

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: P624095

Luminaire Tested: **EPH-VN-08-E-750-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624095
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-750-U-44
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

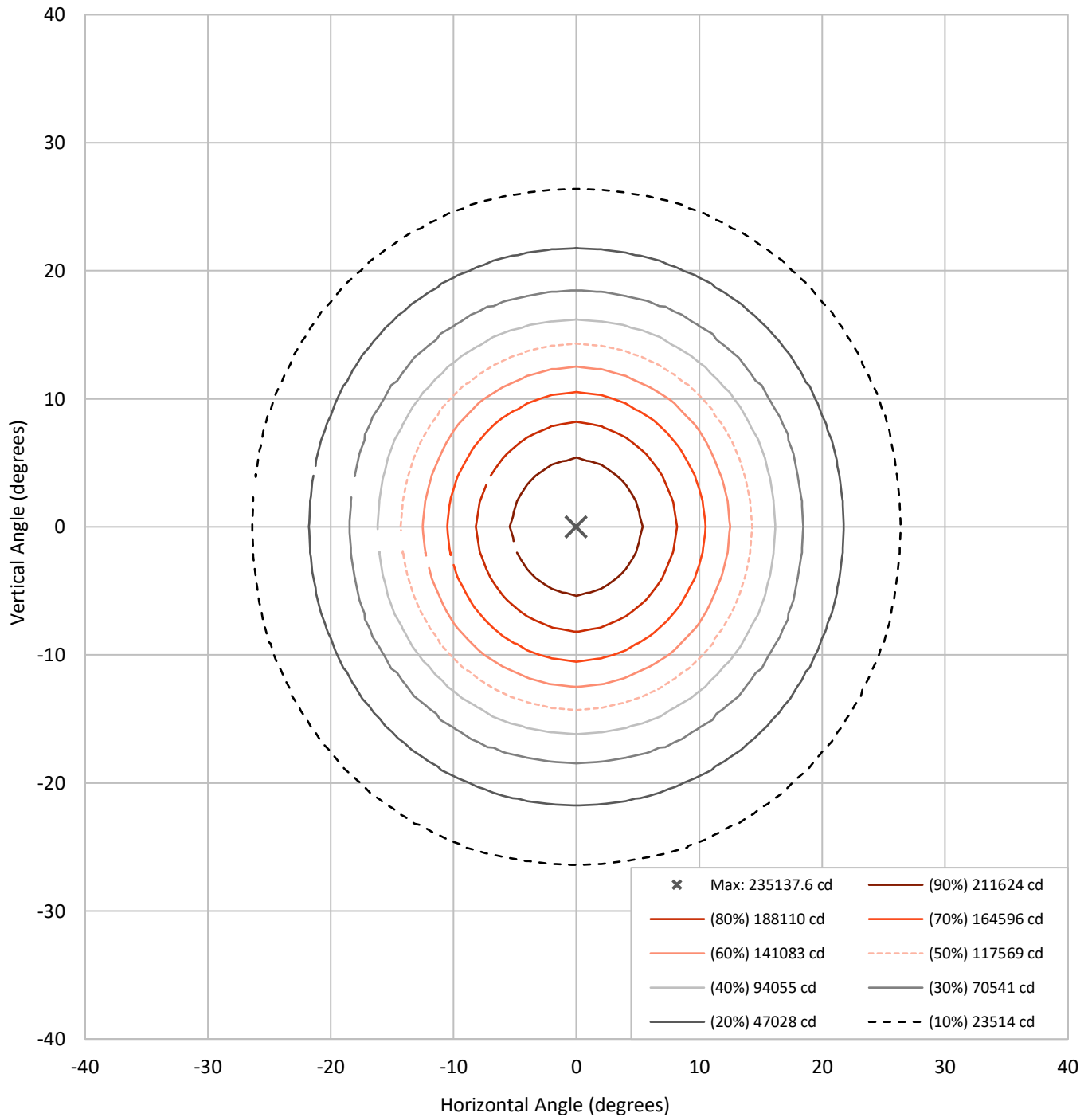
| | | | |
|-------------------|------------------------------------|----------------------|------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 4H x 4V |
| Luminaire Lumens: | 72718.2 lumens | Max Intensity: | 235137.6 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 0°V |
| Efficacy: | 116.0 lumens/watt | | |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') | | |
| Beam Angle (50%): | 28.6°H x 28.6°V | Field Angle (10%): | 52.7°H x 52.7°V |
| Beam Lumens: | 26238.1 lumens | Field Lumens: | 44306.6 lumens |
| Beam Efficiency: | 36.1% | Field Efficiency: | 60.9% |

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





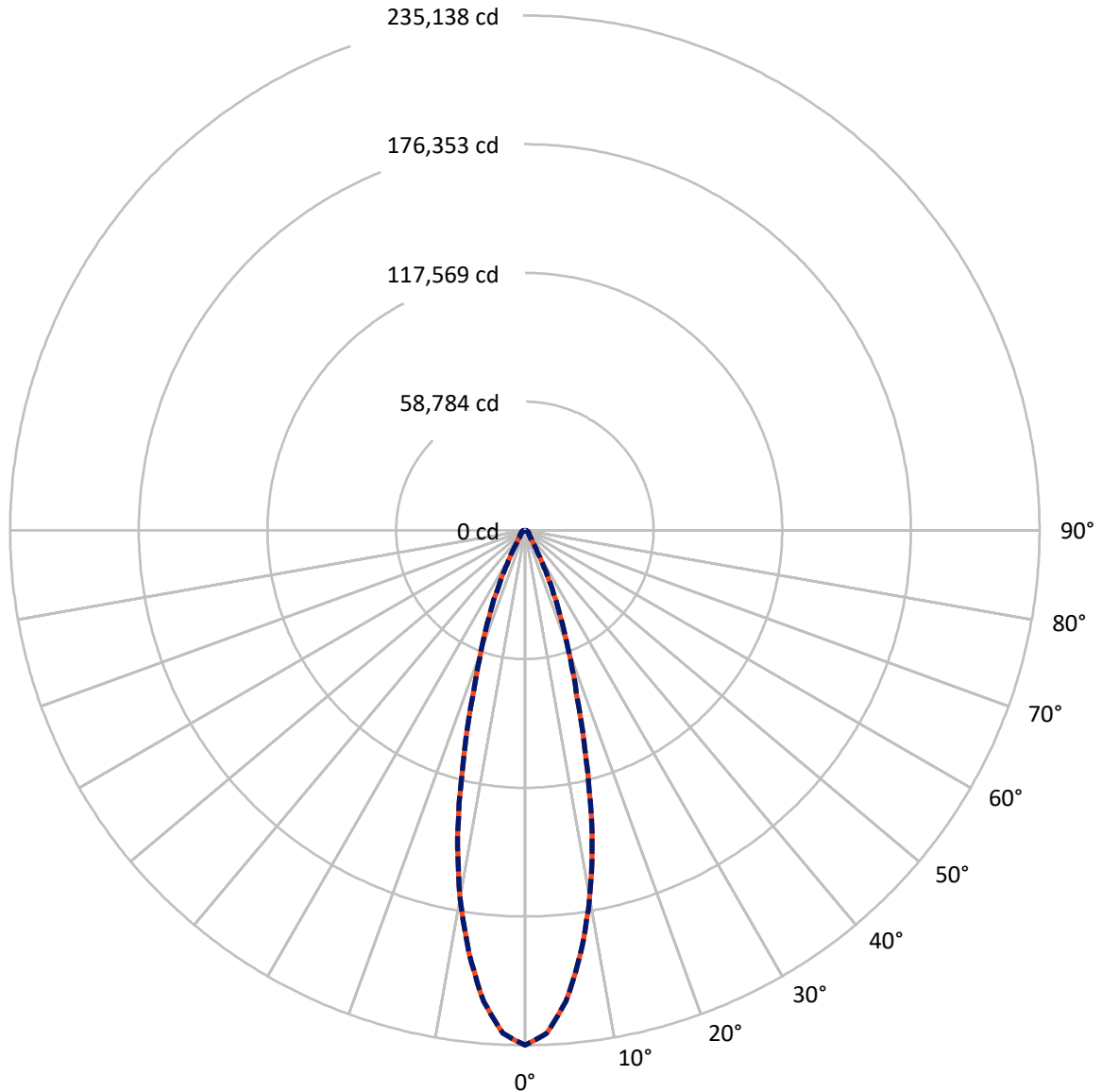
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Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|------|------|------|------|-------|-------|--------|--------|--------|--------|-------|-------|------|------|------|------|--|--|--|
| 90 | 1.7 | 12.3 | 31.3 | 50.0 | 57.8 | 50.0 | 31.3 | 12.3 | 1.7 | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | |
| 70 | 5.6 | 5.9 | 12.1 | 19.9 | 28.0 | 35.1 | 40.6 | 43.5 | 43.5 | 40.6 | 35.1 | 28.0 | 19.9 | 12.1 | 5.9 | 5.6 | | | |
| 60 | | 9.0 | 18.4 | 29.5 | 40.8 | 50.7 | 58.2 | 62.3 | 62.3 | 58.2 | 50.7 | 40.8 | 29.5 | 18.4 | 9.0 | | | | |
| 50 | 9.6 | 12.0 | 24.0 | 37.9 | 52.0 | 66.1 | 78.9 | 87.0 | 87.0 | 78.9 | 66.1 | 52.0 | 37.9 | 24.0 | 12.0 | 9.6 | | | |
| 40 | | 14.6 | 28.7 | 45.0 | 64.6 | 92.0 | 134.3 | 178.7 | 178.7 | 134.3 | 92.0 | 64.6 | 45.0 | 28.7 | 14.6 | | | | |
