

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: **ENT-SA1A-740-U-T2-ULG**

Issue Date: 3/30/2022

**Test Information**

Test Method: LM-79-08  
Report Number: REPORT IS A COMBINATION OF REPORTS P400968 AND P226775  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1A-740-U-T2-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

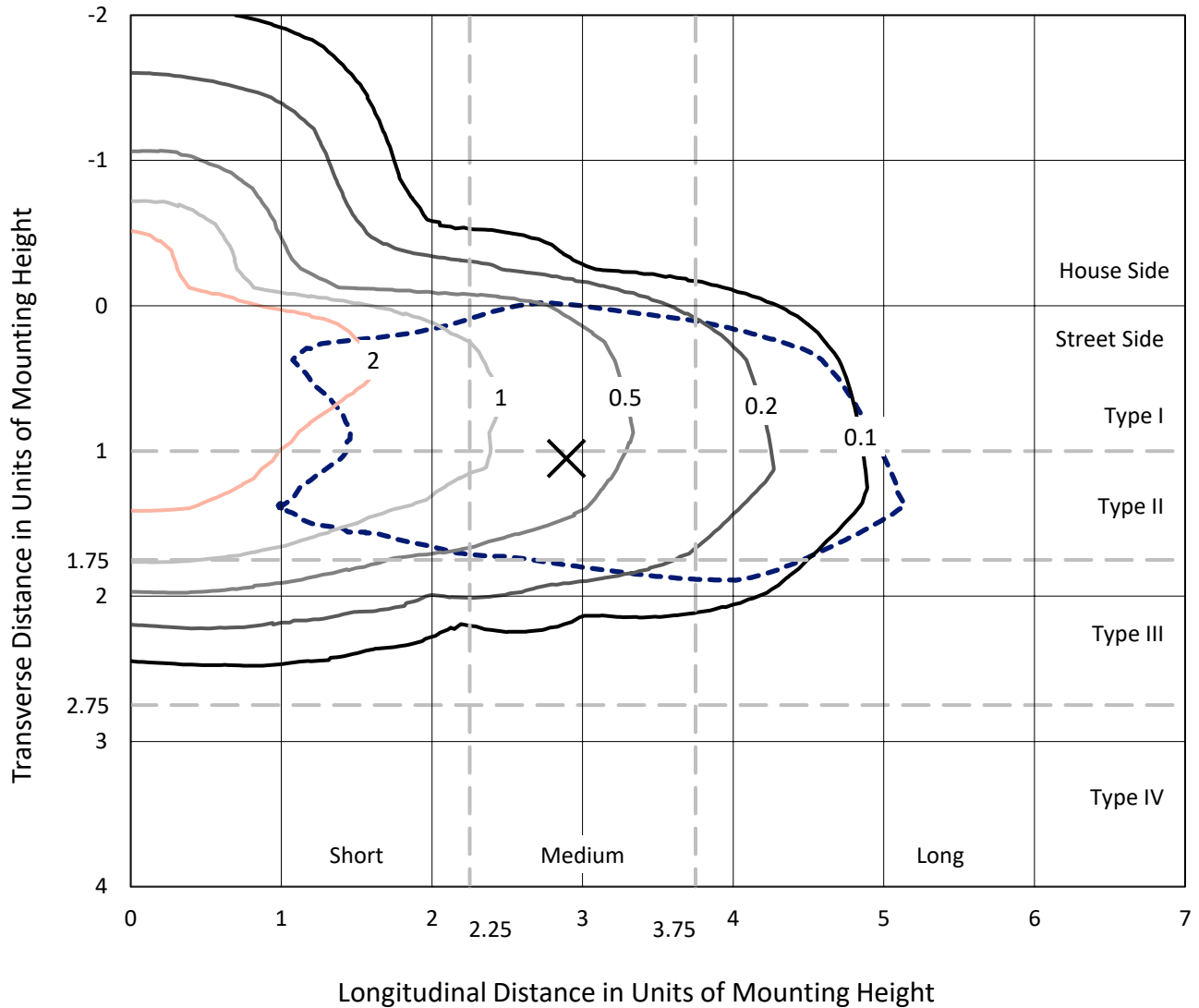
Lumens per Lamp: N/A  
Luminaire Lumens: 4494.9 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 36.8  
Input Voltage (V): NR  
Input Current (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

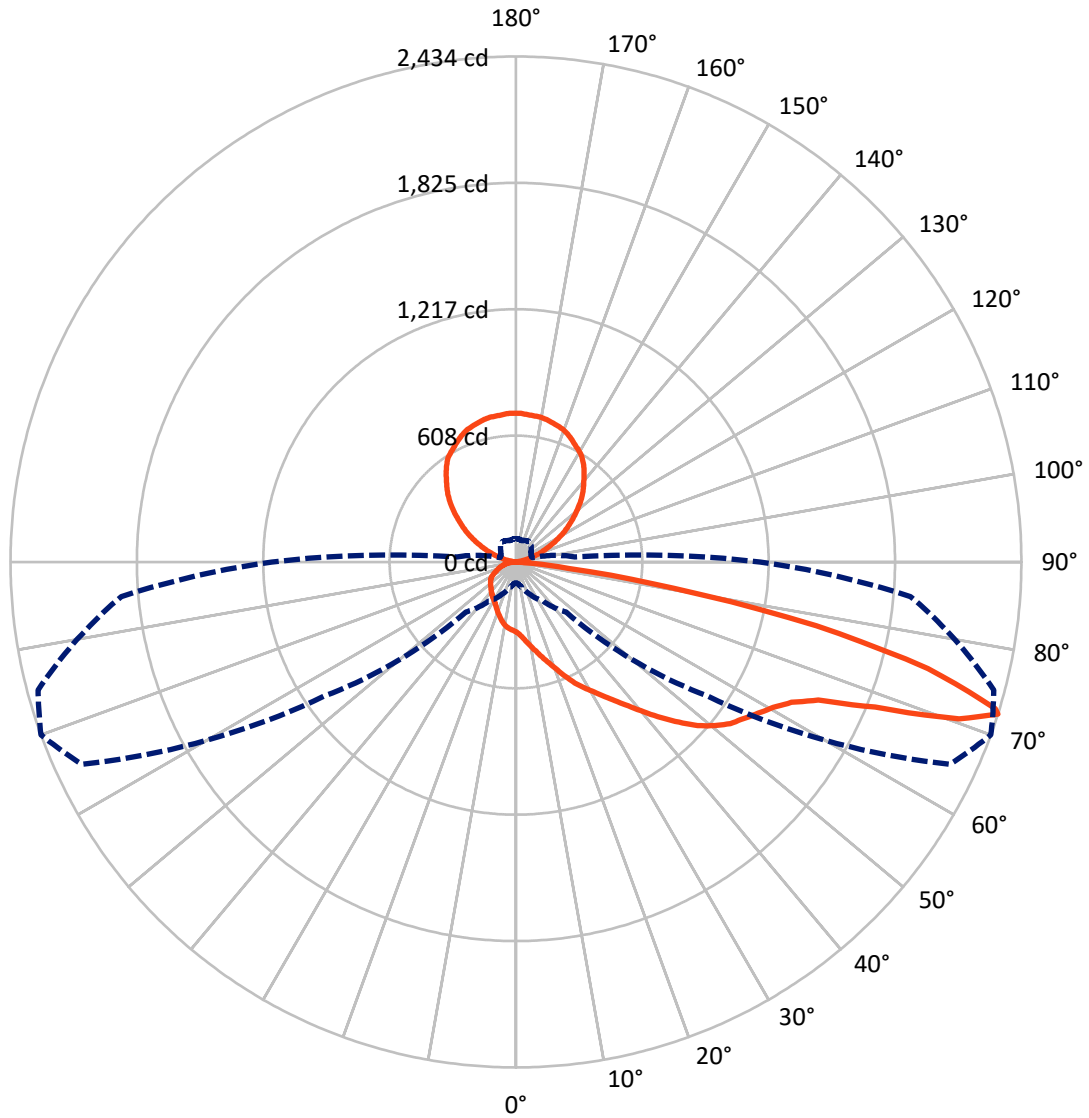
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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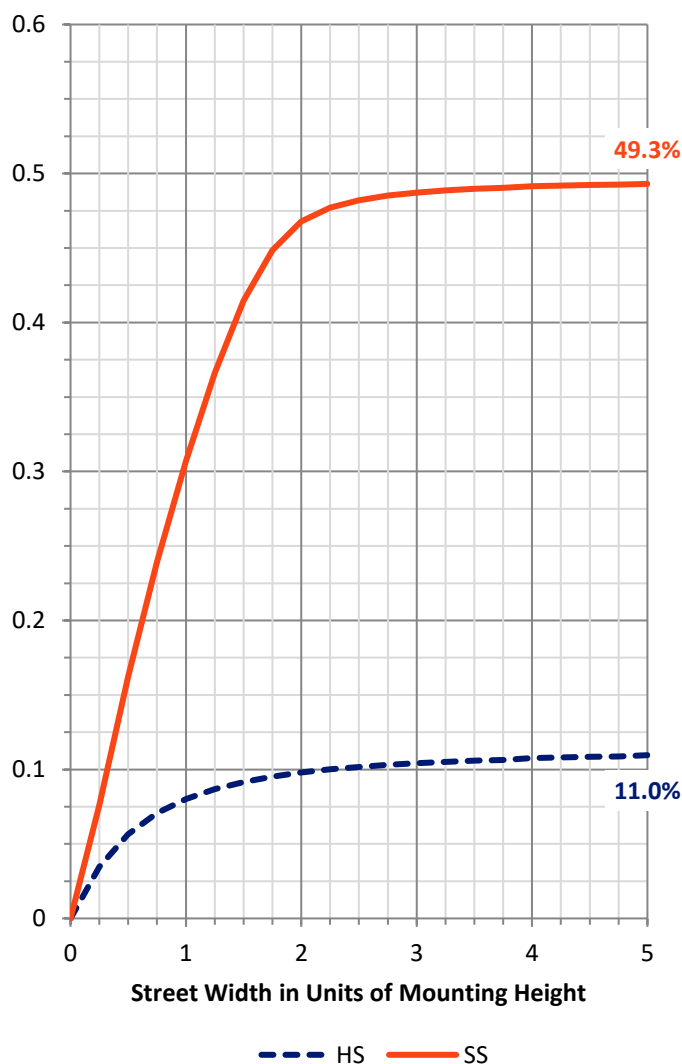
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 505.6    | 887.0  | 1392.5 |
|                    | % Fixture | 11.2     | 19.7   | 31.0   |
| <b>Street Side</b> | Lumens    | 2215.4   | 887.0  | 3102.4 |
|                    | % Fixture | 49.3     | 19.7   | 69.0   |
| <b>Total</b>       | Lumens    | 2721.0   | 1773.9 | 4494.9 |
|                    | % Fixture | 60.5     | 39.5   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.9   | 0.8       |
| 10°-20°   | 108.7  | 2.4       |
| 20°-30°   | 192.4  | 4.3       |
| 30°-40°   | 286.1  | 6.4       |
| 40°-50°   | 415.0  | 9.2       |
| 50°-60°   | 567.0  | 12.6      |
| 60°-70°   | 620.8  | 13.8      |
| 70°-80°   | 441.6  | 9.8       |
| 80°-90°   | 55.4   | 1.2       |
| 90°-100°  | 8.4    | 0.2       |
| 100°-110° | 58.7   | 1.3       |
| 110°-120° | 169.9  | 3.8       |
| 120°-130° | 279.4  | 6.2       |
| 130°-140° | 344.6  | 7.7       |
| 140°-150° | 352.5  | 7.8       |
| 150°-160° | 297.0  | 6.6       |
| 160°-170° | 195.5  | 4.4       |
| 170°-180° | 67.8   | 1.5       |
| 0°-90°    | 2721.0 | 60.5      |
