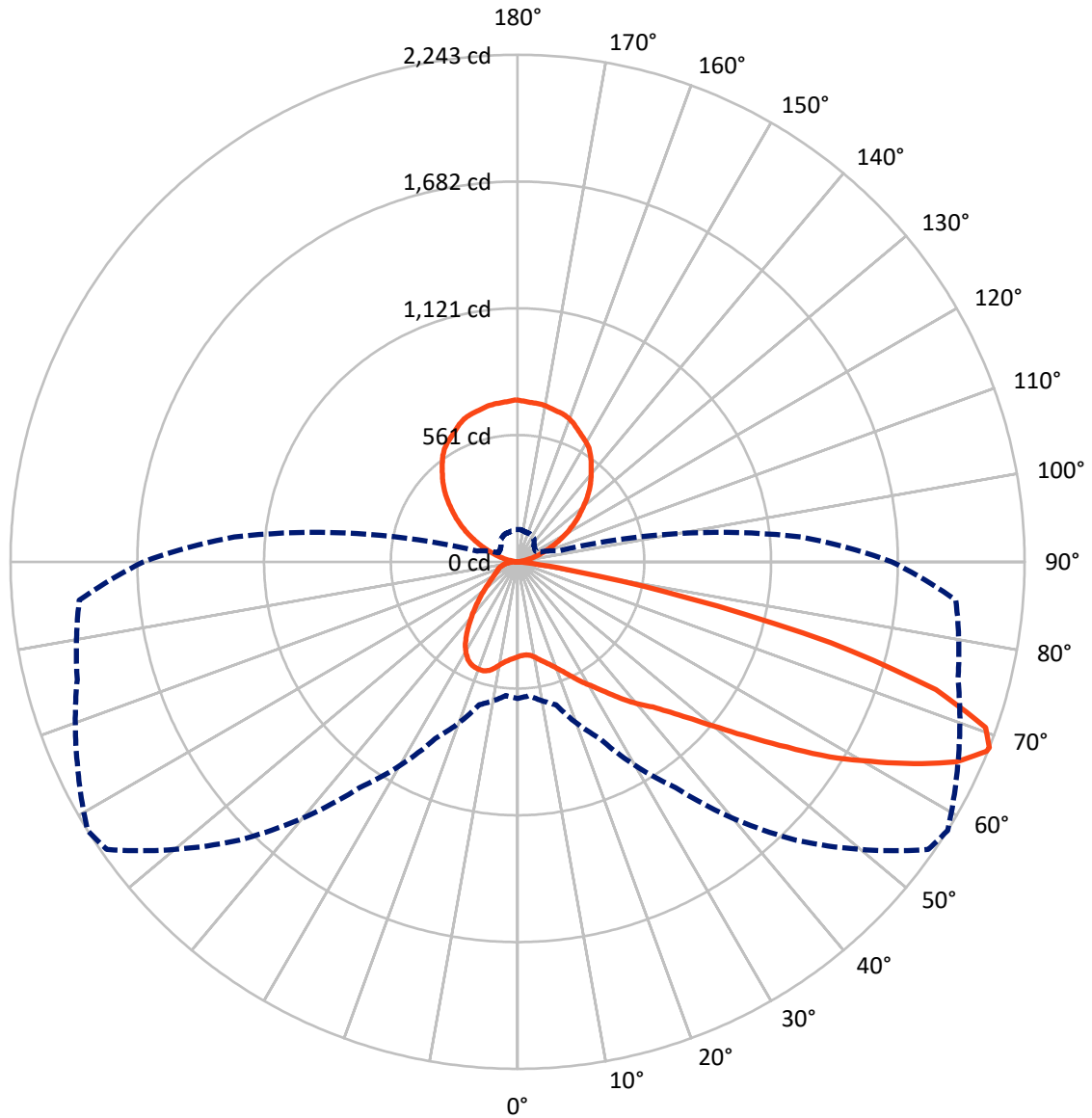
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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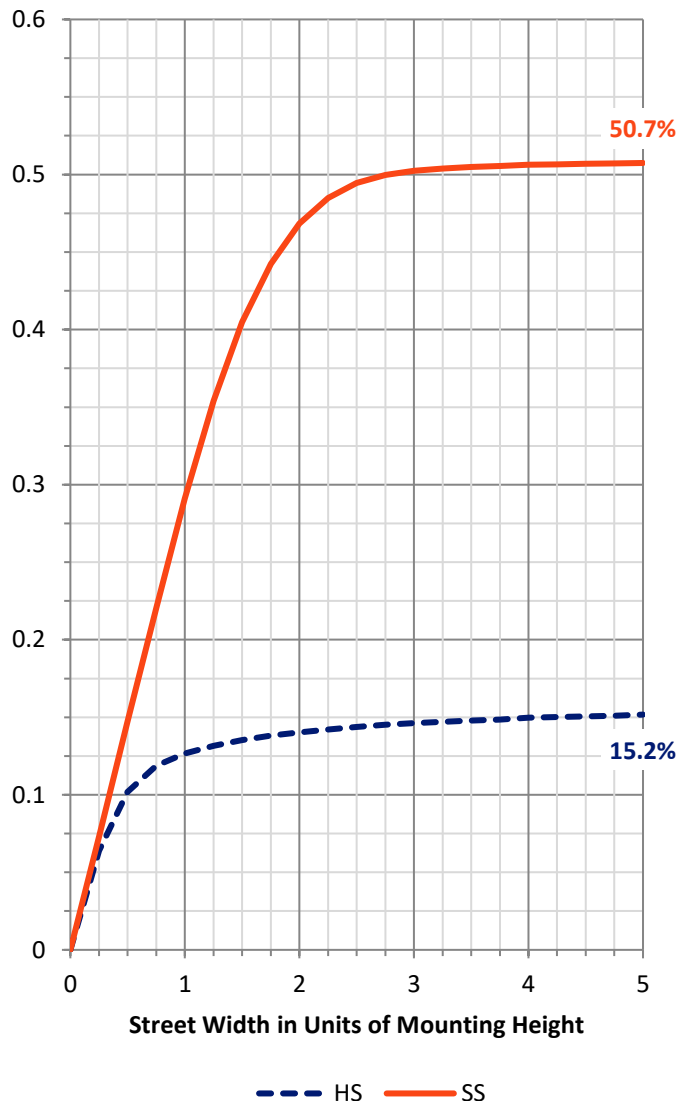
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 817.2    | 887.0  | 1704.1 |
|                    | % Fixture | 15.5     | 16.8   | 32.4   |
| <b>Street Side</b> | Lumens    | 2672.8   | 887.0  | 3559.8 |
|                    | % Fixture | 50.8     | 16.8   | 67.6   |
| <b>Total</b>       | Lumens    | 3490.0   | 1773.9 | 5263.9 |
|                    | % Fixture | 66.3     | 33.7   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.3   | 0.8       |
| 10°-20°   | 135.0  | 2.6       |
| 20°-30°   | 242.8  | 4.6       |
| 30°-40°   | 356.7  | 6.8       |
| 40°-50°   | 523.1  | 9.9       |
| 50°-60°   | 782.0  | 14.9      |
| 60°-70°   | 914.3  | 17.4      |
| 70°-80°   | 450.8  | 8.6       |
| 80°-90°   | 44.0   | 0.8       |
| 90°-100°  | 8.4    | 0.2       |
| 100°-110° | 58.7   | 1.1       |
| 110°-120° | 169.9  | 3.2       |
| 120°-130° | 279.4  | 5.3       |
| 130°-140° | 344.6  | 6.5       |
| 140°-150° | 352.5  | 6.7       |
| 150°-160° | 297.0  | 5.6       |
| 160°-170° | 195.5  | 3.7       |
| 170°-180° | 67.8   | 1.3       |
| 0°-90°    | 3490.0 | 66.3      |
| 0°-180°   | 5263.9 | 100.0     |

**Coefficient of Utilization**

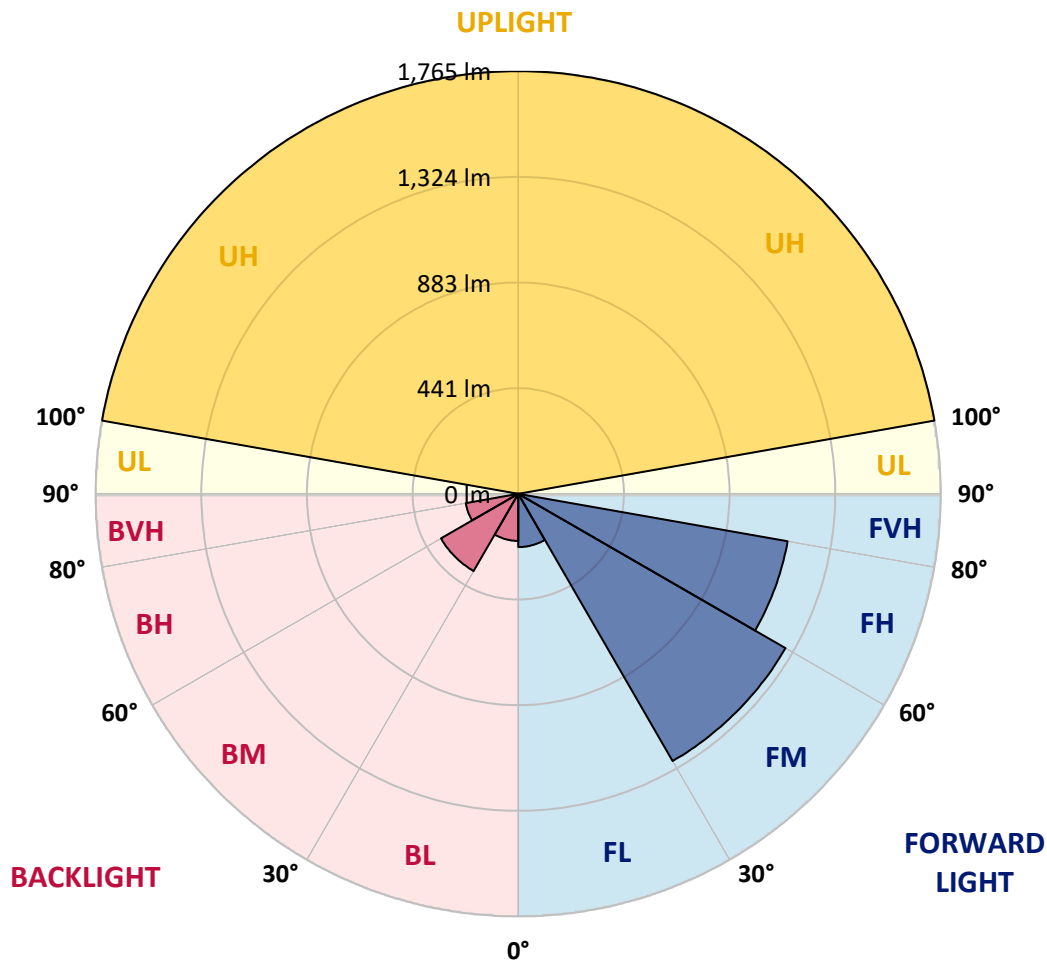


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|----------------|--------|-----------|-------------------------|-------|---------|
|                |        |           | B                       | U     | G       |
| FL (0°-30°)    | 222.3  | 4.2       |                         |       |         |
| FM (30°-60°)   | 1289.1 | 24.5      |                         |       |         |
| FH (60°-80°)   | 1142.5 | 21.7      |                         |       | G1/1800 |
| FVH (80°-90°)  | 18.9   | 0.4       |                         |       | G1/100  |
| BL (0°-30°)    | 196.8  | 3.7       | B1/500                  |       |         |
| BM (30°-60°)   | 372.7  | 7.1       | B1/1000                 |       |         |
| BH (60°-80°)   | 222.7  | 4.2       | B1/500                  |       | G1/500  |
