

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: P268932

Luminaire Tested: **GAN-AF-10-LED-U-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SLL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49346.9 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

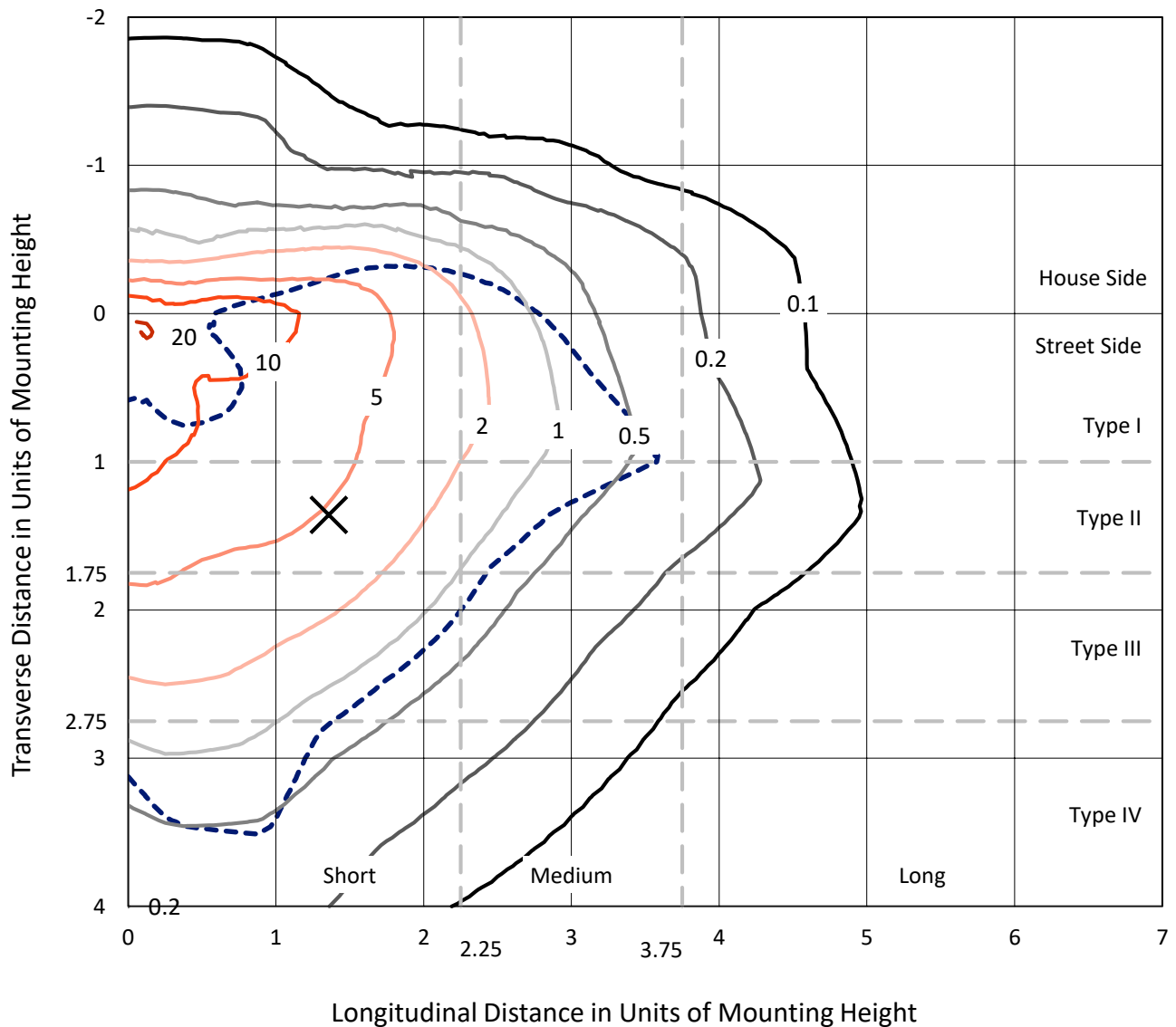


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

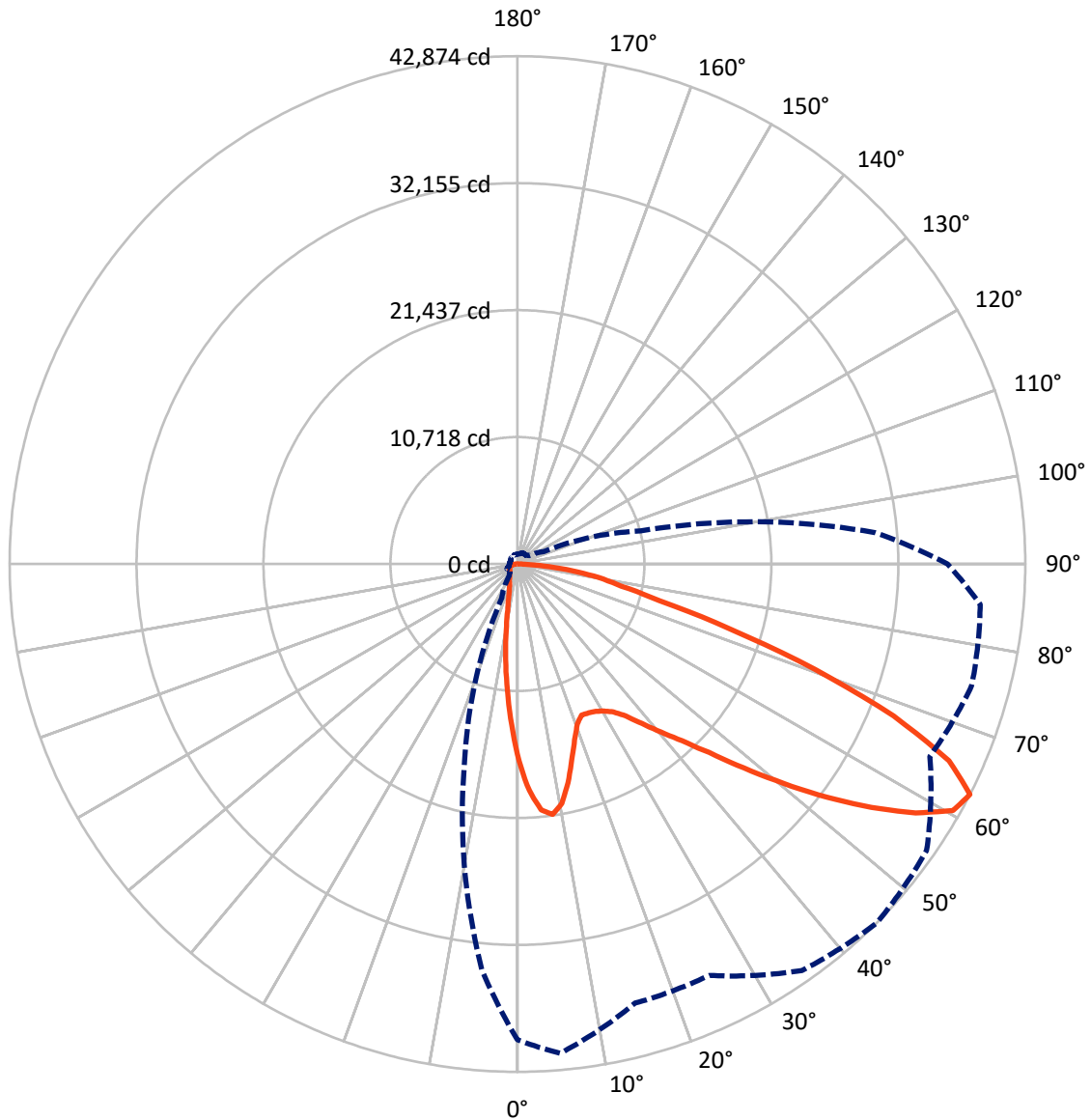


Based on 30 foot mounting height. Maximum calculated value = 21.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8166.2 | 0.0 | 8166.2 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 41180.7 | 0.0 | 41180.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 49346.9 | 0.0 | 49346.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1213.7 | 2.5 |
| 10°-20° | 2225.5 | 4.5 |
| 20°-30° | 3244.8 | 6.6 |
| 30°-40° | 4997.4 | 10.1 |
| 40°-50° | 7354.9 | 14.9 |
| 50°-60° | 10788.1 | 21.9 |
| 60°-70° | 12059.5 | 24.4 |
| 70°-80° | 5904.2 | 12.0 |
| 80°-90° | 1558.8 | 3.2 |
| 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° | 49346.9 | 100.0 |
| 0°-180° | 49346.9 | 100.0 |

Coefficient of Utilization



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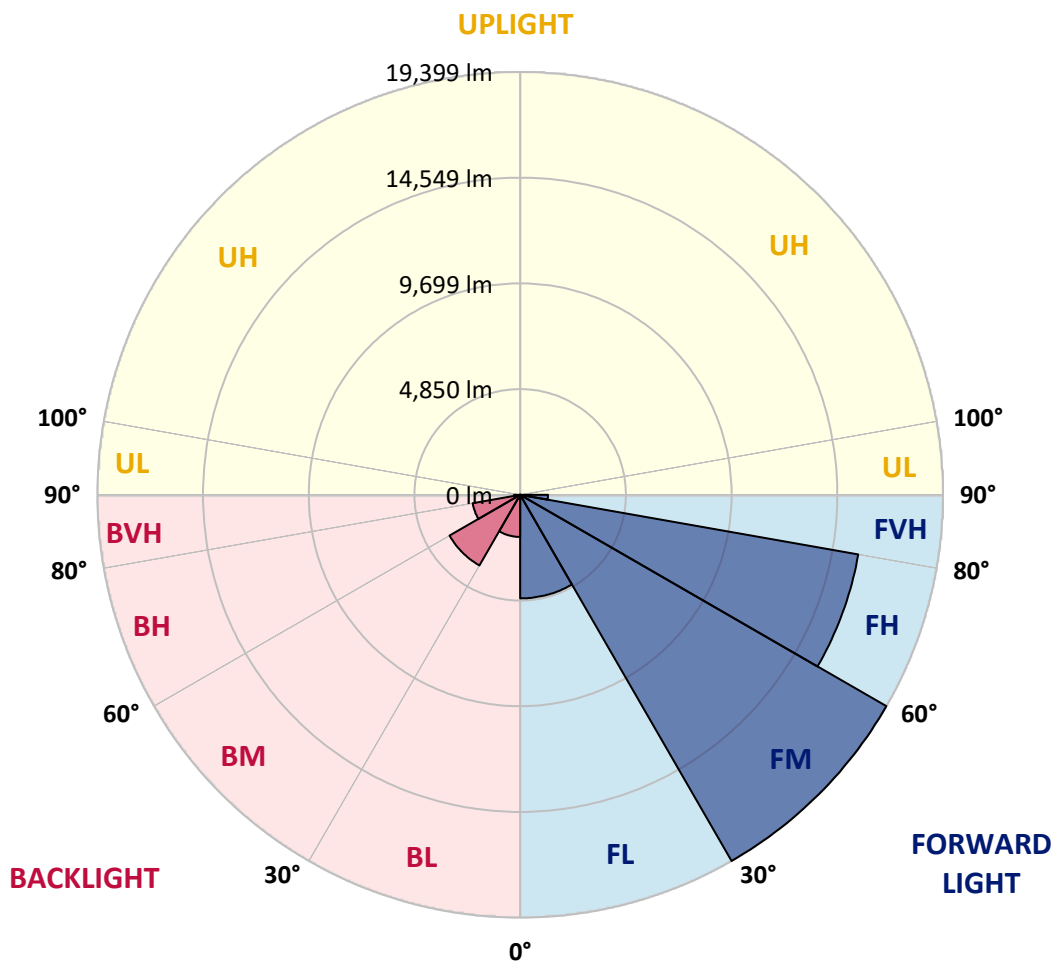
CATALOG NUMBER: GAN-AF-10-LED-U-SLL-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4751.9 | 9.6 | | | |