| 0°-180°   | 4494.9 | 100.0     |

**Coefficient of Utilization**

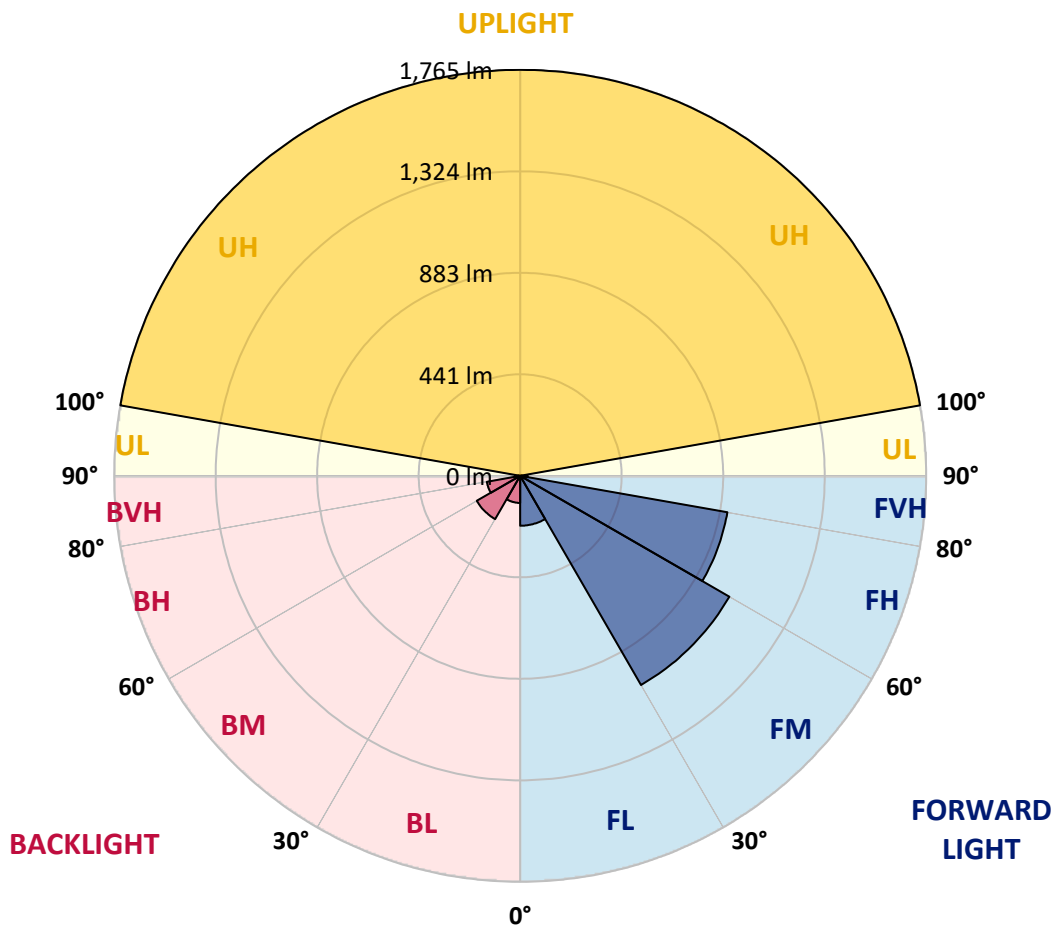


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|----------------|--------|-----------|-------------------------|-------|---------|
|                |        |           | B                       | U     | G       |
| FL (0°-30°)    | 217.2  | 4.8       |                         |       |         |
| FM (30°-60°)   | 1050.5 | 23.4      |                         |       |         |
| FH (60°-80°)   | 915.0  | 20.4      |                         |       | G1/1800 |
| FVH (80°-90°)  | 32.7   | 0.7       |                         |       | G1/100  |
| BL (0°-30°)    | 117.8  | 2.6       | B1/500                  |       |         |
| BM (30°-60°)   | 217.7  | 4.8       | B0/220                  |       |         |
| BH (60°-80°)   | 147.4  | 3.3       | B1/500                  |       | G1/500  |
| BVH (80°-90°)  | 22.7   | 0.5       |                         |       | G1/100  |
| UL (90°-100°)  | 8.4    | 0.2       |                         | U1/10 |         |
| UH (100°-180°) | 1765.5 | 39.3      |                         | U5    |         |

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





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 337.0  | 337.0  | 337.0  | 337.0  | 337.0  | 337.0  | 337.0  | 337.0  | 337.0  | 337.0  | 337.0  |
| 2.5°   | 374.7  | 372.7  | 373.1  | 369.6  | 367.7  | 363.0  | 358.0  | 352.5  | 349.8  | 347.9  | 341.3  |
| 5°     | 411.2  | 411.2  | 412.8  | 410.0  | 402.7  | 394.9  | 385.9  | 373.9  | 368.8  | 361.9  | 348.6  |
| 7.5°   | 441.5  | 442.3  | 442.3  | 441.5  | 434.9  | 426.4  | 414.7  | 399.9  | 391.8  | 381.7  | 361.1  |
| 10°    | 457.1  | 459.0  | 460.6  | 461.7  | 461.0  | 455.9  | 442.7  | 427.5  | 416.3  | 403.1  | 375.5  |
