

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: P624130

Luminaire Tested: **EPH-VN-08-D-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624130
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-730-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

| | | | |
|-------------------|------------------------------------|----------------------|-----------------|
| Lumens per Lamp: | N/A | NEMA Type: | 5H x 5V |
| Luminaire Lumens: | 52930.2 lumens | Max Intensity: | 64682.9 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 10°V |
| Efficacy: | 108.4 lumens/watt | | |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') | | |

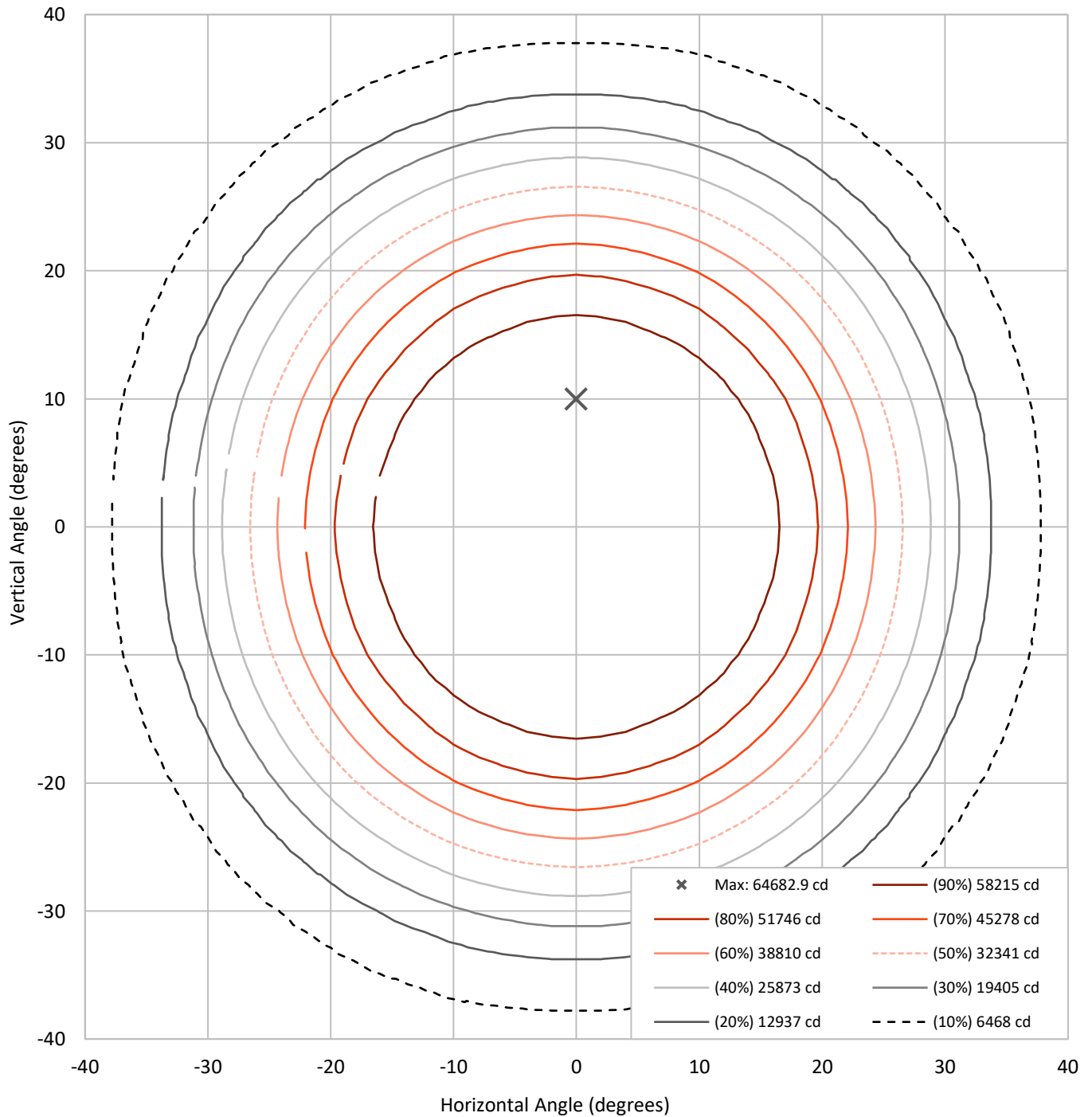
| | | | |
|-------------------|-----------------|--------------------|-----------------|
| Beam Angle (50%): | 49.5°H x 53.1°V | Field Angle (10%): | 73.6°H x 75.3°V |
| Beam Lumens: | 26307.7 lumens | Field Lumens: | 34213.9 lumens |
| Beam Efficiency: | 49.7% | Field Efficiency: | 64.6% |

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





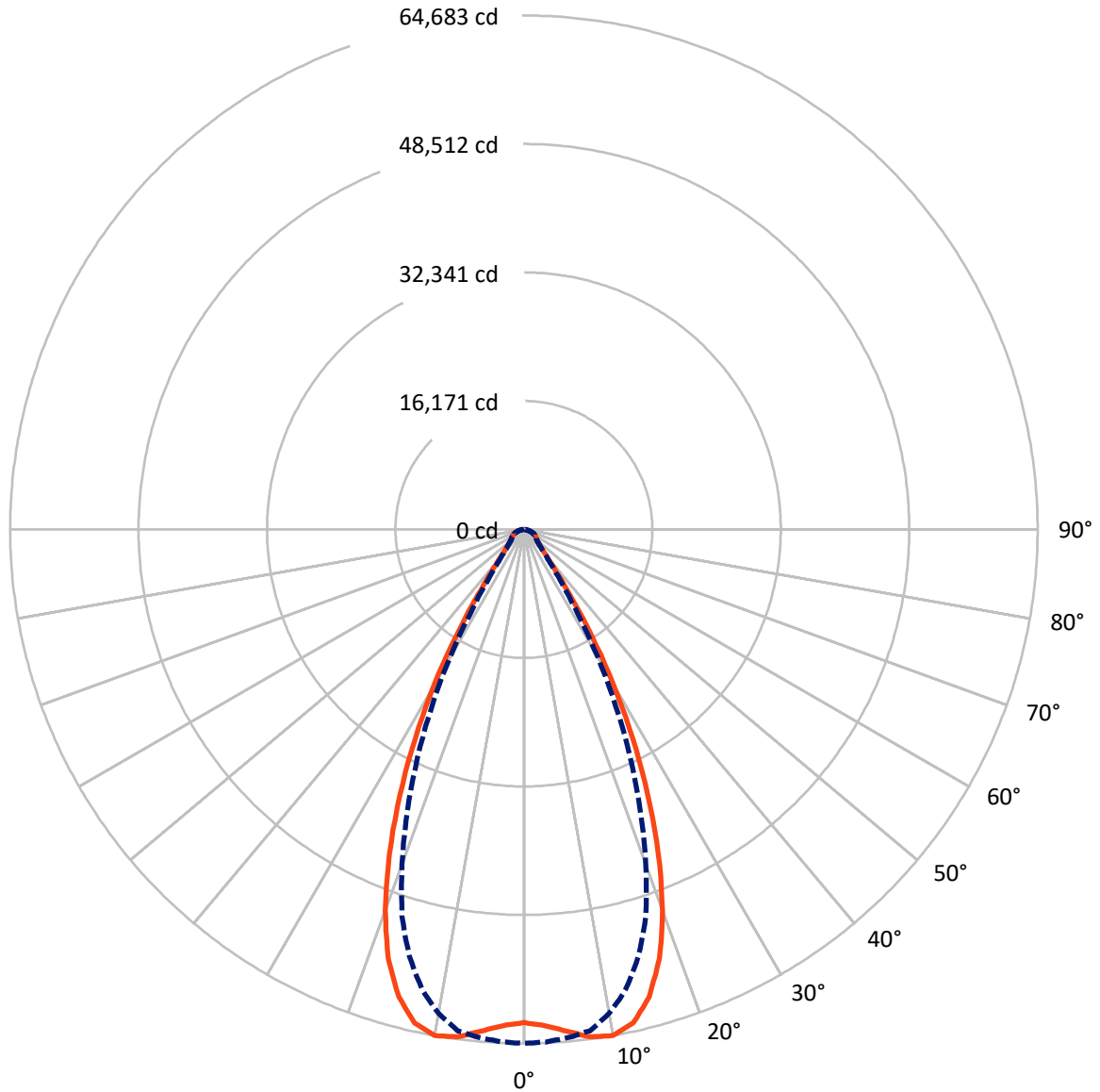
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Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|------|------|------|------|-------|-------|--------|--------|--------|--------|-------|-------|------|------|------|------|--|--|--|
| 90 | 1.5 | 11.6 | 30.3 | 48.8 | 56.6 | 48.8 | 30.3 | 11.6 | 1.5 | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | | | |
| 60 | 5.3 | 5.7 | 12.0 | 19.8 | 27.8 | 34.7 | 39.7 | 42.4 | 42.4 | 39.7 | 34.7 | 27.8 | 19.8 | 12.0 | 5.7 | 5.3 | | | |
| 50 | | 8.9 | 18.3 | 29.0 | 39.0 | 47.4 | 53.8 | 57.4 | 57.4 | 53.8 | 47.4 | 39.0 | 29.0 | 18.3 | 8.9 | | | | |
| 40 | 9.4 | 11.9 | 23.6 | 35.7 | 47.9 | 62.0 | 78.5 | 91.2 | 91.2 | 78.5 | 62.0 | 47.9 | 35.7 | 23.6 | 11.9 | 9.4 | | | |
| 30 | | 14.5 | 27.4 | 41.4 | 62.8 | 111.8 | 218.5 | 329.6 | 329.6 | 218.5 | 111.8 | 62.8 | 41.4 | 27.4 | 14.5 | | | | |
