

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: P624214

Luminaire Tested: **EPH-VN-08-D-930-U-77**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624214  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-930-U-77  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens  
Light Source: (128) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

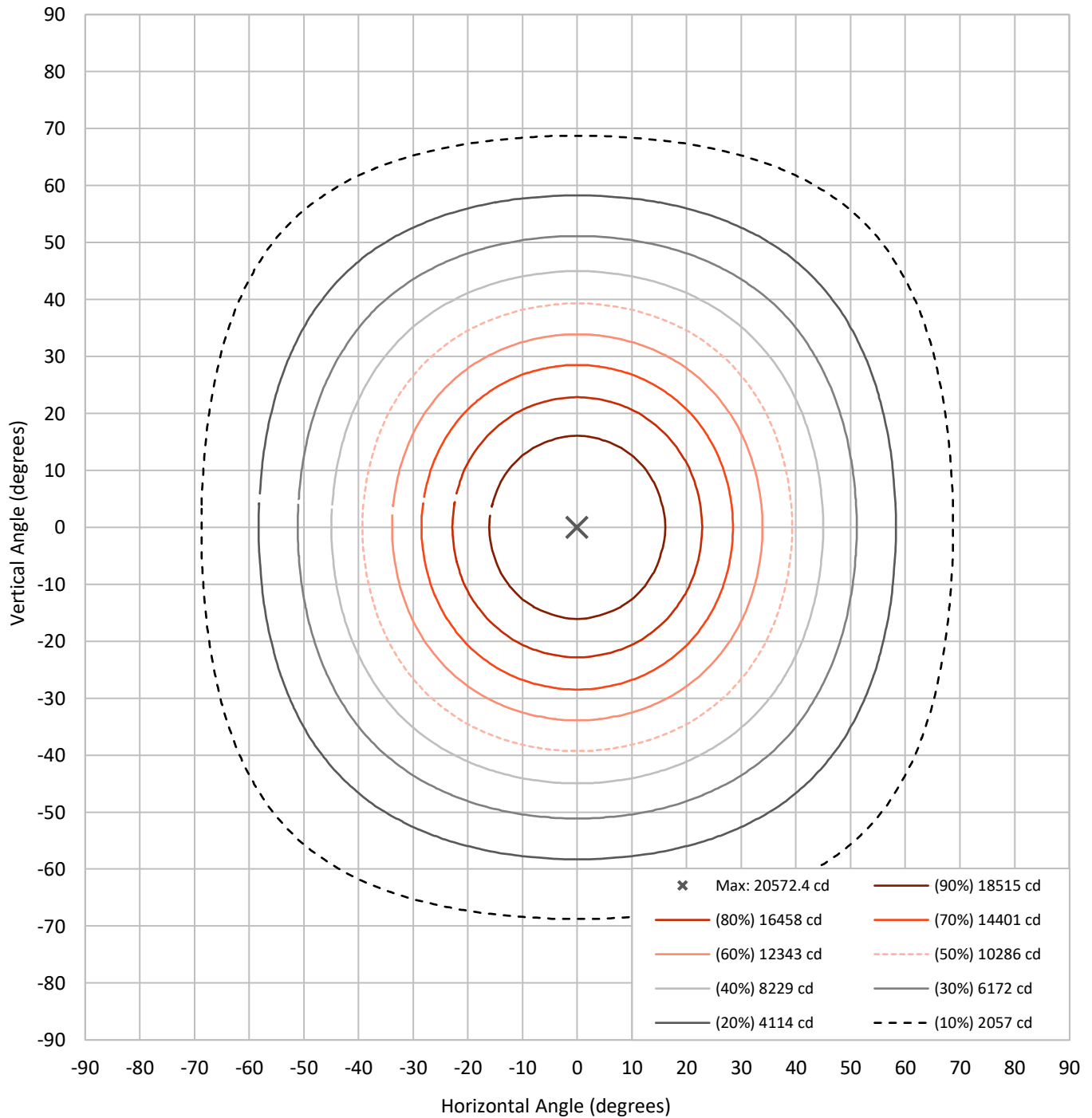
|                   |                                    |                      |                   |
|-------------------|------------------------------------|----------------------|-------------------|
| Lumens per Lamp:  | N/A                                | NEMA Type:           | 7H x 7V           |
| Luminaire Lumens: | 37041.1 lumens                     | Max Intensity:       | 20572.4 candela   |
| Efficiency:       | N/A                                | Max Intensity Angle: | 0°H x 0°V         |
| Efficacy:         | 75.9 lumens/watt                   |                      |                   |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') |                      |                   |
| Beam Angle (50%): | 78.6°H x 78.6°V                    | Field Angle (10%):   | 137.5°H x 137.5°V |
| Beam Lumens:      | 16027.3 lumens                     | Field Lumens:        | 26244.2 lumens    |
| Beam Efficiency:  | 43.3%                              | Field Efficiency:    | 70.9%             |

Input Watts (W): 488.3  
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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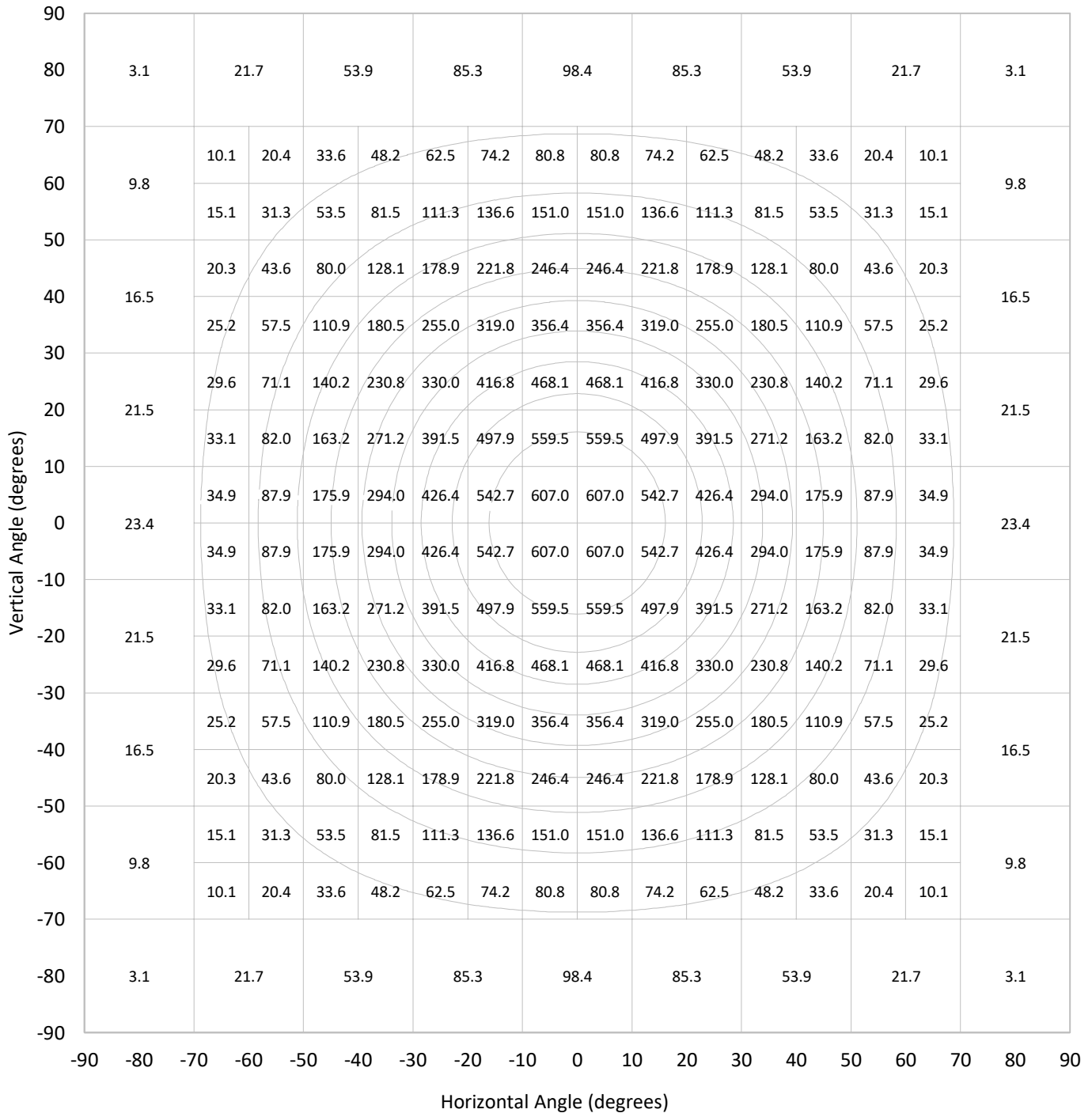
### Iso-Candela Plot





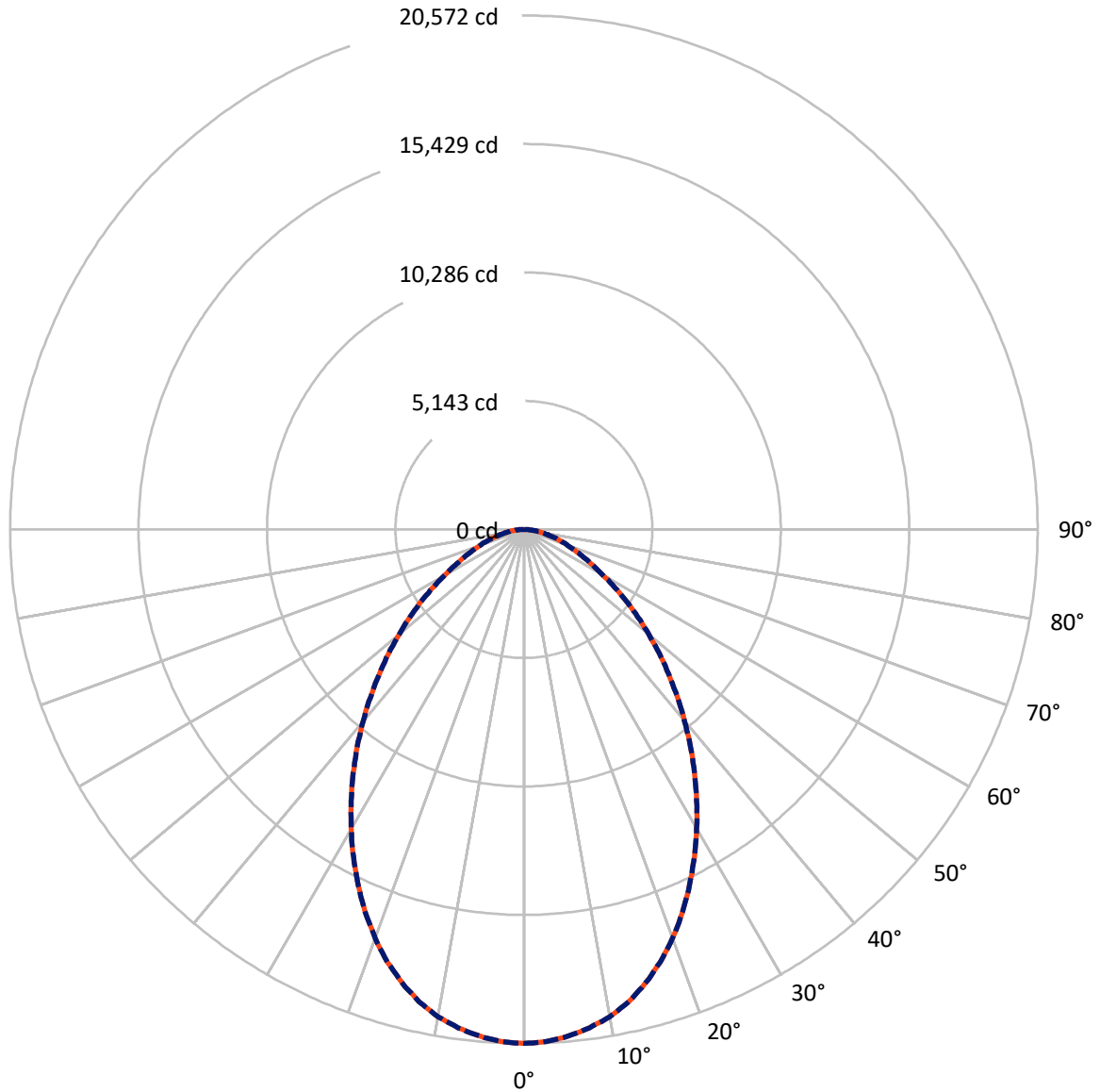
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### Lumen Table



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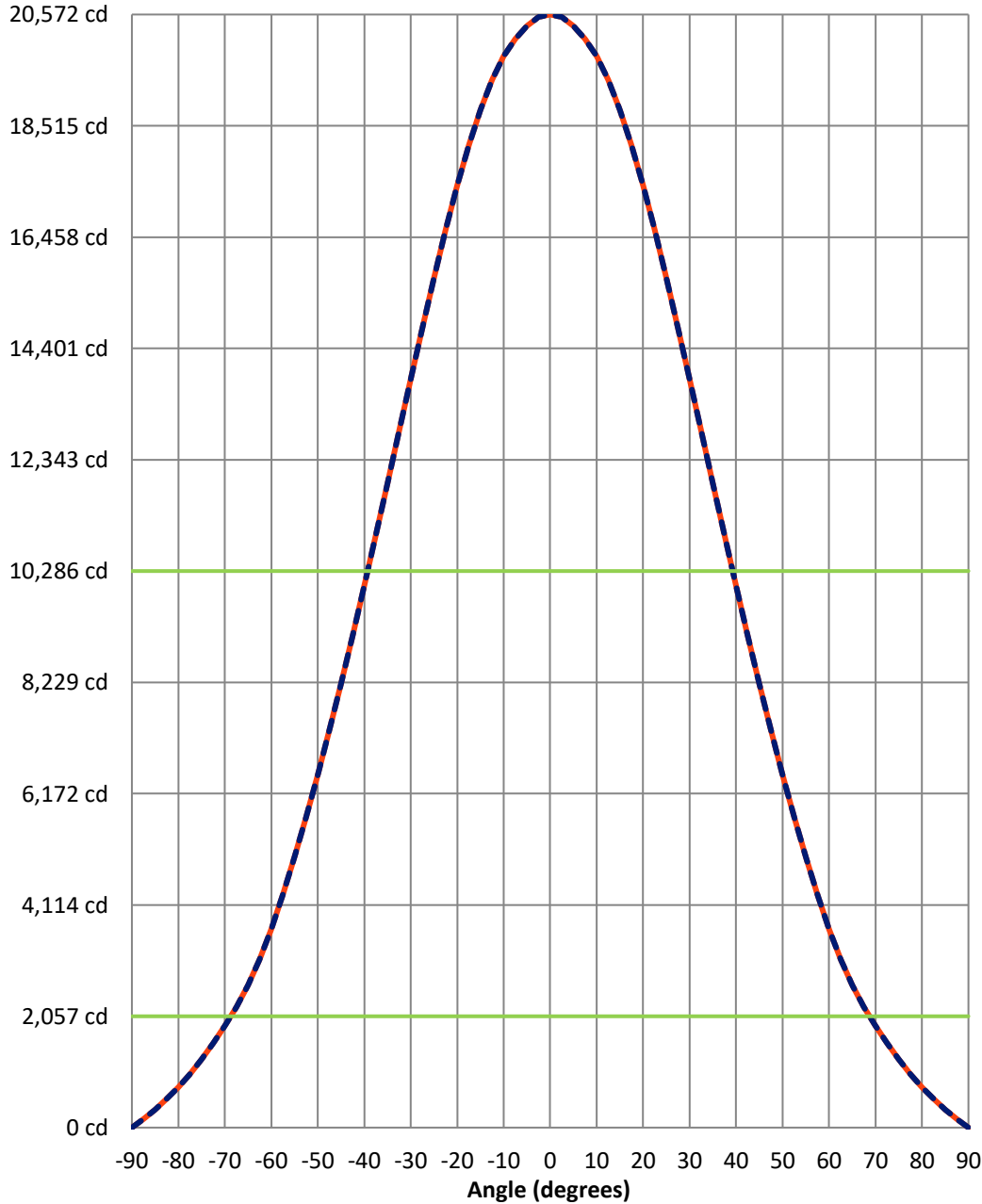