| 12.5°  | 464.8  | 465.6  | 468.3  | 474.2  | 478.8  | 482.7  | 473.0  | 455.1  | 443.9  | 427.9  | 391.0  |
| 15°    | 473.4  | 473.4  | 476.1  | 483.5  | 492.4  | 502.9  | 501.8  | 487.8  | 475.7  | 455.9  | 410.8  |
| 17.5°  | 478.8  | 480.4  | 485.4  | 493.2  | 505.7  | 523.1  | 532.1  | 524.3  | 508.8  | 487.8  | 432.2  |
| 20°    | 475.7  | 476.9  | 487.0  | 502.2  | 518.1  | 540.6  | 563.2  | 563.2  | 548.4  | 524.3  | 455.9  |
| 22.5°  | 481.6  | 483.5  | 490.5  | 504.9  | 526.6  | 555.8  | 592.7  | 605.5  | 592.7  | 566.3  | 483.5  |
| 25°    | 504.1  | 503.3  | 509.2  | 515.0  | 533.6  | 569.8  | 618.0  | 651.0  | 639.4  | 610.2  | 510.3  |
| 27.5°  | 536.8  | 536.8  | 539.9  | 539.5  | 546.1  | 581.4  | 640.1  | 691.1  | 681.3  | 646.4  | 532.5  |
| 30°    | 574.5  | 575.2  | 574.5  | 574.1  | 572.9  | 597.4  | 660.0  | 726.8  | 721.8  | 687.2  | 552.7  |
| 32.5°  | 620.3  | 622.3  | 619.2  | 611.4  | 606.7  | 620.3  | 676.7  | 766.8  | 768.4  | 727.6  | 572.5  |
| 35°    | 677.8  | 680.9  | 669.3  | 658.0  | 646.4  | 652.6  | 696.1  | 804.5  | 820.1  | 773.5  | 596.6  |
| 37.5°  | 735.4  | 740.4  | 738.5  | 708.2  | 691.8  | 691.4  | 724.9  | 851.6  | 877.6  | 833.3  | 630.8  |
| 40°    | 783.9  | 788.2  | 790.6  | 763.0  | 740.4  | 739.6  | 767.2  | 900.5  | 948.4  | 902.1  | 671.2  |
| 42.5°  | 816.2  | 820.1  | 827.1  | 810.8  | 789.8  | 799.5  | 813.9  | 949.1  | 1024.5 | 986.1  | 721.0  |
| 45°    | 851.2  | 854.3  | 858.6  | 849.2  | 838.4  | 866.3  | 873.0  | 1003.2 | 1100.7 | 1076.2 | 779.3  |
| 47.5°  | 888.5  | 891.6  | 893.9  | 886.9  | 883.1  | 922.3  | 930.9  | 1058.3 | 1177.7 | 1169.5 | 836.0  |
| 50°    | 929.7  | 930.9  | 933.2  | 929.7  | 930.9  | 973.2  | 978.7  | 1106.9 | 1238.7 | 1266.7 | 895.1  |
| 52.5°  | 1000.4 | 1002.0 | 1002.8 | 986.1  | 980.2  | 1005.5 | 1017.1 | 1158.6 | 1292.3 | 1347.5 | 947.2  |
