

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: P624179

Luminaire Tested: **EPH-VN-08-E-950-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624179
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-950-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (128) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

| | | | |
|-------------------|------------------------------------|----------------------|-----------------|
| Lumens per Lamp: | N/A | NEMA Type: | 5H x 5V |
| Luminaire Lumens: | 51584.6 lumens | Max Intensity: | 63038.5 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 10°V |
| Efficacy: | 82.3 lumens/watt | | |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') | | |

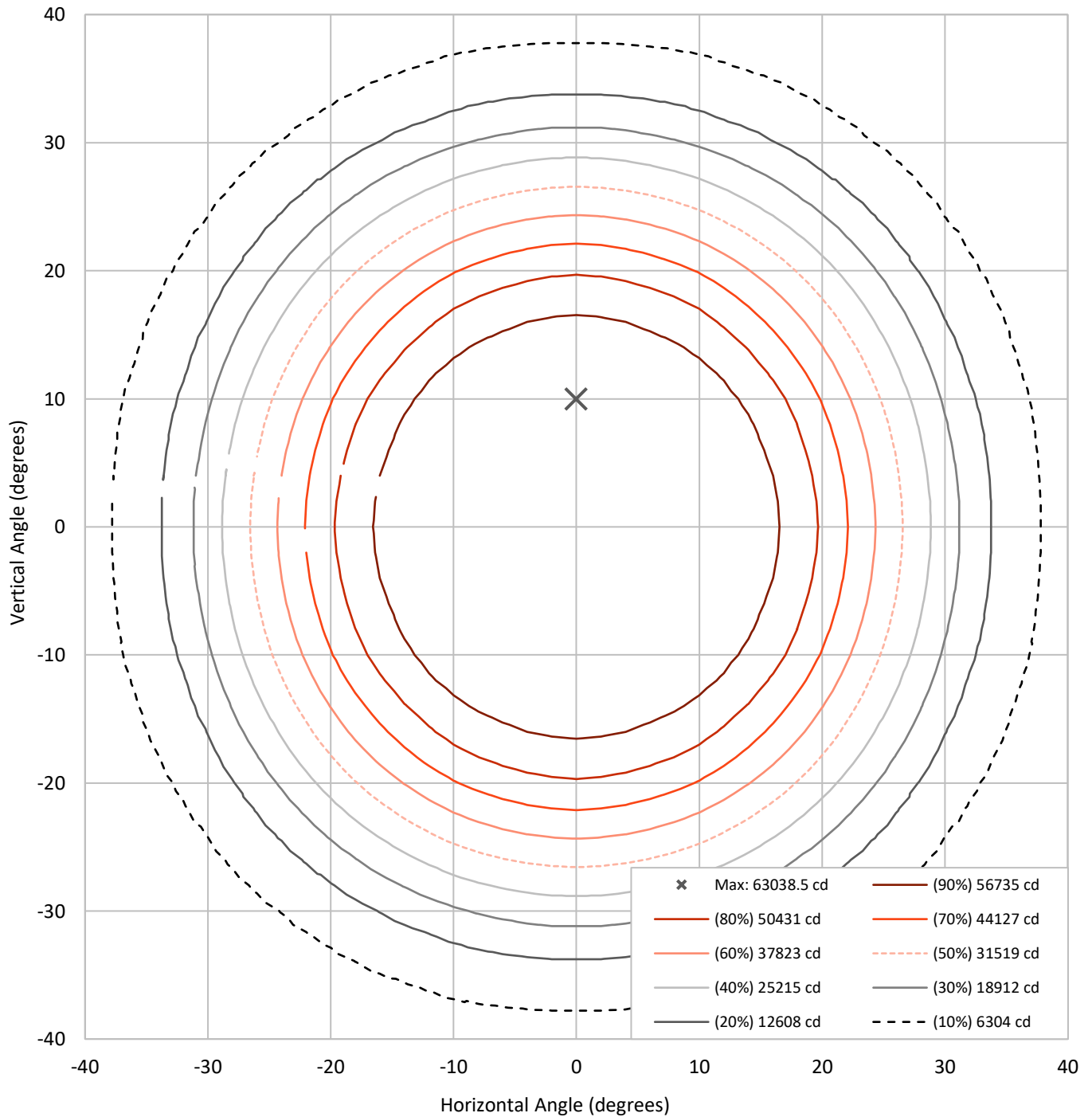
| | | | |
|-------------------|-----------------|--------------------|-----------------|
| Beam Angle (50%): | 49.5°H x 53.1°V | Field Angle (10%): | 73.6°H x 75.3°V |
| Beam Lumens: | 25638.8 lumens | Field Lumens: | 33344.1 lumens |
| Beam Efficiency: | 49.7% | Field Efficiency: | 64.6% |

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





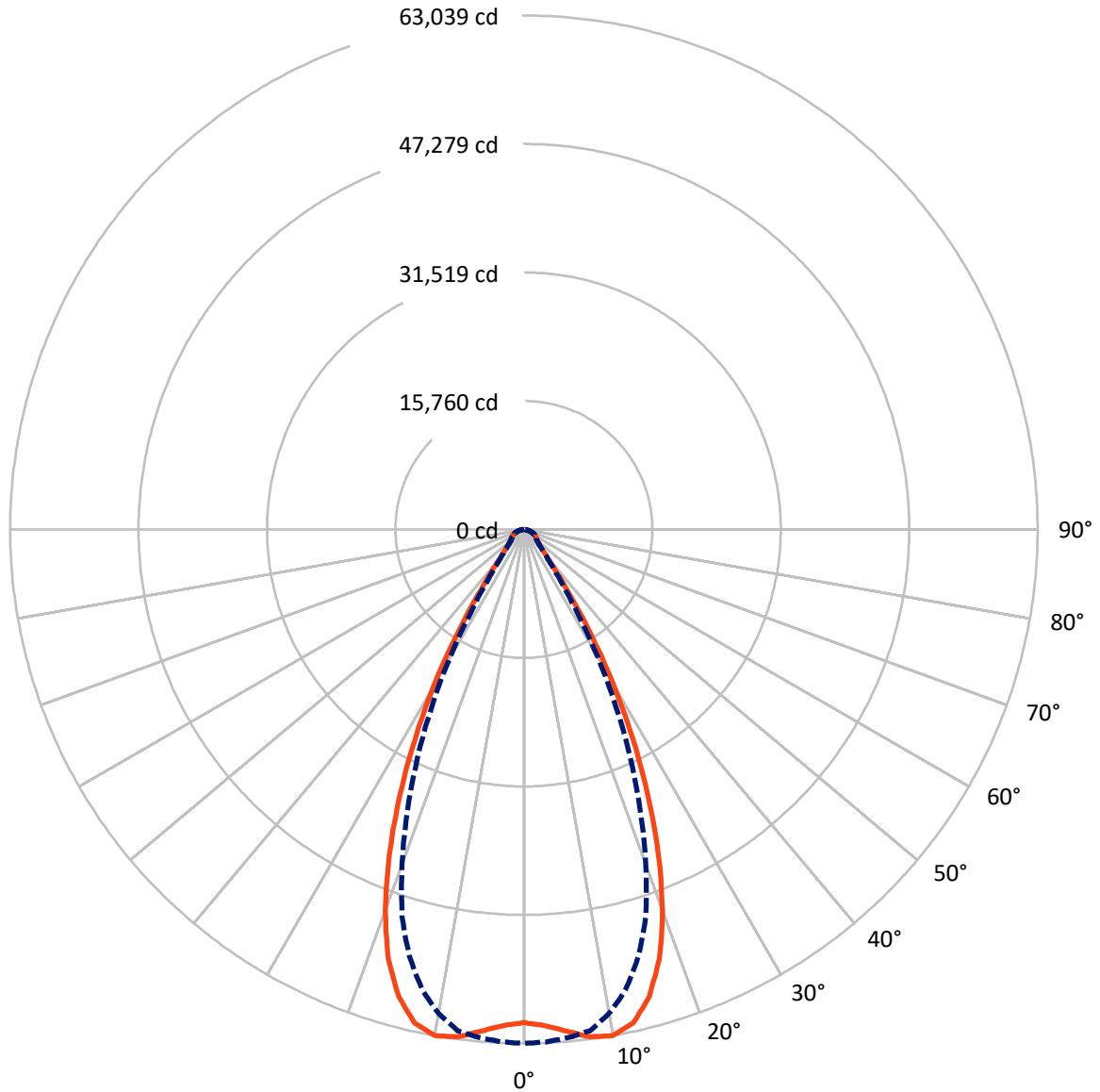
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Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|------|------|------|------|-------|-------|--------|--------|--------|--------|-------|-------|------|------|------|------|--|--|--|
| 90 | 1.5 | 11.3 | 29.5 | 47.6 | 55.1 | 47.6 | 29.5 | 11.3 | 1.5 | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | |
| 70 | 5.2 | 5.6 | 11.7 | 19.3 | 27.0 | 33.8 | 38.7 | 41.3 | 41.3 | 38.7 | 33.8 | 27.0 | 19.3 | 11.7 | 5.6 | 5.2 | | | |
| 60 | | 8.7 | 17.8 | 28.3 | 38.0 | 46.2 | 52.4 | 55.9 | 55.9 | 52.4 | 46.2 | 38.0 | 28.3 | 17.8 | 8.7 | | | | |
| 50 | 9.1 | 11.6 | 23.0 | 34.8 | 46.7 | 60.4 | 76.5 | 88.9 | 88.9 | 76.5 | 60.4 | 46.7 | 34.8 | 23.0 | 11.6 | 9.1 | | | |
| 40 | | 14.1 | 26.7 | 40.4 | 61.2 | 109.0 | 213.0 | 321.2 | 321.2 | 213.0 | 109.0 | 61.2 | 40.4 | 26.7 | 14.1 | | | | |
