

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: P638788

Luminaire Tested: **EPH-VN-06-E-735-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638788
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-735-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40142.3 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2
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: 25 FT

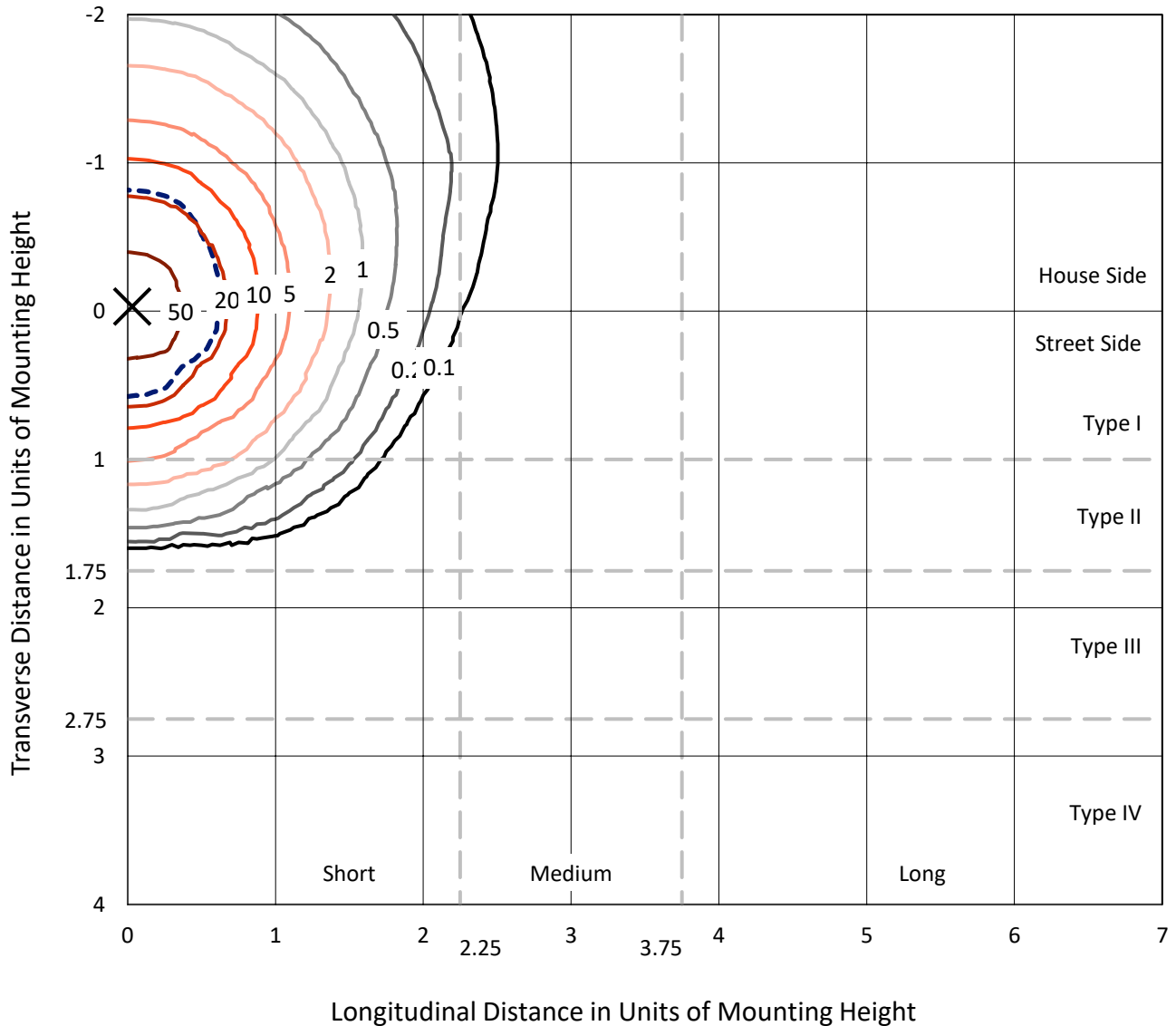




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Iso-Footcandle Lines of Horizontal Illumination

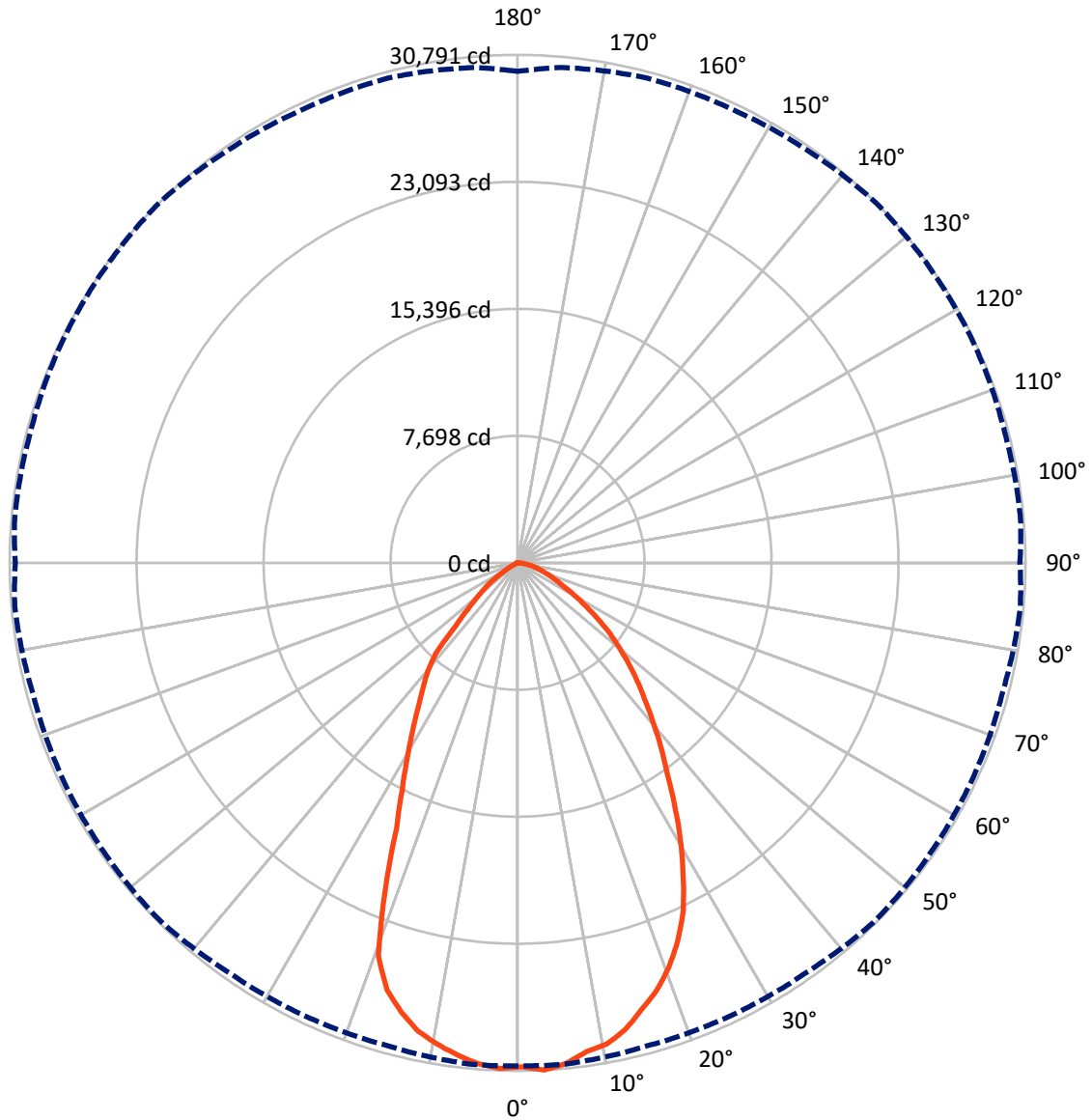
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 76.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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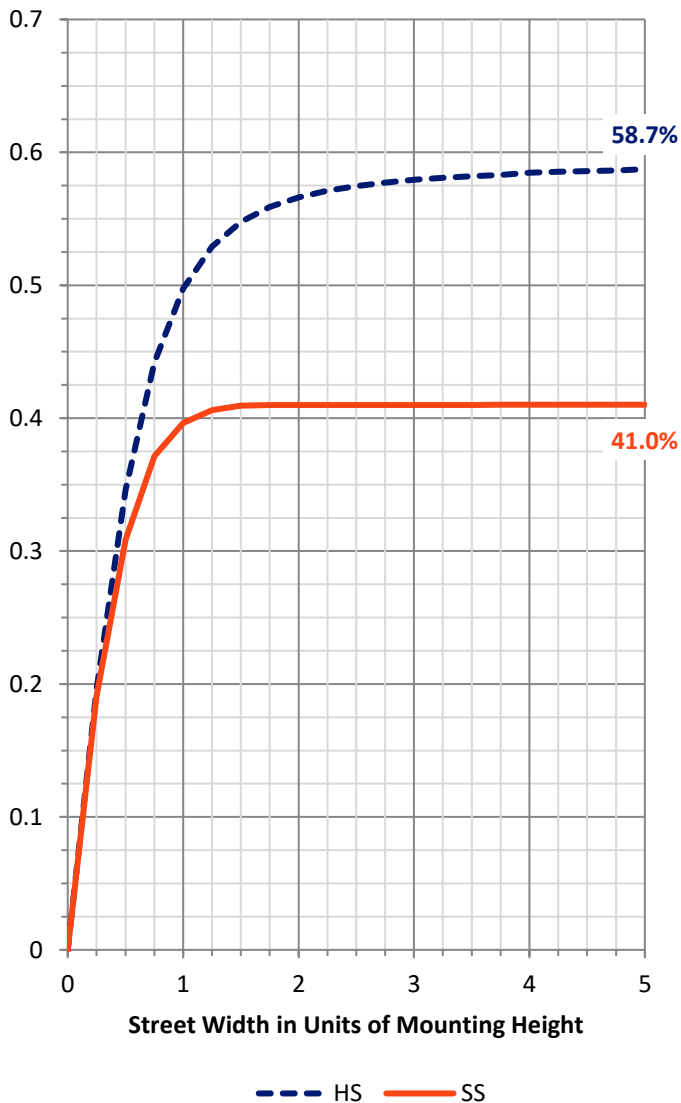
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23774.3 | 0.0 | 23774.3 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 16368.0 | 0.0 | 16368.0 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 40142.3 | 0.0 | 40142.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2864.9 | 7.1 |
| 10°-20° | 7682.5 | 19.1 |
| 20°-30° | 9369.2 | 23.3 |
| 30°-40° | 8554.0 | 21.3 |
| 40°-50° | 6181.8 | 15.4 |
| 50°-60° | 3375.3 | 8.4 |
| 60°-70° | 1395.6 | 3.5 |
| 70°-80° | 565.2 | 1.4 |
| 80°-90° | 153.7 | 0.4 |
| 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° | 40142.3 | 100.0 |