| 20 | 12.5 | 16.4 | 30.1 | 48.6 | 101.5 | 323.4 | 749.4 | 1063.6 | 1063.6 | 749.4 | 323.4 | 101.5 | 48.6 | 30.1 | 16.4 | 12.5 | | | |
| 10 | | 17.6 | 32.1 | 57.9 | 187.3 | 705.9 | 1381.0 | 1760.5 | 1760.5 | 1381.0 | 705.9 | 187.3 | 57.9 | 32.1 | 17.6 | | | | |
| 0 | 13.7 | 18.2 | 33.2 | 65.4 | 274.9 | 972.3 | 1708.5 | 1937.5 | 1937.5 | 1708.5 | 972.3 | 274.9 | 65.4 | 33.2 | 18.2 | 13.7 | | | |
| -10 | | 18.2 | 33.2 | 65.4 | 274.9 | 972.3 | 1708.5 | 1937.5 | 1937.5 | 1708.5 | 972.3 | 274.9 | 65.4 | 33.2 | 18.2 | | | | |
| -20 | 12.5 | 17.6 | 32.1 | 57.9 | 187.3 | 705.9 | 1381.0 | 1760.5 | 1760.5 | 1381.0 | 705.9 | 187.3 | 57.9 | 32.1 | 17.6 | 12.5 | | | |
| -30 | | 16.4 | 30.1 | 48.6 | 101.5 | 323.4 | 749.4 | 1063.6 | 1063.6 | 749.4 | 323.4 | 101.5 | 48.6 | 30.1 | 16.4 | | | | |
| -40 | 9.4 | 14.5 | 27.4 | 41.4 | 62.8 | 111.8 | 218.5 | 329.6 | 329.6 | 218.5 | 111.8 | 62.8 | 41.4 | 27.4 | 14.5 | 9.4 | | | |
| -50 | | 11.9 | 23.6 | 35.7 | 47.9 | 62.0 | 78.5 | 91.2 | 91.2 | 78.5 | 62.0 | 47.9 | 35.7 | 23.6 | 11.9 | | | | |
| -60 | 5.3 | 8.9 | 18.3 | 29.0 | 39.0 | 47.4 | 53.8 | 57.4 | 57.4 | 53.8 | 47.4 | 39.0 | 29.0 | 18.3 | 8.9 | 5.3 | | | |
| -70 | | 5.7 | 12.0 | 19.8 | 27.8 | 34.7 | 39.7 | 42.4 | 42.4 | 39.7 | 34.7 | 27.8 | 19.8 | 12.0 | 5.7 | | | | |
| -80 | 1.5 | 11.6 | 30.3 | 48.8 | 56.6 | 48.8 | 30.3 | 11.6 | 1.5 | | | | | | | | | | |
| -90 | | | | | | | | | | | | | | | | | | | |

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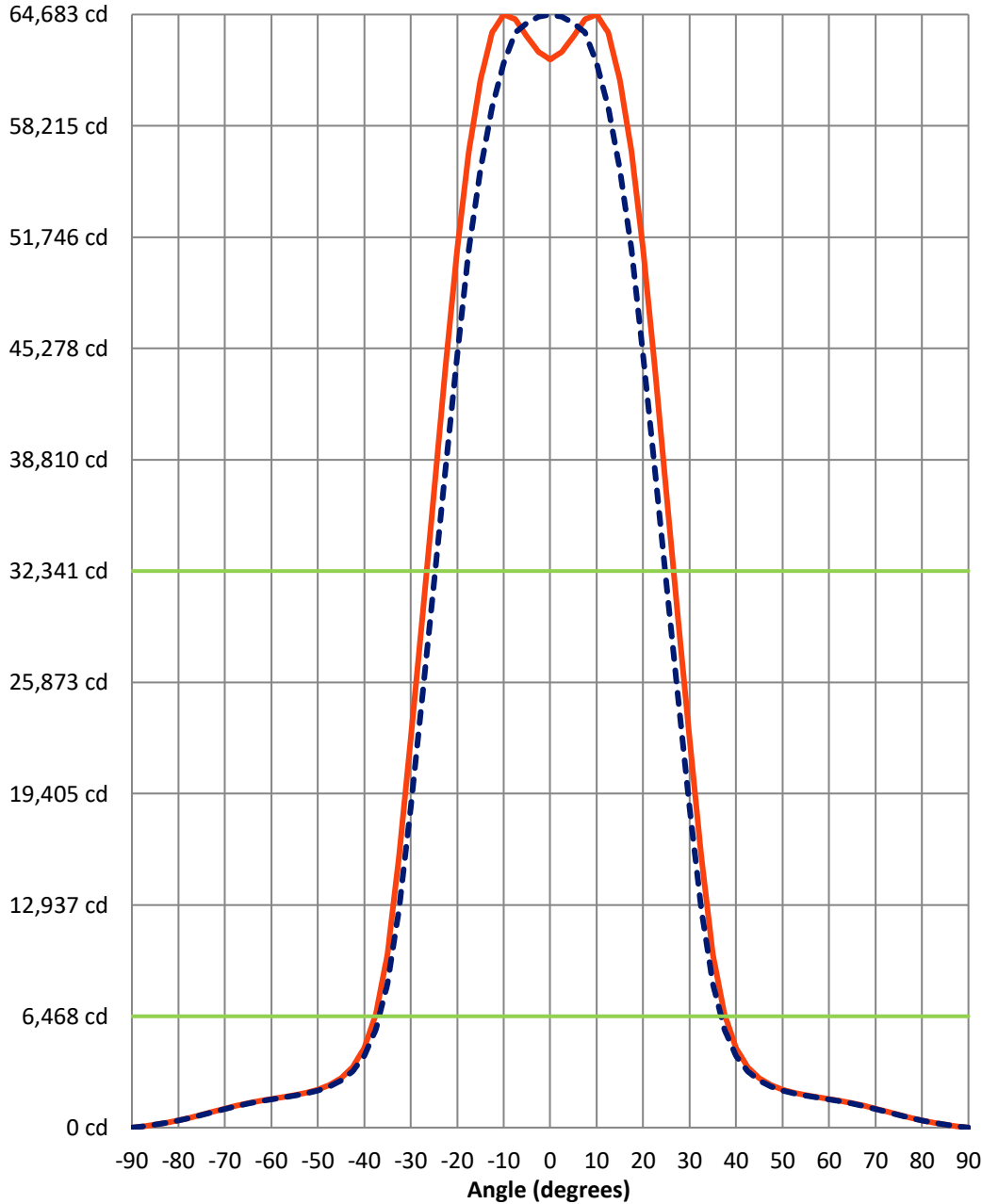
Luminous Intensity Polar Plot



— 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: 26307.7
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 34213.9
 Efficiency: 64.6%

Spill:
 Lumens: 18716.3
 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° | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 66.0 | 66.0 | 66.0 | 66.0 |
