

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: P624155

Luminaire Tested: **EPH-VN-08-E-760-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624155  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-760-U-55  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens  
Light Source: (128) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

|                   |                                    |                      |                 |
|-------------------|------------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                                | NEMA Type:           | 5H x 5V         |
| Luminaire Lumens: | 73022.2 lumens                     | Max Intensity:       | 89236.2 candela |
| Efficiency:       | N/A                                | Max Intensity Angle: | 0°H x 10°V      |
| Efficacy:         | 116.5 lumens/watt                  |                      |                 |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') |                      |                 |

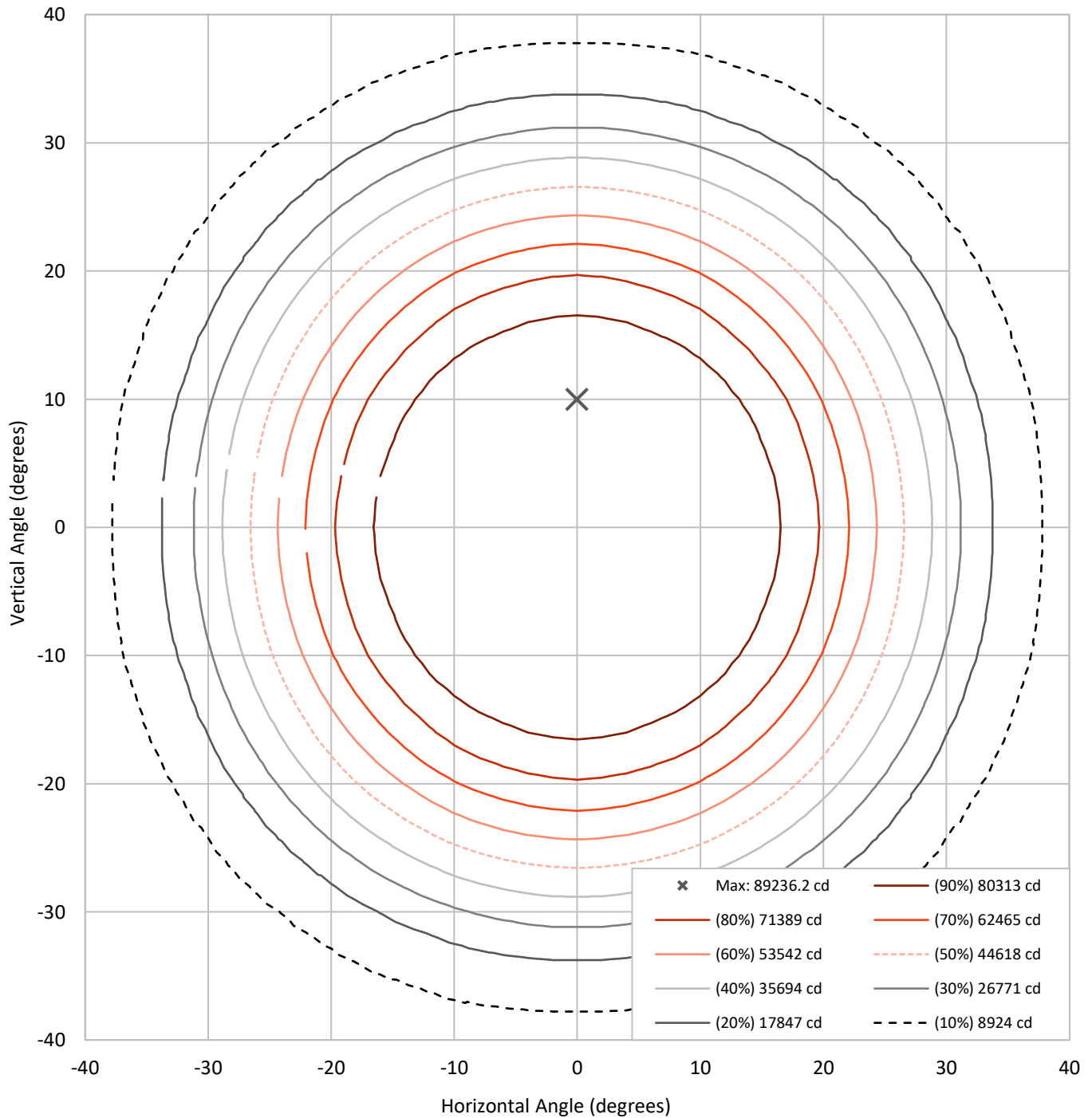
|                   |                 |                    |                 |
|-------------------|-----------------|--------------------|-----------------|
| Beam Angle (50%): | 49.5°H x 53.1°V | Field Angle (10%): | 73.6°H x 75.3°V |
| Beam Lumens:      | 36293.9 lumens  | Field Lumens:      | 47201.3 lumens  |
| Beam Efficiency:  | 49.7%           | Field Efficiency:  | 64.6%           |

Input Watts (W): 626.8  
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





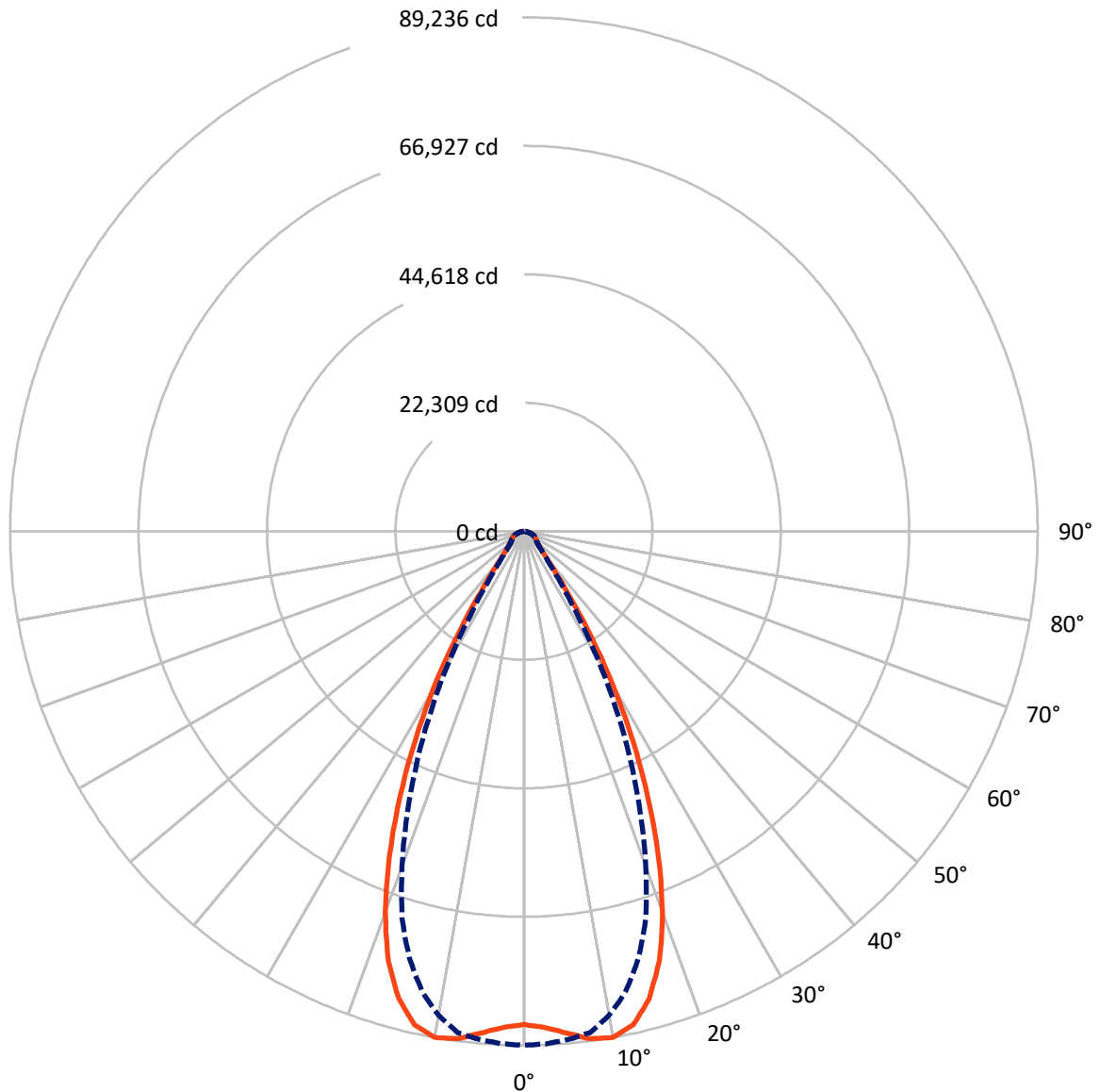
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### Lumen Table

|     |      |      |      |      |       |        |        |        |        |        |        |       |      |      |      |      |
|-----|------|------|------|------|-------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|
| 90  | 2.1  | 16.0 | 41.8 | 67.4 | 78.0  | 67.4   | 41.8   | 16.0   | 2.1    |        |        |       |      |      |      |      |
| 80  | 2.1  | 16.0 | 41.8 | 67.4 | 78.0  | 67.4   | 41.8   | 16.0   | 2.1    |        |        |       |      |      |      |      |
