

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: EPHESUS

Report Number: P624157

Luminaire Tested: **EPH-VN-04-E-930-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624157  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-04-E-930-U-55  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens  
Light Source: (64) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

|                   |                                      |                      |                 |
|-------------------|--------------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                                  | NEMA Type:           | 5H x 5V         |
| Luminaire Lumens: | 23339.1 lumens                       | Max Intensity:       | 28521.3 candela |
| Efficiency:       | N/A                                  | Max Intensity Angle: | 0°H x 10°V      |
| Efficacy:         | 76.8 lumens/watt                     |                      |                 |
| Luminous Opening: | Rectangular (W 2' x L: 0.5' x H: 0') |                      |                 |

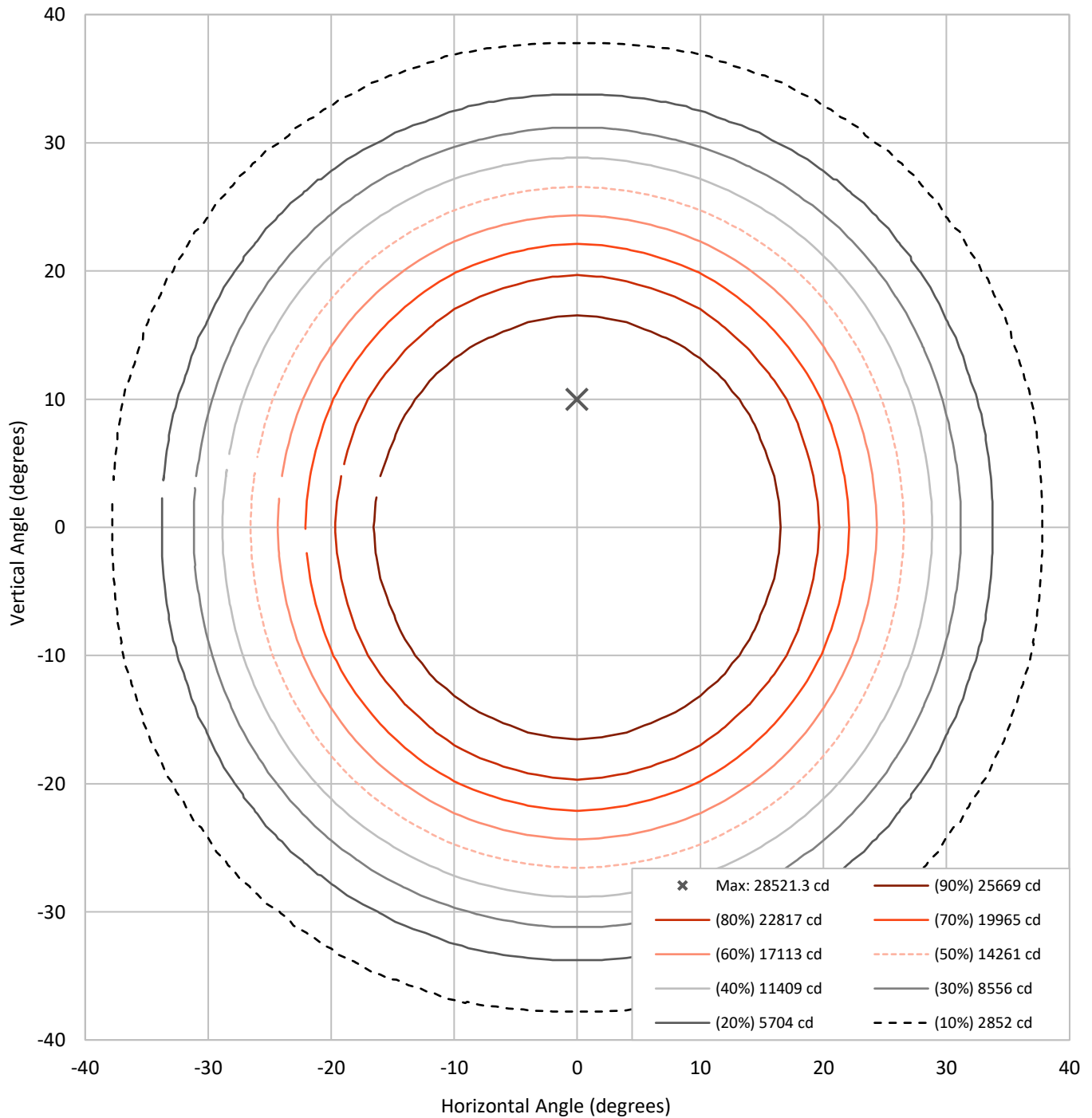
|                   |                 |                    |                 |
|-------------------|-----------------|--------------------|-----------------|
| Beam Angle (50%): | 49.5°H x 53.1°V | Field Angle (10%): | 73.6°H x 75.3°V |
| Beam Lumens:      | 11600.1 lumens  | Field Lumens:      | 15086.3 lumens  |
| Beam Efficiency:  | 49.7%           | Field Efficiency:  | 64.6%           |