| 85° | 175.9 | 175.9 | 175.9 | 175.9 | 175.9 | 170.4 | 170.4 | 165.0 | 165.0 | 159.5 | 154.0 |
| 82.5° | 285.9 | 285.9 | 285.9 | 285.9 | 280.4 | 280.4 | 274.9 | 269.4 | 263.9 | 258.4 | 252.9 |
| 80° | 417.9 | 417.9 | 417.9 | 417.9 | 412.4 | 406.9 | 401.4 | 395.9 | 384.9 | 379.4 | 368.4 |
| 77.5° | 571.8 | 571.8 | 571.8 | 566.3 | 560.8 | 555.3 | 544.3 | 533.3 | 522.3 | 511.3 | 500.4 |
| 75° | 747.8 | 747.8 | 747.8 | 736.8 | 731.3 | 720.3 | 709.3 | 698.3 | 681.8 | 665.3 | 648.8 |
| 72.5° | 929.2 | 929.2 | 929.2 | 918.2 | 907.2 | 896.2 | 885.2 | 868.7 | 852.2 | 830.3 | 808.3 |
| 70° | 1099.7 | 1099.7 | 1099.7 | 1088.7 | 1077.7 | 1066.7 | 1050.2 | 1033.7 | 1011.7 | 989.7 | 967.7 |
| 67.5° | 1275.6 | 1275.6 | 1275.6 | 1259.1 | 1248.1 | 1237.1 | 1220.6 | 1198.6 | 1176.7 | 1149.2 | 1121.7 |
| 65° | 1418.6 | 1418.6 | 1413.1 | 1407.6 | 1396.6 | 1380.1 | 1369.1 | 1347.1 | 1325.1 | 1303.1 | 1275.6 |
| 62.5° | 1550.5 | 1550.5 | 1545.0 | 1539.5 | 1528.5 | 1512.1 | 1495.6 | 1479.1 | 1457.1 | 1429.6 | 1402.1 |
| 60° | 1660.5 | 1660.5 | 1655.0 | 1649.5 | 1638.5 | 1627.5 | 1611.0 | 1594.5 | 1572.5 | 1550.5 | 1523.1 |
| 57.5° | 1770.5 | 1770.5 | 1765.0 | 1759.5 | 1748.5 | 1732.0 | 1715.5 | 1699.0 | 1677.0 | 1649.5 | 1622.0 |
| 55° | 1885.9 | 1885.9 | 1880.4 | 1869.4 | 1858.5 | 1842.0 | 1825.5 | 1803.5 | 1776.0 | 1748.5 | 1721.0 |
| 52.5° | 2023.4 | 2023.4 | 2012.4 | 2001.4 | 1984.9 | 1968.4 | 1940.9 | 1913.4 | 1880.4 | 1847.5 | 1814.5 |
| 50° | 2204.8 | 2204.8 | 2193.9 | 2177.4 | 2149.9 | 2122.4 | 2089.4 | 2045.4 | 2006.9 | 1962.9 | 1918.9 |
| 47.5° | 2474.3 | 2474.3 | 2452.3 | 2424.8 | 2386.3 | 2342.3 | 2281.8 | 2215.8 | 2160.9 | 2105.9 | 2039.9 |
| 45° | 2870.2 | 2870.2 | 2837.2 | 2793.2 | 2732.7 | 2655.7 | 2567.7 | 2474.3 | 2380.8 | 2287.3 | 2193.9 |
| 42.5° | 3513.5 | 3513.5 | 3453.0 | 3376.0 | 3271.5 | 3139.6 | 2974.6 | 2820.7 | 2688.7 | 2540.3 | 2413.8 |
| 40° | 4624.1 | 4624.1 | 4508.7 | 4365.7 | 4167.8 | 3914.8 | 3612.4 | 3370.5 | 3139.6 | 2881.2 | 2705.2 |