| 0°-180° | 40142.3 | 100.0 |

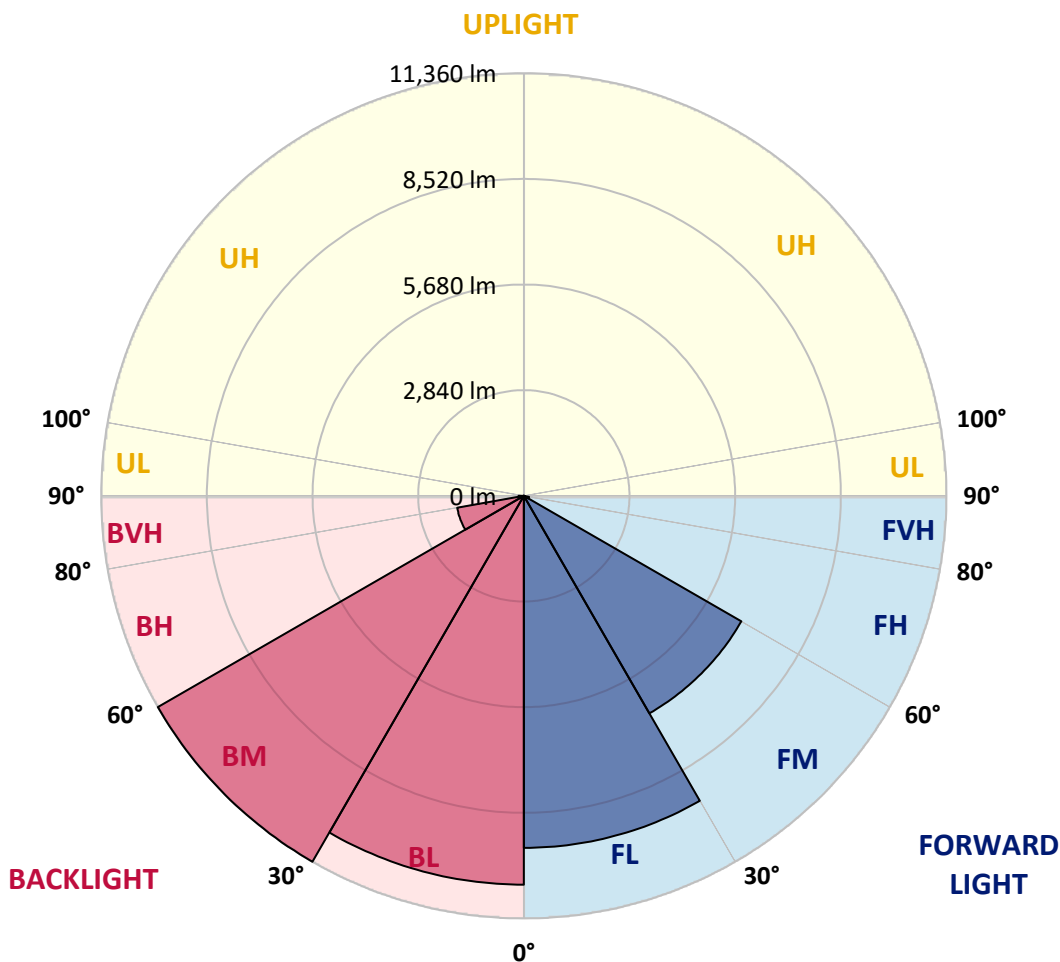


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 9463.0 | 23.6 | | | |
| FM (30°-60°) | 6751.2 | 16.8 | | | |
| FH (60°-80°) | 141.5 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 12.3 | 0.0 | | | G1/100 |
| BL (0°-30°) | 10453.6 | 26.0 | B5 | | |
| BM (30°-60°) | 11359.9 | 28.3 | B5 | | |
| BH (60°-80°) | 1819.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 141.4 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 |
| 2.5° | 30491.6 | 30531.2 | 30316.4 | 30339.0 | 30378.5 | 30666.8 | 30593.3 | 30525.5 | 30429.4 | 30593.3 |
| 5° | 30452.0 | 30474.6 | 30248.5 | 30169.4 | 30203.3 | 30463.3 | 30225.9 | 30225.9 | 30203.3 | 30175.0 |
| 7.5° | 30146.8 | 30158.1 | 29982.8 | 29841.5 | 29932.0 | 30050.7 | 29875.4 | 29960.2 | 29835.9 | 29932.0 |
| 10° | 29688.9 | 29615.4 | 29406.2 | 29366.7 | 29468.4 | 29581.5 | 29462.8 | 29541.9 | 29428.9 | 29502.3 |
| 12.5° | 29016.2 | 28903.1 | 28733.5 | 28682.7 | 28857.9 | 29010.5 | 28914.4 | 28869.2 | 28722.2 | 28903.1 |
| 15° | 26421.5 | 26336.7 | 26721.1 | 27393.8 | 27998.7 | 28128.7 | 28026.9 | 28072.2 | 27766.9 | 27817.8 |
| 17.5° | 21746.6 | 21588.3 | 22001.0 | 23595.1 | 25867.5 | 27066.0 | 26975.5 | 26681.6 | 26229.3 | 26331.1 |