Input Watts (W): 303.8  
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-Candela Plot





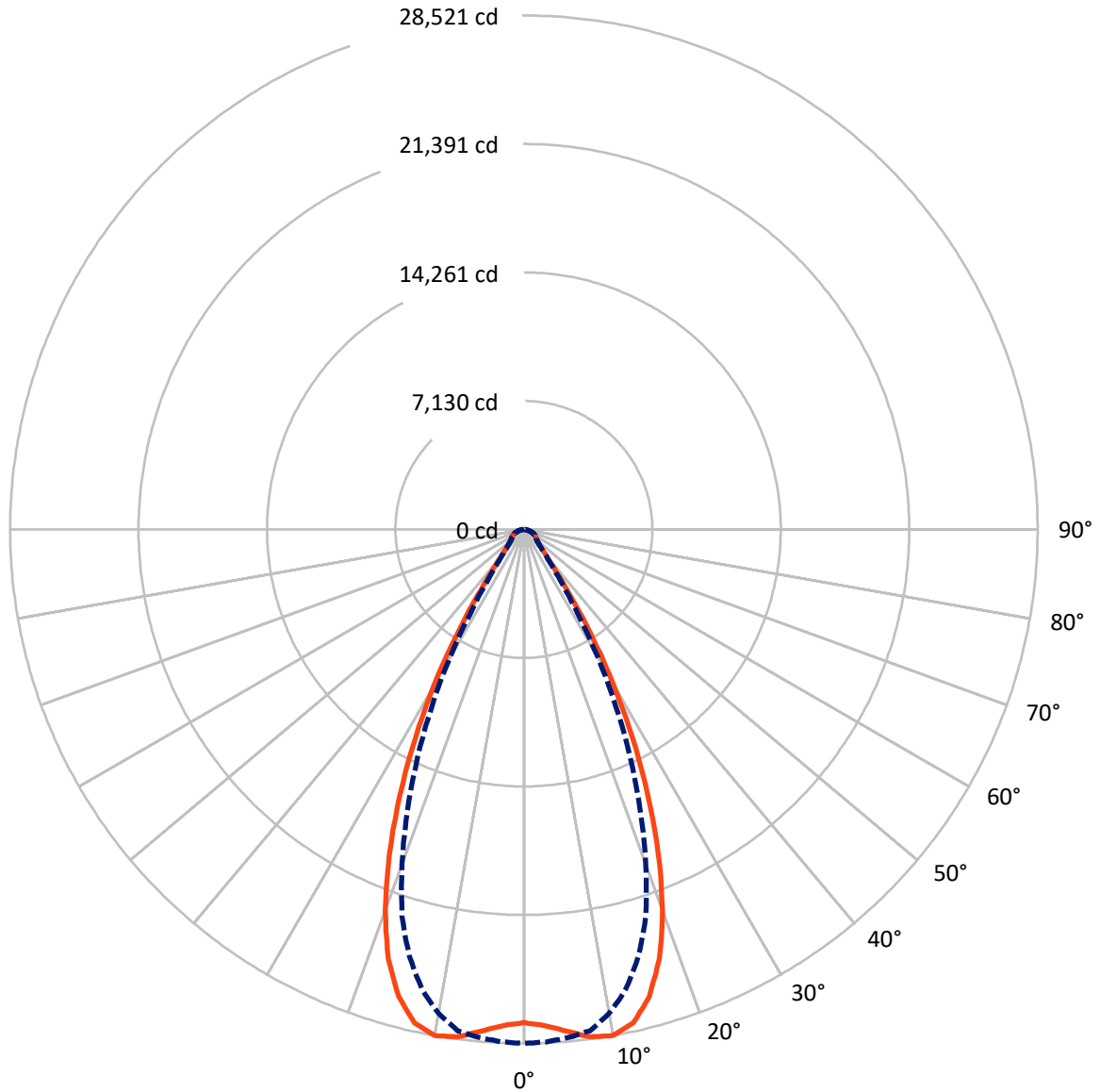
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### Lumen Table