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 78.6°  
 V Angle: 78.6°  
 Lumens: 16027.3  
 Efficiency: 43.3%

**Field:**  
 H Angle: 137.5°  
 V Angle: 137.5°  
 Lumens: 26244.2  
 Efficiency: 70.9%

**Spill:**  
 Lumens: 10796.9  
 Efficiency: 29.1%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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° | 158.3   | 158.3   | 158.3   | 158.3   | 158.3   | 158.3   | 158.3   | 150.6   | 150.6   | 146.8   | 142.9   |
| 85°   | 332.1   | 332.1   | 332.1   | 332.1   | 332.1   | 324.4   | 320.5   | 316.7   | 312.8   | 305.1   | 301.2   |
| 82.5° | 532.9   | 532.9   | 532.9   | 532.9   | 525.2   | 517.5   | 513.6   | 505.9   | 498.2   | 486.6   | 475.0   |
| 80°   | 745.3   | 745.3   | 745.3   | 745.3   | 733.8   | 726.0   | 714.5   | 706.7   | 695.1   | 679.7   | 664.2   |
| 77.5° | 988.6   | 988.6   | 988.6   | 977.1   | 969.3   | 957.8   | 946.2   | 930.7   | 915.3   | 896.0   | 872.8   |
| 75°   | 1262.8  | 1262.8  | 1262.8  | 1247.4  | 1235.8  | 1224.2  | 1204.9  | 1185.6  | 1162.4  | 1135.4  | 1104.5  |
| 72.5° | 1560.2  | 1560.2  | 1560.2  | 1540.9  | 1529.3  | 1510.0  | 1486.8  | 1459.8  | 1432.8  | 1398.0  | 1359.4  |
| 70°   | 1880.8  | 1880.8  | 1880.8  | 1857.6  | 1838.3  | 1819.0  | 1788.1  | 1757.2  | 1718.6  | 1679.9  | 1633.6  |
| 67.5° | 2228.3  | 2228.3  | 2228.3  | 2201.3  | 2178.1  | 2151.1  | 2116.3  | 2077.7  | 2031.4  | 1977.3  | 1923.2  |
| 65°   | 2633.8  | 2633.8  | 2618.4  | 2595.2  | 2568.2  | 2529.6  | 2487.1  | 2433.0  | 2375.1  | 2305.6  | 2232.2  |
| 62.5° | 3112.7  | 3112.7  | 3089.5  | 3062.5  | 3027.7  | 2977.5  | 2919.6  | 2850.1  | 2769.0  | 2680.2  | 2591.3  |
| 60°   | 3668.8  | 3668.8  | 3641.8  | 3607.0  | 3556.8  | 3495.0  | 3417.8  | 3329.0  | 3228.6  | 3116.6  | 3008.4  |
| 57.5° | 4309.9  | 4309.9  | 4275.1  | 4228.8  | 4167.0  | 4089.8  | 3993.2  | 3881.2  | 3753.8  | 3614.7  | 3479.6  |