| 20° | 19762.4 | 19717.2 | 19672.0 | 20050.7 | 21639.2 | 25274.0 | 25398.4 | 24652.2 | 24007.7 | 23866.4 |
| 22.5° | 18643.2 | 18626.2 | 18581.0 | 18665.8 | 19084.1 | 21418.7 | 22843.3 | 22153.6 | 21724.0 | 21684.4 |
| 25° | 17620.0 | 17591.7 | 17456.1 | 17563.5 | 17563.5 | 17699.1 | 19525.0 | 19943.3 | 19564.6 | 19519.4 |
| 27.5° | 16579.9 | 16529.0 | 16506.4 | 16557.3 | 16297.2 | 15381.5 | 15845.0 | 17885.7 | 17687.8 | 17699.1 |
| 30° | 15455.0 | 15438.0 | 15375.8 | 15483.2 | 14680.5 | 13544.3 | 13250.3 | 16020.2 | 16059.8 | 16048.5 |
| 32.5° | 13781.7 | 13855.2 | 14137.8 | 14256.5 | 12933.8 | 11995.4 | 11503.6 | 13860.8 | 14669.2 | 14652.2 |
| 35° | 10011.2 | 10011.2 | 10932.7 | 12645.5 | 11334.0 | 10627.4 | 10361.7 | 11752.3 | 13295.6 | 13352.1 |
| 37.5° | 8230.6 | 8258.8 | 8439.7 | 9219.8 | 9779.5 | 9530.7 | 9451.6 | 9892.5 | 11531.9 | 11622.3 |
| 40° | 7405.3 | 7405.3 | 7405.3 | 7083.0 | 7066.1 | 8586.7 | 8541.5 | 8400.2 | 9960.4 | 10158.2 |
| 42.5° | 6653.4 | 6670.4 | 6681.7 | 5867.7 | 5415.5 | 7422.2 | 7320.5 | 7105.7 | 8552.8 | 8784.6 |
| 45° | 5879.0 | 5907.3 | 5941.2 | 4906.7 | 4708.8 | 5342.0 | 6195.5 | 5958.1 | 7162.2 | 7461.8 |
| 47.5° | 3589.6 | 3634.8 | 4403.6 | 4160.5 | 4183.1 | 4120.9 | 5053.7 | 5014.1 | 5873.3 | 6297.3 |
| 50° | 2425.1 | 2442.0 | 2515.5 | 2639.9 | 3589.6 | 3239.1 | 3578.3 | 4149.2 | 4460.1 | 5104.5 |