| FM | (30°-60°) | 19398.7 | 39.3 | | | |
| FH | (60°-80°) | 15749.8 | 31.9 | | | G5 |
| FVH | (80°-90°) | 1280.2 | 2.6 | | | G5 |
| BL | (0°-30°) | 1932.0 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 3741.7 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 2213.9 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 278.7 | 0.6 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 |
| 2.5° | 17323.0 | 17599.9 | 18139.7 | 18543.8 | 19034.7 | 19148.7 | 19306.1 | 19151.4 | 18877.4 | 18514.0 | 18394.7 |
| 5° | 16289.5 | 16880.9 | 18191.1 | 19344.0 | 20369.3 | 20846.8 | 20979.7 | 20586.5 | 19791.5 | 18747.3 | 18109.8 |
| 7.5° | 14632.1 | 15473.0 | 17247.2 | 18945.3 | 20456.3 | 21348.7 | 21327.0 | 20412.8 | 18950.7 | 17249.9 | 16227.2 |
| 10° | 13202.6 | 14162.9 | 16197.2 | 18096.1 | 19699.4 | 20564.7 | 20231.1 | 19061.9 | 17317.6 | 15359.1 | 14249.6 |
| 12.5° | 12402.3 | 13343.7 | 15408.0 | 17314.9 | 18655.0 | 18953.3 | 18698.4 | 17553.7 | 15909.8 | 13929.6 | 12958.4 |
| 15° | 12264.0 | 13297.5 | 15093.3 | 16645.0 | 17396.3 | 17135.9 | 16832.1 | 16319.4 | 15158.4 | 13468.4 | 12456.5 |
| 17.5° | 12863.5 | 14002.8 | 15454.0 | 16178.4 | 16050.8 | 15597.8 | 15511.0 | 15567.9 | 15288.7 | 13981.1 | 12814.6 |
| 20° | 14013.6 | 15380.8 | 16313.9 | 15958.6 | 15028.1 | 14404.2 | 14425.9 | 15296.7 | 16124.0 | 15280.4 | 13948.5 |