| 55°   | 5005.0  | 5005.0  | 4962.6  | 4908.5  | 4835.1  | 4742.4  | 4626.6  | 4495.3  | 4340.8  | 4182.4  | 4008.7  |
| 52.5° | 5742.7  | 5742.7  | 5692.5  | 5630.7  | 5545.7  | 5437.6  | 5306.3  | 5151.8  | 4974.1  | 4788.8  | 4584.1  |
| 50°   | 6518.9  | 6518.9  | 6461.0  | 6391.5  | 6294.9  | 6167.5  | 6016.9  | 5839.2  | 5642.3  | 5426.0  | 5190.4  |
| 47.5° | 7349.2  | 7349.2  | 7283.6  | 7202.5  | 7086.6  | 6939.9  | 6762.2  | 6557.5  | 6333.5  | 6090.2  | 5823.8  |
| 45°   | 8202.7  | 8202.7  | 8129.3  | 8036.6  | 7909.2  | 7743.1  | 7546.2  | 7349.2  | 7063.4  | 6781.5  | 6472.6  |
| 42.5° | 9090.9  | 9090.9  | 9006.0  | 8901.7  | 8755.0  | 8573.4  | 8349.5  | 8094.6  | 7812.6  | 7496.0  | 7160.0  |
| 40°   | 10013.9 | 10013.9 | 9917.4  | 9797.7  | 9635.5  | 9426.9  | 9175.9  | 8890.1  | 8573.4  | 8222.0  | 7851.3  |
| 37.5° | 10956.2 | 10956.2 | 10848.1 | 10716.8 | 10535.3 | 10303.6 | 10021.7 | 9705.0  | 9349.7  | 8959.6  | 8550.3  |
| 35°   | 11906.3 | 11906.3 | 11786.6 | 11643.7 | 11442.8 | 11188.0 | 10882.9 | 10531.4 | 10137.5 | 9712.7  | 9253.1  |
| 32.5° | 12875.6 | 12875.6 | 12744.3 | 12582.1 | 12354.3 | 12072.3 | 11736.3 | 11354.0 | 10956.2 | 10461.9 | 9959.9  |
| 30°   | 13833.4 | 13833.4 | 13690.5 | 13512.8 | 13269.5 | 12960.6 | 12593.7 | 12172.7 | 11705.5 | 11199.5 | 10658.9 |
| 27.5° | 14775.7 | 14737.1 | 14617.3 | 14428.1 | 14161.6 | 13833.4 | 13435.6 | 12979.9 | 12474.0 | 11917.9 | 11338.6 |
| 25°   | 15702.5 | 15660.0 | 15528.7 | 15320.2 | 15034.4 | 14675.3 | 14246.6 | 13760.0 | 13215.5 | 12628.4 | 11995.1 |
| 22.5° | 16590.8 | 16544.4 | 16405.4 | 16181.4 | 15876.3 | 15486.3 | 15026.7 | 14505.3 | 13926.0 | 13296.6 | 12628.4 |
| 20°   | 17413.4 | 17363.1 | 17220.3 | 16984.7 | 16668.0 | 16254.8 | 15768.2 | 15208.2 | 14590.3 | 13926.0 | 13215.5 |