| 52.5° | 2035.0 | 2063.3 | 1882.4 | 1712.8 | 2357.2 | 2532.5 | 2498.6 | 3080.8 | 3205.2 | 4002.2 |
| 55° | 1430.2 | 1520.6 | 1435.8 | 1418.9 | 1339.7 | 1967.2 | 1893.7 | 2368.6 | 2447.7 | 3041.2 |
| 57.5° | 147.0 | 169.6 | 293.9 | 1057.1 | 876.2 | 1113.6 | 1351.0 | 1735.4 | 1814.6 | 2244.2 |
| 60° | 11.3 | 11.3 | 28.3 | 147.0 | 638.8 | 667.0 | 932.7 | 1068.4 | 1221.0 | 1565.8 |
| 62.5° | 0.0 | 5.7 | 11.3 | 22.6 | 101.8 | 356.1 | 469.2 | 559.6 | 734.9 | 1011.9 |
| 65° | 0.0 | 0.0 | 5.7 | 17.0 | 22.6 | 135.7 | 180.9 | 293.9 | 401.4 | 627.5 |
| 67.5° | 0.0 | 0.0 | 5.7 | 11.3 | 17.0 | 33.9 | 62.2 | 107.4 | 214.8 | 356.1 |
| 70° | 0.0 | 0.0 | 5.7 | 11.3 | 17.0 | 28.3 | 45.2 | 67.8 | 96.1 | 192.2 |
| 72.5° | 0.0 | 0.0 | 5.7 | 5.7 | 11.3 | 28.3 | 33.9 | 45.2 | 67.8 | 96.1 |
| 75° | 0.0 | 0.0 | 5.7 | 5.7 | 17.0 | 33.9 | 28.3 | 33.9 | 45.2 | 62.2 |
| 77.5° | 0.0 | 0.0 | 5.7 | 11.3 | 17.0 | 33.9 | 28.3 | 33.9 | 33.9 | 39.6 |
| 80° | 0.0 | 0.0 | 5.7 | 11.3 | 22.6 | 39.6 | 33.9 | 33.9 | 28.3 | 28.3 |
| 82.5° | 0.0 | 0.0 | 5.7 | 17.0 | 22.6 | 50.9 | 50.9 | 45.2 | 22.6 | 17.0 |
| 85° | 0.0 | 0.0 | 11.3 | 22.6 | 33.9 | 56.5 | 56.5 | 45.2 | 17.0 | 11.3 |
| 87.5° | 0.0 | 0.0 | 11.3 | 17.0 | 28.3 | 39.6 | 56.5 | 45.2 | 17.0 | 5.7 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 30548.1 | 0° | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 | 30548.1 |
