

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: P638604

Luminaire Tested: **EPH-VN-08-D-935-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638604
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-935-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36812.2 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

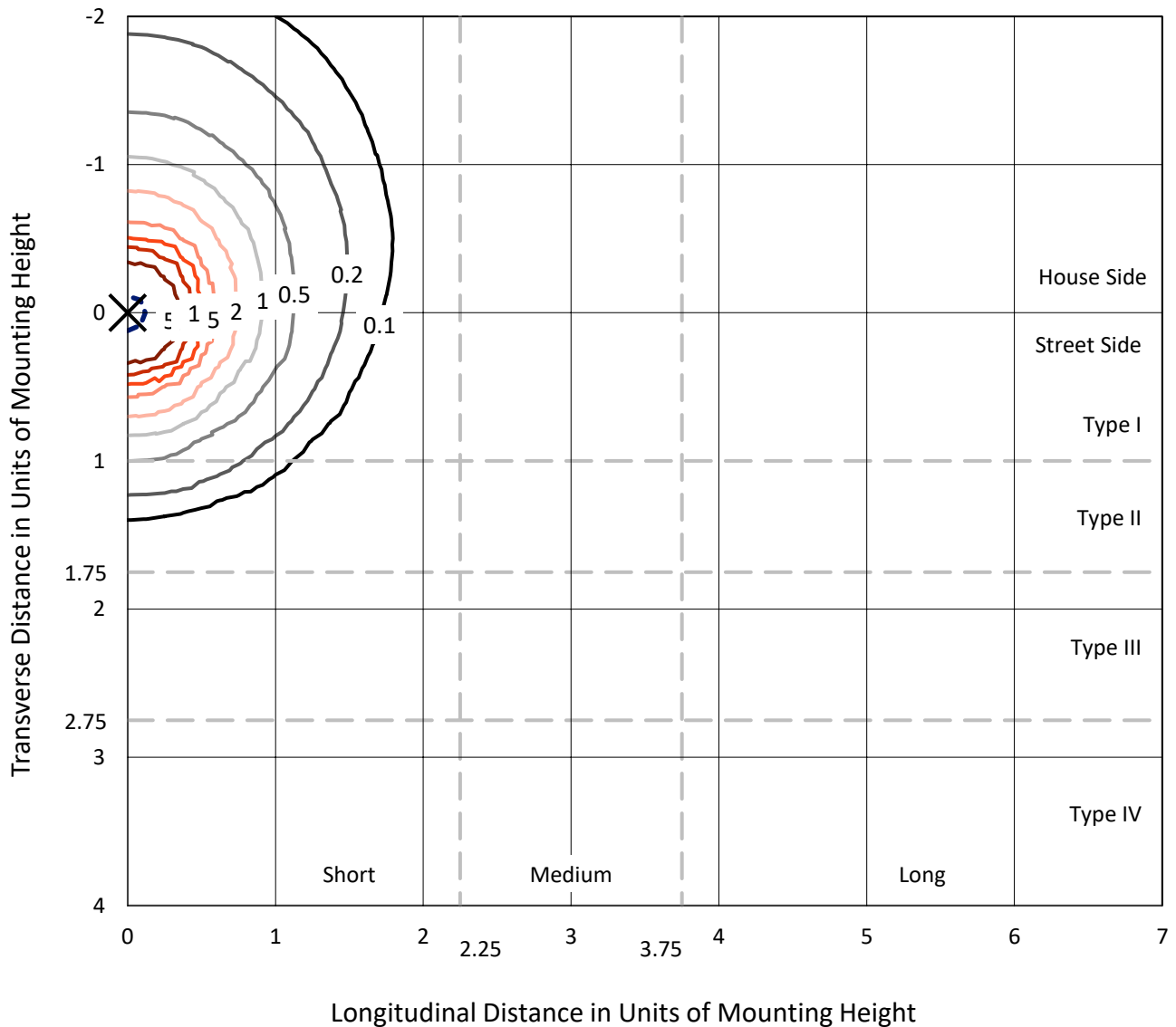
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

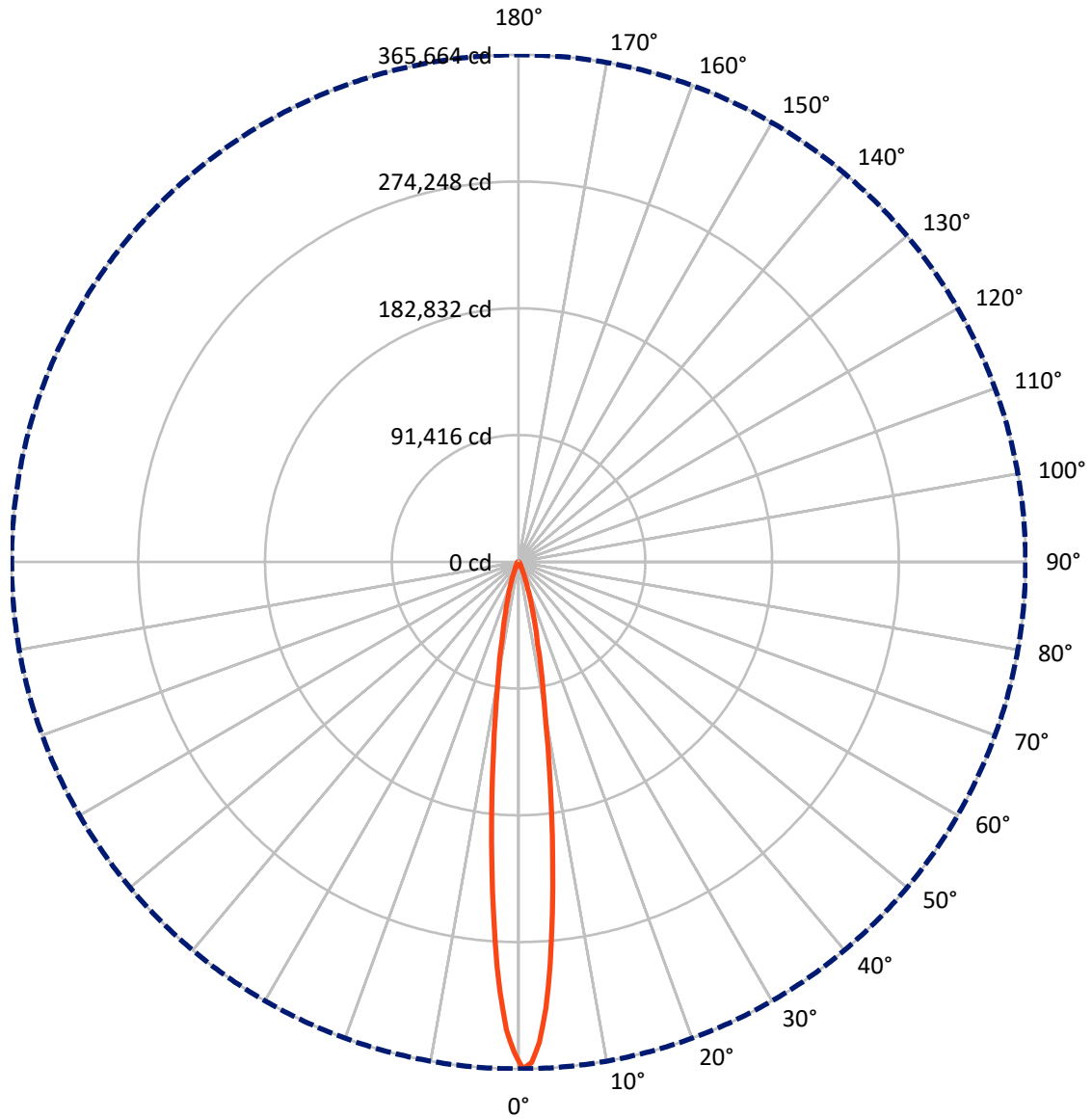
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 914.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18854.5 | 0.0 | 18854.5 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 17957.6 | 0.0 | 17957.6 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 36812.2 | 0.0 | 36812.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 18583.9 | 50.5 |
| 10°-20° | 11897.3 | 32.3 |
| 20°-30° | 3576.1 | 9.7 |
| 30°-40° | 1164.4 | 3.2 |
| 40°-50° | 677.5 | 1.8 |
| 50°-60° | 450.0 | 1.2 |
| 60°-70° | 270.9 | 0.7 |
| 70°-80° | 139.2 | 0.4 |
| 80°-90° | 52.9 | 0.1 |
| 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° | 36812.2 | 100.0 |
| 0°-180° | 36812.2 | 100.0 |

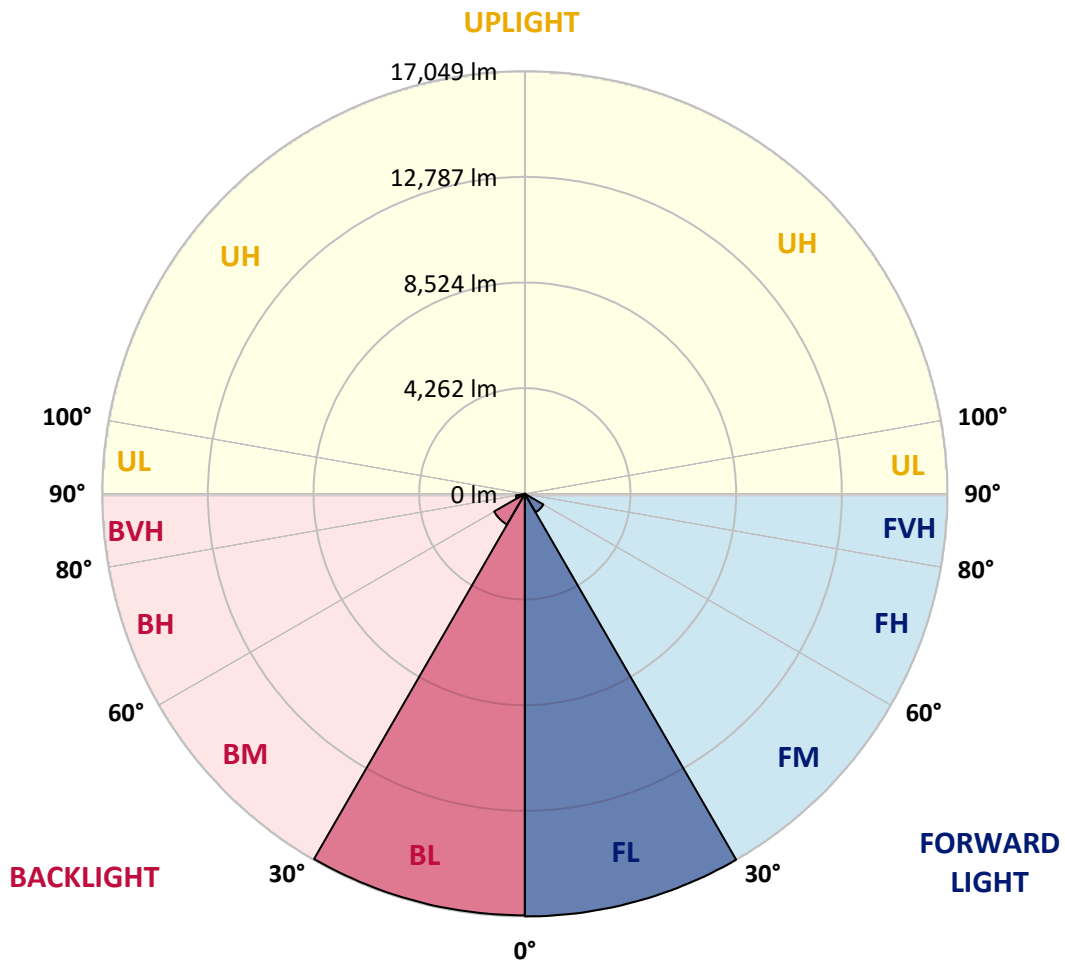


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 17048.9 | 46.3 | | | |
| FM (30°-60°) | 860.3 | 2.3 | | | |
| FH (60°-80°) | 40.5 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 8.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 17008.5 | 46.2 | B5 | | |