|     |     |     |      |      |       |       |       |       |       |       |       |       |      |      |     |     |
|-----|-----|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-----|-----|
| 90  | 0.7 | 5.1 | 13.3 | 21.5 | 24.9  | 21.5  | 13.3  | 5.1   | 0.7   |       |       |       |      |      |     |     |
| 80  | 0.7 | 5.1 | 13.3 | 21.5 | 24.9  | 21.5  | 13.3  | 5.1   | 0.7   |       |       |       |      |      |     |     |
| 70  | 2.3 | 2.5 | 5.3  | 8.7  | 12.2  | 15.3  | 17.5  | 18.7  | 18.7  | 17.5  | 15.3  | 12.2  | 8.7  | 5.3  | 2.5 | 2.3 |
| 60  |     | 3.9 | 8.1  | 12.8 | 17.2  | 20.9  | 23.7  | 25.3  | 25.3  | 23.7  | 20.9  | 17.2  | 12.8 | 8.1  | 3.9 |     |
| 50  | 4.1 | 5.3 | 10.4 | 15.7 | 21.1  | 27.3  | 34.6  | 40.2  | 40.2  | 34.6  | 27.3  | 21.1  | 15.7 | 10.4 | 5.3 | 4.1 |
| 40  |     | 6.4 | 12.1 | 18.3 | 27.7  | 49.3  | 96.4  | 145.3 | 145.3 | 96.4  | 49.3  | 27.7  | 18.3 | 12.1 | 6.4 |     |
| 30  | 5.5 | 7.2 | 13.3 | 21.4 | 44.8  | 142.6 | 330.4 | 469.0 | 469.0 | 330.4 | 142.6 | 44.8  | 21.4 | 13.3 | 7.2 | 5.5 |
| 20  |     | 7.8 | 14.2 | 25.5 | 82.6  | 311.2 | 608.9 | 776.3 | 776.3 | 608.9 | 311.2 | 82.6  | 25.5 | 14.2 | 7.8 |     |
| 10  | 6.0 | 8.0 | 14.6 | 28.8 | 121.2 | 428.7 | 753.3 | 854.3 | 854.3 | 753.3 | 428.7 | 121.2 | 28.8 | 14.6 | 8.0 | 6.0 |
| 0   |     | 8.0 | 14.6 | 28.8 | 121.2 | 428.7 | 753.3 | 854.3 | 854.3 | 753.3 | 428.7 | 121.2 | 28.8 | 14.6 | 8.0 |     |
| -10 | 5.5 | 7.8 | 14.2 | 25.5 | 82.6  | 311.2 | 608.9 | 776.3 | 776.3 | 608.9 | 311.2 | 82.6  | 25.5 | 14.2 | 7.8 | 5.5 |
| -20 |     | 7.2 | 13.3 | 21.4 | 44.8  | 142.6 | 330.4 | 469.0 | 469.0 | 330.4 | 142.6 | 44.8  | 21.4 | 13.3 | 7.2 |     |
| -30 | 4.1 | 6.4 | 12.1 | 18.3 | 27.7  | 49.3  | 96.4  | 145.3 | 145.3 | 96.4  | 49.3  | 27.7  | 18.3 | 12.1 | 6.4 | 4.1 |
| -40 |     | 5.3 | 10.4 | 15.7 | 21.1  | 27.3  | 34.6  | 40.2  | 40.2  | 34.6  | 27.3  | 21.1  | 15.7 | 10.4 | 5.3 |     |
| -50 | 2.3 | 3.9 | 8.1  | 12.8 | 17.2  | 20.9  | 23.7  | 25.3  | 25.3  | 23.7  | 20.9  | 17.2  | 12.8 | 8.1  | 3.9 | 2.3 |
| -60 |     | 2.5 | 5.3  | 8.7  | 12.2  | 15.3  | 17.5  | 18.7  | 18.7  | 17.5  | 15.3  | 12.2  | 8.7  | 5.3  | 2.5 |     |
| -70 | 0.7 | 5.1 | 13.3 | 21.5 | 24.9  | 21.5  | 13.3  | 5.1   | 0.7   |       |       |       |      |      |     |     |
| -80 |     | 0.7 | 5.1  | 13.3 | 21.5  | 24.9  | 21.5  | 13.3  | 5.1   | 0.7   |       |       |      |      |     |     |
| -90 | 0.7 | 5.1 | 13.3 | 21.5 | 24.9  | 21.5  | 13.3  | 5.1   | 0.7   |       |       |       |      |      |     |     |