| 30 | 12.7 | 16.6 | 32.2 | 51.7 | 83.3 | 174.5 | 478.4 | 866.5 | 866.5 | 478.4 | 174.5 | 83.3 | 51.7 | 32.2 | 16.6 | 12.7 | | | |
| 20 | | 18.0 | 34.7 | 58.0 | 114.6 | 451.6 | 1553.1 | 2995.9 | 2995.9 | 1553.1 | 451.6 | 114.6 | 58.0 | 34.7 | 18.0 | | | | |
| 10 | 13.8 | 18.7 | 36.1 | 62.1 | 148.5 | 795.6 | 2914.7 | 5746.3 | 5746.3 | 2914.7 | 795.6 | 148.5 | 62.1 | 36.1 | 18.7 | 13.8 | | | |
| 0 | | 18.7 | 36.1 | 62.1 | 148.5 | 795.6 | 2914.7 | 5746.3 | 5746.3 | 2914.7 | 795.6 | 148.5 | 62.1 | 36.1 | 18.7 | | | | |
| -10 | 12.7 | 18.0 | 34.7 | 58.0 | 114.6 | 451.6 | 1553.1 | 2995.9 | 2995.9 | 1553.1 | 451.6 | 114.6 | 58.0 | 34.7 | 18.0 | 12.7 | | | |
| -20 | | 16.6 | 32.2 | 51.7 | 83.3 | 174.5 | 478.4 | 866.5 | 866.5 | 478.4 | 174.5 | 83.3 | 51.7 | 32.2 | 16.6 | | | | |
| -30 | 9.6 | 14.6 | 28.7 | 45.0 | 64.6 | 92.0 | 134.3 | 178.7 | 178.7 | 134.3 | 92.0 | 64.6 | 45.0 | 28.7 | 14.6 | 9.6 | | | |
| -40 | | 12.0 | 24.0 | 37.9 | 52.0 | 66.1 | 78.9 | 87.0 | 87.0 | 78.9 | 66.1 | 52.0 | 37.9 | 24.0 | 12.0 | | | | |
| -50 | 5.6 | 9.0 | 18.4 | 29.5 | 40.8 | 50.7 | 58.2 | 62.3 | 62.3 | 58.2 | 50.7 | 40.8 | 29.5 | 18.4 | 9.0 | 5.6 | | | |
| -60 | | 5.9 | 12.1 | 19.9 | 28.0 | 35.1 | 40.6 | 43.5 | 43.5 | 40.6 | 35.1 | 28.0 | 19.9 | 12.1 | 5.9 | | | | |
| -70 | 1.7 | | | | | | | | | | | | | | 1.7 | | | | |
| -80 | | | | | | | | | | | | | | | | | | | |
| -90 | | | | | | | | | | | | | | | | | | | |

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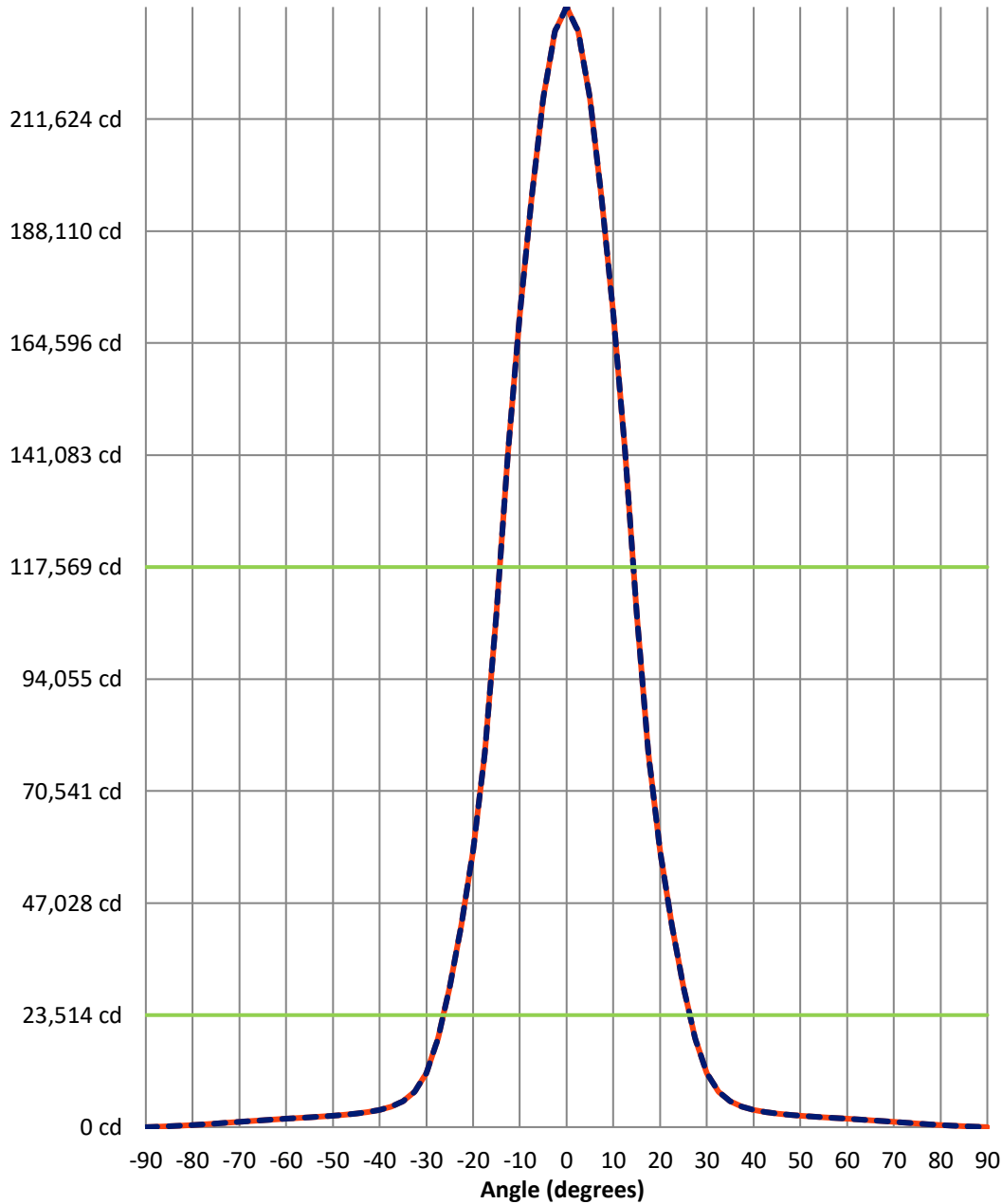
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 28.6°
 V Angle: 28.6°
 Lumens: 26238.1
 Efficiency: 36.1%

Field:
 H Angle: 52.7°
 V Angle: 52.7°
 Lumens: 44306.6
 Efficiency: 60.9%

Spill:
 Lumens: 28411.6
 Efficiency: 39.1%

- 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° | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 75.8 | 75.8 | 75.8 | 75.8 |
| 85° | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 182.0 | 182.0 | 182.0 | 174.4 | 174.4 | 166.8 |
