

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: STREETWORKS

Report Number: P265736

Luminaire Tested: **ARCH-L-AF72-270-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-270-D-U-T2U-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25726.6 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 273
Input Voltage (V): NR
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: 28.75 FT

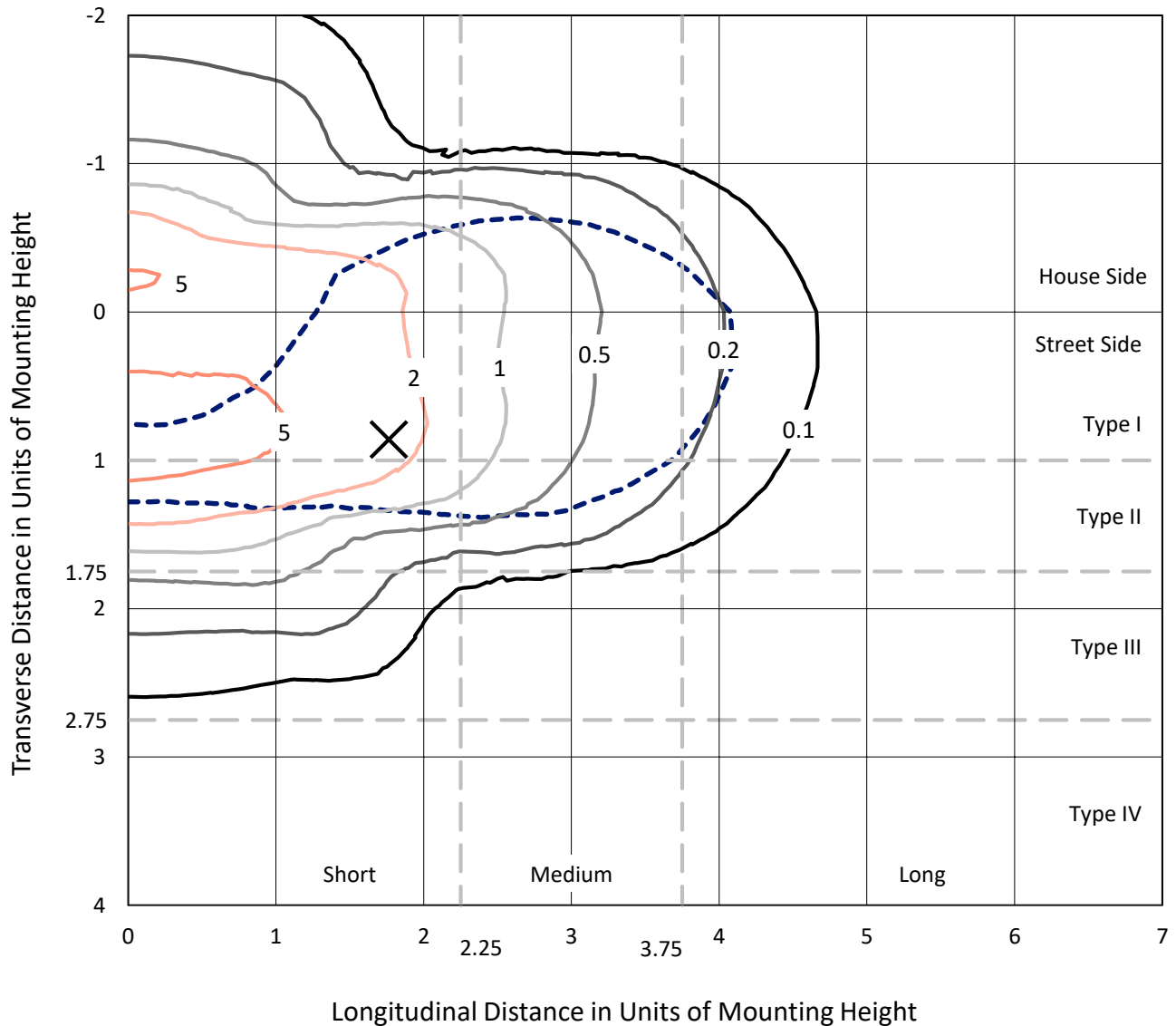


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

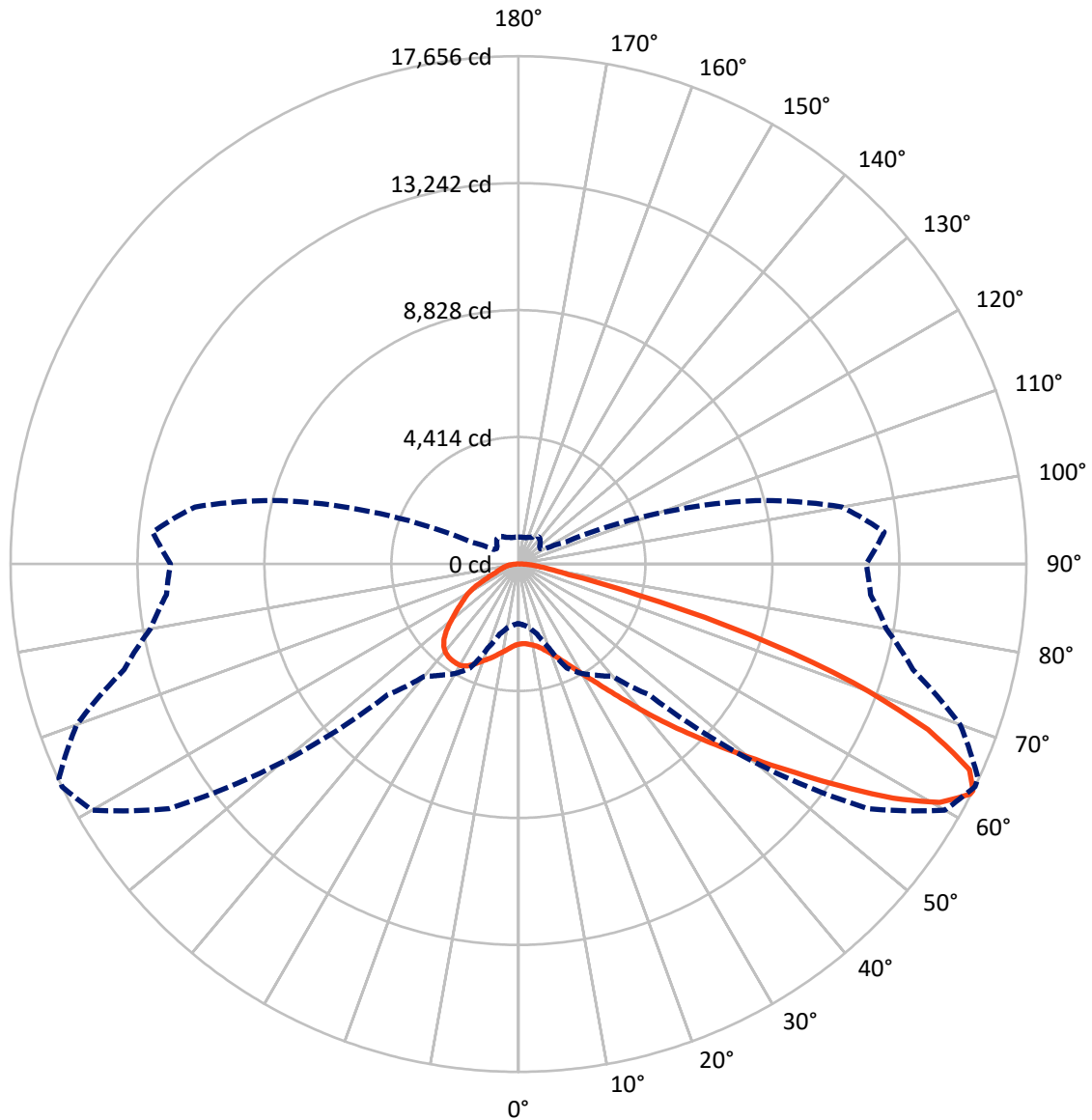


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7562.7 | 0.0 | 7562.7 |
| | % Fixture | 29.4 | 0.0 | 29.4 |
| Street Side | Lumens | 18163.9 | 0.0 | 18163.9 |
| | % Fixture | 70.6 | 0.0 | 70.6 |
| Total | Lumens | 25726.6 | 0.0 | 25726.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 278.2 | 1.1 |
| 10°-20° | 926.5 | 3.6 |
| 20°-30° | 1739.2 | 6.8 |
| 30°-40° | 2915.2 | 11.3 |
| 40°-50° | 4891.0 | 19.0 |
| 50°-60° | 6200.3 | 24.1 |
| 60°-70° | 5469.6 | 21.3 |
| 70°-80° | 2823.5 | 11.0 |
| 80°-90° | 483.1 | 1.9 |
| 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° | 25726.6 | 100.0 |
| 0°-180° | 25726.6 | 100.0 |



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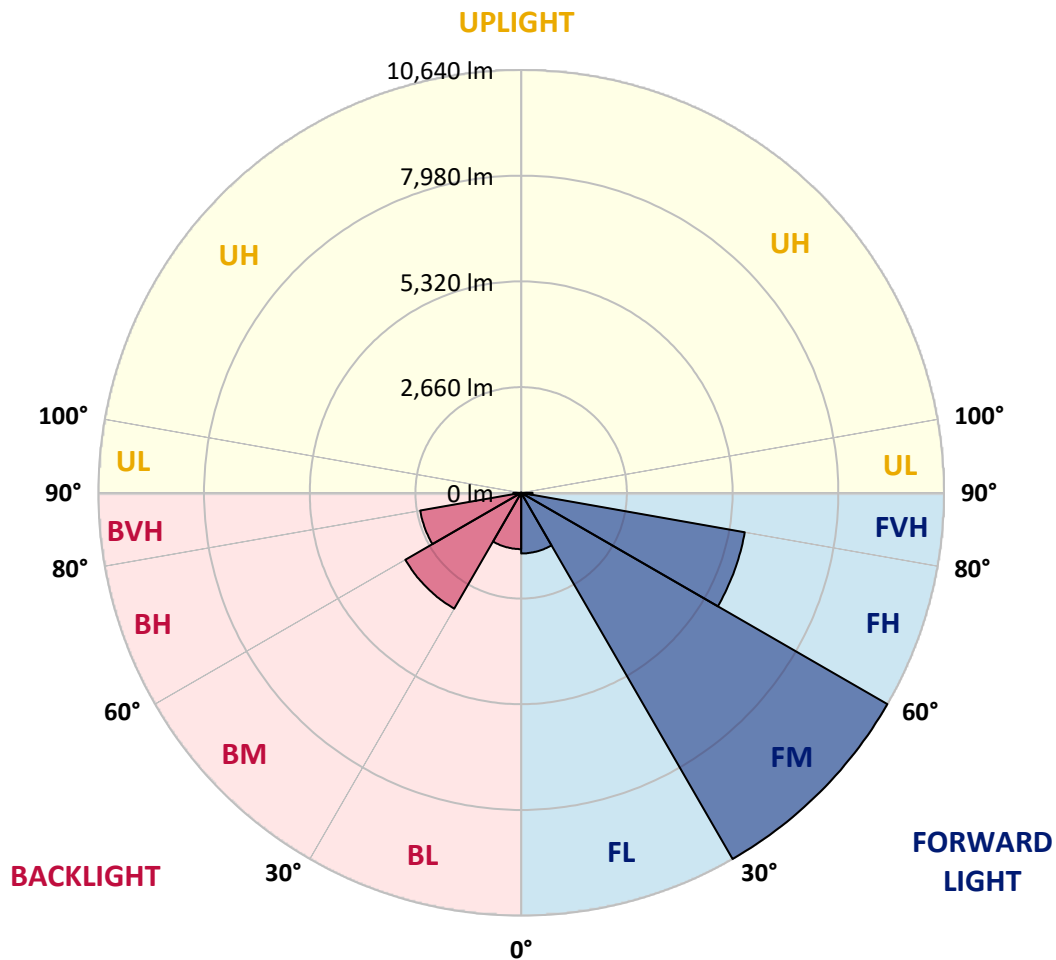
CATALOG NUMBER: ARCH-L-AF72-270-D-U-T2U-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1527.0 | 5.9 | | | |
| FM | (30°-60°) | 10639.9 | 41.4 | | | |
| FH | (60°-80°) | 5712.8 | 22.2 | | | G3/7500 |
| FVH | (80°-90°) | 284.3 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1417.0 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 3366.5 | 13.1 | B3/5000 | | |
| BH | (60°-80°) | 2580.3 | 10.0 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 198.8 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 |
| 2.5° | 2768.9 | 2764.7 | 2764.7 | 2764.7 | 2764.7 | 2760.3 | 2764.7 | 2773.2 | 2768.9 | 2764.7 | 2773.2 |