| 70  | 7.3  | 7.9  | 16.5 | 27.3 | 38.3  | 47.9   | 54.8   | 58.5   | 58.5   | 54.8   | 47.9   | 38.3  | 27.3 | 16.5 | 7.9  | 7.3  |
| 60  |      | 12.3 | 25.3 | 40.1 | 53.8  | 65.4   | 74.2   | 79.2   | 79.2   | 74.2   | 65.4   | 53.8  | 40.1 | 25.3 | 12.3 |      |
| 50  | 13.0 | 16.5 | 32.6 | 49.3 | 66.1  | 85.5   | 108.3  | 125.8  | 125.8  | 108.3  | 85.5   | 66.1  | 49.3 | 32.6 | 16.5 | 13.0 |
| 40  |      | 20.0 | 37.8 | 57.1 | 86.6  | 154.3  | 301.5  | 454.7  | 454.7  | 301.5  | 154.3  | 86.6  | 57.1 | 37.8 | 20.0 |      |
| 30  | 17.3 | 22.6 | 41.5 | 67.0 | 140.0 | 446.2  | 1033.8 | 1467.3 | 1467.3 | 1033.8 | 446.2  | 140.0 | 67.0 | 41.5 | 22.6 | 17.3 |
| 20  |      | 24.3 | 44.3 | 79.9 | 258.4 | 973.8  | 1905.2 | 2428.8 | 2428.8 | 1905.2 | 973.8  | 258.4 | 79.9 | 44.3 | 24.3 |      |
| 10  | 18.8 | 25.1 | 45.8 | 90.2 | 379.3 | 1341.4 | 2357.0 | 2672.9 | 2672.9 | 2357.0 | 1341.4 | 379.3 | 90.2 | 45.8 | 25.1 | 18.8 |
| 0   |      | 25.1 | 45.8 | 90.2 | 379.3 | 1341.4 | 2357.0 | 2672.9 | 2672.9 | 2357.0 | 1341.4 | 379.3 | 90.2 | 45.8 | 25.1 |      |
| -10 | 17.3 | 24.3 | 44.3 | 79.9 | 258.4 | 973.8  | 1905.2 | 2428.8 | 2428.8 | 1905.2 | 973.8  | 258.4 | 79.9 | 44.3 | 24.3 | 17.3 |
| -20 |      | 22.6 | 41.5 | 67.0 | 140.0 | 446.2  | 1033.8 | 1467.3 | 1467.3 | 1033.8 | 446.2  | 140.0 | 67.0 | 41.5 | 22.6 |      |
| -30 | 13.0 | 20.0 | 37.8 | 57.1 | 86.6  | 154.3  | 301.5  | 454.7  | 454.7  | 301.5  | 154.3  | 86.6  | 57.1 | 37.8 | 20.0 | 13.0 |
| -40 |      | 16.5 | 32.6 | 49.3 | 66.1  | 85.5   | 108.3  | 125.8  | 125.8  | 108.3  | 85.5   | 66.1  | 49.3 | 32.6 | 16.5 |      |
| -50 | 7.3  | 12.3 | 25.3 | 40.1 | 53.8  | 65.4   | 74.2   | 79.2   | 79.2   | 74.2   | 65.4   | 53.8  | 40.1 | 25.3 | 12.3 | 7.3  |
| -60 |      | 7.9  | 16.5 | 27.3 | 38.3  | 47.9   | 54.8   | 58.5   | 58.5   | 54.8   | 47.9   | 38.3  | 27.3 | 16.5 | 7.9  |      |
| -70 | 2.1  | 16.0 | 41.8 | 67.4 | 78.0  | 67.4   | 41.8   | 16.0   | 2.1    |        |        |       |      |      |      |      |
| -80 |      | 2.1  | 16.0 | 41.8 | 67.4  | 78.0   | 67.4   | 41.8   | 16.0   | 2.1    |        |       |      |      |      |      |