| BM (30°-60°) | 1431.5 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 369.6 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 44.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 |
| 1° | 361285.9 | 360183.3 | 357336.6 | 359361.4 | 361141.6 | 360624.4 | 360588.3 | 360395.8 | 360127.2 | 362236.2 |
| 2° | 346844.0 | 346130.3 | 341920.4 | 343656.5 | 346186.4 | 344342.1 | 345496.8 | 344482.4 | 344502.5 | 347020.4 |
| 3° | 322498.7 | 322887.6 | 316171.8 | 319327.2 | 322843.5 | 318373.0 | 319760.2 | 322366.4 | 319636.0 | 318814.0 |
| 4° | 290856.2 | 287480.3 | 283811.7 | 287019.2 | 287929.4 | 285327.2 | 287885.3 | 291076.8 | 287283.8 | 287452.2 |
| 5° | 254731.3 | 252237.4 | 247895.2 | 249875.8 | 247618.5 | 248440.5 | 252273.5 | 253588.6 | 250942.3 | 247610.5 |
| 6° | 217587.9 | 215815.7 | 210386.9 | 213241.7 | 212439.8 | 211974.7 | 216814.1 | 212804.6 | 214248.0 | 212231.3 |
| 7° | 180989.8 | 177678.0 | 175011.7 | 177746.2 | 177922.6 | 176523.3 | 182806.1 | 182076.3 | 179450.2 | 178840.7 |
| 8° | 149952.8 | 146649.0 | 144391.7 | 146428.5 | 147759.6 | 145562.4 | 148517.4 | 150458.0 | 148405.1 | 148589.6 |
| 9° | 120944.5 | 120363.2 | 117223.8 | 119886.0 | 121333.4 | 118979.9 | 122251.6 | 122953.3 | 121032.7 | 121966.9 |
| 10° | 99305.6 | 98628.0 | 96122.1 | 97200.7 | 99598.3 | 96791.7 | 99931.1 | 100159.6 | 98628.0 | 99065.1 |