| 5° | 2777.6 | 2773.2 | 2773.2 | 2773.2 | 2777.6 | 2773.2 | 2777.6 | 2790.4 | 2782.0 | 2782.0 | 2790.4 |
| 7.5° | 2799.1 | 2794.7 | 2799.1 | 2794.7 | 2794.7 | 2794.7 | 2799.1 | 2812.1 | 2807.7 | 2812.1 | 2824.9 |
| 10° | 2824.9 | 2824.9 | 2824.9 | 2824.9 | 2824.9 | 2824.9 | 2833.6 | 2842.1 | 2846.5 | 2850.9 | 2868.0 |
| 12.5° | 2902.5 | 2902.5 | 2902.5 | 2898.1 | 2898.1 | 2885.3 | 2902.5 | 2911.0 | 2919.8 | 2928.2 | 2941.2 |
| 15° | 3066.1 | 3066.1 | 3061.9 | 3044.5 | 3044.5 | 3018.8 | 3023.1 | 3027.4 | 3027.4 | 3035.9 | 3044.5 |
| 17.5° | 3281.4 | 3277.0 | 3268.6 | 3255.5 | 3238.3 | 3208.1 | 3199.7 | 3191.0 | 3178.1 | 3173.7 | 3173.7 |
| 20° | 3582.8 | 3578.6 | 3561.3 | 3526.8 | 3505.4 | 3457.9 | 3423.5 | 3389.0 | 3376.1 | 3354.6 | 3350.3 |
| 22.5° | 4013.4 | 4013.4 | 3979.0 | 3927.4 | 3910.1 | 3811.1 | 3712.1 | 3638.9 | 3613.1 | 3582.8 | 3582.8 |
| 25° | 4534.6 | 4530.2 | 4482.8 | 4422.5 | 4349.4 | 4246.0 | 4125.5 | 4026.5 | 3961.9 | 3893.0 | 3867.1 |
| 27.5° | 5159.0 | 5146.0 | 5081.4 | 5008.2 | 4870.4 | 4741.3 | 4599.1 | 4495.7 | 4383.8 | 4297.8 | 4220.1 |
| 30° | 5891.1 | 5878.1 | 5766.1 | 5628.3 | 5486.2 | 5357.0 | 5150.3 | 5025.5 | 4849.0 | 4745.6 | 4659.4 |
| 32.5° | 6739.4 | 6726.5 | 6524.0 | 6390.5 | 6239.8 | 6080.4 | 5835.0 | 5637.0 | 5413.0 | 5266.7 | 5146.0 |
| 35° | 7820.3 | 7768.6 | 7480.0 | 7294.9 | 7058.1 | 6898.8 | 6640.4 | 6373.4 | 6110.6 | 5903.9 | 5727.4 |
| 37.5° | 8987.3 | 8926.9 | 8672.9 | 8397.3 | 8164.8 | 7971.0 | 7605.0 | 7269.1 | 6959.0 | 6674.8 | 6455.1 |
| 40° | 10206.0 | 10046.6 | 9775.4 | 9572.9 | 9413.6 | 9228.4 | 8845.2 | 8492.0 | 8005.4 | 7686.7 | 7355.1 |
| 42.5° | 11050.1 | 10895.0 | 10705.6 | 10572.0 | 10494.4 | 10352.3 | 10137.1 | 9831.3 | 9396.4 | 9405.0 | 8530.8 |
| 45° | 11605.6 | 11377.3 | 11248.0 | 11256.8 | 11286.8 | 11286.8 | 11248.0 | 11200.6 | 11011.2 | 11140.4 | 10408.3 |