| 22.5° | 15627.6 | 17187.5 | 17553.7 | 16075.3 | 14596.9 | 13856.3 | 14035.4 | 15445.9 | 17456.0 | 17179.4 | 15478.4 |
| 25° | 17716.5 | 19137.9 | 18874.7 | 16498.5 | 14640.2 | 13924.1 | 14067.8 | 15961.4 | 19029.3 | 19078.3 | 17372.0 |
| 27.5° | 19740.1 | 21058.4 | 19984.2 | 17059.9 | 14819.2 | 14084.2 | 14274.1 | 16772.4 | 20532.2 | 21139.9 | 19536.6 |
| 30° | 21318.8 | 22235.7 | 20423.7 | 17572.6 | 15172.0 | 14396.1 | 14632.1 | 17542.8 | 21215.8 | 22531.4 | 21202.2 |
| 32.5° | 22626.4 | 23285.5 | 21123.6 | 18207.4 | 15820.3 | 14887.2 | 15302.2 | 18478.7 | 22200.4 | 23855.2 | 22832.5 |
| 35° | 24297.4 | 24484.6 | 21994.3 | 18915.4 | 16821.2 | 15741.5 | 16256.9 | 19395.6 | 23139.0 | 25192.5 | 24438.4 |
| 37.5° | 26255.9 | 26014.5 | 22816.2 | 19883.9 | 18115.2 | 17078.9 | 17504.8 | 20401.9 | 23912.2 | 26708.9 | 26079.6 |
| 40° | 28192.8 | 27612.2 | 23847.0 | 21386.7 | 20003.2 | 18655.0 | 19159.6 | 21476.1 | 24633.7 | 28228.0 | 27682.8 |
| 42.5° | 29839.3 | 28979.4 | 24864.2 | 23038.7 | 21761.0 | 20393.9 | 20996.1 | 22558.5 | 25322.7 | 29524.7 | 29074.4 |
| 45° | 31057.3 | 29988.6 | 25832.6 | 24625.5 | 24183.5 | 22705.0 | 22989.9 | 23798.2 | 26068.8 | 30607.1 | 30219.2 |
| 47.5° | 32145.0 | 31003.1 | 26928.6 | 26226.0 | 26302.1 | 25710.7 | 25252.3 | 25241.4 | 26947.6 | 31491.3 | 31301.5 |