| 30452.0 | 2.5° | 30604.6 | 30570.7 | 30683.8 | 30729.0 | 30791.2 | 30553.8 | 30406.8 | 30412.5 | 30141.1 |
| 30107.2 | 5° | 30288.1 | 30293.7 | 30440.7 | 30429.4 | 30491.6 | 30361.6 | 30305.0 | 30208.9 | 29971.5 |
| 29671.9 | 7.5° | 29886.7 | 29835.9 | 29977.2 | 30084.6 | 29926.3 | 30016.8 | 29886.7 | 29932.0 | 29790.6 |
| 29287.5 | 10° | 29575.8 | 29457.1 | 29587.1 | 29660.6 | 29666.3 | 29575.8 | 29451.5 | 29332.8 | 29281.9 |
| 28688.3 | 12.5° | 28886.2 | 28733.5 | 28954.0 | 29055.8 | 29038.8 | 28863.6 | 28722.2 | 28750.5 | 28586.6 |
| 27636.9 | 15° | 27936.5 | 27942.1 | 28100.4 | 28196.5 | 28106.1 | 28066.5 | 28077.8 | 28010.0 | 27868.7 |
| 26184.1 | 17.5° | 26483.7 | 26568.5 | 26986.8 | 27218.6 | 27269.5 | 27190.3 | 27150.7 | 27071.6 | 26930.3 |
| 23866.4 | 20° | 24064.3 | 24573.0 | 25319.2 | 26037.1 | 26178.5 | 26155.8 | 26014.5 | 25980.6 | 25901.5 |
| 21571.4 | 22.5° | 21938.8 | 22317.5 | 23182.4 | 24301.7 | 24878.3 | 24934.8 | 24765.2 | 24714.4 | 24629.6 |
| 19519.4 | 25° | 19739.8 | 20146.8 | 20926.9 | 22142.3 | 23335.1 | 23578.1 | 23549.9 | 23397.2 | 23306.8 |
| 17699.1 | 27.5° | 17885.7 | 18292.7 | 18999.3 | 20096.0 | 21373.5 | 22153.6 | 22227.1 | 21984.0 | 21978.4 |
| 16076.8 | 30° | 16212.4 | 16772.1 | 17309.1 | 18202.2 | 19440.2 | 20610.4 | 20734.7 | 20565.1 | 20582.1 |