| 47.5° | 11407.3 | 11256.8 | 11174.8 | 11347.1 | 11562.4 | 11777.8 | 12027.4 | 12298.9 | 12608.9 | 12974.8 | 12074.8 |
| 50° | 10244.7 | 10300.7 | 10339.4 | 10705.6 | 11166.2 | 11657.1 | 12230.0 | 12970.5 | 13836.1 | 14004.0 | 13569.2 |
| 52.5° | 8388.7 | 8509.3 | 8638.5 | 9198.3 | 9805.4 | 10653.8 | 11657.1 | 12880.2 | 14042.8 | 14727.5 | 14684.6 |
| 55° | 6515.4 | 6666.1 | 6941.7 | 7359.5 | 7841.8 | 8642.8 | 9883.0 | 11769.1 | 13582.2 | 14671.6 | 15334.7 |
| 57.5° | 4637.9 | 4857.6 | 5219.2 | 5800.5 | 6227.0 | 6679.1 | 7596.2 | 9689.2 | 11674.5 | 13702.7 | 15227.1 |
| 60° | 3083.3 | 3186.6 | 3423.5 | 4146.9 | 4866.1 | 5339.9 | 5990.1 | 6748.0 | 8371.5 | 11166.2 | 14116.1 |
| 62.5° | 2187.6 | 2256.5 | 2403.0 | 2730.2 | 3380.4 | 4237.5 | 4629.2 | 4978.0 | 5499.2 | 7182.8 | 11334.2 |
| 63° | 2067.0 | 2127.4 | 2247.9 | 2523.5 | 3109.2 | 3996.3 | 4396.8 | 4715.5 | 5094.4 | 6424.9 | 10722.7 |
| 65° | 1713.8 | 1739.7 | 1804.3 | 1937.9 | 2252.2 | 2988.7 | 3643.2 | 3836.9 | 3901.5 | 4129.8 | 6717.9 |
| 67.5° | 1446.9 | 1464.1 | 1485.6 | 1524.5 | 1649.3 | 1989.6 | 2717.3 | 2962.7 | 2889.5 | 2734.5 | 3320.1 |
| 70° | 1257.4 | 1270.4 | 1304.8 | 1352.2 | 1395.2 | 1481.3 | 1869.0 | 2235.0 | 2153.1 | 1942.1 | 2032.5 |
| 72.5° | 1003.3 | 1024.8 | 1063.7 | 1145.5 | 1231.5 | 1343.5 | 1438.2 | 1666.5 | 1614.9 | 1412.5 | 1434.1 |
| 75° | 792.3 | 805.3 | 839.7 | 900.0 | 981.8 | 1111.1 | 1296.3 | 1373.7 | 1231.5 | 1042.2 | 1042.2 |
| 77.5° | 628.8 | 641.6 | 671.8 | 719.2 | 770.8 | 861.2 | 990.4 | 1192.9 | 1106.7 | 783.7 | 779.4 |
| 80° | 473.6 | 486.6 | 516.7 | 559.9 | 611.4 | 676.1 | 753.6 | 844.0 | 1016.3 | 732.1 | 585.6 |
| 82.5° | 348.8 | 353.2 | 404.7 | 434.9 | 452.1 | 503.8 | 568.4 | 620.1 | 697.7 | 676.1 | 521.0 |
| 85° | 262.7 | 258.4 | 292.8 | 314.3 | 318.7 | 331.6 | 370.3 | 422.1 | 456.5 | 439.2 | 404.7 |
| 87.5° | 146.5 | 129.1 | 150.7 | 172.2 | 172.2 | 176.5 | 185.2 | 215.4 | 245.4 | 236.9 | 215.4 |
