

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P575372

Luminaire Tested: **EPH-VN-06-735-U-SL2-HSS**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P575372
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

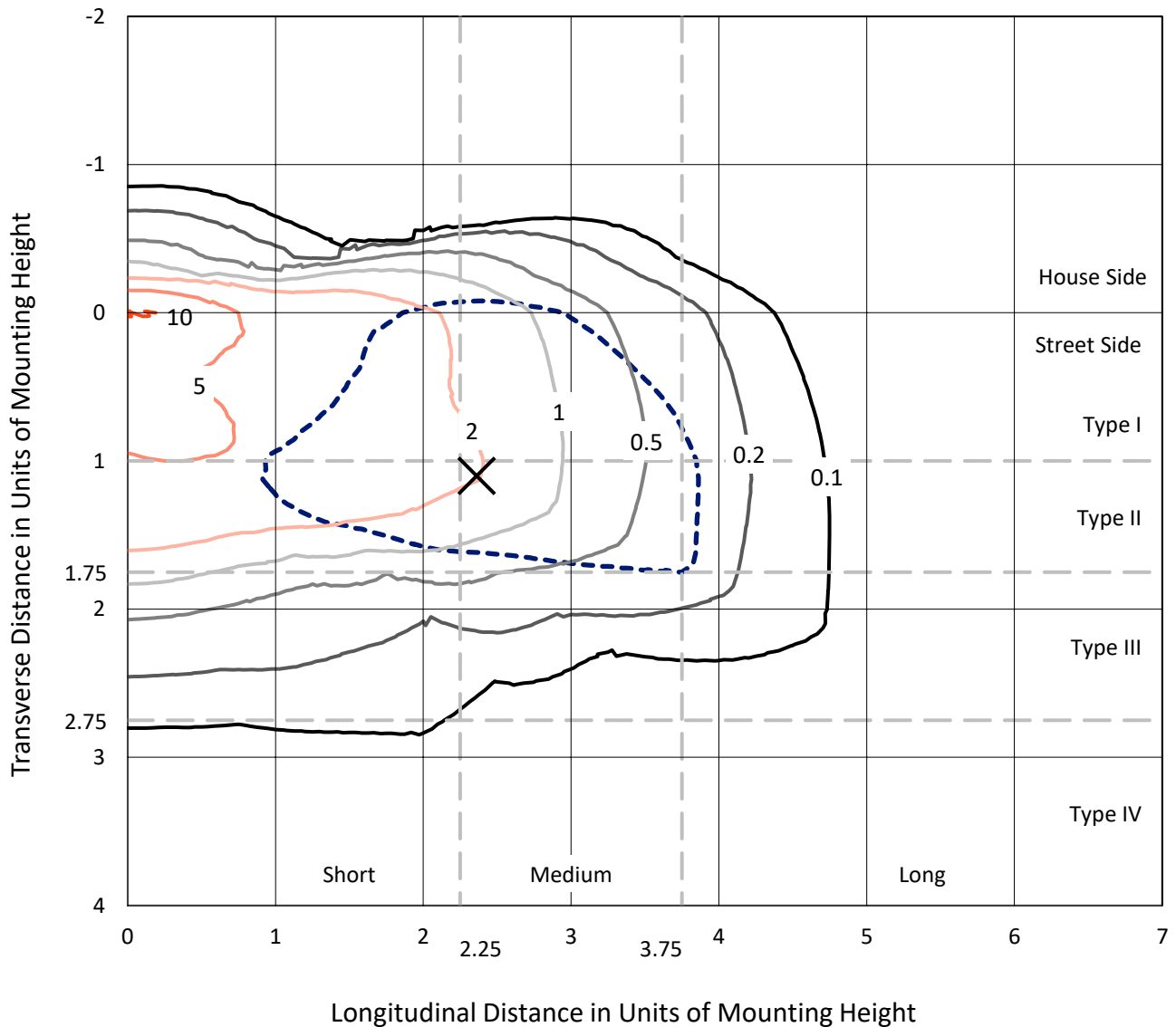
Lumens per Lamp: N/A
Luminaire Lumens: 37116.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

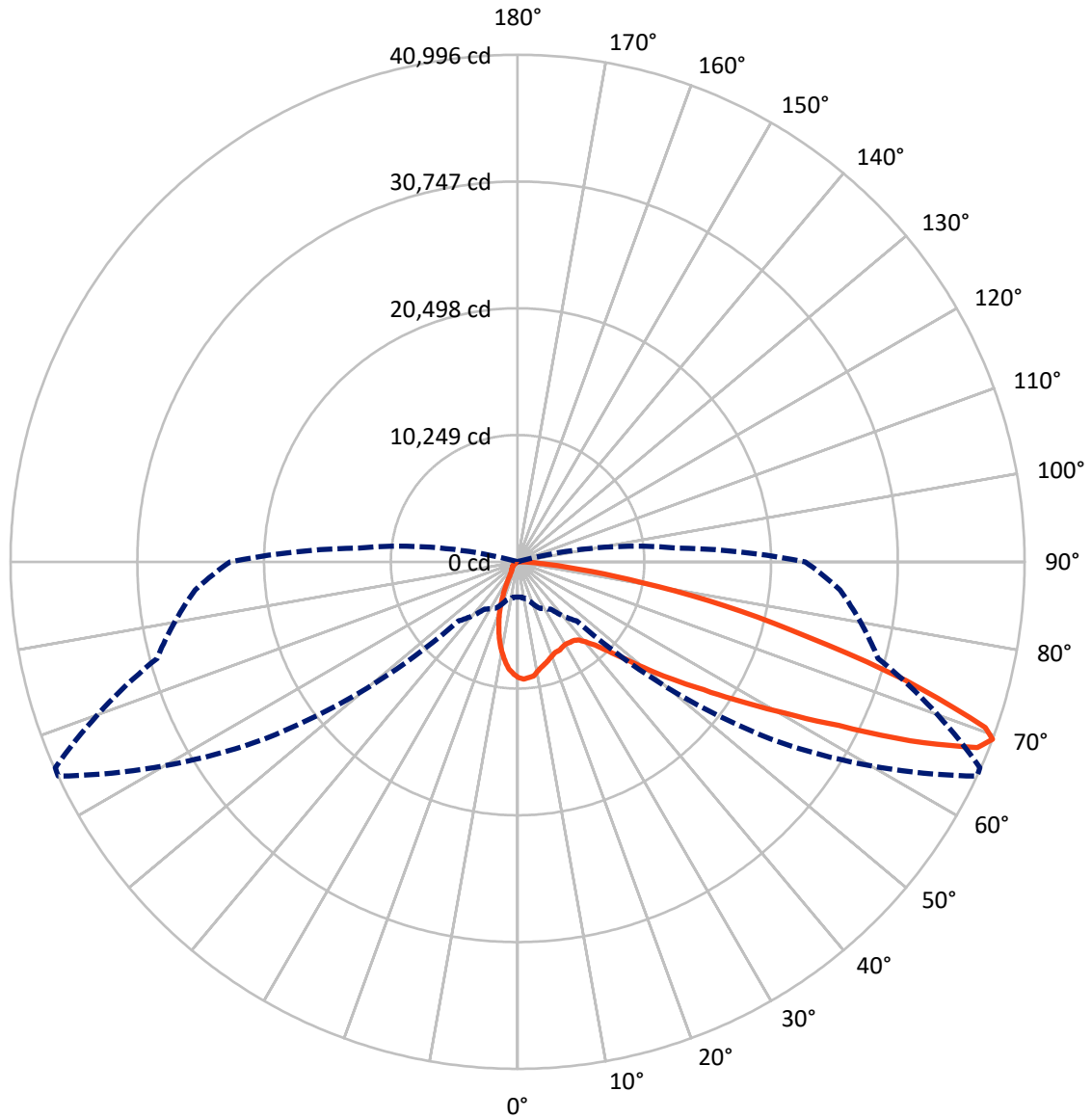
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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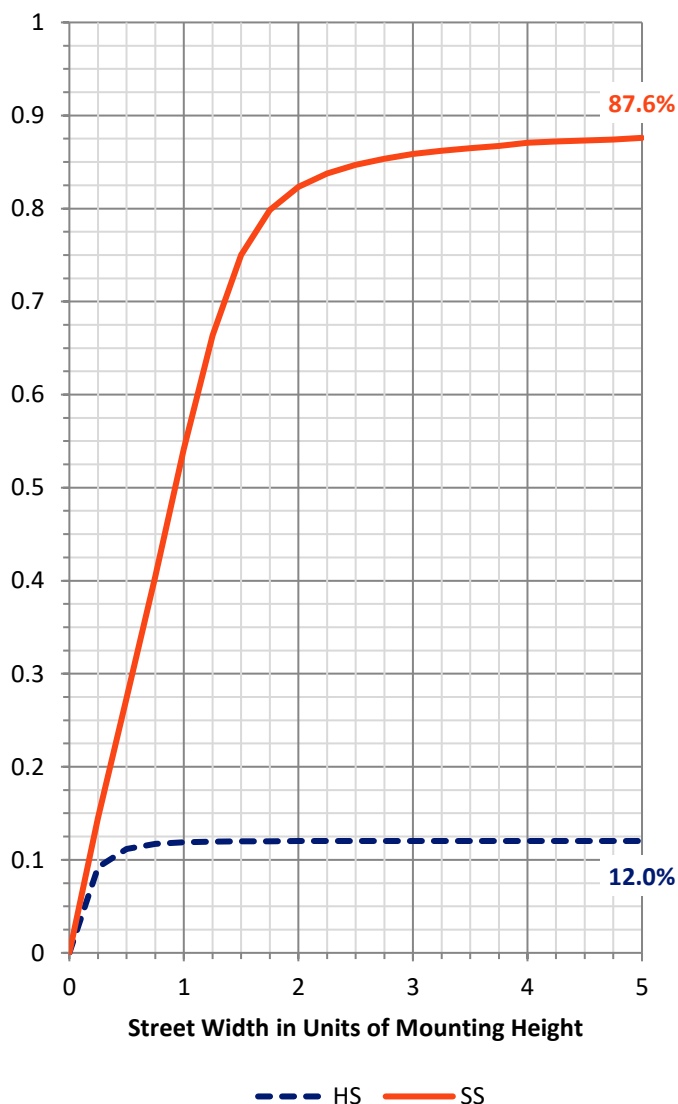
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4502.4 | 0.0 | 4502.4 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 32613.7 | 0.0 | 32613.7 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 37116.1 | 0.0 | 37116.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 765.8 | 2.1 |
| 10°-20° | 1675.5 | 4.5 |
| 20°-30° | 2332.7 | 6.3 |
| 30°-40° | 3305.6 | 8.9 |
| 40°-50° | 5209.6 | 14.0 |
| 50°-60° | 8453.3 | 22.8 |
| 60°-70° | 9440.6 | 25.4 |
| 70°-80° | 5316.1 | 14.3 |
| 80°-90° | 616.9 | 1.7 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 37116.1 | 100.0 |
| 0°-180° | 37116.1 | 100.0 |

Coefficient of Utilization

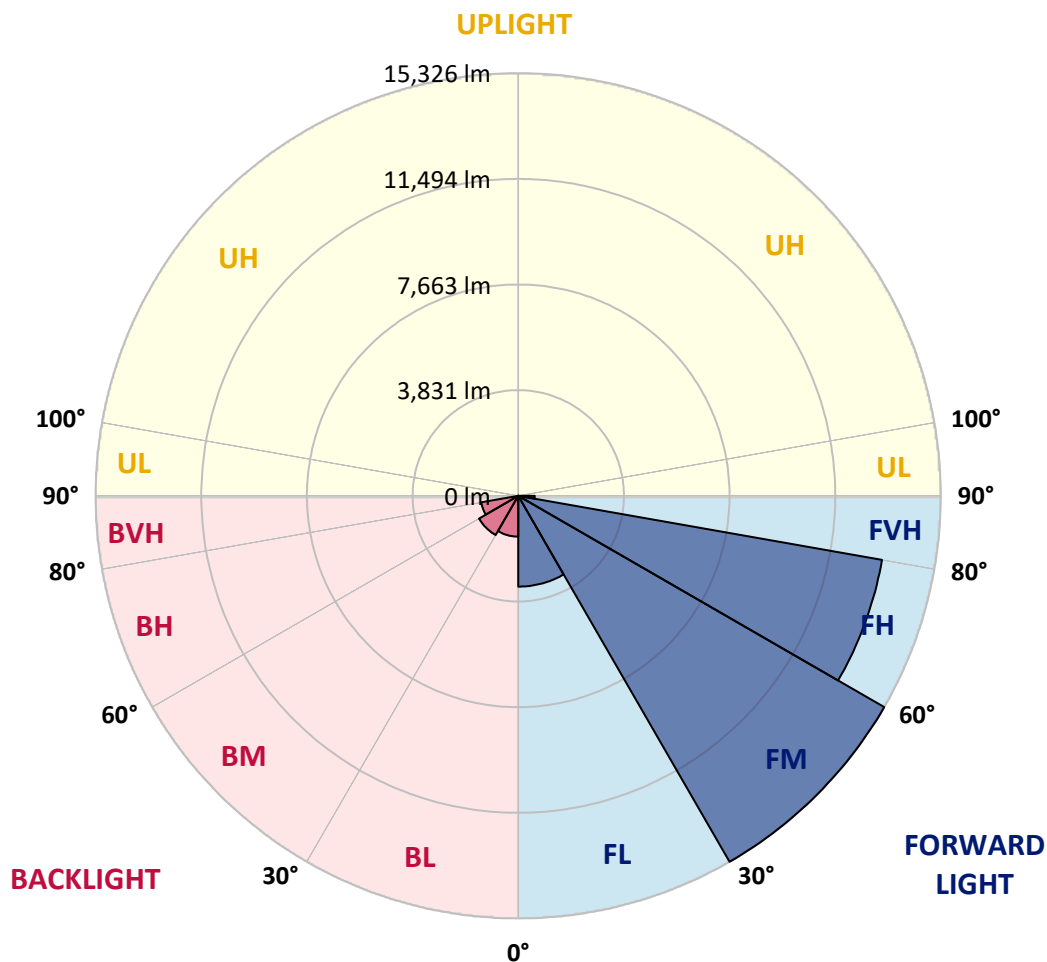


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3293.7 | 8.9 | | | |