| 55°    | 1056.4 | 1061.8 | 1086.3 | 1075.4 | 1061.5 | 1028.4 | 1049.0 | 1200.2 | 1330.4 | 1422.9 | 1001.6 |
| 57.5°  | 1010.5 | 1023.0 | 1084.0 | 1135.3 | 1174.6 | 1095.7 | 1086.7 | 1243.0 | 1374.3 | 1487.8 | 1065.0 |
| 60°    | 877.2  | 895.5  | 984.1  | 1091.0 | 1218.1 | 1250.0 | 1164.1 | 1296.2 | 1422.1 | 1555.5 | 1133.0 |
| 62.5°  | 608.3  | 626.9  | 749.4  | 920.0  | 1144.6 | 1338.2 | 1375.9 | 1390.7 | 1488.6 | 1624.6 | 1221.6 |
| 65°    | 291.5  | 310.5  | 411.6  | 591.6  | 904.0  | 1281.4 | 1622.7 | 1586.5 | 1600.5 | 1712.5 | 1352.2 |
| 67.5°  | 185.4  | 195.5  | 235.1  | 322.2  | 525.9  | 998.1  | 1711.3 | 1976.8 | 1865.6 | 1915.0 | 1612.2 |
| 70°    | 135.6  | 138.0  | 172.2  | 223.1  | 312.1  | 583.0  | 1511.1 | 2350.3 | 2263.2 | 2257.8 | 1925.9 |
| 72°    | 100.3  | 104.2  | 130.6  | 178.0  | 230.9  | 340.9  | 1124.4 | 2304.8 | 2433.5 | 2381.8 | 1907.2 |
| 72.5°  | 94.4   | 97.6   | 120.5  | 168.3  | 218.0  | 299.3  | 1007.4 | 2252.0 | 2412.5 | 2385.3 | 1871.4 |
| 75°    | 68.8   | 71.1   | 82.4   | 119.7  | 168.7  | 173.3  | 537.9  | 1728.4 | 2048.7 | 2277.2 | 1696.5 |
| 77.5°  | 47.4   | 49.0   | 54.8   | 73.5   | 115.4  | 117.4  | 228.1  | 1180.0 | 1478.5 | 1820.9 | 1304.8 |
| 80°    | 28.8   | 29.5   | 33.0   | 40.0   | 73.5   | 69.6   | 94.1   | 616.8  | 771.5  | 989.9  | 605.2  |
| 82.5°  | 12.0   | 12.4   | 14.4   | 15.9   | 31.1   | 33.0   | 38.1   | 201.3  | 255.4  | 309.4  | 174.5  |
| 85°    | 0.0    | 0.0    | 0.4    | 0.4    | 0.8    | 3.5    | 5.4    | 24.9   | 37.7   | 45.1   | 31.5   |
| 87.5°  | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    | 0.8    | 0.8    | 1.2    | 1.6    | 1.6    | 2.3    |
| 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    | 6.6    | 6.1    | 6.1    |
| 95°    | 5.1    | 5.1    | 6.1    | 7.2    | 7.2    | 7.2    | 7.2    | 8.2    | 7.7    | 7.2    | 7.2    |