| 90° | 0.0 | 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):

| | 55° | 60° | 64° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 |
| 2.5° | 2773.2 | 2773.2 | 2768.9 | 2768.9 | 2773.2 | 2773.2 | 2768.9 | 2782.0 | 2790.4 | 2790.4 | 2794.7 |
| 5° | 2786.2 | 2790.4 | 2786.2 | 2786.2 | 2790.4 | 2790.4 | 2794.7 | 2807.7 | 2820.6 | 2829.2 | 2842.1 |
| 7.5° | 2824.9 | 2829.2 | 2824.9 | 2824.9 | 2829.2 | 2833.6 | 2842.1 | 2859.3 | 2868.0 | 2885.3 | 2906.7 |
| 10° | 2868.0 | 2872.3 | 2868.0 | 2872.3 | 2876.6 | 2881.0 | 2893.8 | 2906.7 | 2919.8 | 2936.9 | 2971.4 |
| 12.5° | 2945.5 | 2949.9 | 2941.2 | 2945.5 | 2958.5 | 2958.5 | 2967.0 | 2975.6 | 2997.1 | 3018.8 | 3053.2 |
| 15° | 3053.2 | 3053.2 | 3044.5 | 3048.8 | 3061.9 | 3061.9 | 3066.1 | 3074.7 | 3100.5 | 3126.5 | 3160.9 |
| 17.5° | 3178.1 | 3186.6 | 3182.3 | 3186.6 | 3195.4 | 3199.7 | 3199.7 | 3208.1 | 3225.5 | 3242.6 | 3277.0 |
| 20° | 3345.9 | 3350.3 | 3341.7 | 3350.3 | 3358.9 | 3350.3 | 3341.7 | 3337.5 | 3345.9 | 3354.6 | 3393.3 |
| 22.5° | 3574.3 | 3570.0 | 3548.3 | 3548.3 | 3548.3 | 3531.1 | 3509.7 | 3483.7 | 3483.7 | 3471.0 | 3501.1 |
| 25° | 3845.6 | 3832.6 | 3802.4 | 3806.7 | 3776.7 | 3750.9 | 3712.1 | 3673.3 | 3638.9 | 3625.9 | 3630.2 |
| 27.5° | 4164.3 | 4138.3 | 4108.2 | 4099.7 | 4069.4 | 4022.2 | 3957.6 | 3884.4 | 3828.2 | 3785.3 | 3776.7 |
| 30° | 4564.6 | 4508.8 | 4457.0 | 4448.3 | 4401.1 | 4323.5 | 4220.1 | 4121.2 | 4026.5 | 3953.3 | 3927.4 |
| 32.5° | 5038.4 | 4952.3 | 4870.4 | 4861.8 | 4784.4 | 4681.0 | 4556.1 | 4418.3 | 4280.5 | 4164.3 | 4108.2 |
| 35° | 5593.8 | 5464.7 | 5387.1 | 5365.7 | 5253.6 | 5124.6 | 4986.8 | 4810.2 | 4616.4 | 4452.7 | 4349.4 |
| 37.5° | 6270.0 | 6136.5 | 6003.1 | 6007.2 | 5852.3 | 5701.5 | 5516.4 | 5301.1 | 5055.7 | 4827.4 | 4681.0 |
| 40° | 7105.5 | 6916.0 | 6743.7 | 6704.9 | 6571.5 | 6360.4 | 6158.1 | 5908.2 | 5606.9 | 5305.4 | 5094.4 |
| 42.5° | 8117.4 | 7807.3 | 7570.5 | 7536.1 | 7359.5 | 7101.1 | 6855.7 | 6524.0 | 6218.2 | 5852.3 | 5598.1 |