| 12.5° | 61368.4 | 61095.7 | 61027.6 | 61183.9 | 61151.9 | 61649.0 | 62450.9 | 61536.8 | 61416.5 | 59904.9 |
| 15° | 39665.3 | 40070.3 | 39653.3 | 40455.2 | 40571.4 | 41040.5 | 40551.4 | 39813.7 | 38406.4 | 37708.7 |
| 17.5° | 24754.2 | 25271.5 | 25985.1 | 27159.9 | 28334.7 | 28471.0 | 27821.5 | 26955.4 | 26273.8 | 25528.1 |
| 20° | 14241.5 | 14494.1 | 14385.8 | 15793.2 | 18832.3 | 19658.2 | 18820.3 | 17910.1 | 17088.2 | 16334.4 |
| 22.5° | 8848.8 | 8756.6 | 8925.0 | 9398.1 | 10388.4 | 12942.4 | 12256.8 | 11346.7 | 10749.3 | 10127.8 |
| 25° | 5424.8 | 5525.0 | 5460.8 | 5721.5 | 6166.5 | 7249.1 | 7405.4 | 7012.5 | 6707.8 | 6387.0 |
| 27.5° | 3492.2 | 3492.2 | 3520.3 | 3664.6 | 3969.3 | 3933.3 | 4767.2 | 4462.5 | 4298.1 | 4141.7 |
| 30° | 2425.7 | 2433.7 | 2433.7 | 2517.9 | 2586.1 | 2465.8 | 2682.3 | 3075.2 | 2999.1 | 2878.8 |
| 32.5° | 1800.2 | 1824.3 | 1844.3 | 1888.4 | 1832.3 | 1704.0 | 1756.1 | 2213.2 | 2169.1 | 2125.0 |
| 35° | 1371.2 | 1391.3 | 1439.4 | 1463.4 | 1383.3 | 1303.1 | 1255.0 | 1627.8 | 1647.9 | 1635.8 |
| 37.5° | 998.3 | 1010.4 | 1098.6 | 1190.8 | 1098.6 | 1026.4 | 998.3 | 1250.9 | 1347.2 | 1335.1 |
| 40° | 765.8 | 769.8 | 785.8 | 890.1 | 890.1 | 834.0 | 842.0 | 934.2 | 1102.6 | 1102.6 |
| 42.5° | 657.5 | 657.5 | 673.6 | 657.5 | 661.6 | 721.7 | 741.7 | 753.8 | 934.2 | 934.2 |
| 45° | 569.3 | 569.3 | 577.4 | 537.3 | 497.2 | 621.5 | 637.5 | 641.5 | 785.8 | 805.9 |