| BVH (80°-90°)  | 25.1   | 0.5       |                         |       | G1/100  |
| UL (90°-100°)  | 8.4    | 0.2       |                         | U1/10 |         |
| UH (100°-180°) | 1765.5 | 33.5      |                         | U5    |         |

**BUG Rating: B1-U5-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  |
| 2.5°   | 408.9  | 408.9  | 410.3  | 410.8  | 411.8  | 412.8  | 413.7  | 414.2  | 415.7  | 417.6  | 418.6  |
| 5°     | 405.5  | 405.9  | 406.9  | 407.4  | 408.9  | 410.8  | 412.3  | 413.3  | 415.7  | 419.6  | 422.0  |
| 7.5°   | 413.3  | 414.7  | 415.2  | 415.7  | 416.2  | 417.6  | 417.6  | 418.1  | 420.6  | 424.5  | 427.9  |
| 10°    | 425.9  | 426.9  | 428.4  | 429.8  | 431.3  | 432.3  | 429.3  | 429.8  | 430.8  | 434.7  | 439.6  |
| 12.5°  | 442.0  | 442.0  | 442.5  | 444.4  | 445.9  | 448.8  | 445.9  | 445.9  | 445.9  | 449.3  | 455.2  |
| 15°    | 460.0  | 459.1  | 459.1  | 461.0  | 461.5  | 463.4  | 462.0  | 462.0  | 463.9  | 467.3  | 473.2  |
| 17.5°  | 480.5  | 482.0  | 480.5  | 479.5  | 478.1  | 479.0  | 480.0  | 481.0  | 484.9  | 490.3  | 493.7  |
| 20°    | 510.2  | 512.7  | 511.7  | 507.8  | 501.5  | 498.5  | 501.9  | 503.9  | 511.7  | 518.0  | 518.5  |
| 22.5°  | 557.5  | 556.0  | 554.6  | 547.8  | 535.1  | 527.3  | 527.8  | 530.7  | 542.9  | 552.6  | 547.8  |
| 25°    | 601.4  | 602.8  | 602.8  | 593.1  | 576.5  | 560.4  | 561.9  | 563.4  | 575.5  | 584.3  | 571.1  |
| 27.5°  | 654.5  | 653.5  | 653.0  | 639.9  | 619.9  | 604.3  | 596.0  | 599.9  | 608.7  | 612.1  | 586.7  |
| 30°    | 709.5  | 713.4  | 709.5  | 691.0  | 672.0  | 652.0  | 635.5  | 634.5  | 638.9  | 638.4  | 605.3  |
| 32.5°  | 775.8  | 772.4  | 771.0  | 749.5  | 725.6  | 699.3  | 678.4  | 674.9  | 672.5  | 669.1  | 627.2  |
| 35°    | 827.0  | 831.4  | 831.4  | 812.9  | 784.6  | 758.8  | 726.1  | 723.2  | 717.3  | 706.1  | 655.9  |
| 37.5°  | 887.4  | 886.4  | 889.9  | 868.4  | 840.2  | 815.3  | 785.1  | 776.8  | 763.6  | 747.1  | 690.1  |
| 40°    | 946.4  | 948.8  | 956.6  | 930.8  | 905.0  | 885.5  | 842.6  | 827.5  | 807.5  | 792.4  | 739.8  |
| 42.5°  | 1026.8 | 1030.2 | 1033.1 | 1011.7 | 981.0  | 963.4  | 897.2  | 878.2  | 867.0  | 864.0  | 805.6  |