| 30 | 12.2 | 16.0 | 29.3 | 47.3 | 98.9 | 315.2 | 730.3 | 1036.5 | 1036.5 | 730.3 | 315.2 | 98.9 | 47.3 | 29.3 | 16.0 | 12.2 | | | |
| 20 | | 17.1 | 31.3 | 56.4 | 182.6 | 687.9 | 1345.9 | 1715.8 | 1715.8 | 1345.9 | 687.9 | 182.6 | 56.4 | 31.3 | 17.1 | | | | |
| 10 | 13.3 | 17.7 | 32.4 | 63.7 | 267.9 | 947.6 | 1665.1 | 1888.2 | 1888.2 | 1665.1 | 947.6 | 267.9 | 63.7 | 32.4 | 17.7 | 13.3 | | | |
| 0 | | 17.7 | 32.4 | 63.7 | 267.9 | 947.6 | 1665.1 | 1888.2 | 1888.2 | 1665.1 | 947.6 | 267.9 | 63.7 | 32.4 | 17.7 | | | | |
| -10 | 12.2 | 17.1 | 31.3 | 56.4 | 182.6 | 687.9 | 1345.9 | 1715.8 | 1715.8 | 1345.9 | 687.9 | 182.6 | 56.4 | 31.3 | 17.1 | 12.2 | | | |
| -20 | | 16.0 | 29.3 | 47.3 | 98.9 | 315.2 | 730.3 | 1036.5 | 1036.5 | 730.3 | 315.2 | 98.9 | 47.3 | 29.3 | 16.0 | | | | |
| -30 | 9.1 | 14.1 | 26.7 | 40.4 | 61.2 | 109.0 | 213.0 | 321.2 | 321.2 | 213.0 | 109.0 | 61.2 | 40.4 | 26.7 | 14.1 | 9.1 | | | |
| -40 | | 11.6 | 23.0 | 34.8 | 46.7 | 60.4 | 76.5 | 88.9 | 88.9 | 76.5 | 60.4 | 46.7 | 34.8 | 23.0 | 11.6 | | | | |
| -50 | 5.2 | 8.7 | 17.8 | 28.3 | 38.0 | 46.2 | 52.4 | 55.9 | 55.9 | 52.4 | 46.2 | 38.0 | 28.3 | 17.8 | 8.7 | 5.2 | | | |
| -60 | | 5.6 | 11.7 | 19.3 | 27.0 | 33.8 | 38.7 | 41.3 | 41.3 | 38.7 | 33.8 | 27.0 | 19.3 | 11.7 | 5.6 | | | | |
| -70 | 1.5 | | | | | | | | | | | | | | 1.5 | | | | |
| -80 | | | | | | | | | | | | | | | | | | | |
| -90 | | | | | | | | | | | | | | | | | | | |

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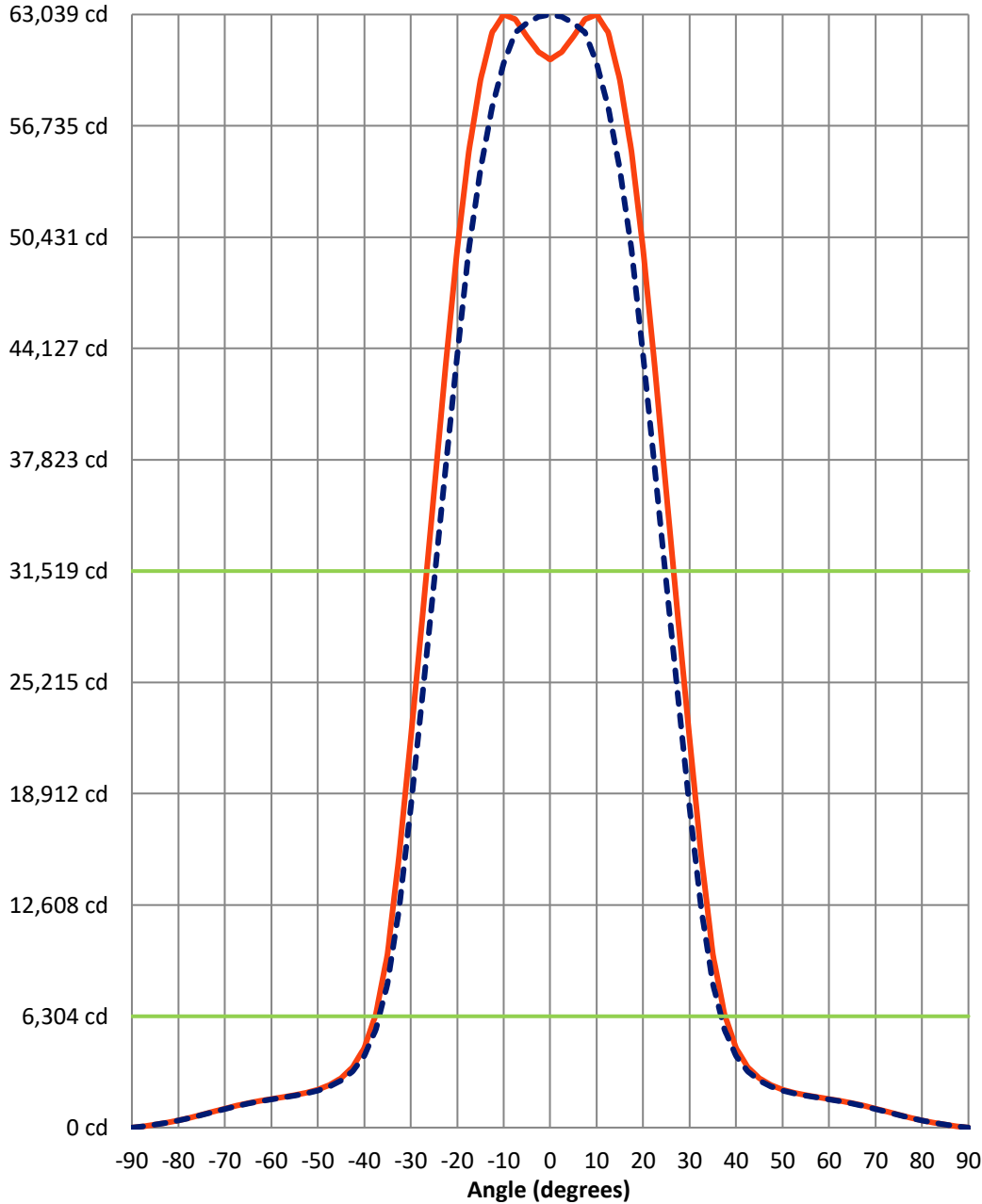
Luminous Intensity Polar Plot



— 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: 25638.8
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 33344.1
 Efficiency: 64.6%

Spill:
 Lumens: 18240.5
 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° | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 64.3 | 64.3 | 64.3 | 64.3 |
| 85° | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 | 166.1 | 166.1 | 160.8 | 160.8 | 155.4 | 150.0 |
| 82.5° | 278.6 | 278.6 | 278.6 | 278.6 | 273.3 | 273.3 | 267.9 | 262.6 | 257.2 | 251.9 | 246.5 |