| -90 | 2.1  | 16.0 | 41.8 | 67.4 | 78.0  | 67.4   | 41.8   | 16.0   | 2.1    |        |        |       |      |      |      |      |

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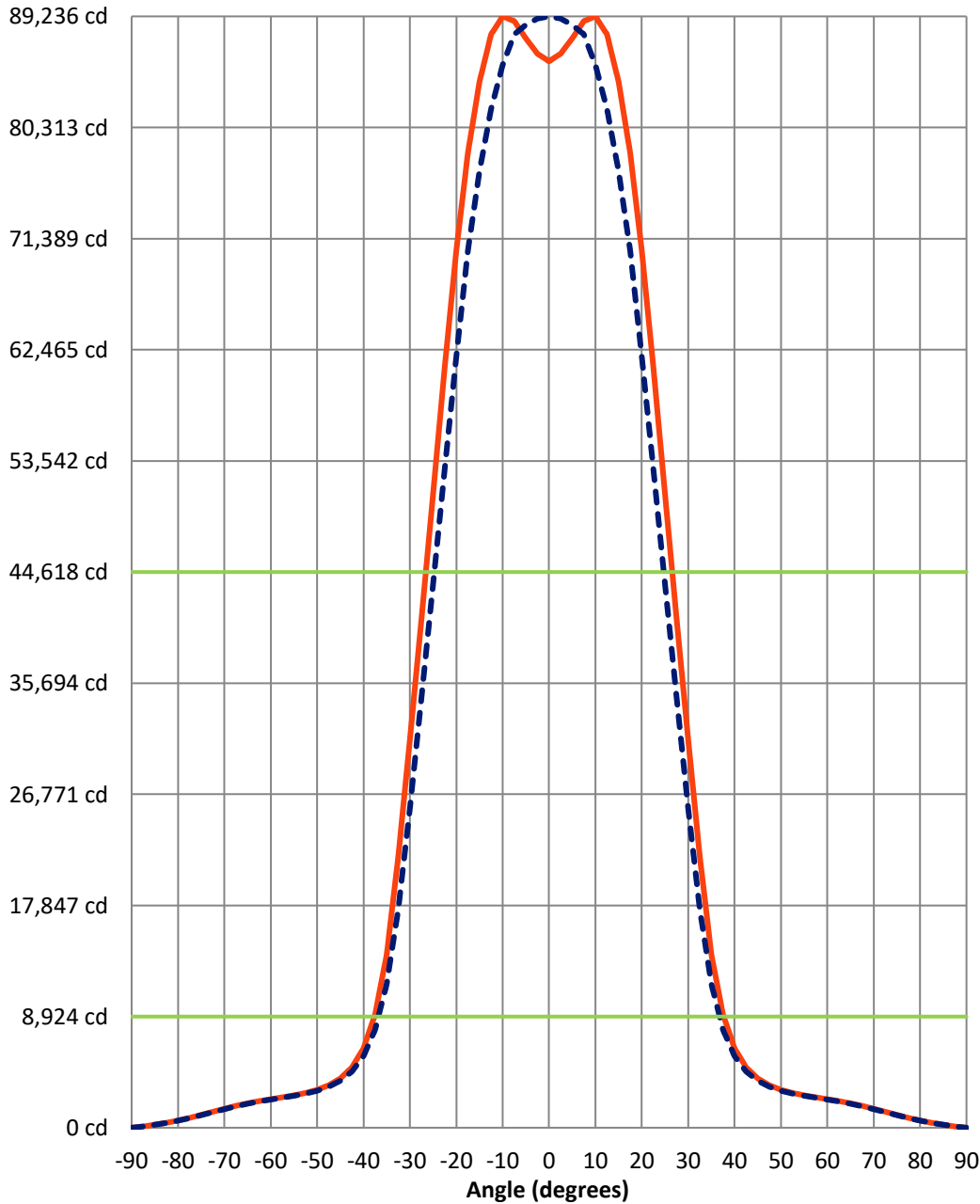
### Luminous Intensity Polar Plot



— 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: 36293.9  
 Efficiency: 49.7%

**Field:**  
 H Angle: 73.6°  
 V Angle: 75.3°  
 Lumens: 47201.3  
 Efficiency: 64.6%

**Spill:**  
 Lumens: 25821  
 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° | 98.6    | 98.6    | 98.6    | 98.6    | 98.6    | 98.6    | 98.6    | 91.0    | 91.0    | 91.0    | 91.0    |
| 85°   | 242.7   | 242.7   | 242.7   | 242.7   | 242.7   | 235.2   | 235.2   | 227.6   | 227.6   | 220.0   | 212.4   |
| 82.5° | 394.4   | 394.4   | 394.4   | 394.4   | 386.9   | 386.9   | 379.3   | 371.7   | 364.1   | 356.5   | 348.9   |
| 80°   | 576.5   | 576.5   | 576.5   | 576.5   | 568.9   | 561.3   | 553.7   | 546.2   | 531.0   | 523.4   | 508.2   |
| 77.5° | 788.9   | 788.9   | 788.9   | 781.3   | 773.7   | 766.1   | 751.0   | 735.8   | 720.6   | 705.5   | 690.3   |
| 75°   | 1031.6  | 1031.6  | 1031.6  | 1016.5  | 1008.9  | 993.7   | 978.5   | 963.4   | 940.6   | 917.8   | 895.1   |
| 72.5° | 1282.0  | 1282.0  | 1282.0  | 1266.8  | 1251.6  | 1236.4  | 1221.3  | 1198.5  | 1175.8  | 1145.4  | 1115.1  |
| 70°   | 1517.1  | 1517.1  | 1517.1  | 1501.9  | 1486.8  | 1471.6  | 1448.8  | 1426.1  | 1395.7  | 1365.4  | 1335.1  |
| 67.5° | 1759.8  | 1759.8  | 1759.8  | 1737.1  | 1721.9  | 1706.7  | 1684.0  | 1653.6  | 1623.3  | 1585.4  | 1547.4  |
| 65°   | 1957.1  | 1957.1  | 1949.5  | 1941.9  | 1926.7  | 1904.0  | 1888.8  | 1858.5  | 1828.1  | 1797.8  | 1759.8  |
| 62.5° | 2139.1  | 2139.1  | 2131.5  | 2123.9  | 2108.8  | 2086.0  | 2063.3  | 2040.5  | 2010.2  | 1972.2  | 1934.3  |
| 60°   | 2290.8  | 2290.8  | 2283.2  | 2275.7  | 2260.5  | 2245.3  | 2222.6  | 2199.8  | 2169.5  | 2139.1  | 2101.2  |
| 57.5° | 2442.5  | 2442.5  | 2435.0  | 2427.4  | 2412.2  | 2389.4  | 2366.7  | 2343.9  | 2313.6  | 2275.7  | 2237.7  |
| 55°   | 2601.8  | 2601.8  | 2594.3  | 2579.1  | 2563.9  | 2541.2  | 2518.4  | 2488.1  | 2450.1  | 2412.2  | 2374.3  |