| 82.5° | 303.3 | 303.3 | 303.3 | 303.3 | 295.7 | 295.7 | 288.1 | 288.1 | 280.5 | 280.5 | 272.9 |
| 80° | 432.2 | 432.2 | 432.2 | 432.2 | 424.6 | 417.0 | 417.0 | 409.4 | 401.8 | 394.2 | 386.7 |
| 77.5° | 583.8 | 583.8 | 583.8 | 576.2 | 568.6 | 568.6 | 561.0 | 545.9 | 538.3 | 523.1 | 515.6 |
| 75° | 750.6 | 750.6 | 750.6 | 743.0 | 735.4 | 727.8 | 712.7 | 705.1 | 689.9 | 674.8 | 652.0 |
| 72.5° | 932.5 | 932.5 | 932.5 | 925.0 | 909.8 | 902.2 | 887.1 | 871.9 | 856.7 | 834.0 | 811.2 |
| 70° | 1106.9 | 1106.9 | 1106.9 | 1091.8 | 1084.2 | 1069.0 | 1053.9 | 1038.7 | 1015.9 | 993.2 | 970.5 |
| 67.5° | 1281.3 | 1281.3 | 1281.3 | 1266.1 | 1258.6 | 1243.4 | 1228.2 | 1205.5 | 1182.7 | 1152.4 | 1129.7 |
| 65° | 1440.5 | 1440.5 | 1432.9 | 1425.4 | 1417.8 | 1402.6 | 1379.9 | 1364.7 | 1342.0 | 1311.6 | 1281.3 |
| 62.5° | 1607.3 | 1607.3 | 1599.7 | 1592.1 | 1577.0 | 1561.8 | 1539.1 | 1516.3 | 1486.0 | 1455.7 | 1425.4 |
| 60° | 1774.1 | 1774.1 | 1766.5 | 1758.9 | 1743.8 | 1721.0 | 1698.3 | 1675.5 | 1645.2 | 1607.3 | 1569.4 |
| 57.5° | 1910.6 | 1910.6 | 1903.0 | 1895.4 | 1880.3 | 1865.1 | 1842.3 | 1819.6 | 1789.3 | 1758.9 | 1713.5 |
| 55° | 2054.6 | 2054.6 | 2047.0 | 2031.9 | 2016.7 | 2001.6 | 1978.8 | 1948.5 | 1918.2 | 1880.3 | 1849.9 |
| 52.5° | 2221.4 | 2221.4 | 2213.8 | 2198.7 | 2175.9 | 2153.2 | 2122.9 | 2085.0 | 2047.0 | 2009.1 | 1963.6 |
| 50° | 2388.2 | 2388.2 | 2373.1 | 2357.9 | 2342.7 | 2312.4 | 2282.1 | 2244.2 | 2198.7 | 2153.2 | 2100.1 |
| 47.5° | 2592.9 | 2592.9 | 2577.8 | 2555.0 | 2524.7 | 2494.4 | 2448.9 | 2395.8 | 2350.3 | 2297.2 | 2236.6 |
| 45° | 2843.1 | 2843.1 | 2820.4 | 2797.6 | 2759.7 | 2706.7 | 2653.6 | 2592.9 | 2524.7 | 2456.5 | 2380.6 |
| 42.5° | 3169.1 | 3169.1 | 3138.8 | 3100.9 | 3047.8 | 2979.6 | 2896.2 | 2812.8 | 2729.4 | 2638.4 | 2547.4 |
| 40° | 3608.9 | 3608.9 | 3563.4 | 3510.3 | 3426.9 | 3328.3 | 3207.0 | 3093.3 | 2979.6 | 2850.7 | 2737.0 |