| 50° | 33601.8 | 32410.9 | 28105.9 | 27875.3 | 29481.3 | 29087.9 | 28076.0 | 26925.9 | 28059.8 | 32495.0 | 32473.3 |
| 52.5° | 35609.2 | 34640.8 | 29543.6 | 29652.2 | 32448.9 | 32706.6 | 31453.3 | 28949.6 | 29801.4 | 34337.0 | 34206.6 |
| 55° | 37982.8 | 37418.4 | 31502.2 | 31694.8 | 36089.2 | 36273.7 | 35028.7 | 31480.6 | 32362.1 | 37003.5 | 36642.8 |
| 57.5° | 39835.5 | 39716.1 | 33650.6 | 34147.0 | 38807.4 | 39637.5 | 38492.7 | 34410.1 | 35248.5 | 39249.6 | 38343.6 |
| 60° | 40573.3 | 41151.1 | 35937.5 | 36621.1 | 41322.0 | 42241.7 | 41238.0 | 36984.5 | 37806.4 | 40180.0 | 38227.0 |
| 62.5° | 40174.5 | 41465.9 | 38373.3 | 38316.5 | 41883.6 | 42873.6 | 42168.3 | 38416.7 | 39702.6 | 39219.7 | 36292.8 |
| 65° | 38332.7 | 40334.6 | 39786.7 | 37879.6 | 39963.0 | 40044.4 | 39816.6 | 37776.7 | 40150.1 | 36184.3 | 32554.8 |
| 67.5° | 34320.6 | 37201.5 | 37925.8 | 34136.2 | 34781.8 | 34252.8 | 33870.4 | 34271.9 | 37817.2 | 31635.2 | 27359.9 |
| 70° | 27954.0 | 32288.9 | 32636.1 | 27302.9 | 27010.0 | 26654.7 | 25892.3 | 28097.7 | 33213.9 | 25927.7 | 21709.5 |
| 72.5° | 20553.8 | 25111.2 | 26177.1 | 20024.8 | 18668.5 | 18741.8 | 18139.7 | 21175.0 | 27004.6 | 19259.9 | 16208.2 |
| 75° | 14062.4 | 18183.0 | 20480.6 | 13973.0 | 12345.3 | 12375.2 | 12299.2 | 15003.8 | 21508.7 | 13398.0 | 12128.3 |