| 47.5° | 477.1 | 477.1 | 493.2 | 441.0 | 421.0 | 493.2 | 537.3 | 549.3 | 677.6 | 693.6 |
| 50° | 352.8 | 356.8 | 405.0 | 360.8 | 372.9 | 380.9 | 465.1 | 473.1 | 573.3 | 609.4 |
| 52.5° | 236.6 | 236.6 | 244.6 | 280.7 | 324.8 | 312.7 | 376.9 | 405.0 | 457.1 | 505.2 |
| 55° | 192.5 | 192.5 | 188.4 | 180.4 | 240.6 | 260.6 | 276.7 | 336.8 | 372.9 | 433.0 |
| 57.5° | 132.3 | 140.3 | 128.3 | 148.3 | 156.4 | 196.5 | 208.5 | 264.6 | 284.7 | 364.9 |
| 60° | 16.0 | 20.0 | 28.1 | 108.3 | 104.2 | 132.3 | 156.4 | 208.5 | 232.5 | 280.7 |
| 62.5° | 4.0 | 4.0 | 8.0 | 20.0 | 72.2 | 88.2 | 124.3 | 144.3 | 168.4 | 216.5 |
| 65° | 0.0 | 0.0 | 4.0 | 8.0 | 16.0 | 48.1 | 64.2 | 84.2 | 120.3 | 152.4 |
| 67.5° | 0.0 | 0.0 | 4.0 | 8.0 | 8.0 | 20.0 | 32.1 | 52.1 | 64.2 | 112.3 |
| 70° | 0.0 | 0.0 | 4.0 | 8.0 | 8.0 | 16.0 | 20.0 | 24.1 | 44.1 | 60.1 |
| 72.5° | 0.0 | 0.0 | 4.0 | 8.0 | 12.0 | 16.0 | 20.0 | 20.0 | 20.0 | 40.1 |
| 75° | 0.0 | 0.0 | 4.0 | 8.0 | 12.0 | 16.0 | 20.0 | 20.0 | 16.0 | 16.0 |
| 77.5° | 0.0 | 0.0 | 4.0 | 8.0 | 16.0 | 20.0 | 24.1 | 20.0 | 12.0 | 12.0 |
| 80° | 0.0 | 0.0 | 4.0 | 12.0 | 20.0 | 28.1 | 32.1 | 24.1 | 12.0 | 8.0 |
| 82.5° | 0.0 | 0.0 | 8.0 | 16.0 | 24.1 | 32.1 | 44.1 | 36.1 | 16.0 | 8.0 |
| 85° | 0.0 | 0.0 | 4.0 | 12.0 | 24.1 | 32.1 | 64.2 | 44.1 | 20.0 | 4.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.0 | 4.0 | 8.0 | 24.1 | 16.0 | 8.0 | 4.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 365664.2 | 0° | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 | 365664.2 |