| FM (30°-60°) | 15325.6 | 41.3 | | | |
| FH (60°-80°) | 13394.6 | 36.1 | | | G5 |
| FVH (80°-90°) | 599.9 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1480.3 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 1642.9 | 4.4 | B2/2500 | | |
| BH (60°-80°) | 1362.2 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 17.0 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 |
| 2.5° | 9012.4 | 9082.5 | 9102.5 | 9172.6 | 9207.6 | 9357.8 | 9443.0 | 9493.0 | 9468.0 | 9523.1 |
| 5° | 8371.5 | 8331.4 | 8436.6 | 8511.7 | 8671.9 | 8932.3 | 9197.6 | 9402.9 | 9498.0 | 9588.2 |
| 7.5° | 7685.5 | 7665.5 | 7770.7 | 7940.9 | 8086.1 | 8401.5 | 8827.1 | 9332.8 | 9312.8 | 9533.1 |
| 10° | 7214.9 | 7234.9 | 7270.0 | 7440.2 | 7655.5 | 7975.9 | 8506.7 | 8977.3 | 9082.5 | 9548.1 |
| 12.5° | 6784.3 | 6819.4 | 6884.4 | 7059.7 | 7310.0 | 7640.5 | 8156.2 | 8706.9 | 8867.2 | 9463.0 |
| 15° | 6644.1 | 6564.0 | 6694.2 | 6824.4 | 7084.7 | 7380.1 | 7815.7 | 8501.7 | 8571.8 | 9362.8 |
| 17.5° | 6529.0 | 6478.9 | 6539.0 | 6644.1 | 6919.5 | 7159.8 | 7570.4 | 8281.4 | 8411.5 | 9322.8 |
| 20° | 6564.0 | 6518.9 | 6544.0 | 6624.1 | 6749.3 | 6974.6 | 7355.1 | 8071.1 | 8211.3 | 9137.5 |
| 22.5° | 6664.1 | 6699.2 | 6654.1 | 6674.2 | 6714.2 | 6829.4 | 7239.9 | 7920.9 | 8041.0 | 9102.5 |