| 37.5° | 6598.1 | 6598.1 | 6372.6 | 6097.7 | 5712.8 | 5229.0 | 4646.1 | 4255.7 | 3826.9 | 3420.0 | 3123.1 |
| 35° | 10084.0 | 10084.0 | 9649.7 | 9116.3 | 8374.0 | 7439.3 | 6444.1 | 5707.3 | 4888.1 | 4261.2 | 3705.9 |
| 32.5° | 15802.3 | 15802.3 | 15021.6 | 14059.4 | 12734.2 | 11057.2 | 9462.7 | 8060.6 | 6598.1 | 5558.9 | 4558.2 |
| 30° | 22598.3 | 22598.3 | 21575.6 | 20316.5 | 18590.0 | 16412.7 | 14141.8 | 11651.1 | 9341.7 | 7488.8 | 5976.7 |
| 27.5° | 29625.3 | 29333.9 | 28454.1 | 27019.0 | 25050.6 | 22598.3 | 19766.7 | 16550.1 | 13427.0 | 10161.0 | 8000.1 |
| 25° | 36894.1 | 36553.2 | 35547.0 | 33897.5 | 31643.2 | 28866.5 | 25677.4 | 22081.5 | 18227.1 | 14334.3 | 10595.4 |
| 22.5° | 44240.0 | 43855.1 | 42711.4 | 40847.5 | 38318.2 | 35206.1 | 31593.7 | 27596.4 | 23291.1 | 18793.5 | 14334.3 |
| 20° | 51030.5 | 50623.6 | 49424.9 | 47484.0 | 44866.8 | 41452.3 | 37438.5 | 33006.8 | 28245.2 | 23291.1 | 18227.1 |
| 17.5° | 56715.8 | 56325.4 | 55170.7 | 53317.8 | 51030.5 | 47253.1 | 43079.8 | 38208.2 | 33006.8 | 27596.4 | 22081.5 |
| 15° | 60867.1 | 60531.7 | 59547.4 | 57991.4 | 55660.1 | 52317.1 | 48066.8 | 43079.8 | 37438.5 | 31593.7 | 25677.4 |
| 12.5° | 63621.7 | 63352.3 | 62577.1 | 61367.4 | 59278.0 | 56473.9 | 52317.1 | 47253.1 | 41452.3 | 35206.1 | 28866.5 |
| 10° | 64682.9 | 64551.0 | 64188.1 | 63632.7 | 61851.3 | 59278.0 | 55660.1 | 51030.5 | 44866.8 | 38318.2 | 31643.2 |
| 7.5° | 64402.5 | 64446.5 | 64573.0 | 64430.0 | 63632.7 | 61367.4 | 57991.4 | 53317.8 | 47484.0 | 40847.5 | 33897.5 |
| 5° | 63401.8 | 63638.2 | 64226.6 | 64573.0 | 64188.1 | 62577.1 | 59547.4 | 55170.7 | 49424.9 | 42711.4 | 35547.0 |
| 2.5° | 62511.1 | 62879.5 | 63638.2 | 64446.5 | 64551.0 | 63352.3 | 60531.7 | 56325.4 | 50623.6 | 43855.1 | 36553.2 |
| 0° | 62071.2 | 62511.1 | 63401.8 | 64402.5 | 64682.9 | 63621.7 | 60867.1 | 56715.8 | 51030.5 | 44240.0 | 36894.1 |