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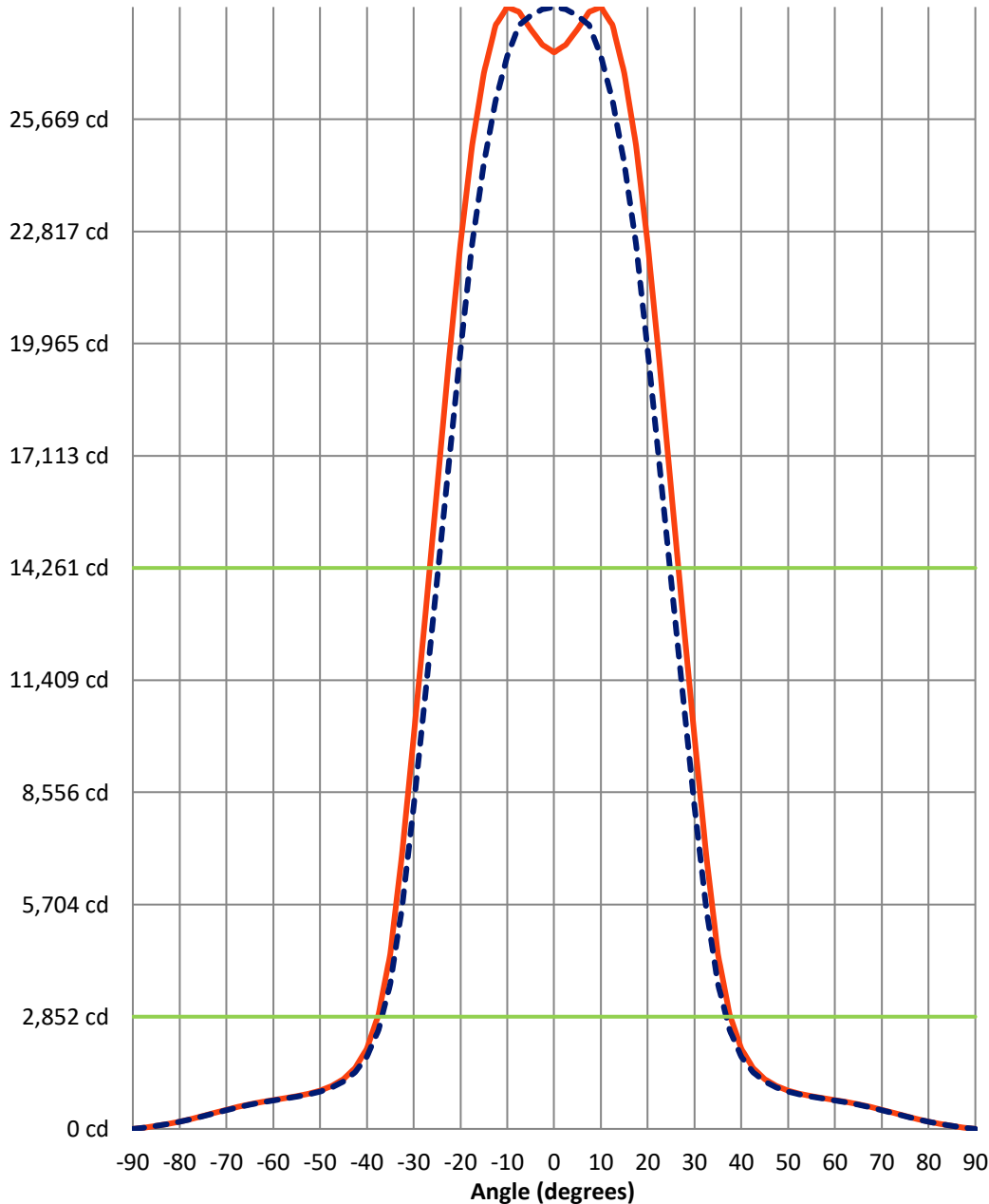
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 10-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 49.5°  
V Angle: 53.1°  
Lumens: 11600.1  
Efficiency: 49.7%