| 97.5°  | 7.2    | 7.2    | 8.2    | 8.2    | 9.2    | 9.2    | 12.3   | 10.2   | 9.7    | 9.2    | 8.2    |
| 100°   | 8.2    | 8.2    | 9.2    | 10.2   | 12.3   | 21.5   | 29.7   | 26.6   | 25.1   | 23.5   | 19.4   |
| 102.5° | 11.3   | 11.3   | 13.3   | 18.4   | 27.6   | 40.9   | 51.1   | 48.1   | 45.5   | 43.0   | 39.9   |
| 105°   | 21.5   | 22.5   | 27.6   | 36.8   | 49.1   | 64.4   | 73.7   | 71.6   | 69.0   | 66.5   | 62.4   |
| 107.5° | 41.9   | 43.0   | 50.1   | 59.3   | 74.7   | 90.0   | 97.2   | 96.2   | 94.1   | 92.1   | 89.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 70°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 67.5  | 69.6  | 75.7  | 89.0  | 104.3 | 116.6 | 122.8 | 123.8 | 122.8 | 121.7 | 118.7 |
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 137.1 | 146.3 | 151.4 | 153.4 | 152.9 | 152.4 | 150.4 |
| 115°   | 143.2 | 142.2 | 150.4 | 162.6 | 171.9 | 178.0 | 183.1 | 186.2 | 184.6 | 183.1 | 181.1 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.6 | 209.7 | 215.8 | 219.9 | 217.4 | 214.8 | 212.8 |
| 120°   | 230.2 | 228.1 | 231.2 | 238.3 | 242.4 | 248.6 | 251.6 | 255.7 | 253.2 | 250.6 | 248.6 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 277.2 | 283.4 | 285.4 | 289.5 | 286.9 | 284.4 | 282.3 |
| 125°   | 304.8 | 300.7 | 302.8 | 305.9 | 312.0 | 317.1 | 320.2 | 322.2 | 319.7 | 317.1 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.8 | 347.8 | 352.9 | 353.9 | 353.9 | 353.9 | 352.9 |
| 130°   | 371.3 | 369.3 | 370.3 | 374.4 | 378.5 | 380.5 | 385.7 | 389.7 | 389.7 | 389.7 | 387.7 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.3 | 414.3 | 420.4 | 425.5 | 424.5 | 423.5 | 423.5 |
| 135°   | 438.8 | 435.8 | 435.8 | 441.9 | 445.0 | 447.0 | 453.2 | 458.3 | 457.8 | 457.3 | 460.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.6 | 478.7 | 483.9 | 485.9 | 486.4 | 486.9 | 492.0 |