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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° | 66.0 | 60.5 | 60.5 | 60.5 | 55.0 | 55.0 | 55.0 | 49.5 | 49.5 | 44.0 | 44.0 |
| 85° | 154.0 | 148.5 | 143.0 | 137.5 | 132.0 | 126.5 | 121.0 | 115.5 | 110.0 | 99.0 | 93.5 |
| 82.5° | 247.4 | 241.9 | 236.4 | 225.4 | 219.9 | 208.9 | 197.9 | 186.9 | 175.9 | 170.4 | 159.5 |
| 80° | 357.4 | 346.4 | 335.4 | 324.4 | 307.9 | 291.4 | 280.4 | 263.9 | 252.9 | 236.4 | 225.4 |
| 77.5° | 483.9 | 467.4 | 450.9 | 428.9 | 412.4 | 395.9 | 373.9 | 357.4 | 335.4 | 313.4 | 291.4 |
| 75° | 626.8 | 604.8 | 577.3 | 555.3 | 533.3 | 505.9 | 478.4 | 450.9 | 423.4 | 395.9 | 368.4 |
| 72.5° | 780.8 | 753.3 | 725.8 | 698.3 | 665.3 | 626.8 | 593.8 | 555.3 | 522.3 | 489.4 | 450.9 |
| 70° | 940.2 | 907.2 | 874.2 | 841.3 | 802.8 | 758.8 | 720.3 | 676.3 | 632.3 | 588.3 | 544.3 |
| 67.5° | 1088.7 | 1055.7 | 1017.2 | 984.2 | 940.2 | 896.2 | 846.8 | 797.3 | 747.8 | 692.8 | 637.8 |
| 65° | 1242.6 | 1204.1 | 1160.2 | 1116.2 | 1072.2 | 1022.7 | 973.2 | 923.7 | 863.2 | 802.8 | 747.8 |
| 62.5° | 1369.1 | 1336.1 | 1297.6 | 1253.6 | 1204.1 | 1149.2 | 1099.7 | 1033.7 | 973.2 | 912.7 | 841.3 |
| 60° | 1490.1 | 1451.6 | 1418.6 | 1369.1 | 1325.1 | 1275.6 | 1215.1 | 1149.2 | 1083.2 | 1011.7 | 945.7 |
| 57.5° | 1594.5 | 1561.5 | 1523.1 | 1479.1 | 1429.6 | 1380.1 | 1325.1 | 1264.6 | 1187.6 | 1116.2 | 1039.2 |
| 55° | 1688.0 | 1649.5 | 1611.0 | 1572.5 | 1528.5 | 1473.6 | 1418.6 | 1358.1 | 1292.1 | 1215.1 | 1132.7 |
| 52.5° | 1781.5 | 1743.0 | 1699.0 | 1660.5 | 1611.0 | 1561.5 | 1506.6 | 1446.1 | 1380.1 | 1308.6 | 1220.6 |
| 50° | 1874.9 | 1831.0 | 1787.0 | 1737.5 | 1688.0 | 1638.5 | 1583.5 | 1528.5 | 1457.1 | 1385.6 | 1308.6 |
| 47.5° | 1984.9 | 1929.9 | 1874.9 | 1820.0 | 1770.5 | 1710.0 | 1655.0 | 1594.5 | 1534.0 | 1457.1 | 1380.1 |
| 45° | 2122.4 | 2039.9 | 1973.9 | 1907.9 | 1847.5 | 1787.0 | 1721.0 | 1660.5 | 1594.5 | 1528.5 | 1446.1 |