**Field:**  
H Angle: 73.6°  
V Angle: 75.3°  
Lumens: 15086.3  
Efficiency: 64.6%

**Spill:**  
Lumens: 8252.8  
Efficiency: 35.4%

- Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

|       | 0°      | 2.5°    | 5°      | 7.5°    | 10°     | 12.5°   | 15°     | 17.5°   | 20°     | 22.5°   | 25°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 31.5    | 31.5    | 31.5    | 31.5    | 31.5    | 31.5    | 31.5    | 29.1    | 29.1    | 29.1    | 29.1    |
| 85°   | 77.6    | 77.6    | 77.6    | 77.6    | 77.6    | 75.2    | 75.2    | 72.7    | 72.7    | 70.3    | 67.9    |
| 82.5° | 126.1   | 126.1   | 126.1   | 126.1   | 123.6   | 123.6   | 121.2   | 118.8   | 116.4   | 113.9   | 111.5   |
| 80°   | 184.3   | 184.3   | 184.3   | 184.3   | 181.8   | 179.4   | 177.0   | 174.6   | 169.7   | 167.3   | 162.4   |
| 77.5° | 252.1   | 252.1   | 252.1   | 249.7   | 247.3   | 244.9   | 240.0   | 235.2   | 230.3   | 225.5   | 220.6   |
| 75°   | 329.7   | 329.7   | 329.7   | 324.9   | 322.5   | 317.6   | 312.8   | 307.9   | 300.6   | 293.4   | 286.1   |
| 72.5° | 409.7   | 409.7   | 409.7   | 404.9   | 400.0   | 395.2   | 390.3   | 383.1   | 375.8   | 366.1   | 356.4   |
| 70°   | 484.9   | 484.9   | 484.9   | 480.0   | 475.2   | 470.3   | 463.1   | 455.8   | 446.1   | 436.4   | 426.7   |
| 67.5° | 562.5   | 562.5   | 562.5   | 555.2   | 550.4   | 545.5   | 538.2   | 528.5   | 518.8   | 506.7   | 494.6   |
| 65°   | 625.5   | 625.5   | 623.1   | 620.7   | 615.8   | 608.5   | 603.7   | 594.0   | 584.3   | 574.6   | 562.5   |
| 62.5° | 683.7   | 683.7   | 681.3   | 678.8   | 674.0   | 666.7   | 659.5   | 652.2   | 642.5   | 630.4   | 618.2   |
| 60°   | 732.2   | 732.2   | 729.8   | 727.3   | 722.5   | 717.6   | 710.4   | 703.1   | 693.4   | 683.7   | 671.6   |
| 57.5° | 780.7   | 780.7   | 778.2   | 775.8   | 771.0   | 763.7   | 756.4   | 749.2   | 739.5   | 727.3   | 715.2   |
| 55°   | 831.6   | 831.6   | 829.2   | 824.3   | 819.5   | 812.2   | 804.9   | 795.2   | 783.1   | 771.0   | 758.9   |
| 52.5° | 892.2   | 892.2   | 887.4   | 882.5   | 875.2   | 868.0   | 855.8   | 843.7   | 829.2   | 814.6   | 800.1   |
| 50°   | 972.2   | 972.2   | 967.4   | 960.1   | 948.0   | 935.8   | 921.3   | 901.9   | 884.9   | 865.5   | 846.1   |
| 47.5° | 1091.0  | 1091.0  | 1081.3  | 1069.2  | 1052.2  | 1032.8  | 1006.1  | 977.1   | 952.8   | 928.6   | 899.5   |