| 45°    | 1124.3 | 1130.1 | 1132.5 | 1113.1 | 1095.5 | 1053.6 | 965.9  | 948.3  | 936.2  | 948.8  | 895.2  |
| 47.5°  | 1217.8 | 1214.9 | 1226.1 | 1225.6 | 1227.6 | 1177.4 | 1064.8 | 1038.5 | 1026.8 | 1059.0 | 998.0  |
| 50°    | 1270.5 | 1274.8 | 1299.2 | 1324.1 | 1358.7 | 1322.6 | 1179.3 | 1153.0 | 1139.4 | 1179.3 | 1118.9 |
| 52.5°  | 1297.8 | 1303.6 | 1336.3 | 1405.9 | 1479.5 | 1462.5 | 1317.2 | 1288.0 | 1276.3 | 1315.3 | 1248.5 |
| 55°    | 1300.2 | 1303.6 | 1347.5 | 1455.6 | 1571.6 | 1577.0 | 1474.7 | 1446.9 | 1430.8 | 1456.1 | 1389.9 |
| 57.5°  | 1259.7 | 1249.5 | 1325.0 | 1463.0 | 1630.6 | 1696.4 | 1647.7 | 1627.7 | 1582.4 | 1609.6 | 1565.3 |
| 60°    | 1187.6 | 1197.9 | 1271.9 | 1432.7 | 1655.5 | 1789.5 | 1821.1 | 1790.9 | 1738.3 | 1749.5 | 1754.4 |
| 62.5°  | 1078.5 | 1091.6 | 1168.6 | 1362.6 | 1635.5 | 1868.4 | 1981.5 | 1966.4 | 1895.7 | 1889.9 | 1898.6 |
| 65°    | 923.0  | 915.2  | 1001.0 | 1209.1 | 1540.9 | 1894.7 | 2138.9 | 2132.5 | 2048.2 | 1979.5 | 1982.9 |
| 67.5°  | 665.7  | 658.4  | 718.3  | 933.2  | 1285.1 | 1796.8 | 2222.7 | 2236.8 | 2140.3 | 2019.0 | 1966.4 |
| 68°    | 604.3  | 594.1  | 654.0  | 862.6  | 1219.3 | 1740.2 | 2218.3 | 2242.7 | 2147.2 | 2016.6 | 1945.9 |
| 70°    | 348.0  | 331.4  | 389.4  | 562.9  | 897.7  | 1464.9 | 2128.6 | 2195.9 | 2131.1 | 1969.3 | 1811.9 |
| 72.5°  | 109.2  | 109.2  | 150.6  | 227.6  | 440.5  | 926.9  | 1821.1 | 1935.7 | 1949.3 | 1790.0 | 1505.8 |
| 75°    | 68.2   | 68.2   | 78.5   | 107.7  | 175.4  | 393.3  | 1256.3 | 1430.8 | 1548.7 | 1506.8 | 1097.9 |
| 77.5°  | 46.3   | 45.3   | 52.1   | 66.8   | 98.0   | 126.2  | 630.6  | 774.9  | 947.4  | 1028.7 | 642.3  |
| 80°    | 25.3   | 25.8   | 32.2   | 40.0   | 55.6   | 58.5   | 185.2  | 261.7  | 417.2  | 488.8  | 243.7  |
| 82.5°  | 14.6   | 14.1   | 15.6   | 17.5   | 24.4   | 25.3   | 53.1   | 65.3   | 109.2  | 101.4  | 65.3   |
| 85°    | 0.0    | 0.5    | 0.5    | 0.5    | 1.0    | 2.4    | 6.8    | 10.2   | 16.6   | 22.9   | 16.1   |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    | 1.0    | 1.5    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 4.1    | 4.1    | 5.1    | 6.1    | 6.1    | 6.1    | 7.2    | 7.2    | 7.2    | 6.1    | 6.1    |
| 95°    | 5.1    | 5.1    | 6.1    | 7.2    | 7.2    | 7.2    | 7.2    | 7.5    | 8.2    | 7.2    | 7.2    |