| 359802.4 | 1° | 362316.4 | 362569.0 | 361743.0 | 363022.0 | 362573.0 | 359942.8 | 359072.7 | 358042.3 |
| 345540.9 | 2° | 344482.4 | 345769.4 | 345833.6 | 347252.9 | 347232.9 | 344165.7 | 343215.4 | 344967.5 |
| 320481.9 | 3° | 319511.7 | 321011.2 | 319660.0 | 322181.9 | 321424.2 | 317703.4 | 316737.1 | 318725.8 |
| 288783.4 | 4° | 287921.3 | 287636.7 | 287171.6 | 285736.2 | 287504.4 | 284966.4 | 283053.9 | 285752.2 |
| 252028.9 | 5° | 251523.7 | 250890.2 | 249984.1 | 249559.1 | 250874.2 | 249250.4 | 245317.1 | 249258.4 |
| 215879.9 | 6° | 216144.5 | 213418.1 | 213285.8 | 213049.2 | 213181.5 | 208634.8 | 208907.5 | 211842.4 |
| 176743.8 | 7° | 178612.2 | 179113.4 | 178091.0 | 179730.8 | 178479.9 | 175400.6 | 174213.8 | 177305.1 |
| 149399.5 | 8° | 148357.0 | 147723.5 | 146941.7 | 149391.4 | 147222.3 | 145201.6 | 143818.3 | 146260.1 |
| 122119.3 | 9° | 121890.8 | 120796.2 | 120002.3 | 119878.0 | 120214.8 | 116421.9 | 117191.7 | 119040.0 |
| 99305.6 | 10° | 99341.7 | 97545.5 | 97982.5 | 98098.8 | 97729.9 | 95244.1 | 95268.1 | 95905.6 |
| 60907.3 | 12.5° | 60690.8 | 59808.7 | 60029.2 | 60149.5 | 60899.3 | 60025.2 | 58790.3 | 57900.2 |
| 38402.3 | 15° | 38145.7 | 37512.2 | 38807.3 | 39677.3 | 39500.9 | 38723.1 | 38141.7 | 37335.8 |