| 25° | 7114.8 | 7054.7 | 6994.6 | 6969.6 | 6734.2 | 6784.3 | 7204.9 | 7910.9 | 7996.0 | 8977.3 |
| 27.5° | 7585.4 | 7535.3 | 7510.3 | 7365.1 | 7044.7 | 6894.5 | 7209.9 | 7770.7 | 7885.8 | 8927.2 |
| 30° | 8156.2 | 8221.3 | 8121.1 | 7945.9 | 7500.3 | 7129.8 | 7265.0 | 7700.6 | 7860.8 | 8737.0 |
| 32.5° | 8757.0 | 8792.1 | 8842.1 | 8712.0 | 8136.2 | 7485.3 | 7430.2 | 7765.7 | 7775.7 | 8737.0 |
| 35° | 9437.9 | 9387.9 | 9518.1 | 9528.1 | 9022.4 | 8116.1 | 7745.6 | 7810.7 | 7915.9 | 8696.9 |
| 37.5° | 10023.8 | 10108.9 | 10259.1 | 10499.4 | 9978.7 | 9007.4 | 8236.3 | 8021.0 | 8066.1 | 8882.2 |
| 40° | 10664.6 | 10749.7 | 11090.2 | 11330.5 | 11035.1 | 10008.7 | 8982.3 | 8511.7 | 8546.7 | 9157.6 |
| 42.5° | 11370.6 | 11535.8 | 11941.4 | 12362.0 | 12281.8 | 11280.5 | 9943.6 | 9232.7 | 9217.6 | 9843.5 |
| 45° | 12326.9 | 12547.2 | 12987.8 | 13473.5 | 13543.6 | 12737.5 | 11225.4 | 10309.1 | 10359.2 | 10739.7 |
| 47.5° | 13658.7 | 13648.7 | 14079.3 | 14620.1 | 15025.6 | 14249.5 | 12757.5 | 11756.1 | 11751.1 | 12156.7 |
| 50° | 14945.5 | 14950.5 | 15065.7 | 15691.5 | 16743.0 | 16347.4 | 14655.1 | 13678.8 | 13623.7 | 13824.0 |
| 52.5° | 15541.3 | 15471.2 | 15386.1 | 16142.1 | 18064.8 | 18991.1 | 17058.4 | 15856.8 | 15811.7 | 15691.5 |
| 55° | 14915.5 | 14940.5 | 14935.5 | 15721.6 | 18760.7 | 21779.9 | 20142.6 | 18255.0 | 18179.9 | 17804.4 |