| 45° | 9267.2 | 8771.9 | 8487.7 | 8436.1 | 8151.8 | 7889.2 | 7592.0 | 7238.9 | 6864.3 | 6450.9 | 6149.3 |
| 47.5° | 10696.8 | 9990.6 | 9508.3 | 9422.2 | 9030.3 | 8685.8 | 8375.7 | 7983.9 | 7536.1 | 7075.3 | 6743.7 |
| 50° | 12363.5 | 11321.2 | 10671.1 | 10537.5 | 10012.1 | 9607.4 | 9211.2 | 8720.2 | 8242.3 | 7760.0 | 7376.7 |
| 52.5° | 14034.2 | 12914.7 | 12049.1 | 11885.5 | 11110.2 | 10567.8 | 10046.6 | 9555.7 | 8991.6 | 8513.5 | 8078.6 |
| 55° | 15377.8 | 14632.9 | 13629.4 | 13401.3 | 12290.3 | 11553.8 | 10869.1 | 10309.3 | 9749.5 | 9370.5 | 8858.0 |
| 57.5° | 16187.4 | 16148.7 | 15356.3 | 15041.8 | 13521.7 | 12432.4 | 11670.2 | 11032.8 | 10490.1 | 10330.8 | 9650.4 |
| 60° | 16165.9 | 17169.2 | 16829.0 | 16592.2 | 14766.2 | 13332.4 | 12341.9 | 11652.9 | 11205.0 | 11385.8 | 10447.1 |
| 62.5° | 15179.6 | 17212.3 | 17621.4 | 17556.8 | 16092.6 | 14055.8 | 12893.1 | 12182.5 | 11945.8 | 12483.9 | 11273.9 |
| 63° | 14822.4 | 17113.3 | 17655.8 | 17630.0 | 16346.7 | 14193.6 | 12987.9 | 12285.8 | 12092.2 | 12763.8 | 11424.6 |
| 65° | 12527.0 | 16247.6 | 17238.1 | 17354.4 | 16893.6 | 14667.3 | 13207.4 | 12548.6 | 12527.0 | 13388.2 | 11782.1 |
| 67.5° | 7635.1 | 13728.4 | 15356.3 | 15580.3 | 16122.8 | 14818.0 | 13082.6 | 12458.1 | 12768.1 | 13478.7 | 11674.5 |
| 70° | 3264.3 | 9060.5 | 12341.9 | 12703.7 | 14030.0 | 14068.6 | 12725.1 | 12087.9 | 12712.3 | 12772.6 | 10907.8 |
| 72.5° | 1933.5 | 4271.9 | 8401.6 | 9189.7 | 11101.7 | 12105.0 | 11906.9 | 11441.8 | 11975.8 | 11217.9 | 9288.7 |
| 75° | 1369.3 | 1998.1 | 4267.6 | 5107.3 | 7729.8 | 9241.4 | 10003.5 | 10218.8 | 10197.3 | 8896.9 | 6971.9 |
| 77.5° | 981.8 | 1283.3 | 1800.1 | 2123.1 | 4314.9 | 5934.2 | 6864.3 | 7492.9 | 7290.6 | 5955.7 | 4297.8 |
| 80° | 684.7 | 887.0 | 1102.4 | 1171.3 | 2002.4 | 3048.8 | 3617.2 | 3893.0 | 3772.3 | 2975.6 | 1924.9 |