| 80° | 407.3 | 407.3 | 407.3 | 407.3 | 401.9 | 396.5 | 391.2 | 385.8 | 375.1 | 369.7 | 359.0 |
| 77.5° | 557.3 | 557.3 | 557.3 | 551.9 | 546.6 | 541.2 | 530.5 | 519.8 | 509.1 | 498.3 | 487.6 |
| 75° | 728.8 | 728.8 | 728.8 | 718.1 | 712.7 | 702.0 | 691.3 | 680.5 | 664.5 | 648.4 | 632.3 |
| 72.5° | 905.6 | 905.6 | 905.6 | 894.9 | 884.2 | 873.5 | 862.7 | 846.7 | 830.6 | 809.1 | 787.7 |
| 70° | 1071.7 | 1071.7 | 1071.7 | 1061.0 | 1050.3 | 1039.6 | 1023.5 | 1007.4 | 986.0 | 964.5 | 943.1 |
| 67.5° | 1243.2 | 1243.2 | 1243.2 | 1227.1 | 1216.4 | 1205.7 | 1189.6 | 1168.2 | 1146.7 | 1119.9 | 1093.2 |
| 65° | 1382.5 | 1382.5 | 1377.2 | 1371.8 | 1361.1 | 1345.0 | 1334.3 | 1312.9 | 1291.4 | 1270.0 | 1243.2 |
| 62.5° | 1511.1 | 1511.1 | 1505.8 | 1500.4 | 1489.7 | 1473.6 | 1457.5 | 1441.5 | 1420.0 | 1393.2 | 1366.4 |
| 60° | 1618.3 | 1618.3 | 1612.9 | 1607.6 | 1596.9 | 1586.1 | 1570.1 | 1554.0 | 1532.6 | 1511.1 | 1484.3 |
| 57.5° | 1725.5 | 1725.5 | 1720.1 | 1714.8 | 1704.0 | 1688.0 | 1671.9 | 1655.8 | 1634.4 | 1607.6 | 1580.8 |
| 55° | 1838.0 | 1838.0 | 1832.6 | 1821.9 | 1811.2 | 1795.1 | 1779.1 | 1757.6 | 1730.8 | 1704.0 | 1677.2 |
| 52.5° | 1972.0 | 1972.0 | 1961.2 | 1950.5 | 1934.5 | 1918.4 | 1891.6 | 1864.8 | 1832.6 | 1800.5 | 1768.3 |
| 50° | 2148.8 | 2148.8 | 2138.1 | 2122.0 | 2095.2 | 2068.4 | 2036.3 | 1993.4 | 1955.9 | 1913.0 | 1870.1 |
| 47.5° | 2411.4 | 2411.4 | 2389.9 | 2363.1 | 2325.6 | 2282.8 | 2223.8 | 2159.5 | 2105.9 | 2052.3 | 1988.0 |
| 45° | 2797.2 | 2797.2 | 2765.0 | 2722.2 | 2663.2 | 2588.2 | 2502.5 | 2411.4 | 2320.3 | 2229.2 | 2138.1 |
| 42.5° | 3424.1 | 3424.1 | 3365.2 | 3290.2 | 3188.4 | 3059.8 | 2899.0 | 2749.0 | 2620.4 | 2475.7 | 2352.4 |
| 40° | 4506.6 | 4506.6 | 4394.0 | 4254.7 | 4061.8 | 3815.3 | 3520.6 | 3284.8 | 3059.8 | 2807.9 | 2636.4 |
| 37.5° | 6430.3 | 6430.3 | 6210.6 | 5942.7 | 5567.6 | 5096.0 | 4528.0 | 4147.6 | 3729.6 | 3333.0 | 3043.7 |
| 35° | 9827.7 | 9827.7 | 9404.3 | 8884.6 | 8161.1 | 7250.2 | 6280.3 | 5562.2 | 4763.8 | 4152.9 | 3611.7 |
| 32.5° | 15400.6 | 15400.6 | 14639.7 | 13701.9 | 12410.5 | 10776.1 | 9222.1 | 7855.7 | 6430.3 | 5417.5 | 4442.3 |