| 57.5° | 12907.7 | 12827.6 | 13002.8 | 14229.5 | 17964.6 | 23682.5 | 24553.7 | 21279.2 | 21083.9 | 19837.2 |
| 60° | 9608.2 | 9633.2 | 9778.4 | 11225.4 | 15986.9 | 24083.0 | 28774.5 | 24829.1 | 23987.9 | 21269.2 |
| 62.5° | 6709.2 | 6659.1 | 6714.2 | 7525.3 | 11430.7 | 22480.8 | 31628.4 | 29145.0 | 28333.9 | 22896.4 |
| 65° | 4801.6 | 4736.5 | 4956.8 | 5452.5 | 6864.4 | 17188.6 | 32033.9 | 34892.9 | 34166.9 | 25495.0 |
| 67.5° | 3454.7 | 3444.7 | 3700.1 | 4601.3 | 4876.7 | 9898.6 | 29029.8 | 40100.0 | 39659.4 | 28579.2 |
| 69° | 2858.9 | 2863.9 | 3109.3 | 4120.7 | 4656.4 | 6759.3 | 24979.3 | 40996.2 | 40916.1 | 30171.4 |
| 70° | 2493.4 | 2513.4 | 2798.8 | 3835.3 | 4566.3 | 5557.6 | 21534.5 | 40115.0 | 40034.9 | 30481.8 |
| 72.5° | 1537.1 | 1552.1 | 1927.6 | 3074.2 | 4341.0 | 4536.2 | 12877.7 | 32820.0 | 33095.4 | 29059.9 |
| 75° | 736.0 | 741.0 | 1011.4 | 2223.0 | 4185.7 | 4300.9 | 6899.5 | 24218.2 | 24799.0 | 23462.2 |
| 77.5° | 390.5 | 390.5 | 485.7 | 1181.6 | 3389.7 | 4045.6 | 4095.6 | 17083.4 | 17564.1 | 14835.4 |
| 80° | 195.3 | 200.3 | 295.4 | 615.8 | 2102.9 | 3965.4 | 3199.4 | 10189.0 | 10449.3 | 6053.3 |
| 82.5° | 75.1 | 80.1 | 140.2 | 370.5 | 1091.5 | 3349.6 | 2808.9 | 5011.9 | 4946.8 | 1416.9 |
| 85° | 10.0 | 10.0 | 50.1 | 220.3 | 465.6 | 1477.0 | 2318.2 | 2092.9 | 2022.8 | 310.4 |