| 25528.1 | 17.5° | 25291.5 | 26121.5 | 26125.5 | 26919.3 | 26999.5 | 26221.7 | 25772.6 | 25046.9 |
| 16603.1 | 20° | 16542.9 | 16887.7 | 17605.4 | 18166.7 | 18491.5 | 17898.1 | 17360.8 | 16863.7 |
| 10352.4 | 22.5° | 10352.4 | 10953.8 | 11402.8 | 12132.5 | 12429.2 | 11996.2 | 11615.3 | 11210.4 |
| 6463.2 | 25° | 6355.0 | 6784.0 | 7156.8 | 7790.3 | 8195.3 | 7986.8 | 7638.0 | 7353.3 |
| 4173.8 | 27.5° | 4238.0 | 4418.4 | 4602.8 | 5039.9 | 5460.8 | 5344.6 | 5204.2 | 5031.8 |
| 2942.9 | 30° | 2987.0 | 3003.1 | 3199.5 | 3444.1 | 3724.8 | 3796.9 | 3732.8 | 3644.6 |
| 2161.1 | 32.5° | 2201.2 | 2265.3 | 2357.5 | 2509.9 | 2698.3 | 2870.8 | 2838.7 | 2798.6 |
| 1651.9 | 35° | 1700.0 | 1796.2 | 1872.4 | 1988.7 | 2088.9 | 2253.3 | 2281.4 | 2269.3 |
| 1359.2 | 37.5° | 1387.3 | 1471.5 | 1547.6 | 1615.8 | 1700.0 | 1812.3 | 1900.5 | 1904.5 |
| 1122.6 | 40° | 1150.7 | 1226.9 | 1327.1 | 1379.2 | 1439.4 | 1523.6 | 1631.8 | 1639.9 |
| 950.2 | 42.5° | 970.3 | 1042.5 | 1142.7 | 1206.8 | 1250.9 | 1331.1 | 1439.4 | 1455.4 |
| 813.9 | 45° | 834.0 | 878.1 | 982.3 | 1058.5 | 1102.6 | 1154.7 | 1271.0 | 1287.0 |
| 701.7 | 47.5° | 725.7 | 769.8 | 834.0 | 942.2 | 982.3 | 1030.4 | 1122.6 | 1150.7 |
| 621.5 | 50° | 637.5 | 681.6 | 737.7 | 834.0 | 894.1 | 934.2 | 1010.4 | 1050.5 |
| 541.3 | 52.5° | 565.3 | 609.4 | 669.6 | 745.8 | 813.9 | 850.0 | 922.2 | 974.3 |
| 441.0 | 55° | 473.1 | 549.3 | 593.4 | 661.6 | 753.8 | 785.8 | 842.0 | 910.1 |