| 82.5° | 495.2 | 581.4 | 710.5 | 753.6 | 1007.7 | 1408.2 | 1675.2 | 1477.1 | 1416.7 | 1098.1 | 831.1 |
| 85° | 383.2 | 374.7 | 443.6 | 460.8 | 589.9 | 736.4 | 753.6 | 585.6 | 512.5 | 456.5 | 465.1 |
| 87.5° | 271.3 | 232.5 | 236.9 | 245.4 | 305.8 | 391.9 | 383.2 | 241.1 | 206.7 | 219.6 | 249.8 |
| 90° | 0.0 | 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):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 | 2786.2 |
| 2.5° | 2803.4 | 2807.7 | 2816.4 | 2820.6 | 2829.2 | 2829.2 | 2837.8 | 2842.1 | 2850.9 | 2859.3 | 2863.6 |
| 5° | 2855.1 | 2868.0 | 2885.3 | 2893.8 | 2911.0 | 2924.1 | 2941.2 | 2949.9 | 2967.0 | 2979.9 | 2997.1 |
| 7.5° | 2932.5 | 2954.2 | 2975.6 | 3001.4 | 3027.4 | 3048.8 | 3066.1 | 3087.7 | 3117.7 | 3139.2 | 3152.2 |
| 10° | 3005.8 | 3035.9 | 3074.7 | 3104.8 | 3143.6 | 3173.7 | 3199.7 | 3238.3 | 3272.7 | 3303.0 | 3320.1 |
| 12.5° | 3100.5 | 3139.2 | 3178.1 | 3225.5 | 3277.0 | 3315.9 | 3354.6 | 3406.4 | 3453.7 | 3488.1 | 3505.4 |
| 15° | 3212.5 | 3259.9 | 3303.0 | 3358.9 | 3419.2 | 3471.0 | 3526.8 | 3582.8 | 3617.2 | 3617.2 | 3608.8 |
| 17.5° | 3328.8 | 3367.6 | 3419.2 | 3483.7 | 3565.6 | 3630.2 | 3660.4 | 3668.9 | 3656.0 | 3625.9 | 3604.4 |
| 20° | 3445.0 | 3479.4 | 3535.5 | 3613.1 | 3699.1 | 3712.1 | 3682.0 | 3643.2 | 3604.4 | 3552.6 | 3518.2 |
| 22.5° | 3539.9 | 3587.1 | 3673.3 | 3763.7 | 3768.0 | 3694.8 | 3613.1 | 3548.3 | 3488.1 | 3427.8 | 3363.3 |
| 25° | 3651.7 | 3716.4 | 3832.6 | 3867.1 | 3755.1 | 3617.2 | 3501.1 | 3406.4 | 3307.2 | 3208.1 | 3134.9 |
| 27.5° | 3789.5 | 3884.4 | 4000.5 | 3901.5 | 3682.0 | 3488.1 | 3328.8 | 3186.6 | 3057.6 | 2919.8 | 2837.8 |
| 30° | 3936.0 | 4082.3 | 4108.2 | 3849.9 | 3557.0 | 3307.2 | 3092.0 | 2876.6 | 2713.1 | 2588.0 | 2540.8 |
| 32.5° | 4112.5 | 4302.1 | 4146.9 | 3759.3 | 3389.0 | 3061.9 | 2773.2 | 2514.8 | 2377.1 | 2299.7 | 2278.0 |
| 35° | 4379.4 | 4534.6 | 4168.6 | 3664.6 | 3195.4 | 2768.9 | 2407.2 | 2200.5 | 2114.4 | 2062.7 | 2036.8 |