| 87.5° | 0.0 | 0.0 | 10.0 | 65.1 | 140.2 | 430.6 | 896.2 | 575.8 | 640.9 | 85.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9357.8 | 0° | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 | 9357.8 |
| 9528.1 | 2.5° | 9503.0 | 9397.9 | 9237.7 | 9082.5 | 8917.2 | 8717.0 | 8496.7 | 8416.5 | 8276.4 | 8266.3 |
| 9573.1 | 5° | 9493.0 | 9322.8 | 9042.4 | 8712.0 | 8241.3 | 7885.8 | 7500.3 | 7219.9 | 7004.6 | 6864.4 |
| 9598.2 | 7.5° | 9543.1 | 9337.8 | 8852.1 | 8141.2 | 7535.3 | 6829.4 | 6233.6 | 5823.0 | 5447.5 | 5262.2 |
| 9678.3 | 10° | 9463.0 | 9187.6 | 8476.6 | 7480.3 | 6589.0 | 5602.7 | 4731.5 | 4180.7 | 3620.0 | 3414.7 |
| 9723.3 | 12.5° | 9508.0 | 9122.5 | 8071.1 | 6799.3 | 5572.6 | 4290.9 | 3249.5 | 2498.4 | 1972.7 | 1802.5 |
| 9798.4 | 15° | 9538.1 | 8982.3 | 7680.5 | 5983.2 | 4446.1 | 2924.0 | 1882.6 | 1416.9 | 1251.7 | 1221.7 |
| 9788.4 | 17.5° | 9422.9 | 8812.1 | 7129.8 | 5177.1 | 3294.5 | 1777.4 | 1251.7 | 1156.6 | 1126.5 | 1106.5 |
| 9773.4 | 20° | 9417.9 | 8712.0 | 6654.1 | 4351.0 | 2198.0 | 1211.7 | 1081.5 | 1046.4 | 1001.4 | 986.4 |
| 9858.5 | 22.5° | 9332.8 | 8501.7 | 6083.3 | 3444.7 | 1401.9 | 1041.4 | 971.3 | 916.3 | 866.2 | 846.2 |
| 9788.4 | 25° | 9307.8 | 8256.3 | 5547.6 | 2588.6 | 1066.5 | 931.3 | 861.2 | 781.1 | 721.0 | 690.9 |