| 384.9 | 57.5° | 413.0 | 477.1 | 541.3 | 597.4 | 689.6 | 729.7 | 785.8 | 850.0 |
| 304.7 | 60° | 348.8 | 409.0 | 485.1 | 533.3 | 621.5 | 673.6 | 733.7 | 793.9 |
| 232.5 | 62.5° | 276.7 | 356.8 | 409.0 | 477.1 | 561.3 | 629.5 | 677.6 | 737.7 |
| 180.4 | 65° | 204.5 | 292.7 | 352.8 | 425.0 | 505.2 | 577.4 | 617.5 | 681.6 |
| 128.3 | 67.5° | 148.3 | 228.5 | 300.7 | 368.9 | 445.0 | 517.2 | 557.3 | 613.4 |
| 80.2 | 70° | 116.3 | 168.4 | 248.6 | 308.7 | 388.9 | 449.1 | 493.2 | 529.2 |
| 52.1 | 72.5° | 68.2 | 128.3 | 200.5 | 268.6 | 340.8 | 380.9 | 413.0 | 445.0 |
| 24.1 | 75° | 44.1 | 100.2 | 164.4 | 224.5 | 276.7 | 312.7 | 340.8 | 368.9 |
| 12.0 | 77.5° | 28.1 | 72.2 | 132.3 | 188.4 | 212.5 | 256.6 | 280.7 | 296.7 |
| 8.0 | 80° | 16.0 | 56.1 | 116.3 | 152.4 | 172.4 | 200.5 | 224.5 | 244.6 |
| 8.0 | 82.5° | 12.0 | 48.1 | 96.2 | 128.3 | 128.3 | 160.4 | 172.4 | 172.4 |
| 4.0 | 85° | 8.0 | 40.1 | 76.2 | 120.3 | 96.2 | 120.3 | 112.3 | 112.3 |
| 4.0 | 87.5° | 8.0 | 28.1 | 36.1 | 52.1 | 44.1 | 52.1 | 52.1 | 60.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
365664.2
353960.7
337546.1
309893.0
275985.3
238874.0
203334.4
168897.3
139287.7
113266.5
91567.4
57358.9
36922.9
24866.5
16691.3
10993.9
7188.9
4931.6
3584.4
2766.5
2229.2
1876.4
1627.8
1443.4
1283.0
1154.7
1054.5
974.3
914.2
854.0
809.9
765.8
693.6
617.5
541.3
453.1
368.9
288.7
220.5
160.4
108.3
60.1
0.0

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