| 37.5° | 4298.8 | 4298.8 | 4223.0 | 4124.4 | 3988.0 | 3821.2 | 3616.5 | 3464.8 | 3290.4 | 3123.6 | 2972.0 |
| 35° | 5428.5 | 5428.5 | 5292.0 | 5117.6 | 4875.0 | 4571.7 | 4245.7 | 3988.0 | 3699.8 | 3464.8 | 3245.0 |
| 32.5° | 7437.6 | 7437.6 | 7164.7 | 6823.5 | 6361.0 | 5769.6 | 5223.8 | 4768.9 | 4298.8 | 3934.9 | 3586.1 |
| 30° | 11327.0 | 11327.0 | 10743.2 | 10023.0 | 9029.8 | 7786.4 | 6853.8 | 5981.9 | 5185.9 | 4586.9 | 4078.9 |
| 27.5° | 18628.1 | 18324.9 | 17415.1 | 15921.5 | 13874.4 | 11327.0 | 9704.5 | 7862.2 | 6603.6 | 5458.8 | 4753.7 |
| 25° | 29409.3 | 28908.9 | 27407.7 | 24958.8 | 21622.9 | 17839.6 | 14526.5 | 11031.3 | 8825.1 | 6922.1 | 5610.4 |
| 22.5° | 42510.4 | 41820.4 | 39781.0 | 36452.6 | 31941.5 | 26907.3 | 21547.1 | 16520.4 | 12047.3 | 9151.1 | 6922.1 |
| 20° | 58022.4 | 57097.5 | 54360.5 | 49917.6 | 43943.3 | 37536.8 | 30379.7 | 23647.2 | 17195.2 | 12047.3 | 8825.1 |
| 17.5° | 78500.5 | 77090.3 | 72943.1 | 66271.3 | 58022.4 | 49386.9 | 40440.6 | 31752.0 | 23647.2 | 16520.4 | 11031.3 |
| 15° | 107940.1 | 105559.4 | 98599.5 | 87545.4 | 74702.1 | 62662.4 | 51252.0 | 40440.6 | 30379.7 | 21547.1 | 14526.5 |
| 12.5° | 141974.2 | 138661.0 | 129070.2 | 114111.6 | 96658.6 | 77621.0 | 62662.4 | 49386.9 | 37536.8 | 26907.3 | 17839.6 |
| 10° | 170648.0 | 167152.8 | 157243.6 | 142239.5 | 120108.7 | 96658.6 | 74702.1 | 58022.4 | 43943.3 | 31941.5 | 21622.9 |
| 7.5° | 194871.4 | 190959.3 | 180276.7 | 163862.4 | 142239.5 | 114111.6 | 87545.4 | 66271.3 | 49917.6 | 36452.6 | 24958.8 |
| 5° | 215910.5 | 210952.1 | 198518.2 | 180276.7 | 157243.6 | 129070.2 | 98599.5 | 72943.1 | 54360.5 | 39781.0 | 27407.7 |
| 2.5° | 229966.9 | 224144.2 | 210952.1 | 190959.3 | 167152.8 | 138661.0 | 105559.4 | 77090.3 | 57097.5 | 41820.4 | 28908.9 |
| 0° | 235137.6 | 229966.9 | 215910.5 | 194871.4 | 170648.0 | 141974.2 | 107940.1 | 78500.5 | 58022.4 | 42510.4 | 29409.3 |