| 37.5° | 4762.8 | 4758.4 | 4164.3 | 3548.3 | 2971.4 | 2450.2 | 2114.4 | 1967.9 | 1899.0 | 1856.0 | 1808.6 |
| 40° | 5210.6 | 4930.7 | 4138.3 | 3380.4 | 2669.9 | 2144.6 | 1912.0 | 1774.2 | 1709.7 | 1657.9 | 1601.9 |
| 42.5° | 5654.2 | 5046.9 | 4065.2 | 3130.8 | 2295.3 | 1924.9 | 1765.6 | 1640.8 | 1571.9 | 1515.8 | 1438.2 |
| 45° | 6037.5 | 5094.4 | 3923.1 | 2786.2 | 1959.4 | 1752.7 | 1670.8 | 1563.2 | 1481.3 | 1395.2 | 1334.9 |
| 47.5° | 6338.9 | 5085.8 | 3694.8 | 2381.3 | 1735.4 | 1632.1 | 1593.4 | 1520.1 | 1421.1 | 1313.4 | 1235.9 |
| 50° | 6592.9 | 5021.2 | 3384.8 | 2024.1 | 1584.7 | 1524.5 | 1511.5 | 1490.0 | 1330.7 | 1240.2 | 1192.9 |
| 52.5° | 6825.5 | 4926.5 | 3053.2 | 1782.7 | 1455.6 | 1403.8 | 1429.7 | 1408.2 | 1296.3 | 1218.7 | 1171.3 |
| 55° | 7144.2 | 4861.8 | 2725.8 | 1597.6 | 1304.8 | 1291.9 | 1313.4 | 1343.5 | 1274.7 | 1201.5 | 1149.8 |
| 57.5° | 7518.9 | 4896.3 | 2476.1 | 1390.9 | 1162.6 | 1171.3 | 1244.5 | 1287.6 | 1253.1 | 1175.6 | 1124.0 |
| 60° | 7949.5 | 4999.6 | 2256.5 | 1192.9 | 1046.4 | 1067.9 | 1175.6 | 1235.9 | 1231.5 | 1141.1 | 1080.9 |
| 62.5° | 8431.8 | 5107.3 | 1907.7 | 1042.2 | 947.4 | 981.8 | 1093.7 | 1171.3 | 1184.2 | 1106.7 | 1033.5 |
| 63° | 8526.5 | 5115.8 | 1817.2 | 1012.0 | 930.1 | 968.9 | 1072.2 | 1154.1 | 1171.3 | 1098.1 | 1024.8 |
| 65° | 8759.1 | 5038.4 | 1464.1 | 930.1 | 861.2 | 904.4 | 1007.7 | 1080.9 | 1115.3 | 1050.7 | 990.4 |
| 67.5° | 8565.2 | 4405.4 | 1102.4 | 831.1 | 805.3 | 835.5 | 925.9 | 994.8 | 1024.8 | 994.8 | 934.4 |
| 70° | 7833.2 | 3203.9 | 861.2 | 740.7 | 745.0 | 766.6 | 835.5 | 900.0 | 934.4 | 925.9 | 869.9 |
| 72.5° | 6308.7 | 1817.2 | 719.2 | 663.2 | 676.1 | 701.9 | 749.2 | 809.6 | 839.7 | 835.5 | 796.6 |
| 75° | 4155.6 | 930.1 | 607.2 | 594.3 | 602.9 | 624.4 | 658.8 | 706.2 | 740.7 | 736.4 | 719.2 |
| 77.5° | 2058.5 | 645.9 | 521.0 | 525.4 | 529.7 | 546.9 | 572.7 | 615.8 | 637.3 | 641.6 | 637.3 |