| 140°   | 499.2 | 496.1 | 498.2 | 500.2 | 502.3 | 508.4 | 511.5 | 513.5 | 514.5 | 515.6 | 520.7 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 533.0 | 537.0 | 539.1 | 545.2 | 545.2 | 545.2 | 546.3 |
| 145°   | 562.6 | 558.5 | 556.5 | 559.6 | 562.6 | 563.6 | 568.8 | 574.9 | 574.4 | 573.9 | 570.8 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 588.2 | 593.3 | 598.4 | 598.9 | 599.4 | 596.4 |
| 150°   | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 610.7 | 613.8 | 615.3 | 616.8 | 619.9 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 624.0 | 624.0 | 625.0 | 628.1 | 630.1 | 632.2 | 637.3 |
| 155°   | 643.4 | 639.3 | 639.3 | 641.4 | 644.5 | 642.4 | 640.4 | 645.5 | 648.0 | 650.6 | 652.6 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.8 | 659.8 | 658.8 | 662.9 | 663.9 | 664.9 | 664.9 |
| 160°   | 678.2 | 675.1 | 674.1 | 671.1 | 670.0 | 670.0 | 673.1 | 679.2 | 677.7 | 676.2 | 675.1 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.2 | 678.2 | 682.3 | 686.4 | 685.9 | 685.4 | 683.3 |
| 165°   | 696.6 | 693.6 | 691.5 | 691.5 | 688.4 | 688.4 | 687.4 | 692.5 | 694.1 | 695.6 | 693.6 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.8 | 700.7 | 693.6 | 699.7 | 701.7 | 703.8 | 703.8 |
| 170°   | 714.0 | 711.0 | 707.9 | 707.9 | 708.9 | 706.9 | 701.7 | 704.8 | 707.4 | 709.9 | 712.0 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 705.8 | 705.8 | 704.8 | 707.9 | 708.9 | 709.9 | 712.0 |
| 175°   | 716.1 | 714.0 | 713.0 | 711.0 | 706.9 | 705.8 | 705.8 | 711.0 | 711.5 | 712.0 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.0 | 711.0 | 709.9 | 715.0 | 716.1 | 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°     | 337.0  | 337.0 | 337.0 | 337.0 | 337.0 | 337.0 | 337.0 | 337.0 | 337.0 | 337.0 | 337.0 |
| 2.5°   | 338.1  | 336.6 | 331.9 | 328.0 | 324.9 | 319.9 | 319.5 | 315.6 | 315.6 | 314.4 | 313.7 |