| 42.5° | 2292.8 | 2182.9 | 2094.9 | 2006.9 | 1929.9 | 1858.5 | 1792.5 | 1721.0 | 1655.0 | 1583.5 | 1506.6 |
| 40° | 2523.8 | 2375.3 | 2232.3 | 2122.4 | 2023.4 | 1935.4 | 1858.5 | 1787.0 | 1710.0 | 1638.5 | 1561.5 |
| 37.5° | 2826.2 | 2617.2 | 2419.3 | 2259.8 | 2133.4 | 2023.4 | 1929.9 | 1847.5 | 1770.5 | 1688.0 | 1611.0 |
| 35° | 3282.5 | 2919.6 | 2666.7 | 2435.8 | 2259.8 | 2122.4 | 2006.9 | 1907.9 | 1820.0 | 1737.5 | 1660.5 |
| 32.5° | 3925.8 | 3365.0 | 2958.1 | 2666.7 | 2419.3 | 2232.3 | 2094.9 | 1973.9 | 1874.9 | 1787.0 | 1699.0 |
| 30° | 4772.6 | 3997.3 | 3365.0 | 2919.6 | 2617.2 | 2375.3 | 2182.9 | 2039.9 | 1929.9 | 1831.0 | 1743.0 |
| 27.5° | 6114.2 | 4772.6 | 3925.8 | 3282.5 | 2826.2 | 2523.8 | 2292.8 | 2122.4 | 1984.9 | 1874.9 | 1781.5 |
| 25° | 8000.1 | 5976.7 | 4558.2 | 3705.9 | 3123.1 | 2705.2 | 2413.8 | 2193.9 | 2039.9 | 1918.9 | 1814.5 |
| 22.5° | 10161.0 | 7488.8 | 5558.9 | 4261.2 | 3420.0 | 2881.2 | 2540.3 | 2287.3 | 2105.9 | 1962.9 | 1847.5 |
| 20° | 13427.0 | 9341.7 | 6598.1 | 4888.1 | 3826.9 | 3139.6 | 2688.7 | 2380.8 | 2160.9 | 2006.9 | 1880.4 |
| 17.5° | 16550.1 | 11651.1 | 8060.6 | 5707.3 | 4255.7 | 3370.5 | 2820.7 | 2474.3 | 2215.8 | 2045.4 | 1913.4 |
| 15° | 19766.7 | 14141.8 | 9462.7 | 6444.1 | 4646.1 | 3612.4 | 2974.6 | 2567.7 | 2281.8 | 2089.4 | 1940.9 |
| 12.5° | 22598.3 | 16412.7 | 11057.2 | 7439.3 | 5229.0 | 3914.8 | 3139.6 | 2655.7 | 2342.3 | 2122.4 | 1968.4 |
| 10° | 25050.6 | 18590.0 | 12734.2 | 8374.0 | 5712.8 | 4167.8 | 3271.5 | 2732.7 | 2386.3 | 2149.9 | 1984.9 |
| 7.5° | 27019.0 | 20316.5 | 14059.4 | 9116.3 | 6097.7 | 4365.7 | 3376.0 | 2793.2 | 2424.8 | 2177.4 | 2001.4 |
| 5° | 28454.1 | 21575.6 | 15021.6 | 9649.7 | 6372.6 | 4508.7 | 3453.0 | 2837.2 | 2452.3 | 2193.9 | 2012.4 |
| 2.5° | 29333.9 | 22598.3 | 15802.3 | 10084.0 | 6598.1 | 4624.1 | 3513.5 | 2870.2 | 2474.3 | 2204.8 | 2023.4 |