| 52.5° | 2791.5  | 2791.5  | 2776.3  | 2761.1  | 2738.4  | 2715.6  | 2677.7  | 2639.8  | 2594.3  | 2548.7  | 2503.2  |
| 50°   | 3041.8  | 3041.8  | 3026.6  | 3003.9  | 2965.9  | 2928.0  | 2882.5  | 2821.8  | 2768.7  | 2708.0  | 2647.4  |
| 47.5° | 3413.5  | 3413.5  | 3383.1  | 3345.2  | 3292.1  | 3231.4  | 3148.0  | 3057.0  | 2981.1  | 2905.3  | 2814.2  |
| 45°   | 3959.6  | 3959.6  | 3914.1  | 3853.5  | 3770.0  | 3663.8  | 3542.4  | 3413.5  | 3284.5  | 3155.6  | 3026.6  |
| 42.5° | 4847.2  | 4847.2  | 4763.7  | 4657.5  | 4513.4  | 4331.3  | 4103.8  | 3891.4  | 3709.3  | 3504.5  | 3330.0  |
| 40°   | 6379.4  | 6379.4  | 6220.1  | 6022.9  | 5749.8  | 5400.9  | 4983.7  | 4649.9  | 4331.3  | 3974.8  | 3732.1  |
| 37.5° | 9102.6  | 9102.6  | 8791.6  | 8412.4  | 7881.4  | 7213.8  | 6409.8  | 5871.2  | 5279.5  | 4718.2  | 4308.6  |
| 35°   | 13911.9 | 13911.9 | 13312.6 | 12576.8 | 11552.8 | 10263.2 | 8890.2  | 7873.8  | 6743.5  | 5878.8  | 5112.7  |
| 32.5° | 21800.8 | 21800.8 | 20723.7 | 19396.2 | 17568.1 | 15254.5 | 13054.7 | 11120.4 | 9102.6  | 7669.0  | 6288.4  |
| 30°   | 31176.5 | 31176.5 | 29765.6 | 28028.6 | 25646.7 | 22642.8 | 19510.0 | 16073.7 | 12887.8 | 10331.5 | 8245.5  |
| 27.5° | 40870.9 | 40468.8 | 39255.1 | 37275.3 | 34559.7 | 31176.5 | 27270.0 | 22832.5 | 18523.9 | 14018.1 | 11037.0 |
| 25°   | 50898.9 | 50428.6 | 49040.5 | 46764.8 | 43654.8 | 39824.1 | 35424.4 | 30463.5 | 25146.0 | 19775.5 | 14617.3 |
| 22.5° | 61033.2 | 60502.2 | 58924.4 | 56352.9 | 52863.6 | 48570.2 | 43586.5 | 38071.8 | 32132.3 | 25927.4 | 19775.5 |
| 20°   | 70401.3 | 69840.0 | 68186.4 | 65508.7 | 61898.0 | 57187.3 | 51649.9 | 45536.0 | 38966.9 | 32132.3 | 25146.0 |
| 17.5° | 78244.8 | 77706.2 | 76113.3 | 73556.9 | 70401.3 | 65190.1 | 59432.7 | 52711.9 | 45536.0 | 38071.8 | 30463.5 |
| 15°   | 83971.9 | 83509.2 | 82151.3 | 80004.6 | 76788.4 | 72176.4 | 66312.7 | 59432.7 | 51649.9 | 43586.5 | 35424.4 |
| 12.5° | 87772.2 | 87400.5 | 86331.0 | 84662.2 | 81779.7 | 77911.0 | 72176.4 | 65190.1 | 57187.3 | 48570.2 | 39824.1 |
| 10°   | 89236.2 | 89054.2 | 88553.5 | 87787.4 | 85329.7 | 81779.7 | 76788.4 | 70401.3 | 61898.0 | 52863.6 | 43654.8 |