| 97.5°  | 7.2    | 7.2    | 8.2    | 8.2    | 9.2    | 9.2    | 12.3   | 11.7   | 10.2   | 9.2    | 8.2    |
| 100°   | 8.2    | 8.2    | 9.2    | 10.2   | 12.3   | 21.5   | 29.7   | 28.7   | 26.6   | 23.5   | 19.4   |
| 102.5° | 11.3   | 11.3   | 13.3   | 18.4   | 27.6   | 40.9   | 51.1   | 50.2   | 48.1   | 43.0   | 39.9   |
| 105°   | 21.5   | 22.5   | 27.6   | 36.8   | 49.1   | 64.4   | 73.7   | 73.0   | 71.6   | 66.5   | 62.4   |
| 107.5° | 41.9   | 43.0   | 50.1   | 59.3   | 74.7   | 90.0   | 97.2   | 96.9   | 96.2   | 92.1   | 89.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 58°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 67.5  | 69.6  | 75.7  | 89.0  | 104.3 | 116.6 | 122.8 | 123.1 | 123.8 | 121.7 | 118.7 |
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 137.1 | 146.3 | 151.4 | 152.0 | 153.4 | 152.4 | 150.4 |
| 115°   | 143.2 | 142.2 | 150.4 | 162.6 | 171.9 | 178.0 | 183.1 | 184.0 | 186.2 | 183.1 | 181.1 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.6 | 209.7 | 215.8 | 217.1 | 219.9 | 214.8 | 212.8 |
| 120°   | 230.2 | 228.1 | 231.2 | 238.3 | 242.4 | 248.6 | 251.6 | 252.9 | 255.7 | 250.6 | 248.6 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 277.2 | 283.4 | 285.4 | 286.6 | 289.5 | 284.4 | 282.3 |
| 125°   | 304.8 | 300.7 | 302.8 | 305.9 | 312.0 | 317.1 | 320.2 | 320.8 | 322.2 | 317.1 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.8 | 347.8 | 352.9 | 353.2 | 353.9 | 353.9 | 352.9 |
| 130°   | 371.3 | 369.3 | 370.3 | 374.4 | 378.5 | 380.5 | 385.7 | 386.9 | 389.7 | 389.7 | 387.7 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.3 | 414.3 | 420.4 | 422.0 | 425.5 | 423.5 | 423.5 |
| 135°   | 438.8 | 435.8 | 435.8 | 441.9 | 445.0 | 447.0 | 453.2 | 454.7 | 458.3 | 457.3 | 460.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.6 | 478.7 | 483.9 | 484.5 | 485.9 | 486.9 | 492.0 |
| 140°   | 499.2 | 496.1 | 498.2 | 500.2 | 502.3 | 508.4 | 511.5 | 512.1 | 513.5 | 515.6 | 520.7 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 533.0 | 537.0 | 539.1 | 541.0 | 545.2 | 545.2 | 546.3 |
| 145°   | 562.6 | 558.5 | 556.5 | 559.6 | 562.6 | 563.6 | 568.8 | 570.6 | 574.9 | 573.9 | 570.8 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 588.2 | 593.3 | 594.9 | 598.4 | 599.4 | 596.4 |