| 0° | 29625.3 | 22598.3 | 15802.3 | 10084.0 | 6598.1 | 4624.1 | 3513.5 | 2870.2 | 2474.3 | 2204.8 | 2023.4 |



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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° | 38.5 | 38.5 | 33.0 | 33.0 | 27.5 | 27.5 | 22.0 | 22.0 | 16.5 | 16.5 | 11.0 |
| 85° | 88.0 | 77.0 | 71.5 | 66.0 | 60.5 | 55.0 | 49.5 | 44.0 | 38.5 | 33.0 | 27.5 |
| 82.5° | 148.5 | 137.5 | 121.0 | 110.0 | 99.0 | 88.0 | 71.5 | 66.0 | 55.0 | 44.0 | 38.5 |
| 80° | 208.9 | 192.4 | 175.9 | 159.5 | 143.0 | 126.5 | 110.0 | 93.5 | 77.0 | 60.5 | 49.5 |
| 77.5° | 269.4 | 247.4 | 230.9 | 208.9 | 186.9 | 165.0 | 143.0 | 121.0 | 99.0 | 77.0 | 60.5 |
| 75° | 340.9 | 313.4 | 285.9 | 258.4 | 230.9 | 203.4 | 181.4 | 154.0 | 126.5 | 99.0 | 77.0 |
| 72.5° | 417.9 | 379.4 | 346.4 | 313.4 | 274.9 | 247.4 | 214.4 | 186.9 | 154.0 | 121.0 | 93.5 |
| 70° | 500.4 | 456.4 | 412.4 | 368.4 | 329.9 | 285.9 | 252.9 | 214.4 | 181.4 | 143.0 | 110.0 |
| 67.5° | 582.8 | 533.3 | 483.9 | 428.9 | 379.4 | 335.4 | 285.9 | 247.4 | 203.4 | 165.0 | 126.5 |
| 65° | 681.8 | 615.8 | 555.3 | 494.9 | 434.4 | 379.4 | 329.9 | 274.9 | 230.9 | 186.9 | 143.0 |
| 62.5° | 775.3 | 703.8 | 632.3 | 560.8 | 494.9 | 428.9 | 368.4 | 313.4 | 258.4 | 208.9 | 159.5 |
| 60° | 868.7 | 791.8 | 709.3 | 632.3 | 555.3 | 483.9 | 412.4 | 346.4 | 285.9 | 230.9 | 175.9 |
| 57.5° | 962.2 | 874.2 | 791.8 | 703.8 | 615.8 | 533.3 | 456.4 | 379.4 | 313.4 | 247.4 | 192.4 |
| 55° | 1044.7 | 962.2 | 868.7 | 775.3 | 681.8 | 582.8 | 500.4 | 417.9 | 340.9 | 269.4 | 208.9 |
| 52.5° | 1132.7 | 1039.2 | 945.7 | 841.3 | 747.8 | 637.8 | 544.3 | 450.9 | 368.4 | 291.4 | 225.4 |
| 50° | 1215.1 | 1116.2 | 1011.7 | 912.7 | 802.8 | 692.8 | 588.3 | 489.4 | 395.9 | 313.4 | 236.4 |
| 47.5° | 1292.1 | 1187.6 | 1083.2 | 973.2 | 863.2 | 747.8 | 632.3 | 522.3 | 423.4 | 335.4 | 252.9 |
| 45° | 1358.1 | 1264.6 | 1149.2 | 1033.7 | 923.7 | 797.3 | 676.3 | 555.3 | 450.9 | 357.4 | 263.9 |