| 45°   | 1265.6  | 1265.6  | 1251.0  | 1231.6  | 1205.0  | 1171.0  | 1132.2  | 1091.0  | 1049.8  | 1008.6  | 967.4   |
| 42.5° | 1549.2  | 1549.2  | 1522.6  | 1488.6  | 1442.6  | 1384.4  | 1311.6  | 1243.7  | 1185.6  | 1120.1  | 1064.3  |
| 40°   | 2039.0  | 2039.0  | 1988.1  | 1925.0  | 1837.7  | 1726.2  | 1592.9  | 1486.2  | 1384.4  | 1270.4  | 1192.8  |
| 37.5° | 2909.3  | 2909.3  | 2809.9  | 2688.7  | 2519.0  | 2305.7  | 2048.7  | 1876.5  | 1687.4  | 1508.0  | 1377.1  |
| 35°   | 4446.4  | 4446.4  | 4254.9  | 4019.7  | 3692.4  | 3280.3  | 2841.5  | 2516.6  | 2155.3  | 1879.0  | 1634.1  |
| 32.5° | 6967.9  | 6967.9  | 6623.6  | 6199.3  | 5615.0  | 4875.6  | 4172.5  | 3554.3  | 2909.3  | 2451.1  | 2009.9  |
| 30°   | 9964.5  | 9964.5  | 9513.6  | 8958.4  | 8197.1  | 7237.0  | 6235.7  | 5137.4  | 4119.1  | 3302.1  | 2635.4  |
| 27.5° | 13063.0 | 12934.5 | 12546.6 | 11913.8 | 11045.8 | 9964.5  | 8715.9  | 7297.6  | 5920.5  | 4480.4  | 3527.6  |
| 25°   | 16268.1 | 16117.8 | 15674.1 | 14946.8 | 13952.7 | 12728.4 | 11322.2 | 9736.6  | 8037.1  | 6320.6  | 4671.9  |
| 22.5° | 19507.2 | 19337.4 | 18833.2 | 18011.3 | 16896.0 | 15523.8 | 13930.9 | 12168.3 | 10270.0 | 8286.8  | 6320.6  |
| 20°   | 22501.4 | 22322.0 | 21793.4 | 20937.6 | 19783.5 | 18278.0 | 16508.1 | 14554.0 | 12454.4 | 10270.0 | 8037.1  |
| 17.5° | 25008.2 | 24836.1 | 24327.0 | 23509.9 | 22501.4 | 20835.8 | 18995.6 | 16847.5 | 14554.0 | 12168.3 | 9736.6  |
| 15°   | 26838.7 | 26690.8 | 26256.8 | 25570.7 | 24542.8 | 23068.7 | 21194.6 | 18995.6 | 16508.1 | 13930.9 | 11322.2 |
| 12.5° | 28053.4 | 27934.6 | 27592.7 | 27059.3 | 26138.0 | 24901.6 | 23068.7 | 20835.8 | 18278.0 | 15523.8 | 12728.4 |
| 10°   | 28521.3 | 28463.1 | 28303.1 | 28058.2 | 27272.7 | 26138.0 | 24542.8 | 22501.4 | 19783.5 | 16896.0 | 13952.7 |
| 7.5°  | 28397.6 | 28417.0 | 28472.8 | 28409.8 | 28058.2 | 27059.3 | 25570.7 | 23509.9 | 20937.6 | 18011.3 | 14946.8 |
| 5°    | 27956.4 | 28060.6 | 28320.1 | 28472.8 | 28303.1 | 27592.7 | 26256.8 | 24327.0 | 21793.4 | 18833.2 | 15674.1 |
| 2.5°  | 27563.6 | 27726.1 | 28060.6 | 28417.0 | 28463.1 | 27934.6 | 26690.8 | 24836.1 | 22322.0 | 19337.4 | 16117.8 |
| 0°    | 27369.7 | 27563.6 | 27956.4 | 28397.6 | 28521.3 | 28053.4 | 26838.7 | 25008.2 | 22501.4 | 19507.2 | 16268.1 |