| 150°   | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 610.7 | 611.6 | 613.8 | 616.8 | 619.9 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 624.0 | 624.0 | 625.0 | 626.0 | 628.1 | 632.2 | 637.3 |
| 155°   | 643.4 | 639.3 | 639.3 | 641.4 | 644.5 | 642.4 | 640.4 | 641.9 | 645.5 | 650.6 | 652.6 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.8 | 659.8 | 658.8 | 660.0 | 662.9 | 664.9 | 664.9 |
| 160°   | 678.2 | 675.1 | 674.1 | 671.1 | 670.0 | 670.0 | 673.1 | 675.0 | 679.2 | 676.2 | 675.1 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.2 | 678.2 | 682.3 | 683.6 | 686.4 | 685.4 | 683.3 |
| 165°   | 696.6 | 693.6 | 691.5 | 691.5 | 688.4 | 688.4 | 687.4 | 689.0 | 692.5 | 695.6 | 693.6 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.8 | 700.7 | 693.6 | 695.4 | 699.7 | 703.8 | 703.8 |
| 170°   | 714.0 | 711.0 | 707.9 | 707.9 | 708.9 | 706.9 | 701.7 | 702.7 | 704.8 | 709.9 | 712.0 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 705.8 | 705.8 | 704.8 | 705.7 | 707.9 | 709.9 | 712.0 |
| 175°   | 716.1 | 714.0 | 713.0 | 711.0 | 706.9 | 705.8 | 705.8 | 707.4 | 711.0 | 712.0 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.0 | 711.0 | 709.9 | 711.5 | 715.0 | 717.1 | 714.0 |
| 180°   | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |





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**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 419.1  | 419.1  | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 |
| 2.5°   | 419.6  | 421.1  | 423.5 | 425.4 | 426.4 | 425.4 | 428.8 | 428.4 | 429.3 | 429.3 | 430.3 |
| 5°     | 424.0  | 425.9  | 430.3 | 432.7 | 435.2 | 436.2 | 440.1 | 441.0 | 443.0 | 444.0 | 443.5 |
| 7.5°   | 430.3  | 432.7  | 438.1 | 442.5 | 445.9 | 448.3 | 454.7 | 457.6 | 460.5 | 461.5 | 462.5 |
| 10°    | 442.0  | 445.4  | 451.3 | 456.6 | 461.5 | 464.9 | 470.3 | 474.2 | 477.1 | 478.1 | 479.0 |
| 12.5°  | 457.6  | 461.5  | 468.8 | 476.1 | 481.5 | 483.4 | 482.9 | 482.0 | 482.0 | 481.5 | 482.0 |
| 15°    | 475.6  | 479.5  | 488.8 | 495.6 | 496.1 | 489.8 | 481.0 | 476.6 | 475.6 | 475.6 | 476.1 |