| 30° | 22023.8 | 22023.8 | 21027.1 | 19800.0 | 18117.4 | 15995.4 | 13782.3 | 11354.9 | 9104.3 | 7298.4 | 5824.8 |
| 27.5° | 28872.1 | 28588.1 | 27730.7 | 26332.1 | 24413.8 | 22023.8 | 19264.2 | 16129.4 | 13085.7 | 9902.7 | 7796.8 |
| 25° | 35956.2 | 35623.9 | 34643.3 | 33035.7 | 30838.7 | 28132.6 | 25024.6 | 21520.1 | 17763.7 | 13969.9 | 10326.0 |
| 22.5° | 43115.3 | 42740.2 | 41625.6 | 39809.0 | 37344.1 | 34311.1 | 30790.5 | 26894.8 | 22699.0 | 18315.7 | 13969.9 |
| 20° | 49733.1 | 49336.6 | 48168.4 | 46276.8 | 43726.1 | 40398.5 | 36486.7 | 32167.6 | 27527.1 | 22699.0 | 17763.7 |
| 17.5° | 55273.9 | 54893.5 | 53768.1 | 51962.3 | 49733.1 | 46051.8 | 41984.6 | 37236.9 | 32167.6 | 26894.8 | 21520.1 |
| 15° | 59319.7 | 58992.8 | 58033.6 | 56517.1 | 54245.1 | 50987.0 | 46844.8 | 41984.6 | 36486.7 | 30790.5 | 25024.6 |
| 12.5° | 62004.3 | 61741.7 | 60986.2 | 59807.3 | 57771.0 | 55038.1 | 50987.0 | 46051.8 | 40398.5 | 34311.1 | 28132.6 |
| 10° | 63038.5 | 62909.9 | 62556.2 | 62015.0 | 60278.8 | 57771.0 | 54245.1 | 49733.1 | 43726.1 | 37344.1 | 30838.7 |
| 7.5° | 62765.2 | 62808.1 | 62931.3 | 62792.0 | 62015.0 | 59807.3 | 56517.1 | 51962.3 | 46276.8 | 39809.0 | 33035.7 |
| 5° | 61790.0 | 62020.4 | 62593.8 | 62931.3 | 62556.2 | 60986.2 | 58033.6 | 53768.1 | 48168.4 | 41625.6 | 34643.3 |
| 2.5° | 60921.9 | 61280.9 | 62020.4 | 62808.1 | 62909.9 | 61741.7 | 58992.8 | 54893.5 | 49336.6 | 42740.2 | 35623.9 |
| 0° | 60493.2 | 60921.9 | 61790.0 | 62765.2 | 63038.5 | 62004.3 | 59319.7 | 55273.9 | 49733.1 | 43115.3 | 35956.2 |



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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° | 64.3 | 58.9 | 58.9 | 58.9 | 53.6 | 53.6 | 53.6 | 48.2 | 48.2 | 42.9 | 42.9 |
| 85° | 150.0 | 144.7 | 139.3 | 134.0 | 128.6 | 123.2 | 117.9 | 112.5 | 107.2 | 96.5 | 91.1 |
| 82.5° | 241.1 | 235.8 | 230.4 | 219.7 | 214.3 | 203.6 | 192.9 | 182.2 | 171.5 | 166.1 | 155.4 |
| 80° | 348.3 | 337.6 | 326.9 | 316.2 | 300.1 | 284.0 | 273.3 | 257.2 | 246.5 | 230.4 | 219.7 |