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**CANDELA DISTRIBUTION (continued):**

|       | 27.5°   | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°   | 52.5° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |
| 87.5° | 29.1    | 26.7   | 26.7   | 26.7   | 24.2   | 24.2   | 24.2   | 21.8   | 21.8   | 19.4  | 19.4  |
| 85°   | 67.9    | 65.5   | 63.0   | 60.6   | 58.2   | 55.8   | 53.3   | 50.9   | 48.5   | 43.6  | 41.2  |
| 82.5° | 109.1   | 106.7  | 104.3  | 99.4   | 97.0   | 92.1   | 87.3   | 82.4   | 77.6   | 75.2  | 70.3  |
| 80°   | 157.6   | 152.7  | 147.9  | 143.0  | 135.8  | 128.5  | 123.6  | 116.4  | 111.5  | 104.3 | 99.4  |
| 77.5° | 213.4   | 206.1  | 198.8  | 189.1  | 181.8  | 174.6  | 164.9  | 157.6  | 147.9  | 138.2 | 128.5 |
| 75°   | 276.4   | 266.7  | 254.6  | 244.9  | 235.2  | 223.0  | 210.9  | 198.8  | 186.7  | 174.6 | 162.4 |
| 72.5° | 344.3   | 332.2  | 320.0  | 307.9  | 293.4  | 276.4  | 261.8  | 244.9  | 230.3  | 215.8 | 198.8 |
| 70°   | 414.6   | 400.0  | 385.5  | 370.9  | 354.0  | 334.6  | 317.6  | 298.2  | 278.8  | 259.4 | 240.0 |
| 67.5° | 480.0   | 465.5  | 448.5  | 434.0  | 414.6  | 395.2  | 373.4  | 351.5  | 329.7  | 305.5 | 281.2 |
| 65°   | 547.9   | 531.0  | 511.6  | 492.2  | 472.8  | 450.9  | 429.1  | 407.3  | 380.6  | 354.0 | 329.7 |
| 62.5° | 603.7   | 589.1  | 572.2  | 552.8  | 531.0  | 506.7  | 484.9  | 455.8  | 429.1  | 402.5 | 370.9 |
| 60°   | 657.0   | 640.1  | 625.5  | 603.7  | 584.3  | 562.5  | 535.8  | 506.7  | 477.6  | 446.1 | 417.0 |
| 57.5° | 703.1   | 688.5  | 671.6  | 652.2  | 630.4  | 608.5  | 584.3  | 557.6  | 523.7  | 492.2 | 458.2 |
| 55°   | 744.3   | 727.3  | 710.4  | 693.4  | 674.0  | 649.8  | 625.5  | 598.8  | 569.7  | 535.8 | 499.4 |
| 52.5° | 785.5   | 768.6  | 749.2  | 732.2  | 710.4  | 688.5  | 664.3  | 637.6  | 608.5  | 577.0 | 538.2 |
| 50°   | 826.7   | 807.3  | 787.9  | 766.1  | 744.3  | 722.5  | 698.2  | 674.0  | 642.5  | 611.0 | 577.0 |
| 47.5° | 875.2   | 851.0  | 826.7  | 802.5  | 780.7  | 754.0  | 729.8  | 703.1  | 676.4  | 642.5 | 608.5 |
| 45°   | 935.8   | 899.5  | 870.4  | 841.3  | 814.6  | 787.9  | 758.9  | 732.2  | 703.1  | 674.0 | 637.6 |
| 42.5° | 1011.0  | 962.5  | 923.7  | 884.9  | 851.0  | 819.5  | 790.4  | 758.9  | 729.8  | 698.2 | 664.3 |
| 40°   | 1112.8  | 1047.4 | 984.3  | 935.8  | 892.2  | 853.4  | 819.5  | 787.9  | 754.0  | 722.5 | 688.5 |
| 37.5° | 1246.2  | 1154.0 | 1066.8 | 996.5  | 940.7  | 892.2  | 851.0  | 814.6  | 780.7  | 744.3 | 710.4 |
| 35°   | 1447.4  | 1287.4 | 1175.9 | 1074.0 | 996.5  | 935.8  | 884.9  | 841.3  | 802.5  | 766.1 | 732.2 |
| 32.5° | 1731.1  | 1483.8 | 1304.4 | 1175.9 | 1066.8 | 984.3  | 923.7  | 870.4  | 826.7  | 787.9 | 749.2 |
| 30°   | 2104.4  | 1762.6 | 1483.8 | 1287.4 | 1154.0 | 1047.4 | 962.5  | 899.5  | 851.0  | 807.3 | 768.6 |
| 27.5° | 2696.0  | 2104.4 | 1731.1 | 1447.4 | 1246.2 | 1112.8 | 1011.0 | 935.8  | 875.2  | 826.7 | 785.5 |
| 25°   | 3527.6  | 2635.4 | 2009.9 | 1634.1 | 1377.1 | 1192.8 | 1064.3 | 967.4  | 899.5  | 846.1 | 800.1 |
| 22.5° | 4480.4  | 3302.1 | 2451.1 | 1879.0 | 1508.0 | 1270.4 | 1120.1 | 1008.6 | 928.6  | 865.5 | 814.6 |
| 20°   | 5920.5  | 4119.1 | 2909.3 | 2155.3 | 1687.4 | 1384.4 | 1185.6 | 1049.8 | 952.8  | 884.9 | 829.2 |
| 17.5° | 7297.6  | 5137.4 | 3554.3 | 2516.6 | 1876.5 | 1486.2 | 1243.7 | 1091.0 | 977.1  | 901.9 | 843.7 |
| 15°   | 8715.9  | 6235.7 | 4172.5 | 2841.5 | 2048.7 | 1592.9 | 1311.6 | 1132.2 | 1006.1 | 921.3 | 855.8 |
| 12.5° | 9964.5  | 7237.0 | 4875.6 | 3280.3 | 2305.7 | 1726.2 | 1384.4 | 1171.0 | 1032.8 | 935.8 | 868.0 |
| 10°   | 11045.8 | 8197.1 | 5615.0 | 3692.4 | 2519.0 | 1837.7 | 1442.6 | 1205.0 | 1052.2 | 948.0 | 875.2 |
| 7.5°  | 11913.8 | 8958.4 | 6199.3 | 4019.7 | 2688.7 | 1925.0 | 1488.6 | 1231.6 | 1069.2 | 960.1 | 882.5 |
| 5°    | 12546.6 | 9513.6 | 6623.6 | 4254.9 | 2809.9 | 1988.1 | 1522.6 | 1251.0 | 1081.3 | 967.4 | 887.4 |
| 2.5°  | 12934.5 | 9964.5 | 6967.9 | 4446.4 | 2909.3 | 2039.0 | 1549.2 | 1265.6 | 1091.0 | 972.2 | 892.2 |
| 0°    | 13063.0 | 9964.5 | 6967.9 | 4446.4 | 2909.3 | 2039.0 | 1549.2 | 1265.6 | 1091.0 | 972.2 | 892.2 |