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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° | 75.8 | 75.8 | 68.2 | 68.2 | 68.2 | 60.7 | 60.7 | 60.7 | 53.1 | 53.1 | 53.1 |
| 85° | 166.8 | 159.2 | 159.2 | 151.6 | 144.1 | 136.5 | 136.5 | 128.9 | 121.3 | 113.7 | 106.1 |
| 82.5° | 265.4 | 257.8 | 250.2 | 242.6 | 235.0 | 219.9 | 212.3 | 204.7 | 189.5 | 182.0 | 174.4 |
| 80° | 371.5 | 363.9 | 348.8 | 341.2 | 326.0 | 310.8 | 295.7 | 280.5 | 265.4 | 250.2 | 235.0 |
| 77.5° | 500.4 | 477.6 | 462.5 | 447.3 | 424.6 | 409.4 | 386.7 | 371.5 | 348.8 | 326.0 | 303.3 |
| 75° | 636.9 | 614.1 | 591.4 | 568.6 | 545.9 | 515.6 | 492.8 | 462.5 | 439.7 | 409.4 | 386.7 |
| 72.5° | 788.5 | 758.2 | 727.8 | 697.5 | 667.2 | 636.9 | 606.5 | 568.6 | 538.3 | 500.4 | 462.5 |
| 70° | 940.1 | 909.8 | 879.5 | 841.6 | 803.7 | 765.7 | 727.8 | 682.3 | 644.4 | 599.0 | 553.5 |
| 67.5° | 1099.3 | 1061.4 | 1023.5 | 985.6 | 947.7 | 902.2 | 849.1 | 803.7 | 750.6 | 697.5 | 652.0 |
| 65° | 1251.0 | 1213.1 | 1167.6 | 1122.1 | 1076.6 | 1031.1 | 978.0 | 925.0 | 864.3 | 803.7 | 750.6 |
| 62.5° | 1387.4 | 1349.5 | 1311.6 | 1258.6 | 1213.1 | 1160.0 | 1106.9 | 1038.7 | 978.0 | 917.4 | 849.1 |
| 60° | 1531.5 | 1486.0 | 1440.5 | 1387.4 | 1334.4 | 1281.3 | 1220.6 | 1152.4 | 1091.8 | 1015.9 | 947.7 |
| 57.5° | 1668.0 | 1622.5 | 1569.4 | 1516.3 | 1455.7 | 1395.0 | 1334.4 | 1266.1 | 1197.9 | 1122.1 | 1046.3 |
| 55° | 1804.4 | 1758.9 | 1705.9 | 1645.2 | 1577.0 | 1508.8 | 1440.5 | 1372.3 | 1304.0 | 1220.6 | 1137.2 |
| 52.5° | 1918.2 | 1872.7 | 1819.6 | 1774.1 | 1698.3 | 1630.1 | 1554.2 | 1470.8 | 1395.0 | 1311.6 | 1228.2 |
| 50° | 2039.5 | 1986.4 | 1925.7 | 1872.7 | 1812.0 | 1743.8 | 1660.4 | 1577.0 | 1486.0 | 1402.6 | 1311.6 |
| 47.5° | 2175.9 | 2107.7 | 2039.5 | 1971.2 | 1910.6 | 1834.8 | 1766.5 | 1675.5 | 1584.6 | 1486.0 | 1395.0 |
| 45° | 2312.4 | 2236.6 | 2160.8 | 2077.4 | 2001.6 | 1925.7 | 1849.9 | 1774.1 | 1675.5 | 1577.0 | 1470.8 |