| 17.5° | 18154.8 | 18104.6 | 17954.0 | 17710.7 | 17413.4 | 16953.8 | 16451.7 | 15860.9 | 15208.2 | 14505.3 | 13760.0 |
| 15°   | 18807.5 | 18753.4 | 18599.0 | 18355.7 | 18015.8 | 17583.3 | 17054.2 | 16451.7 | 15768.2 | 15026.7 | 14246.6 |
| 12.5° | 19363.6 | 19309.6 | 19151.2 | 18907.9 | 18556.5 | 18123.9 | 17583.3 | 16953.8 | 16254.8 | 15486.3 | 14675.3 |
| 10°   | 19803.9 | 19749.8 | 19599.2 | 19367.5 | 19004.5 | 18556.5 | 18015.8 | 17413.4 | 16668.0 | 15876.3 | 15034.4 |
| 7.5°  | 20120.6 | 20070.3 | 19931.3 | 19699.6 | 19367.5 | 18907.9 | 18355.7 | 17710.7 | 16984.7 | 16181.4 | 15320.2 |
| 5°    | 20360.0 | 20302.1 | 20163.0 | 19931.3 | 19599.2 | 19151.2 | 18599.0 | 17954.0 | 17220.3 | 16405.4 | 15528.7 |
| 2.5°  | 20526.1 | 20456.5 | 20302.1 | 20070.3 | 19749.8 | 19309.6 | 18753.4 | 18104.6 | 17363.1 | 16544.4 | 15660.0 |
| 0°    | 20572.4 | 20526.1 | 20360.0 | 20120.6 | 19803.9 | 19363.6 | 18807.5 | 18154.8 | 17413.4 | 16590.8 | 15702.5 |



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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° | 139.0   | 139.0   | 135.2   | 131.3   | 127.4   | 119.7   | 115.9  | 112.0  | 108.1  | 100.4  | 96.5   |
| 85°   | 293.5   | 285.8   | 278.1   | 270.3   | 258.7   | 251.0   | 239.4  | 231.7  | 220.1  | 208.5  | 197.0  |
| 82.5° | 463.4   | 451.8   | 436.4   | 424.8   | 409.4   | 390.1   | 374.6  | 355.3  | 336.0  | 320.5  | 301.2  |
| 80°   | 648.8   | 629.5   | 610.2   | 590.9   | 567.7   | 544.5   | 521.4  | 498.2  | 471.2  | 444.1  | 417.1  |
| 77.5° | 849.6   | 822.6   | 795.6   | 764.7   | 737.6   | 706.7   | 675.8  | 644.9  | 610.2  | 575.4  | 540.7  |
| 75°   | 1073.6  | 1038.9  | 1000.2  | 961.6   | 926.9   | 884.4   | 841.9  | 799.4  | 753.1  | 710.6  | 664.2  |
| 72.5° | 1316.9  | 1274.4  | 1228.1  | 1181.7  | 1131.5  | 1077.5  | 1023.4 | 965.5  | 911.4  | 857.3  | 799.4  |