| 77.5° | 471.6 | 455.5 | 439.4 | 418.0 | 401.9 | 385.8 | 364.4 | 348.3 | 326.9 | 305.4 | 284.0 |
| 75° | 610.9 | 589.4 | 562.7 | 541.2 | 519.8 | 493.0 | 466.2 | 439.4 | 412.6 | 385.8 | 359.0 |
| 72.5° | 760.9 | 734.1 | 707.3 | 680.5 | 648.4 | 610.9 | 578.7 | 541.2 | 509.1 | 476.9 | 439.4 |
| 70° | 916.3 | 884.2 | 852.0 | 819.9 | 782.4 | 739.5 | 702.0 | 659.1 | 616.2 | 573.4 | 530.5 |
| 67.5° | 1061.0 | 1028.9 | 991.3 | 959.2 | 916.3 | 873.5 | 825.2 | 777.0 | 728.8 | 675.2 | 621.6 |
| 65° | 1211.0 | 1173.5 | 1130.7 | 1087.8 | 1044.9 | 996.7 | 948.5 | 900.2 | 841.3 | 782.4 | 728.8 |
| 62.5° | 1334.3 | 1302.1 | 1264.6 | 1221.8 | 1173.5 | 1119.9 | 1071.7 | 1007.4 | 948.5 | 889.5 | 819.9 |
| 60° | 1452.2 | 1414.7 | 1382.5 | 1334.3 | 1291.4 | 1243.2 | 1184.2 | 1119.9 | 1055.6 | 986.0 | 921.7 |
| 57.5° | 1554.0 | 1521.8 | 1484.3 | 1441.5 | 1393.2 | 1345.0 | 1291.4 | 1232.5 | 1157.5 | 1087.8 | 1012.8 |
| 55° | 1645.1 | 1607.6 | 1570.1 | 1532.6 | 1489.7 | 1436.1 | 1382.5 | 1323.6 | 1259.3 | 1184.2 | 1103.9 |
| 52.5° | 1736.2 | 1698.7 | 1655.8 | 1618.3 | 1570.1 | 1521.8 | 1468.3 | 1409.3 | 1345.0 | 1275.3 | 1189.6 |
| 50° | 1827.3 | 1784.4 | 1741.5 | 1693.3 | 1645.1 | 1596.9 | 1543.3 | 1489.7 | 1420.0 | 1350.4 | 1275.3 |
| 47.5° | 1934.5 | 1880.9 | 1827.3 | 1773.7 | 1725.5 | 1666.5 | 1612.9 | 1554.0 | 1495.0 | 1420.0 | 1345.0 |
| 45° | 2068.4 | 1988.0 | 1923.7 | 1859.4 | 1800.5 | 1741.5 | 1677.2 | 1618.3 | 1554.0 | 1489.7 | 1409.3 |
| 42.5° | 2234.5 | 2127.4 | 2041.6 | 1955.9 | 1880.9 | 1811.2 | 1746.9 | 1677.2 | 1612.9 | 1543.3 | 1468.3 |
| 40° | 2459.6 | 2314.9 | 2175.6 | 2068.4 | 1972.0 | 1886.2 | 1811.2 | 1741.5 | 1666.5 | 1596.9 | 1521.8 |
| 37.5° | 2754.3 | 2550.7 | 2357.8 | 2202.4 | 2079.1 | 1972.0 | 1880.9 | 1800.5 | 1725.5 | 1645.1 | 1570.1 |
| 35° | 3199.1 | 2845.4 | 2598.9 | 2373.9 | 2202.4 | 2068.4 | 1955.9 | 1859.4 | 1773.7 | 1693.3 | 1618.3 |
| 32.5° | 3826.0 | 3279.5 | 2882.9 | 2598.9 | 2357.8 | 2175.6 | 2041.6 | 1923.7 | 1827.3 | 1741.5 | 1655.8 |