| 42.5° | 2456.5 | 2365.5 | 2282.1 | 2198.7 | 2107.7 | 2016.7 | 1933.3 | 1849.9 | 1766.5 | 1660.4 | 1554.2 |
| 40° | 2623.3 | 2517.1 | 2411.0 | 2312.4 | 2221.4 | 2115.3 | 2016.7 | 1925.7 | 1834.8 | 1743.8 | 1630.1 |
| 37.5° | 2812.8 | 2683.9 | 2555.0 | 2433.7 | 2320.0 | 2221.4 | 2107.7 | 2001.6 | 1910.6 | 1812.0 | 1698.3 |
| 35° | 3055.4 | 2865.9 | 2714.2 | 2562.6 | 2433.7 | 2312.4 | 2198.7 | 2077.4 | 1971.2 | 1872.7 | 1774.1 |
| 32.5° | 3328.3 | 3093.3 | 2888.6 | 2714.2 | 2555.0 | 2411.0 | 2282.1 | 2160.8 | 2039.5 | 1925.7 | 1819.6 |
| 30° | 3661.9 | 3358.7 | 3093.3 | 2865.9 | 2683.9 | 2517.1 | 2365.5 | 2236.6 | 2107.7 | 1986.4 | 1872.7 |
| 27.5° | 4132.0 | 3661.9 | 3328.3 | 3055.4 | 2812.8 | 2623.3 | 2456.5 | 2312.4 | 2175.9 | 2039.5 | 1918.2 |
| 25° | 4753.7 | 4078.9 | 3586.1 | 3245.0 | 2972.0 | 2737.0 | 2547.4 | 2380.6 | 2236.6 | 2100.1 | 1963.6 |
| 22.5° | 5458.8 | 4586.9 | 3934.9 | 3464.8 | 3123.6 | 2850.7 | 2638.4 | 2456.5 | 2297.2 | 2153.2 | 2009.1 |
| 20° | 6603.6 | 5185.9 | 4298.8 | 3699.8 | 3290.4 | 2979.6 | 2729.4 | 2524.7 | 2350.3 | 2198.7 | 2047.0 |
| 17.5° | 7862.2 | 5981.9 | 4768.9 | 3988.0 | 3464.8 | 3093.3 | 2812.8 | 2592.9 | 2395.8 | 2244.2 | 2085.0 |
| 15° | 9704.5 | 6853.8 | 5223.8 | 4245.7 | 3616.5 | 3207.0 | 2896.2 | 2653.6 | 2448.9 | 2282.1 | 2122.9 |
| 12.5° | 11327.0 | 7786.4 | 5769.6 | 4571.7 | 3821.2 | 3328.3 | 2979.6 | 2706.7 | 2494.4 | 2312.4 | 2153.2 |
| 10° | 13874.4 | 9029.8 | 6361.0 | 4875.0 | 3988.0 | 3426.9 | 3047.8 | 2759.7 | 2524.7 | 2342.7 | 2175.9 |
| 7.5° | 15921.5 | 10023.0 | 6823.5 | 5117.6 | 4124.4 | 3510.3 | 3100.9 | 2797.6 | 2555.0 | 2357.9 | 2198.7 |
| 5° | 17415.1 | 10743.2 | 7164.7 | 5292.0 | 4223.0 | 3563.4 | 3138.8 | 2820.4 | 2577.8 | 2373.1 | 2213.8 |
| 2.5° | 18324.9 | 11327.0 | 7437.6 | 5428.5 | 4298.8 | 3608.9 | 3169.1 | 2843.1 | 2592.9 | 2388.2 | 2221.4 |