| 70°   | 1579.5  | 1529.3  | 1471.4  | 1413.5  | 1351.7  | 1286.0  | 1220.4 | 1150.8 | 1081.3 | 1011.8 | 942.3  |
| 67.5° | 1861.4  | 1799.7  | 1730.1  | 1660.6  | 1583.4  | 1506.1  | 1428.9 | 1347.8 | 1262.8 | 1177.9 | 1096.8 |
| 65°   | 2162.7  | 2085.4  | 2004.3  | 1915.5  | 1826.7  | 1737.9  | 1645.2 | 1548.6 | 1452.1 | 1351.7 | 1262.8 |
| 62.5° | 2498.7  | 2402.1  | 2297.8  | 2189.7  | 2089.3  | 1981.2  | 1880.8 | 1761.0 | 1645.2 | 1533.2 | 1421.2 |
| 60°   | 2888.7  | 2761.3  | 2633.8  | 2498.7  | 2371.2  | 2232.2  | 2108.6 | 1977.3 | 1846.0 | 1718.6 | 1587.2 |
| 57.5° | 3325.1  | 3162.9  | 3008.4  | 2846.2  | 2676.3  | 2521.8  | 2363.5 | 2205.2 | 2058.4 | 1907.8 | 1764.9 |
| 55°   | 3819.4  | 3622.5  | 3429.4  | 3228.6  | 3031.6  | 2838.5  | 2637.7 | 2460.0 | 2278.5 | 2108.6 | 1942.5 |
| 52.5° | 4360.1  | 4136.1  | 3896.7  | 3668.8  | 3417.8  | 3178.4  | 2954.4 | 2730.4 | 2518.0 | 2313.3 | 2124.1 |
| 50°   | 4939.4  | 4676.8  | 4402.6  | 4124.5  | 3838.7  | 3556.8  | 3286.5 | 3023.9 | 2776.7 | 2537.3 | 2313.3 |
| 47.5° | 5541.8  | 5244.5  | 4931.7  | 4615.0  | 4309.9  | 3966.2  | 3641.8 | 3344.4 | 3047.0 | 2776.7 | 2518.0 |
| 45°   | 6159.7  | 5823.8  | 5480.1  | 5120.9  | 4761.7  | 4391.0  | 4031.8 | 3668.8 | 3344.4 | 3023.9 | 2730.4 |
| 42.5° | 6797.0  | 6418.5  | 6036.2  | 5638.4  | 5240.6  | 4835.1  | 4429.6 | 4031.8 | 3641.8 | 3286.5 | 2954.4 |
| 40°   | 7453.5  | 7036.4  | 6600.0  | 6167.5  | 5742.7  | 5279.2  | 4835.1 | 4391.0 | 3966.2 | 3556.8 | 3178.4 |
| 37.5° | 8110.0  | 7654.3  | 7183.2  | 6696.6  | 6210.0  | 5742.7  | 5240.6 | 4761.7 | 4309.9 | 3838.7 | 3417.8 |
| 35°   | 8770.4  | 8268.4  | 7758.6  | 7229.5  | 6696.6  | 6167.5  | 5638.4 | 5120.9 | 4615.0 | 4124.5 | 3668.8 |
| 32.5° | 9434.6  | 8886.3  | 8322.4  | 7758.6  | 7183.2  | 6600.0  | 6036.2 | 5480.1 | 4931.7 | 4402.6 | 3896.7 |