| 30° | 4651.3 | 3895.7 | 3279.5 | 2845.4 | 2550.7 | 2314.9 | 2127.4 | 1988.0 | 1880.9 | 1784.4 | 1698.7 |
| 27.5° | 5958.8 | 4651.3 | 3826.0 | 3199.1 | 2754.3 | 2459.6 | 2234.5 | 2068.4 | 1934.5 | 1827.3 | 1736.2 |
| 25° | 7796.8 | 5824.8 | 4442.3 | 3611.7 | 3043.7 | 2636.4 | 2352.4 | 2138.1 | 1988.0 | 1870.1 | 1768.3 |
| 22.5° | 9902.7 | 7298.4 | 5417.5 | 4152.9 | 3333.0 | 2807.9 | 2475.7 | 2229.2 | 2052.3 | 1913.0 | 1800.5 |
| 20° | 13085.7 | 9104.3 | 6430.3 | 4763.8 | 3729.6 | 3059.8 | 2620.4 | 2320.3 | 2105.9 | 1955.9 | 1832.6 |
| 17.5° | 16129.4 | 11354.9 | 7855.7 | 5562.2 | 4147.6 | 3284.8 | 2749.0 | 2411.4 | 2159.5 | 1993.4 | 1864.8 |
| 15° | 19264.2 | 13782.3 | 9222.1 | 6280.3 | 4528.0 | 3520.6 | 2899.0 | 2502.5 | 2223.8 | 2036.3 | 1891.6 |
| 12.5° | 22023.8 | 15995.4 | 10776.1 | 7250.2 | 5096.0 | 3815.3 | 3059.8 | 2588.2 | 2282.8 | 2068.4 | 1918.4 |
| 10° | 24413.8 | 18117.4 | 12410.5 | 8161.1 | 5567.6 | 4061.8 | 3188.4 | 2663.2 | 2325.6 | 2095.2 | 1934.5 |
| 7.5° | 26332.1 | 19800.0 | 13701.9 | 8884.6 | 5942.7 | 4254.7 | 3290.2 | 2722.2 | 2363.1 | 2122.0 | 1950.5 |
| 5° | 27730.7 | 21027.1 | 14639.7 | 9404.3 | 6210.6 | 4394.0 | 3365.2 | 2765.0 | 2389.9 | 2138.1 | 1961.2 |
| 2.5° | 28588.1 | 22023.8 | 15400.6 | 9827.7 | 6430.3 | 4506.6 | 3424.1 | 2797.2 | 2411.4 | 2148.8 | 1972.0 |
| 0° | 28872.1 | 22023.8 | 15400.6 | 9827.7 | 6430.3 | 4506.6 | 3424.1 | 2797.2 | 2411.4 | 2148.8 | 1972.0 |



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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° | 37.5 | 37.5 | 32.2 | 32.2 | 26.8 | 26.8 | 21.4 | 21.4 | 16.1 | 16.1 | 10.7 |
| 85° | 85.7 | 75.0 | 69.7 | 64.3 | 58.9 | 53.6 | 48.2 | 42.9 | 37.5 | 32.2 | 26.8 |
| 82.5° | 144.7 | 134.0 | 117.9 | 107.2 | 96.5 | 85.7 | 69.7 | 64.3 | 53.6 | 42.9 | 37.5 |
| 80° | 203.6 | 187.6 | 171.5 | 155.4 | 139.3 | 123.2 | 107.2 | 91.1 | 75.0 | 58.9 | 48.2 |
| 77.5° | 262.6 | 241.1 | 225.1 | 203.6 | 182.2 | 160.8 | 139.3 | 117.9 | 96.5 | 75.0 | 58.9 |
| 75° | 332.2 | 305.4 | 278.6 | 251.9 | 225.1 | 198.3 | 176.8 | 150.0 | 123.2 | 96.5 | 75.0 |