| 0° | 18628.1 | 11327.0 | 7437.6 | 5428.5 | 4298.8 | 3608.9 | 3169.1 | 2843.1 | 2592.9 | 2388.2 | 2221.4 |



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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° | 45.5 | 45.5 | 37.9 | 37.9 | 37.9 | 30.3 | 30.3 | 22.7 | 22.7 | 15.2 | 15.2 |
| 85° | 98.6 | 91.0 | 83.4 | 75.8 | 68.2 | 60.7 | 60.7 | 53.1 | 45.5 | 37.9 | 30.3 |
| 82.5° | 159.2 | 151.6 | 136.5 | 121.3 | 113.7 | 98.6 | 83.4 | 75.8 | 68.2 | 53.1 | 45.5 |
| 80° | 219.9 | 204.7 | 189.5 | 174.4 | 159.2 | 136.5 | 121.3 | 106.1 | 83.4 | 68.2 | 60.7 |
| 77.5° | 288.1 | 265.4 | 242.6 | 219.9 | 197.1 | 182.0 | 159.2 | 136.5 | 113.7 | 91.0 | 68.2 |
| 75° | 356.3 | 326.0 | 303.3 | 272.9 | 250.2 | 219.9 | 189.5 | 166.8 | 144.1 | 113.7 | 83.4 |
| 72.5° | 432.2 | 394.2 | 363.9 | 326.0 | 295.7 | 265.4 | 227.4 | 197.1 | 166.8 | 136.5 | 106.1 |
| 70° | 515.6 | 470.1 | 424.6 | 386.7 | 348.8 | 303.3 | 265.4 | 227.4 | 189.5 | 159.2 | 121.3 |
| 67.5° | 599.0 | 545.9 | 492.8 | 439.7 | 394.2 | 348.8 | 303.3 | 265.4 | 219.9 | 182.0 | 136.5 |
| 65° | 682.3 | 621.7 | 568.6 | 508.0 | 447.3 | 394.2 | 348.8 | 295.7 | 250.2 | 197.1 | 159.2 |
| 62.5° | 773.3 | 705.1 | 636.9 | 568.6 | 508.0 | 439.7 | 386.7 | 326.0 | 272.9 | 219.9 | 174.4 |
| 60° | 871.9 | 796.1 | 712.7 | 636.9 | 568.6 | 492.8 | 424.6 | 363.9 | 303.3 | 242.6 | 189.5 |
| 57.5° | 962.9 | 879.5 | 796.1 | 705.1 | 621.7 | 545.9 | 470.1 | 394.2 | 326.0 | 265.4 | 204.7 |
| 55° | 1053.9 | 962.9 | 871.9 | 773.3 | 682.3 | 599.0 | 515.6 | 432.2 | 356.3 | 288.1 | 219.9 |
| 52.5° | 1137.2 | 1046.3 | 947.7 | 849.1 | 750.6 | 652.0 | 553.5 | 462.5 | 386.7 | 303.3 | 235.0 |
| 50° | 1220.6 | 1122.1 | 1015.9 | 917.4 | 803.7 | 697.5 | 599.0 | 500.4 | 409.4 | 326.0 | 250.2 |
| 47.5° | 1304.0 | 1197.9 | 1091.8 | 978.0 | 864.3 | 750.6 | 644.4 | 538.3 | 439.7 | 348.8 | 265.4 |
| 45° | 1372.3 | 1266.1 | 1152.4 | 1038.7 | 925.0 | 803.7 | 682.3 | 568.6 | 462.5 | 371.5 | 280.5 |