| 42.5° | 1418.6 | 1325.1 | 1215.1 | 1099.7 | 973.2 | 846.8 | 720.3 | 593.8 | 478.4 | 373.9 | 280.4 |
| 40° | 1473.6 | 1380.1 | 1275.6 | 1149.2 | 1022.7 | 896.2 | 758.8 | 626.8 | 505.9 | 395.9 | 291.4 |
| 37.5° | 1528.5 | 1429.6 | 1325.1 | 1204.1 | 1072.2 | 940.2 | 802.8 | 665.3 | 533.3 | 412.4 | 307.9 |
| 35° | 1572.5 | 1479.1 | 1369.1 | 1253.6 | 1116.2 | 984.2 | 841.3 | 698.3 | 555.3 | 428.9 | 324.4 |
| 32.5° | 1611.0 | 1523.1 | 1418.6 | 1297.6 | 1160.2 | 1017.2 | 874.2 | 725.8 | 577.3 | 450.9 | 335.4 |
| 30° | 1649.5 | 1561.5 | 1451.6 | 1336.1 | 1204.1 | 1055.7 | 907.2 | 753.3 | 604.8 | 467.4 | 346.4 |
| 27.5° | 1688.0 | 1594.5 | 1490.1 | 1369.1 | 1242.6 | 1088.7 | 940.2 | 780.8 | 626.8 | 483.9 | 357.4 |
| 25° | 1721.0 | 1622.0 | 1523.1 | 1402.1 | 1275.6 | 1121.7 | 967.7 | 808.3 | 648.8 | 500.4 | 368.4 |
| 22.5° | 1748.5 | 1649.5 | 1550.5 | 1429.6 | 1303.1 | 1149.2 | 989.7 | 830.3 | 665.3 | 511.3 | 379.4 |
| 20° | 1776.0 | 1677.0 | 1572.5 | 1457.1 | 1325.1 | 1176.7 | 1011.7 | 852.2 | 681.8 | 522.3 | 384.9 |
| 17.5° | 1803.5 | 1699.0 | 1594.5 | 1479.1 | 1347.1 | 1198.6 | 1033.7 | 868.7 | 698.3 | 533.3 | 395.9 |
| 15° | 1825.5 | 1715.5 | 1611.0 | 1495.6 | 1369.1 | 1220.6 | 1050.2 | 885.2 | 709.3 | 544.3 | 401.4 |
| 12.5° | 1842.0 | 1732.0 | 1627.5 | 1512.1 | 1380.1 | 1237.1 | 1066.7 | 896.2 | 720.3 | 555.3 | 406.9 |
| 10° | 1858.5 | 1748.5 | 1638.5 | 1528.5 | 1396.6 | 1248.1 | 1077.7 | 907.2 | 731.3 | 560.8 | 412.4 |
| 7.5° | 1869.4 | 1759.5 | 1649.5 | 1539.5 | 1407.6 | 1259.1 | 1088.7 | 918.2 | 736.8 | 566.3 | 417.9 |
| 5° | 1880.4 | 1765.0 | 1655.0 | 1545.0 | 1413.1 | 1275.6 | 1099.7 | 929.2 | 747.8 | 571.8 | 417.9 |
| 2.5° | 1885.9 | 1770.5 | 1660.5 | 1550.5 | 1418.6 | 1275.6 | 1099.7 | 929.2 | 747.8 | 571.8 | 417.9 |
| 0° | 1885.9 | 1770.5 | 1660.5 | 1550.5 | 1418.6 | 1275.6 | 1099.7 | 929.2 | 747.8 | 571.8 | 417.9 |



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