| 72.5° | 407.3 | 369.7 | 337.6 | 305.4 | 267.9 | 241.1 | 209.0 | 182.2 | 150.0 | 117.9 | 91.1 |
| 70° | 487.6 | 444.8 | 401.9 | 359.0 | 321.5 | 278.6 | 246.5 | 209.0 | 176.8 | 139.3 | 107.2 |
| 67.5° | 568.0 | 519.8 | 471.6 | 418.0 | 369.7 | 326.9 | 278.6 | 241.1 | 198.3 | 160.8 | 123.2 |
| 65° | 664.5 | 600.2 | 541.2 | 482.3 | 423.3 | 369.7 | 321.5 | 267.9 | 225.1 | 182.2 | 139.3 |
| 62.5° | 755.6 | 685.9 | 616.2 | 546.6 | 482.3 | 418.0 | 359.0 | 305.4 | 251.9 | 203.6 | 155.4 |
| 60° | 846.7 | 771.6 | 691.3 | 616.2 | 541.2 | 471.6 | 401.9 | 337.6 | 278.6 | 225.1 | 171.5 |
| 57.5° | 937.8 | 852.0 | 771.6 | 685.9 | 600.2 | 519.8 | 444.8 | 369.7 | 305.4 | 241.1 | 187.6 |
| 55° | 1018.1 | 937.8 | 846.7 | 755.6 | 664.5 | 568.0 | 487.6 | 407.3 | 332.2 | 262.6 | 203.6 |
| 52.5° | 1103.9 | 1012.8 | 921.7 | 819.9 | 728.8 | 621.6 | 530.5 | 439.4 | 359.0 | 284.0 | 219.7 |
| 50° | 1184.2 | 1087.8 | 986.0 | 889.5 | 782.4 | 675.2 | 573.4 | 476.9 | 385.8 | 305.4 | 230.4 |
| 47.5° | 1259.3 | 1157.5 | 1055.6 | 948.5 | 841.3 | 728.8 | 616.2 | 509.1 | 412.6 | 326.9 | 246.5 |
| 45° | 1323.6 | 1232.5 | 1119.9 | 1007.4 | 900.2 | 777.0 | 659.1 | 541.2 | 439.4 | 348.3 | 257.2 |
| 42.5° | 1382.5 | 1291.4 | 1184.2 | 1071.7 | 948.5 | 825.2 | 702.0 | 578.7 | 466.2 | 364.4 | 273.3 |
| 40° | 1436.1 | 1345.0 | 1243.2 | 1119.9 | 996.7 | 873.5 | 739.5 | 610.9 | 493.0 | 385.8 | 284.0 |
| 37.5° | 1489.7 | 1393.2 | 1291.4 | 1173.5 | 1044.9 | 916.3 | 782.4 | 648.4 | 519.8 | 401.9 | 300.1 |
| 35° | 1532.6 | 1441.5 | 1334.3 | 1221.8 | 1087.8 | 959.2 | 819.9 | 680.5 | 541.2 | 418.0 | 316.2 |
| 32.5° | 1570.1 | 1484.3 | 1382.5 | 1264.6 | 1130.7 | 991.3 | 852.0 | 707.3 | 562.7 | 439.4 | 326.9 |
| 30° | 1607.6 | 1521.8 | 1414.7 | 1302.1 | 1173.5 | 1028.9 | 884.2 | 734.1 | 589.4 | 455.5 | 337.6 |
| 27.5° | 1645.1 | 1554.0 | 1452.2 | 1334.3 | 1211.0 | 1061.0 | 916.3 | 760.9 | 610.9 | 471.6 | 348.3 |
| 25° | 1677.2 | 1580.8 | 1484.3 | 1366.4 | 1243.2 | 1093.2 | 943.1 | 787.7 | 632.3 | 487.6 | 359.0 |