| 7.5°  | 88849.4 | 88910.1 | 89084.5 | 88887.3 | 87787.4 | 84662.2 | 80004.6 | 73556.9 | 65508.7 | 56352.9 | 46764.8 |
| 5°    | 87468.8 | 87795.0 | 88606.6 | 89084.5 | 88553.5 | 86331.0 | 82151.3 | 76113.3 | 68186.4 | 58924.4 | 49040.5 |
| 2.5°  | 86239.9 | 86748.2 | 87795.0 | 88910.1 | 89054.2 | 87400.5 | 83509.2 | 77706.2 | 69840.0 | 60502.2 | 50428.6 |
| 0°    | 85633.1 | 86239.9 | 87468.8 | 88849.4 | 89236.2 | 87772.2 | 83971.9 | 78244.8 | 70401.3 | 61033.2 | 50898.9 |



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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° | 91.0    | 83.4    | 83.4    | 83.4    | 75.9   | 75.9   | 75.9   | 68.3   | 68.3   | 60.7   | 60.7   |
| 85°   | 212.4   | 204.8   | 197.2   | 189.6   | 182.1  | 174.5  | 166.9  | 159.3  | 151.7  | 136.5  | 129.0  |
| 82.5° | 341.3   | 333.8   | 326.2   | 311.0   | 303.4  | 288.3  | 273.1  | 257.9  | 242.7  | 235.2  | 220.0  |
| 80°   | 493.1   | 477.9   | 462.7   | 447.5   | 424.8  | 402.0  | 386.9  | 364.1  | 348.9  | 326.2  | 311.0  |
| 77.5° | 667.5   | 644.8   | 622.0   | 591.7   | 568.9  | 546.2  | 515.8  | 493.1  | 462.7  | 432.4  | 402.0  |
| 75°   | 864.8   | 834.4   | 796.5   | 766.1   | 735.8  | 697.9  | 659.9  | 622.0  | 584.1  | 546.2  | 508.2  |
| 72.5° | 1077.1  | 1039.2  | 1001.3  | 963.4   | 917.8  | 864.8  | 819.2  | 766.1  | 720.6  | 675.1  | 622.0  |
| 70°   | 1297.1  | 1251.6  | 1206.1  | 1160.6  | 1107.5 | 1046.8 | 993.7  | 933.0  | 872.3  | 811.7  | 751.0  |
| 67.5° | 1501.9  | 1456.4  | 1403.3  | 1357.8  | 1297.1 | 1236.4 | 1168.2 | 1099.9 | 1031.6 | 955.8  | 879.9  |
| 65°   | 1714.3  | 1661.2  | 1600.5  | 1539.9  | 1479.2 | 1410.9 | 1342.6 | 1274.4 | 1190.9 | 1107.5 | 1031.6 |
| 62.5° | 1888.8  | 1843.3  | 1790.2  | 1729.5  | 1661.2 | 1585.4 | 1517.1 | 1426.1 | 1342.6 | 1259.2 | 1160.6 |
| 60°   | 2055.7  | 2002.6  | 1957.1  | 1888.8  | 1828.1 | 1759.8 | 1676.4 | 1585.4 | 1494.4 | 1395.7 | 1304.7 |
| 57.5° | 2199.8  | 2154.3  | 2101.2  | 2040.5  | 1972.2 | 1904.0 | 1828.1 | 1744.7 | 1638.5 | 1539.9 | 1433.7 |
| 55°   | 2328.8  | 2275.7  | 2222.6  | 2169.5  | 2108.8 | 2032.9 | 1957.1 | 1873.6 | 1782.6 | 1676.4 | 1562.6 |