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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 17.0  | 17.0  | 14.5  | 14.5  | 12.1  | 12.1  | 9.7   | 9.7   | 7.3   | 7.3   | 4.8   |
| 85°   | 38.8  | 33.9  | 31.5  | 29.1  | 26.7  | 24.2  | 21.8  | 19.4  | 17.0  | 14.5  | 12.1  |
| 82.5° | 65.5  | 60.6  | 53.3  | 48.5  | 43.6  | 38.8  | 31.5  | 29.1  | 24.2  | 19.4  | 17.0  |
| 80°   | 92.1  | 84.9  | 77.6  | 70.3  | 63.0  | 55.8  | 48.5  | 41.2  | 33.9  | 26.7  | 21.8  |
| 77.5° | 118.8 | 109.1 | 101.8 | 92.1  | 82.4  | 72.7  | 63.0  | 53.3  | 43.6  | 33.9  | 26.7  |
| 75°   | 150.3 | 138.2 | 126.1 | 113.9 | 101.8 | 89.7  | 80.0  | 67.9  | 55.8  | 43.6  | 33.9  |
| 72.5° | 184.3 | 167.3 | 152.7 | 138.2 | 121.2 | 109.1 | 94.6  | 82.4  | 67.9  | 53.3  | 41.2  |
| 70°   | 220.6 | 201.2 | 181.8 | 162.4 | 145.5 | 126.1 | 111.5 | 94.6  | 80.0  | 63.0  | 48.5  |
| 67.5° | 257.0 | 235.2 | 213.4 | 189.1 | 167.3 | 147.9 | 126.1 | 109.1 | 89.7  | 72.7  | 55.8  |
| 65°   | 300.6 | 271.5 | 244.9 | 218.2 | 191.5 | 167.3 | 145.5 | 121.2 | 101.8 | 82.4  | 63.0  |
| 62.5° | 341.8 | 310.3 | 278.8 | 247.3 | 218.2 | 189.1 | 162.4 | 138.2 | 113.9 | 92.1  | 70.3  |
| 60°   | 383.1 | 349.1 | 312.8 | 278.8 | 244.9 | 213.4 | 181.8 | 152.7 | 126.1 | 101.8 | 77.6  |
| 57.5° | 424.3 | 385.5 | 349.1 | 310.3 | 271.5 | 235.2 | 201.2 | 167.3 | 138.2 | 109.1 | 84.9  |
| 55°   | 460.6 | 424.3 | 383.1 | 341.8 | 300.6 | 257.0 | 220.6 | 184.3 | 150.3 | 118.8 | 92.1  |
| 52.5° | 499.4 | 458.2 | 417.0 | 370.9 | 329.7 | 281.2 | 240.0 | 198.8 | 162.4 | 128.5 | 99.4  |
| 50°   | 535.8 | 492.2 | 446.1 | 402.5 | 354.0 | 305.5 | 259.4 | 215.8 | 174.6 | 138.2 | 104.3 |
| 47.5° | 569.7 | 523.7 | 477.6 | 429.1 | 380.6 | 329.7 | 278.8 | 230.3 | 186.7 | 147.9 | 111.5 |
| 45°   | 598.8 | 557.6 | 506.7 | 455.8 | 407.3 | 351.5 | 298.2 | 244.9 | 198.8 | 157.6 | 116.4 |
| 42.5° | 625.5 | 584.3 | 535.8 | 484.9 | 429.1 | 373.4 | 317.6 | 261.8 | 210.9 | 164.9 | 123.6 |
| 40°   | 649.8 | 608.5 | 562.5 | 506.7 | 450.9 | 395.2 | 334.6 | 276.4 | 223.0 | 174.6 | 128.5 |
| 37.5° | 674.0 | 630.4 | 584.3 | 531.0 | 472.8 | 414.6 | 354.0 | 293.4 | 235.2 | 181.8 | 135.8 |
| 35°   | 693.4 | 652.2 | 603.7 | 552.8 | 492.2 | 434.0 | 370.9 | 307.9 | 244.9 | 189.1 | 143.0 |
| 32.5° | 710.4 | 671.6 | 625.5 | 572.2 | 511.6 | 448.5 | 385.5 | 320.0 | 254.6 | 198.8 | 147.9 |
| 30°   | 727.3 | 688.5 | 640.1 | 589.1 | 531.0 | 465.5 | 400.0 | 332.2 | 266.7 | 206.1 | 152.7 |
| 27.5° | 744.3 | 703.1 | 657.0 | 603.7 | 547.9 | 480.0 | 414.6 | 344.3 | 276.4 | 213.4 | 157.6 |
| 25°   | 758.9 | 715.2 | 671.6 | 618.2 | 562.5 | 494.6 | 426.7 | 356.4 | 286.1 | 220.6 | 162.4 |
| 22.5° | 771.0 | 727.3 | 683.7 | 630.4 | 574.6 | 506.7 | 436.4 | 366.1 | 293.4 | 225.5 | 167.3 |
| 20°   | 783.1 | 739.5 | 693.4 | 642.5 | 584.3 | 518.8 | 446.1 | 375.8 | 300.6 | 230.3 | 169.7 |
| 17.5° | 795.2 | 749.2 | 703.1 | 652.2 | 594.0 | 528.5 | 455.8 | 383.1 | 307.9 | 235.2 | 174.6 |
| 15°   | 804.9 | 756.4 | 710.4 | 659.5 | 603.7 | 538.2 | 463.1 | 390.3 | 312.8 | 240.0 | 177.0 |
| 12.5° | 812.2 | 763.7 | 717.6 | 666.7 | 608.5 | 545.5 | 470.3 | 395.2 | 317.6 | 244.9 | 179.4 |
| 10°   | 819.5 | 771.0 | 722.5 | 674.0 | 615.8 | 550.4 | 475.2 | 400.0 | 322.5 | 247.3 | 181.8 |
| 7.5°  | 824.3 | 775.8 | 727.3 | 678.8 | 620.7 | 555.2 | 480.0 | 404.9 | 324.9 | 249.7 | 184.3 |
| 5°    | 829.2 | 778.2 | 729.8 | 681.3 | 623.1 | 562.5 | 484.9 | 409.7 | 329.7 | 252.1 | 184.3 |
| 2.5°  | 831.6 | 780.7 | 732.2 | 683.7 | 625.5 | 562.5 | 484.9 | 409.7 | 329.7 | 252.1 | 184.3 |
| 0°    | 831.6 | 780.7 | 732.2 | 683.7 | 625.5 | 562.5 | 484.9 | 409.7 | 329.7 | 252.1 | 184.3 |



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| 17.5° | 118.8 | 72.7 | 29.1  | 0.0 |
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