| 22.5° | 1704.0 | 1607.6 | 1511.1 | 1393.2 | 1270.0 | 1119.9 | 964.5 | 809.1 | 648.4 | 498.3 | 369.7 |
| 20° | 1730.8 | 1634.4 | 1532.6 | 1420.0 | 1291.4 | 1146.7 | 986.0 | 830.6 | 664.5 | 509.1 | 375.1 |
| 17.5° | 1757.6 | 1655.8 | 1554.0 | 1441.5 | 1312.9 | 1168.2 | 1007.4 | 846.7 | 680.5 | 519.8 | 385.8 |
| 15° | 1779.1 | 1671.9 | 1570.1 | 1457.5 | 1334.3 | 1189.6 | 1023.5 | 862.7 | 691.3 | 530.5 | 391.2 |
| 12.5° | 1795.1 | 1688.0 | 1586.1 | 1473.6 | 1345.0 | 1205.7 | 1039.6 | 873.5 | 702.0 | 541.2 | 396.5 |
| 10° | 1811.2 | 1704.0 | 1596.9 | 1489.7 | 1361.1 | 1216.4 | 1050.3 | 884.2 | 712.7 | 546.6 | 401.9 |
| 7.5° | 1821.9 | 1714.8 | 1607.6 | 1500.4 | 1371.8 | 1227.1 | 1061.0 | 894.9 | 718.1 | 551.9 | 407.3 |
| 5° | 1832.6 | 1720.1 | 1612.9 | 1505.8 | 1377.2 | 1243.2 | 1071.7 | 905.6 | 728.8 | 557.3 | 407.3 |
| 2.5° | 1838.0 | 1725.5 | 1618.3 | 1511.1 | 1382.5 | 1243.2 | 1071.7 | 905.6 | 728.8 | 557.3 | 407.3 |
| 0° | 1838.0 | 1725.5 | 1618.3 | 1511.1 | 1382.5 | 1243.2 | 1071.7 | 905.6 | 728.8 | 557.3 | 407.3 |



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| 90° | 0.0 | 0.0 | 0.0 | 0.0 |
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| 77.5° | 42.9 | 32.2 | 16.1 | 0.0 |
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| 47.5° | 171.5 | 107.2 | 48.2 | 0.0 |
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| 42.5° | 192.9 | 117.9 | 53.6 | 0.0 |
| 40° | 203.6 | 123.2 | 53.6 | 0.0 |
| 37.5° | 214.3 | 128.6 | 53.6 | 0.0 |
| 35° | 219.7 | 134.0 | 58.9 | 0.0 |
| 32.5° | 230.4 | 139.3 | 58.9 | 0.0 |
| 30° | 235.8 | 144.7 | 58.9 | 0.0 |
| 27.5° | 241.1 | 150.0 | 64.3 | 0.0 |
| 25° | 246.5 | 150.0 | 64.3 | 0.0 |
| 22.5° | 251.9 | 155.4 | 64.3 | 0.0 |
| 20° | 257.2 | 160.8 | 64.3 | 0.0 |
| 17.5° | 262.6 | 160.8 | 64.3 | 0.0 |
| 15° | 267.9 | 166.1 | 69.7 | 0.0 |
| 12.5° | 273.3 | 166.1 | 69.7 | 0.0 |
| 10° | 273.3 | 171.5 | 69.7 | 0.0 |
| 7.5° | 278.6 | 171.5 | 69.7 | 0.0 |
| 5° | 278.6 | 171.5 | 69.7 | 0.0 |
| 2.5° | 278.6 | 171.5 | 69.7 | 0.0 |
| 0° | 278.6 | 171.5 | 69.7 | 0.0 |

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