| 5°     | 343.6  | 338.5 | 329.2 | 320.7 | 314.4 | 307.0 | 303.6 | 299.3 | 296.6 | 295.0 | 295.4 |
| 7.5°   | 350.6  | 342.0 | 326.1 | 311.7 | 300.1 | 290.7 | 285.3 | 281.8 | 279.8 | 279.1 | 279.1 |
| 10°    | 360.3  | 347.1 | 321.0 | 299.3 | 284.5 | 277.5 | 274.8 | 274.4 | 274.8 | 275.2 | 275.6 |
| 12.5°  | 371.2  | 350.6 | 311.7 | 284.5 | 272.8 | 270.1 | 271.7 | 275.2 | 278.3 | 279.5 | 279.5 |
| 15°    | 382.5  | 352.9 | 298.9 | 270.9 | 263.9 | 266.6 | 272.1 | 278.7 | 283.7 | 286.8 | 287.6 |
| 17.5°  | 394.1  | 353.3 | 285.3 | 258.5 | 256.1 | 263.1 | 272.8 | 283.3 | 291.5 | 296.6 | 297.3 |
| 20°    | 406.5  | 352.5 | 269.3 | 247.2 | 248.4 | 260.0 | 273.6 | 288.0 | 298.9 | 305.5 | 306.3 |
| 22.5°  | 420.2  | 349.4 | 253.8 | 236.3 | 241.8 | 256.9 | 272.8 | 289.6 | 301.2 | 309.0 | 310.5 |
| 25°    | 433.4  | 343.2 | 238.3 | 226.6 | 237.1 | 253.8 | 269.0 | 283.3 | 294.6 | 302.0 | 303.9 |
| 27.5°  | 440.4  | 330.0 | 223.5 | 219.2 | 233.6 | 249.1 | 260.0 | 269.7 | 276.0 | 280.6 | 282.6 |
| 30°    | 441.5  | 311.3 | 211.4 | 214.2 | 229.7 | 242.5 | 248.7 | 250.3 | 249.1 | 250.7 | 248.7 |
| 32.5°  | 439.2  | 291.1 | 201.7 | 210.3 | 223.5 | 233.2 | 234.8 | 230.1 | 223.1 | 213.4 | 213.8 |
| 35°    | 437.6  | 269.0 | 193.9 | 204.8 | 215.3 | 221.5 | 218.8 | 211.4 | 198.2 | 186.6 | 185.8 |
| 37.5°  | 440.4  | 248.7 | 187.3 | 197.8 | 204.8 | 207.5 | 203.7 | 193.9 | 182.3 | 172.2 | 171.0 |
| 40°    | 448.1  | 234.0 | 181.1 | 190.1 | 193.6 | 195.5 | 190.8 | 182.3 | 177.6 | 170.2 | 169.1 |
| 42.5°  | 463.3  | 223.9 | 175.3 | 181.5 | 183.1 | 185.0 | 180.3 | 174.5 | 178.8 | 177.2 | 177.2 |
| 45°    | 484.3  | 219.2 | 170.2 | 173.3 | 174.9 | 178.0 | 175.3 | 170.2 | 174.9 | 166.0 | 164.4 |
| 47.5°  | 511.5  | 220.8 | 166.7 | 165.2 | 169.8 | 175.3 | 172.2 | 166.0 | 164.4 | 148.5 | 145.8 |
| 50°    | 540.3  | 228.9 | 163.2 | 158.6 | 164.4 | 171.8 | 167.9 | 158.2 | 148.9 | 140.7 | 139.1 |