| 17.5°  | 496.6  | 501.5  | 507.3 | 511.2 | 501.9 | 486.4 | 476.1 | 471.7 | 470.8 | 470.3 | 469.3 |
| 20°    | 520.5  | 523.4  | 525.3 | 520.5 | 500.0 | 482.0 | 470.3 | 463.9 | 459.1 | 458.6 | 456.6 |
| 22.5°  | 545.8  | 544.8  | 542.4 | 524.9 | 494.6 | 471.7 | 455.7 | 444.0 | 437.6 | 437.1 | 435.2 |
| 25°    | 564.3  | 560.4  | 553.1 | 525.8 | 484.9 | 455.2 | 432.3 | 413.7 | 405.5 | 401.6 | 402.5 |
| 27.5°  | 576.5  | 568.2  | 555.6 | 521.0 | 467.8 | 429.8 | 397.7 | 373.3 | 361.1 | 359.2 | 360.6 |
| 30°    | 591.1  | 578.0  | 557.5 | 508.8 | 443.5 | 394.2 | 352.3 | 328.0 | 321.1 | 317.7 | 318.7 |
| 32.5°  | 608.7  | 591.6  | 563.8 | 490.3 | 412.8 | 352.8 | 307.5 | 290.4 | 282.6 | 276.3 | 278.3 |
| 35°    | 631.6  | 610.1  | 574.1 | 463.9 | 373.8 | 309.0 | 275.3 | 259.7 | 245.6 | 238.8 | 239.3 |
| 37.5°  | 658.4  | 634.0  | 582.8 | 433.2 | 331.4 | 275.8 | 247.6 | 229.0 | 211.5 | 198.3 | 195.9 |
| 40°    | 701.3  | 681.3  | 590.2 | 399.1 | 290.9 | 248.5 | 220.3 | 199.3 | 182.7 | 169.6 | 168.1 |
| 42.5°  | 772.9  | 738.3  | 590.6 | 358.2 | 256.3 | 225.1 | 197.9 | 175.0 | 156.4 | 145.2 | 144.7 |
| 45°    | 857.2  | 803.6  | 580.4 | 314.3 | 226.1 | 201.8 | 177.9 | 152.0 | 141.3 | 134.0 | 133.0 |
| 47.5°  | 957.1  | 878.7  | 558.0 | 273.4 | 200.3 | 178.8 | 157.4 | 141.8 | 134.0 | 128.7 | 128.7 |
| 50°    | 1071.1 | 966.9  | 535.6 | 238.3 | 175.4 | 160.3 | 145.7 | 137.4 | 131.6 | 126.7 | 126.2 |
| 52.5°  | 1199.8 | 1071.1 | 528.3 | 202.7 | 155.0 | 143.3 | 141.8 | 134.0 | 129.1 | 125.7 | 124.8 |
| 55°    | 1353.3 | 1188.1 | 535.1 | 175.0 | 138.9 | 136.5 | 139.4 | 133.0 | 129.6 | 124.3 | 122.8 |
| 57.5°  | 1530.7 | 1302.1 | 527.8 | 151.6 | 127.7 | 130.1 | 136.5 | 133.0 | 130.1 | 123.3 | 121.3 |
| 60°    | 1697.8 | 1404.0 | 478.1 | 132.1 | 117.0 | 122.3 | 132.6 | 128.7 | 124.3 | 122.8 | 121.8 |
| 62.5°  | 1787.5 | 1437.1 | 381.1 | 117.0 | 108.7 | 114.5 | 126.2 | 121.3 | 118.4 | 121.8 | 122.3 |
| 65°    | 1788.5 | 1399.6 | 280.2 | 105.8 | 101.9 | 107.7 | 119.9 | 118.4 | 120.4 | 128.2 | 129.6 |
| 67.5°  | 1689.1 | 1285.6 | 197.9 | 95.5  | 95.0  | 102.3 | 122.8 | 132.6 | 134.0 | 141.8 | 141.8 |
| 68°    | 1655.0 | 1257.3 | 183.7 | 94.1  | 93.6  | 102.3 | 125.2 | 135.0 | 136.0 | 143.3 | 142.8 |