| 14590.1 | 32.5° | 14901.0 | 15364.5 | 15822.4 | 16421.6 | 17450.4 | 18812.8 | 19298.9 | 19140.6 | 19078.4 |
| 13352.1 | 35° | 13561.2 | 13877.8 | 14347.0 | 14895.3 | 15596.3 | 16947.3 | 17789.6 | 17670.9 | 17608.7 |
| 11678.8 | 37.5° | 12035.0 | 12577.6 | 12916.8 | 13533.0 | 14081.3 | 15155.4 | 16342.5 | 16325.5 | 16195.5 |
| 10254.3 | 40° | 10469.1 | 11040.1 | 11554.5 | 12176.3 | 12600.3 | 13453.8 | 14771.0 | 14765.3 | 14782.3 |
| 8778.9 | 42.5° | 9050.2 | 9576.0 | 10197.8 | 10876.1 | 11283.1 | 11904.9 | 13318.2 | 13397.3 | 13493.4 |
| 7563.5 | 45° | 7767.0 | 8241.9 | 8818.5 | 9643.8 | 10135.6 | 10491.7 | 11746.7 | 12108.5 | 12102.8 |
| 6478.2 | 47.5° | 6613.9 | 7060.4 | 7546.6 | 8349.3 | 8976.8 | 9299.0 | 10339.1 | 10853.5 | 10819.6 |
| 5313.7 | 50° | 5551.1 | 5946.8 | 6455.6 | 7037.8 | 7880.1 | 8162.7 | 8937.2 | 9615.5 | 9564.7 |
| 4234.0 | 52.5° | 4465.8 | 5014.1 | 5443.7 | 5975.1 | 6862.6 | 7139.6 | 7738.8 | 8400.2 | 8360.6 |
| 3176.9 | 55° | 3482.2 | 4013.5 | 4533.6 | 4991.5 | 5737.7 | 6150.3 | 6579.9 | 7258.3 | 7247.0 |
| 2487.3 | 57.5° | 2634.2 | 3216.5 | 3708.3 | 4143.6 | 4737.1 | 5245.9 | 5590.7 | 6206.9 | 6286.0 |
| 1701.5 | 60° | 1950.2 | 2396.8 | 2928.2 | 3414.3 | 3883.5 | 4409.2 | 4641.0 | 5245.9 | 5279.8 |
| 1164.5 | 62.5° | 1328.4 | 1820.2 | 2340.3 | 2781.2 | 3131.7 | 3674.4 | 3883.5 | 4381.0 | 4443.2 |
| 746.2 | 65° | 921.4 | 1238.0 | 1831.5 | 2148.1 | 2577.7 | 3041.2 | 3250.4 | 3646.1 | 3770.5 |