| 80° | 848.3 | 503.8 | 447.9 | 452.1 | 456.5 | 469.4 | 486.6 | 525.4 | 538.3 | 546.9 | 551.2 |
| 82.5° | 508.1 | 383.2 | 357.4 | 366.0 | 370.3 | 383.2 | 396.2 | 430.6 | 443.6 | 456.5 | 456.5 |
| 85° | 335.8 | 266.9 | 258.4 | 266.9 | 275.6 | 284.3 | 288.5 | 310.1 | 331.6 | 348.8 | 357.4 |
| 87.5° | 180.9 | 159.3 | 155.0 | 159.3 | 159.3 | 168.0 | 176.5 | 198.0 | 223.9 | 241.1 | 249.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 2.5° | 2855.1 | 2859.3 | 2855.1 | 2859.3 | 2863.6 |
| 5° | 2997.1 | 3005.8 | 3001.4 | 3001.4 | 3018.8 |
| 7.5° | 3160.9 | 3178.1 | 3178.1 | 3186.6 | 3195.4 |
| 10° | 3337.5 | 3354.6 | 3367.6 | 3367.6 | 3380.4 |
| 12.5° | 3513.9 | 3522.6 | 3535.5 | 3535.5 | 3535.5 |
| 15° | 3604.4 | 3600.0 | 3595.7 | 3591.5 | 3591.5 |
| 17.5° | 3591.5 | 3574.3 | 3565.6 | 3557.0 | 3561.3 |
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| 35° | 2049.8 | 2028.3 | 2049.8 | 2041.2 | 2067.0 |
| 37.5° | 1787.1 | 1769.9 | 1752.7 | 1731.2 | 1748.3 |
| 40° | 1567.5 | 1537.4 | 1485.6 | 1459.8 | 1464.1 |
| 42.5° | 1395.2 | 1356.5 | 1313.4 | 1287.6 | 1287.6 |
| 45° | 1283.3 | 1235.9 | 1197.1 | 1180.0 | 1180.0 |
| 47.5° | 1197.1 | 1175.6 | 1154.1 | 1141.1 | 1141.1 |
| 50° | 1162.6 | 1136.8 | 1124.0 | 1115.3 | 1115.3 |
| 52.5° | 1136.8 | 1111.1 | 1098.1 | 1089.6 | 1080.9 |
| 55° | 1115.3 | 1076.6 | 1063.7 | 1059.3 | 1059.3 |
| 57.5° | 1085.2 | 1050.7 | 1033.5 | 1029.2 | 1029.2 |
| 60° | 1037.8 | 1012.0 | 994.8 | 990.4 | 990.4 |
| 62.5° | 990.4 | 964.6 | 947.4 | 947.4 | 947.4 |
| 63° | 981.8 | 951.7 | 938.8 | 938.8 | 938.8 |
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| 75° | 701.9 | 676.1 | 658.8 | 654.5 | 637.3 |
| 77.5° | 624.4 | 602.9 | 585.6 | 568.4 | 559.9 |
| 80° | 542.5 | 525.4 | 503.8 | 491.0 | 478.0 |
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| 85° | 357.4 | 340.2 | 323.0 | 348.8 | 271.3 |
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