| 9703.3 | 27.5° | 9237.7 | 8046.0 | 5006.9 | 1822.5 | 931.3 | 831.1 | 741.0 | 655.9 | 585.8 | 540.7 |
| 9648.2 | 30° | 8987.3 | 7825.7 | 4406.0 | 1261.7 | 846.2 | 736.0 | 635.9 | 535.7 | 465.6 | 435.6 |
| 9523.1 | 32.5° | 8882.2 | 7620.5 | 3750.1 | 971.3 | 771.1 | 650.9 | 535.7 | 445.6 | 390.5 | 360.5 |
| 9478.0 | 35° | 8757.0 | 7320.0 | 3114.3 | 846.2 | 701.0 | 565.8 | 450.6 | 375.5 | 330.5 | 305.4 |
| 9513.1 | 37.5° | 8772.0 | 7079.7 | 2518.5 | 766.1 | 625.9 | 485.7 | 385.5 | 320.4 | 280.4 | 255.4 |
| 9693.3 | 40° | 8727.0 | 6889.5 | 1957.7 | 696.0 | 555.8 | 415.6 | 325.4 | 270.4 | 235.3 | 210.3 |
| 10063.8 | 42.5° | 8932.3 | 6839.4 | 1477.0 | 635.9 | 485.7 | 355.5 | 280.4 | 230.3 | 195.3 | 165.2 |
| 10829.9 | 45° | 9277.7 | 6919.5 | 1151.6 | 580.8 | 415.6 | 305.4 | 240.3 | 190.3 | 155.2 | 135.2 |
| 11966.4 | 47.5° | 10199.0 | 7234.9 | 901.2 | 535.7 | 355.5 | 265.4 | 200.3 | 155.2 | 125.2 | 105.1 |
| 13518.5 | 50° | 11535.8 | 7940.9 | 766.1 | 470.6 | 300.4 | 225.3 | 165.2 | 120.2 | 100.1 | 80.1 |
| 15611.4 | 52.5° | 13438.4 | 9127.5 | 696.0 | 415.6 | 250.3 | 185.3 | 130.2 | 95.1 | 75.1 | 60.1 |
| 17914.6 | 55° | 15511.3 | 10609.6 | 630.9 | 350.5 | 210.3 | 150.2 | 105.1 | 75.1 | 55.1 | 40.1 |
| 19586.9 | 57.5° | 17128.5 | 11891.3 | 575.8 | 290.4 | 170.2 | 120.2 | 80.1 | 55.1 | 40.1 | 25.0 |