| 429.6 | 67.5° | 610.5 | 881.8 | 1430.2 | 1718.5 | 2142.4 | 2459.0 | 2724.7 | 3046.9 | 3182.6 |
| 271.3 | 70° | 333.5 | 650.1 | 1023.2 | 1356.7 | 1724.1 | 2029.4 | 2289.4 | 2549.4 | 2668.2 |
| 124.4 | 72.5° | 226.1 | 435.3 | 712.3 | 1074.0 | 1390.6 | 1690.2 | 1922.0 | 2114.2 | 2119.8 |
| 73.5 | 75° | 113.1 | 293.9 | 542.7 | 831.0 | 1085.4 | 1379.3 | 1588.5 | 1701.5 | 1565.8 |
| 45.2 | 77.5° | 67.8 | 214.8 | 440.9 | 667.0 | 881.8 | 1113.6 | 1232.3 | 1294.5 | 1074.0 |
| 33.9 | 80° | 39.6 | 152.6 | 344.8 | 531.4 | 610.5 | 819.7 | 932.7 | 949.7 | 717.9 |
| 22.6 | 82.5° | 28.3 | 113.1 | 271.3 | 390.0 | 373.1 | 576.6 | 701.0 | 678.3 | 457.9 |
| 17.0 | 85° | 17.0 | 79.1 | 169.6 | 243.1 | 226.1 | 378.7 | 407.0 | 418.3 | 265.7 |
| 11.3 | 87.5° | 11.3 | 45.2 | 90.4 | 130.0 | 107.4 | 163.9 | 163.9 | 197.9 | 130.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 30548.1 |
| 29790.6 |
| 29915.0 |
| 29553.2 |
| 29055.8 |
| 28445.3 |
| 27727.3 |
| 26868.1 |
| 25720.6 |
| 24607.0 |
| 23210.7 |
| 21967.1 |
| 20497.3 |
| 19084.1 |
| 17523.9 |
| 16302.9 |
| 14782.3 |
| 13442.5 |
| 12114.1 |
| 10830.9 |
| 9609.9 |
| 8445.4 |
| 7275.2 |
| 6252.1 |
| 5330.7 |
| 4454.5 |
| 3742.2 |
| 3165.6 |
| 2622.9 |
| 2069.0 |
| 1464.1 |
| 1034.5 |
| 672.7 |
| 424.0 |
| 243.1 |
| 113.1 |
| 0.0 |

(END OF REPORT)