| 52.5° | 2457.7  | 2404.6  | 2343.9  | 2290.8  | 2222.6 | 2154.3 | 2078.4 | 1995.0 | 1904.0 | 1805.4 | 1684.0 |
| 50°   | 2586.7  | 2526.0  | 2465.3  | 2397.0  | 2328.8 | 2260.5 | 2184.6 | 2108.8 | 2010.2 | 1911.6 | 1805.4 |
| 47.5° | 2738.4  | 2662.5  | 2586.7  | 2510.8  | 2442.5 | 2359.1 | 2283.2 | 2199.8 | 2116.4 | 2010.2 | 1904.0 |
| 45°   | 2928.0  | 2814.2  | 2723.2  | 2632.2  | 2548.7 | 2465.3 | 2374.3 | 2290.8 | 2199.8 | 2108.8 | 1995.0 |
| 42.5° | 3163.2  | 3011.5  | 2890.1  | 2768.7  | 2662.5 | 2563.9 | 2472.9 | 2374.3 | 2283.2 | 2184.6 | 2078.4 |
| 40°   | 3481.8  | 3277.0  | 3079.7  | 2928.0  | 2791.5 | 2670.1 | 2563.9 | 2465.3 | 2359.1 | 2260.5 | 2154.3 |
| 37.5° | 3899.0  | 3610.7  | 3337.6  | 3117.7  | 2943.2 | 2791.5 | 2662.5 | 2548.7 | 2442.5 | 2328.8 | 2222.6 |
| 35°   | 4528.6  | 4027.9  | 3679.0  | 3360.4  | 3117.7 | 2928.0 | 2768.7 | 2632.2 | 2510.8 | 2397.0 | 2290.8 |
| 32.5° | 5416.1  | 4642.3  | 4081.0  | 3679.0  | 3337.6 | 3079.7 | 2890.1 | 2723.2 | 2586.7 | 2465.3 | 2343.9 |
| 30°   | 6584.2  | 5514.7  | 4642.3  | 4027.9  | 3610.7 | 3277.0 | 3011.5 | 2814.2 | 2662.5 | 2526.0 | 2404.6 |
| 27.5° | 8435.1  | 6584.2  | 5416.1  | 4528.6  | 3899.0 | 3481.8 | 3163.2 | 2928.0 | 2738.4 | 2586.7 | 2457.7 |
| 25°   | 11037.0 | 8245.5  | 6288.4  | 5112.7  | 4308.6 | 3732.1 | 3330.0 | 3026.6 | 2814.2 | 2647.4 | 2503.2 |
| 22.5° | 14018.1 | 10331.5 | 7669.0  | 5878.8  | 4718.2 | 3974.8 | 3504.5 | 3155.6 | 2905.3 | 2708.0 | 2548.7 |
| 20°   | 18523.9 | 12887.8 | 9102.6  | 6743.5  | 5279.5 | 4331.3 | 3709.3 | 3284.5 | 2981.1 | 2768.7 | 2594.3 |
| 17.5° | 22832.5 | 16073.7 | 11120.4 | 7873.8  | 5871.2 | 4649.9 | 3891.4 | 3413.5 | 3057.0 | 2821.8 | 2639.8 |
| 15°   | 27270.0 | 19510.0 | 13054.7 | 8890.2  | 6409.8 | 4983.7 | 4103.8 | 3542.4 | 3148.0 | 2882.5 | 2677.7 |
| 12.5° | 31176.5 | 22642.8 | 15254.5 | 10263.2 | 7213.8 | 5400.9 | 4331.3 | 3663.8 | 3231.4 | 2928.0 | 2715.6 |
| 10°   | 34559.7 | 25646.7 | 17568.1 | 11552.8 | 7881.4 | 5749.8 | 4513.4 | 3770.0 | 3292.1 | 2965.9 | 2738.4 |
| 7.5°  | 37275.3 | 28028.6 | 19396.2 | 12576.8 | 8412.4 | 6022.9 | 4657.5 | 3853.5 | 3345.2 | 3003.9 | 2761.1 |