| 70°    | 1467.8 | 1062.9 | 133.0 | 88.2  | 91.1  | 109.6 | 138.4 | 141.8 | 136.0 | 144.2 | 143.8 |
| 72.5°  | 1147.2 | 786.1  | 99.4  | 81.9  | 86.7  | 108.2 | 139.4 | 136.0 | 127.2 | 129.1 | 126.7 |
| 75°    | 775.3  | 501.0  | 81.9  | 75.0  | 77.0  | 91.6  | 126.7 | 128.2 | 117.9 | 116.0 | 113.1 |
| 77.5°  | 405.9  | 234.9  | 66.3  | 66.8  | 68.7  | 79.4  | 113.1 | 116.5 | 107.2 | 101.4 | 100.4 |
| 80°    | 149.6  | 93.1   | 54.1  | 59.0  | 59.9  | 69.7  | 97.0  | 102.3 | 93.6  | 89.2  | 88.2  |
| 82.5°  | 54.6   | 46.3   | 44.8  | 51.7  | 50.7  | 59.5  | 84.8  | 88.7  | 79.4  | 75.0  | 72.6  |
| 85°    | 15.1   | 17.1   | 28.3  | 40.4  | 39.5  | 46.3  | 68.2  | 71.6  | 63.8  | 52.6  | 51.2  |
| 87.5°  | 1.0    | 3.4    | 11.2  | 23.9  | 24.9  | 28.8  | 49.2  | 54.1  | 47.3  | 39.0  | 38.5  |
| 90°    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 6.1    | 6.1    | 6.1   | 7.2   | 7.2   | 6.1   | 6.1   | 6.1   | 5.1   | 4.1   | 4.1   |
| 95°    | 7.2    | 7.2    | 7.2   | 8.2   | 7.2   | 7.2   | 7.2   | 7.2   | 6.1   | 5.1   | 5.1   |
| 97.5°  | 8.2    | 8.2    | 9.2   | 10.2  | 12.3  | 9.2   | 9.2   | 8.2   | 8.2   | 7.2   | 7.2   |
| 100°   | 19.4   | 19.4   | 23.5  | 26.6  | 29.7  | 21.5  | 12.3  | 10.2  | 9.2   | 8.2   | 8.2   |
| 102.5° | 38.9   | 39.9   | 43.0  | 48.1  | 51.1  | 40.9  | 27.6  | 18.4  | 13.3  | 11.3  | 11.3  |
| 105°   | 62.4   | 62.4   | 66.5  | 71.6  | 73.7  | 64.4  | 49.1  | 36.8  | 27.6  | 22.5  | 21.5  |
| 107.5° | 88.0   | 89.0   | 92.1  | 96.2  | 97.2  | 90.0  | 74.7  | 59.3  | 50.1  | 43.0  | 41.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 119.7 | 118.7 | 121.7 | 123.8 | 122.8 | 116.6 | 104.3 | 89.0  | 75.7  | 69.6  | 67.5  |
| 112.5° | 150.4 | 150.4 | 152.4 | 153.4 | 151.4 | 146.3 | 137.1 | 123.8 | 108.4 | 101.3 | 101.3 |
| 115°   | 182.1 | 181.1 | 183.1 | 186.2 | 183.1 | 178.0 | 171.9 | 162.6 | 150.4 | 142.2 | 143.2 |
| 117.5° | 213.8 | 212.8 | 214.8 | 219.9 | 215.8 | 209.7 | 206.6 | 201.5 | 193.3 | 188.2 | 188.2 |
| 120°   | 248.6 | 248.6 | 250.6 | 255.7 | 251.6 | 248.6 | 242.4 | 238.3 | 231.2 | 228.1 | 230.2 |
| 122.5° | 283.4 | 282.3 | 284.4 | 289.5 | 285.4 | 283.4 | 277.2 | 273.1 | 267.0 | 266.0 | 269.0 |
| 125°   | 317.1 | 317.1 | 317.1 | 322.2 | 320.2 | 317.1 | 312.0 | 305.9 | 302.8 | 300.7 | 304.8 |