| 52.5°  | 574.1  | 242.5 | 160.1 | 151.2 | 158.2 | 167.9 | 165.2 | 154.7 | 145.0 | 139.1 | 138.0 |
| 55°    | 611.4  | 255.7 | 156.2 | 142.6 | 150.0 | 166.7 | 166.0 | 152.4 | 139.5 | 136.8 | 136.0 |
| 57.5°  | 653.4  | 266.6 | 151.6 | 132.9 | 141.9 | 163.2 | 162.5 | 146.9 | 138.0 | 135.6 | 135.3 |
| 60°    | 705.8  | 279.5 | 143.4 | 121.7 | 133.7 | 156.6 | 155.9 | 144.2 | 134.5 | 132.5 | 131.8 |
| 62.5°  | 777.3  | 303.2 | 129.4 | 111.2 | 125.2 | 145.0 | 149.6 | 138.8 | 129.4 | 129.0 | 129.0 |
| 65°    | 895.1  | 349.0 | 115.0 | 102.2 | 115.4 | 133.7 | 141.5 | 132.5 | 124.8 | 126.7 | 126.7 |
| 67.5°  | 1117.8 | 410.8 | 100.3 | 93.7  | 106.1 | 122.8 | 134.5 | 126.3 | 119.7 | 123.6 | 123.6 |
| 70°    | 1289.6 | 387.9 | 88.6  | 85.5  | 96.8  | 113.1 | 125.5 | 119.7 | 113.5 | 120.1 | 119.3 |
| 72°    | 1176.5 | 284.1 | 80.8  | 78.9  | 89.0  | 104.9 | 117.8 | 113.5 | 106.9 | 112.3 | 110.8 |
| 72.5°  | 1129.5 | 258.1 | 78.5  | 77.0  | 86.7  | 103.4 | 116.2 | 111.9 | 104.9 | 110.4 | 108.1 |
| 75°    | 985.3  | 217.7 | 68.4  | 67.6  | 77.0  | 92.9  | 106.1 | 103.8 | 96.8  | 99.9  | 97.6  |
| 77.5°  | 815.4  | 183.5 | 57.5  | 59.1  | 65.7  | 82.8  | 95.6  | 93.3  | 86.7  | 86.3  | 85.9  |
| 80°    | 382.5  | 102.2 | 47.4  | 48.6  | 55.2  | 70.7  | 82.4  | 80.8  | 74.6  | 73.8  | 72.7  |
| 82.5°  | 110.8  | 49.0  | 36.5  | 37.3  | 44.3  | 57.9  | 70.7  | 70.0  | 65.3  | 64.1  | 61.4  |
| 85°    | 20.6   | 15.9  | 19.8  | 23.3  | 32.3  | 48.2  | 64.5  | 63.0  | 56.0  | 50.9  | 47.0  |
| 87.5°  | 1.2    | 3.1   | 6.6   | 11.3  | 20.6  | 36.1  | 52.1  | 50.9  | 44.7  | 38.5  | 38.9  |
| 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):**

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|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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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