| 42.5° | 1440.5 | 1334.4 | 1220.6 | 1106.9 | 978.0 | 849.1 | 727.8 | 606.5 | 492.8 | 386.7 | 295.7 |
| 40° | 1508.8 | 1395.0 | 1281.3 | 1160.0 | 1031.1 | 902.2 | 765.7 | 636.9 | 515.6 | 409.4 | 310.8 |
| 37.5° | 1577.0 | 1455.7 | 1334.4 | 1213.1 | 1076.6 | 947.7 | 803.7 | 667.2 | 545.9 | 424.6 | 326.0 |
| 35° | 1645.2 | 1516.3 | 1387.4 | 1258.6 | 1122.1 | 985.6 | 841.6 | 697.5 | 568.6 | 447.3 | 341.2 |
| 32.5° | 1705.9 | 1569.4 | 1440.5 | 1311.6 | 1167.6 | 1023.5 | 879.5 | 727.8 | 591.4 | 462.5 | 348.8 |
| 30° | 1758.9 | 1622.5 | 1486.0 | 1349.5 | 1213.1 | 1061.4 | 909.8 | 758.2 | 614.1 | 477.6 | 363.9 |
| 27.5° | 1804.4 | 1668.0 | 1531.5 | 1387.4 | 1251.0 | 1099.3 | 940.1 | 788.5 | 636.9 | 500.4 | 371.5 |
| 25° | 1849.9 | 1713.5 | 1569.4 | 1425.4 | 1281.3 | 1129.7 | 970.5 | 811.2 | 652.0 | 515.6 | 386.7 |
| 22.5° | 1880.3 | 1758.9 | 1607.3 | 1455.7 | 1311.6 | 1152.4 | 993.2 | 834.0 | 674.8 | 523.1 | 394.2 |
| 20° | 1918.2 | 1789.3 | 1645.2 | 1486.0 | 1342.0 | 1182.7 | 1015.9 | 856.7 | 689.9 | 538.3 | 401.8 |
| 17.5° | 1948.5 | 1819.6 | 1675.5 | 1516.3 | 1364.7 | 1205.5 | 1038.7 | 871.9 | 705.1 | 545.9 | 409.4 |
| 15° | 1978.8 | 1842.3 | 1698.3 | 1539.1 | 1379.9 | 1228.2 | 1053.9 | 887.1 | 712.7 | 561.0 | 417.0 |
| 12.5° | 2001.6 | 1865.1 | 1721.0 | 1561.8 | 1402.6 | 1243.4 | 1069.0 | 902.2 | 727.8 | 568.6 | 417.0 |
| 10° | 2016.7 | 1880.3 | 1743.8 | 1577.0 | 1417.8 | 1258.6 | 1084.2 | 909.8 | 735.4 | 568.6 | 424.6 |
| 7.5° | 2031.9 | 1895.4 | 1758.9 | 1592.1 | 1425.4 | 1266.1 | 1091.8 | 925.0 | 743.0 | 576.2 | 432.2 |
| 5° | 2047.0 | 1903.0 | 1766.5 | 1599.7 | 1432.9 | 1281.3 | 1106.9 | 932.5 | 750.6 | 583.8 | 432.2 |
| 2.5° | 2054.6 | 1910.6 | 1774.1 | 1607.3 | 1440.5 | 1281.3 | 1106.9 | 932.5 | 750.6 | 583.8 | 432.2 |
| 0° | 2054.6 | 1910.6 | 1774.1 | 1607.3 | 1440.5 | 1281.3 | 1106.9 | 932.5 | 750.6 | 583.8 | 432.2 |



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