| 30°   | 10087.3 | 9492.6  | 8886.3  | 8268.4  | 7654.3  | 7036.4  | 6418.5 | 5823.8 | 5244.5 | 4676.8 | 4136.1 |
| 27.5° | 10724.5 | 10087.3 | 9434.6  | 8770.4  | 8110.0  | 7453.5  | 6797.0 | 6159.7 | 5541.8 | 4939.4 | 4360.1 |
| 25°   | 11338.6 | 10658.9 | 9959.9  | 9253.1  | 8550.3  | 7851.3  | 7160.0 | 6472.6 | 5823.8 | 5190.4 | 4584.1 |
| 22.5° | 11917.9 | 11199.5 | 10461.9 | 9712.7  | 8959.6  | 8222.0  | 7496.0 | 6781.5 | 6090.2 | 5426.0 | 4788.8 |
| 20°   | 12474.0 | 11705.5 | 10956.2 | 10137.5 | 9349.7  | 8573.4  | 7812.6 | 7063.4 | 6333.5 | 5642.3 | 4974.1 |
| 17.5° | 12979.9 | 12172.7 | 11354.0 | 10531.4 | 9705.0  | 8890.1  | 8094.6 | 7349.2 | 6557.5 | 5839.2 | 5151.8 |
| 15°   | 13435.6 | 12593.7 | 11736.3 | 10882.9 | 10021.7 | 9175.9  | 8349.5 | 7546.2 | 6762.2 | 6016.9 | 5306.3 |
| 12.5° | 13833.4 | 12960.6 | 12072.3 | 11188.0 | 10303.6 | 9426.9  | 8573.4 | 7743.1 | 6939.9 | 6167.5 | 5437.6 |
| 10°   | 14161.6 | 13269.5 | 12354.3 | 11442.8 | 10535.3 | 9635.5  | 8755.0 | 7909.2 | 7086.6 | 6294.9 | 5545.7 |
| 7.5°  | 14428.1 | 13512.8 | 12582.1 | 11643.7 | 10716.8 | 9797.7  | 8901.7 | 8036.6 | 7202.5 | 6391.5 | 5630.7 |
| 5°    | 14617.3 | 13690.5 | 12744.3 | 11786.6 | 10848.1 | 9917.4  | 9006.0 | 8129.3 | 7283.6 | 6461.0 | 5692.5 |
| 2.5°  | 14737.1 | 13833.4 | 12875.6 | 11906.3 | 10956.2 | 10013.9 | 9090.9 | 8202.7 | 7349.2 | 6518.9 | 5742.7 |
| 0°    | 14775.7 | 13833.4 | 12875.6 | 11906.3 | 10956.2 | 10013.9 | 9090.9 | 8202.7 | 7349.2 | 6518.9 | 5742.7 |





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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° | 92.7   | 85.0   | 77.2   | 73.4   | 65.7   | 61.8   | 54.1   | 46.3   | 42.5   | 34.8  | 27.0  |
| 85°   | 185.4  | 169.9  | 158.3  | 146.8  | 135.2  | 119.7  | 108.1  | 96.5   | 81.1   | 69.5  | 54.1  |