| 5°    | 39255.1 | 29765.6 | 20723.7 | 13312.6 | 8791.6 | 6220.1 | 4763.7 | 3914.1 | 3383.1 | 3026.6 | 2776.3 |
| 2.5°  | 40468.8 | 31176.5 | 21800.8 | 13911.9 | 9102.6 | 6379.4 | 4847.2 | 3959.6 | 3413.5 | 3041.8 | 2791.5 |
| 0°    | 40870.9 | 31176.5 | 21800.8 | 13911.9 | 9102.6 | 6379.4 | 4847.2 | 3959.6 | 3413.5 | 3041.8 | 2791.5 |





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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° | 53.1   | 53.1   | 45.5   | 45.5   | 37.9   | 37.9   | 30.3   | 30.3   | 22.8   | 22.8  | 15.2  |
| 85°   | 121.4  | 106.2  | 98.6   | 91.0   | 83.4   | 75.9   | 68.3   | 60.7   | 53.1   | 45.5  | 37.9  |
| 82.5° | 204.8  | 189.6  | 166.9  | 151.7  | 136.5  | 121.4  | 98.6   | 91.0   | 75.9   | 60.7  | 53.1  |
| 80°   | 288.3  | 265.5  | 242.7  | 220.0  | 197.2  | 174.5  | 151.7  | 129.0  | 106.2  | 83.4  | 68.3  |
| 77.5° | 371.7  | 341.3  | 318.6  | 288.3  | 257.9  | 227.6  | 197.2  | 166.9  | 136.5  | 106.2 | 83.4  |
| 75°   | 470.3  | 432.4  | 394.4  | 356.5  | 318.6  | 280.7  | 250.3  | 212.4  | 174.5  | 136.5 | 106.2 |
| 72.5° | 576.5  | 523.4  | 477.9  | 432.4  | 379.3  | 341.3  | 295.8  | 257.9  | 212.4  | 166.9 | 129.0 |
| 70°   | 690.3  | 629.6  | 568.9  | 508.2  | 455.1  | 394.4  | 348.9  | 295.8  | 250.3  | 197.2 | 151.7 |
| 67.5° | 804.1  | 735.8  | 667.5  | 591.7  | 523.4  | 462.7  | 394.4  | 341.3  | 280.7  | 227.6 | 174.5 |
| 65°   | 940.6  | 849.6  | 766.1  | 682.7  | 599.3  | 523.4  | 455.1  | 379.3  | 318.6  | 257.9 | 197.2 |
| 62.5° | 1069.6 | 970.9  | 872.3  | 773.7  | 682.7  | 591.7  | 508.2  | 432.4  | 356.5  | 288.3 | 220.0 |
| 60°   | 1198.5 | 1092.3 | 978.5  | 872.3  | 766.1  | 667.5  | 568.9  | 477.9  | 394.4  | 318.6 | 242.7 |
| 57.5° | 1327.5 | 1206.1 | 1092.3 | 970.9  | 849.6  | 735.8  | 629.6  | 523.4  | 432.4  | 341.3 | 265.5 |
| 55°   | 1441.3 | 1327.5 | 1198.5 | 1069.6 | 940.6  | 804.1  | 690.3  | 576.5  | 470.3  | 371.7 | 288.3 |
| 52.5° | 1562.6 | 1433.7 | 1304.7 | 1160.6 | 1031.6 | 879.9  | 751.0  | 622.0  | 508.2  | 402.0 | 311.0 |
| 50°   | 1676.4 | 1539.9 | 1395.7 | 1259.2 | 1107.5 | 955.8  | 811.7  | 675.1  | 546.2  | 432.4 | 326.2 |