| 20923.7 | 60° | 18895.9 | 12792.6 | 505.7 | 230.3 | 140.2 | 90.1 | 60.1 | 40.1 | 30.0 | 15.0 |
| 22696.1 | 62.5° | 20718.4 | 13849.0 | 415.6 | 180.2 | 110.2 | 70.1 | 45.1 | 30.0 | 20.0 | 5.0 |
| 25014.3 | 65° | 23251.9 | 14675.1 | 320.4 | 140.2 | 85.1 | 50.1 | 35.0 | 25.0 | 10.0 | 0.0 |
| 26426.3 | 67.5° | 23967.9 | 14269.6 | 235.3 | 110.2 | 60.1 | 35.0 | 25.0 | 15.0 | 5.0 | 0.0 |
| 26160.9 | 69° | 23251.9 | 12852.6 | 205.3 | 95.1 | 50.1 | 30.0 | 20.0 | 10.0 | 5.0 | 0.0 |
| 25284.7 | 70° | 21945.1 | 11751.1 | 180.2 | 80.1 | 45.1 | 30.0 | 15.0 | 10.0 | 5.0 | 0.0 |
| 21784.9 | 72.5° | 18355.2 | 9012.4 | 140.2 | 60.1 | 35.0 | 25.0 | 15.0 | 10.0 | 0.0 | 0.0 |
| 17023.4 | 75° | 13463.5 | 5567.6 | 105.1 | 45.1 | 30.0 | 20.0 | 15.0 | 10.0 | 0.0 | 0.0 |
| 9678.3 | 77.5° | 7214.9 | 2032.8 | 75.1 | 30.0 | 20.0 | 15.0 | 15.0 | 10.0 | 0.0 | 0.0 |
| 3014.1 | 80° | 1977.7 | 600.8 | 55.1 | 20.0 | 15.0 | 10.0 | 10.0 | 5.0 | 0.0 | 0.0 |
| 736.0 | 82.5° | 540.7 | 155.2 | 35.0 | 20.0 | 15.0 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| 355.5 | 85° | 290.4 | 60.1 | 20.0 | 15.0 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175.2 | 87.5° | 150.2 | 20.0 | 15.0 | 10.0 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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