| 82.5° | 281.9  | 262.6  | 243.3  | 224.0  | 204.7  | 185.4  | 162.2  | 142.9  | 123.6  | 104.3 | 81.1  |
| 80°   | 390.1  | 359.2  | 332.1  | 305.1  | 278.1  | 251.0  | 220.1  | 193.1  | 162.2  | 135.2 | 108.1 |
| 77.5° | 502.0  | 467.3  | 428.7  | 390.1  | 351.4  | 316.7  | 278.1  | 243.3  | 208.5  | 169.9 | 135.2 |
| 75°   | 621.8  | 575.4  | 532.9  | 482.7  | 436.4  | 386.2  | 339.8  | 293.5  | 251.0  | 208.5 | 162.2 |
| 72.5° | 745.3  | 687.4  | 629.5  | 575.4  | 517.5  | 459.6  | 405.5  | 347.6  | 293.5  | 243.3 | 193.1 |
| 70°   | 872.8  | 803.3  | 733.8  | 668.1  | 602.5  | 532.9  | 471.2  | 405.5  | 339.8  | 278.1 | 220.1 |
| 67.5° | 1008.0 | 926.9  | 845.8  | 760.8  | 687.4  | 610.2  | 532.9  | 459.6  | 386.2  | 316.7 | 251.0 |
| 65°   | 1154.7 | 1058.2 | 957.8  | 868.9  | 772.4  | 687.4  | 602.5  | 517.5  | 436.4  | 351.4 | 278.1 |
| 62.5° | 1305.3 | 1193.3 | 1081.3 | 969.3  | 868.9  | 760.8  | 668.1  | 575.4  | 482.7  | 390.1 | 305.1 |
| 60°   | 1459.8 | 1332.4 | 1204.9 | 1081.3 | 957.8  | 845.8  | 733.8  | 629.5  | 532.9  | 428.7 | 332.1 |
| 57.5° | 1618.1 | 1475.2 | 1332.4 | 1193.3 | 1058.2 | 926.9  | 803.3  | 687.4  | 575.4  | 467.3 | 359.2 |
| 55°   | 1780.3 | 1618.1 | 1459.8 | 1305.3 | 1154.7 | 1008.0 | 872.8  | 745.3  | 621.8  | 502.0 | 390.1 |
| 52.5° | 1942.5 | 1764.9 | 1587.2 | 1421.2 | 1262.8 | 1096.8 | 942.3  | 799.4  | 664.2  | 540.7 | 417.1 |
| 50°   | 2108.6 | 1907.8 | 1718.6 | 1533.2 | 1351.7 | 1177.9 | 1011.8 | 857.3  | 710.6  | 575.4 | 444.1 |
| 47.5° | 2278.5 | 2058.4 | 1846.0 | 1645.2 | 1452.1 | 1262.8 | 1081.3 | 911.4  | 753.1  | 610.2 | 471.2 |
| 45°   | 2460.0 | 2205.2 | 1977.3 | 1761.0 | 1548.6 | 1347.8 | 1150.8 | 965.5  | 799.4  | 644.9 | 498.2 |
| 42.5° | 2637.7 | 2363.5 | 2108.6 | 1880.8 | 1645.2 | 1428.9 | 1220.4 | 1023.4 | 841.9  | 675.8 | 521.4 |