| 47.5° | 1782.6 | 1638.5 | 1494.4 | 1342.6 | 1190.9 | 1031.6 | 872.3  | 720.6  | 584.1  | 462.7 | 348.9 |
| 45°   | 1873.6 | 1744.7 | 1585.4 | 1426.1 | 1274.4 | 1099.9 | 933.0  | 766.1  | 622.0  | 493.1 | 364.1 |
| 42.5° | 1957.1 | 1828.1 | 1676.4 | 1517.1 | 1342.6 | 1168.2 | 993.7  | 819.2  | 659.9  | 515.8 | 386.9 |
| 40°   | 2032.9 | 1904.0 | 1759.8 | 1585.4 | 1410.9 | 1236.4 | 1046.8 | 864.8  | 697.9  | 546.2 | 402.0 |
| 37.5° | 2108.8 | 1972.2 | 1828.1 | 1661.2 | 1479.2 | 1297.1 | 1107.5 | 917.8  | 735.8  | 568.9 | 424.8 |
| 35°   | 2169.5 | 2040.5 | 1888.8 | 1729.5 | 1539.9 | 1357.8 | 1160.6 | 963.4  | 766.1  | 591.7 | 447.5 |
| 32.5° | 2222.6 | 2101.2 | 1957.1 | 1790.2 | 1600.5 | 1403.3 | 1206.1 | 1001.3 | 796.5  | 622.0 | 462.7 |
| 30°   | 2275.7 | 2154.3 | 2002.6 | 1843.3 | 1661.2 | 1456.4 | 1251.6 | 1039.2 | 834.4  | 644.8 | 477.9 |
| 27.5° | 2328.8 | 2199.8 | 2055.7 | 1888.8 | 1714.3 | 1501.9 | 1297.1 | 1077.1 | 864.8  | 667.5 | 493.1 |
| 25°   | 2374.3 | 2237.7 | 2101.2 | 1934.3 | 1759.8 | 1547.4 | 1335.1 | 1115.1 | 895.1  | 690.3 | 508.2 |
| 22.5° | 2412.2 | 2275.7 | 2139.1 | 1972.2 | 1797.8 | 1585.4 | 1365.4 | 1145.4 | 917.8  | 705.5 | 523.4 |
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| 17.5° | 2488.1 | 2343.9 | 2199.8 | 2040.5 | 1858.5 | 1653.6 | 1426.1 | 1198.5 | 963.4  | 735.8 | 546.2 |
| 15°   | 2518.4 | 2366.7 | 2222.6 | 2063.3 | 1888.8 | 1684.0 | 1448.8 | 1221.3 | 978.5  | 751.0 | 553.7 |
| 12.5° | 2541.2 | 2389.4 | 2245.3 | 2086.0 | 1904.0 | 1706.7 | 1471.6 | 1236.4 | 993.7  | 766.1 | 561.3 |
| 10°   | 2563.9 | 2412.2 | 2260.5 | 2108.8 | 1926.7 | 1721.9 | 1486.8 | 1251.6 | 1008.9 | 773.7 | 568.9 |
| 7.5°  | 2579.1 | 2427.4 | 2275.7 | 2123.9 | 1941.9 | 1737.1 | 1501.9 | 1266.8 | 1016.5 | 781.3 | 576.5 |
| 5°    | 2594.3 | 2435.0 | 2283.2 | 2131.5 | 1949.5 | 1759.8 | 1517.1 | 1282.0 | 1031.6 | 788.9 | 576.5 |
| 2.5°  | 2601.8 | 2442.5 | 2290.8 | 2139.1 | 1957.1 | 1759.8 | 1517.1 | 1282.0 | 1031.6 | 788.9 | 576.5 |
| 0°    | 2601.8 | 2442.5 | 2290.8 | 2139.1 | 1957.1 | 1759.8 | 1517.1 | 1282.0 | 1031.6 | 788.9 | 576.5 |



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