| 127.5° | 355.0 | 352.9 | 353.9 | 353.9 | 352.9 | 347.8 | 346.8 | 340.6 | 336.6 | 336.6 | 337.6 |
| 130°   | 388.7 | 387.7 | 389.7 | 389.7 | 385.7 | 380.5 | 378.5 | 374.4 | 370.3 | 369.3 | 371.3 |
| 132.5° | 424.5 | 423.5 | 423.5 | 425.5 | 420.4 | 414.3 | 413.3 | 410.2 | 402.0 | 403.0 | 405.1 |
| 135°   | 461.4 | 460.3 | 457.3 | 458.3 | 453.2 | 447.0 | 445.0 | 441.9 | 435.8 | 435.8 | 438.8 |
| 137.5° | 493.1 | 492.0 | 486.9 | 485.9 | 483.9 | 478.7 | 474.6 | 470.6 | 469.5 | 467.5 | 470.6 |
| 140°   | 522.7 | 520.7 | 515.6 | 513.5 | 511.5 | 508.4 | 502.3 | 500.2 | 498.2 | 496.1 | 499.2 |
| 142.5° | 548.3 | 546.3 | 545.2 | 545.2 | 539.1 | 537.0 | 533.0 | 529.9 | 528.9 | 526.8 | 529.9 |
| 145°   | 572.9 | 570.8 | 573.9 | 574.9 | 568.8 | 563.6 | 562.6 | 559.6 | 556.5 | 558.5 | 562.6 |
| 147.5° | 598.4 | 596.4 | 599.4 | 598.4 | 593.3 | 588.2 | 587.2 | 587.2 | 584.1 | 585.1 | 588.2 |
| 150°   | 624.0 | 619.9 | 616.8 | 613.8 | 610.7 | 606.6 | 606.6 | 606.6 | 606.6 | 605.6 | 608.7 |
| 152.5° | 642.4 | 637.3 | 632.2 | 628.1 | 625.0 | 624.0 | 624.0 | 623.0 | 622.0 | 622.0 | 625.0 |
| 155°   | 655.7 | 652.6 | 650.6 | 645.5 | 640.4 | 642.4 | 644.5 | 641.4 | 639.3 | 639.3 | 643.4 |
| 157.5° | 670.0 | 664.9 | 664.9 | 662.9 | 658.8 | 659.8 | 660.8 | 658.8 | 657.8 | 657.8 | 660.8 |
| 160°   | 681.3 | 675.1 | 676.2 | 679.2 | 673.1 | 670.0 | 670.0 | 671.1 | 674.1 | 675.1 | 678.2 |
| 162.5° | 689.5 | 683.3 | 685.4 | 686.4 | 682.3 | 678.2 | 676.2 | 680.3 | 684.4 | 684.4 | 688.4 |
| 165°   | 697.7 | 693.6 | 695.6 | 692.5 | 687.4 | 688.4 | 688.4 | 691.5 | 691.5 | 693.6 | 696.6 |
| 167.5° | 709.9 | 703.8 | 703.8 | 699.7 | 693.6 | 700.7 | 703.8 | 701.7 | 699.7 | 702.8 | 705.8 |
| 170°   | 717.1 | 712.0 | 709.9 | 704.8 | 701.7 | 706.9 | 708.9 | 707.9 | 707.9 | 711.0 | 714.0 |
| 172.5° | 717.1 | 712.0 | 709.9 | 707.9 | 704.8 | 705.8 | 705.8 | 708.9 | 711.0 | 713.0 | 715.0 |
| 175°   | 715.0 | 709.9 | 712.0 | 711.0 | 705.8 | 705.8 | 706.9 | 711.0 | 713.0 | 714.0 | 716.1 |
| 177.5° | 718.1 | 714.0 | 717.1 | 715.0 | 709.9 | 711.0 | 713.0 | 715.0 | 716.1 | 721.2 | 723.2 |
| 180°   | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |

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