| 40°   | 2838.5 | 2521.8 | 2232.2 | 1981.2 | 1737.9 | 1506.1 | 1286.0 | 1077.5 | 884.4  | 706.7 | 544.5 |
| 37.5° | 3031.6 | 2676.3 | 2371.2 | 2089.3 | 1826.7 | 1583.4 | 1351.7 | 1131.5 | 926.9  | 737.6 | 567.7 |
| 35°   | 3228.6 | 2846.2 | 2498.7 | 2189.7 | 1915.5 | 1660.6 | 1413.5 | 1181.7 | 961.6  | 764.7 | 590.9 |
| 32.5° | 3429.4 | 3008.4 | 2633.8 | 2297.8 | 2004.3 | 1730.1 | 1471.4 | 1228.1 | 1000.2 | 795.6 | 610.2 |
| 30°   | 3622.5 | 3162.9 | 2761.3 | 2402.1 | 2085.4 | 1799.7 | 1529.3 | 1274.4 | 1038.9 | 822.6 | 629.5 |
| 27.5° | 3819.4 | 3325.1 | 2888.7 | 2498.7 | 2162.7 | 1861.4 | 1579.5 | 1316.9 | 1073.6 | 849.6 | 648.8 |
| 25°   | 4008.7 | 3479.6 | 3008.4 | 2591.3 | 2232.2 | 1923.2 | 1633.6 | 1359.4 | 1104.5 | 872.8 | 664.2 |
| 22.5° | 4182.4 | 3614.7 | 3116.6 | 2680.2 | 2305.6 | 1977.3 | 1679.9 | 1398.0 | 1135.4 | 896.0 | 679.7 |
| 20°   | 4340.8 | 3753.8 | 3228.6 | 2769.0 | 2375.1 | 2031.4 | 1718.6 | 1432.8 | 1162.4 | 915.3 | 695.1 |
| 17.5° | 4495.3 | 3881.2 | 3329.0 | 2850.1 | 2433.0 | 2077.7 | 1757.2 | 1459.8 | 1185.6 | 930.7 | 706.7 |
| 15°   | 4626.6 | 3993.2 | 3417.8 | 2919.6 | 2487.1 | 2116.3 | 1788.1 | 1486.8 | 1204.9 | 946.2 | 714.5 |
| 12.5° | 4742.4 | 4089.8 | 3495.0 | 2977.5 | 2529.6 | 2151.1 | 1819.0 | 1510.0 | 1224.2 | 957.8 | 726.0 |
| 10°   | 4835.1 | 4167.0 | 3556.8 | 3027.7 | 2568.2 | 2178.1 | 1838.3 | 1529.3 | 1235.8 | 969.3 | 733.8 |
| 7.5°  | 4908.5 | 4228.8 | 3607.0 | 3062.5 | 2595.2 | 2201.3 | 1857.6 | 1540.9 | 1247.4 | 977.1 | 745.3 |
| 5°    | 4962.6 | 4275.1 | 3641.8 | 3089.5 | 2618.4 | 2228.3 | 1880.8 | 1560.2 | 1262.8 | 988.6 | 745.3 |
| 2.5°  | 5005.0 | 4309.9 | 3668.8 | 3112.7 | 2633.8 | 2228.3 | 1880.8 | 1560.2 | 1262.8 | 988.6 | 745.3 |
| 0°    | 5005.0 | 4309.9 | 3668.8 | 3112.7 | 2633.8 | 2228.3 | 1880.8 | 1560.2 | 1262.8 | 988.6 | 745.3 |



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