| 77.5° | 10272.8 | 12991.0 | 15445.9 | 9393.9 | 9120.0 | 8951.8 | 8911.0 | 10498.0 | 16490.2 | 9727.7 | 9418.4 |
| 80° | 8243.7 | 9597.4 | 10376.0 | 6510.3 | 7001.4 | 6987.8 | 6762.7 | 7218.4 | 10769.3 | 7115.4 | 7044.8 |
| 82.5° | 5718.3 | 7375.8 | 8406.6 | 5102.6 | 4725.4 | 4646.8 | 4701.1 | 5376.4 | 7611.8 | 4863.9 | 4625.2 |
| 85° | 3016.5 | 4899.0 | 8325.2 | 4522.0 | 2804.9 | 2237.9 | 2783.2 | 4402.7 | 6594.5 | 2577.1 | 2256.9 |
| 87.5° | 385.3 | 1416.0 | 5512.1 | 1803.9 | 1106.8 | 596.7 | 1321.0 | 2479.4 | 4234.5 | 526.2 | 458.5 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 |
| 2.5° | 18088.0 | 17727.3 | 17255.3 | 16818.5 | 16365.5 | 15915.2 | 15326.5 | 14957.7 | 14702.6 | 14653.8 | 14545.4 |
| 5° | 17648.6 | 16449.7 | 15543.6 | 14759.6 | 14049.0 | 13045.2 | 12489.1 | 12027.9 | 11781.1 | 11756.7 | 11697.0 |
| 7.5° | 15622.2 | 13967.6 | 12744.2 | 11634.6 | 10628.2 | 9817.1 | 8922.0 | 8504.3 | 8333.2 | 8374.0 | 8414.8 |
| 10° | 13514.6 | 11664.5 | 10259.4 | 9125.4 | 8238.4 | 7554.7 | 6835.9 | 6350.4 | 6014.1 | 5946.2 | 5932.5 |
| 12.5° | 11973.7 | 9944.6 | 8580.3 | 7780.0 | 7093.6 | 6450.6 | 5688.4 | 5116.0 | 4679.4 | 4530.2 | 4429.8 |
| 15° | 11322.6 | 9103.8 | 7674.1 | 6811.5 | 6054.7 | 5238.1 | 4530.2 | 3930.7 | 3529.3 | 3398.9 | 3325.7 |
| 17.5° | 11461.0 | 8870.5 | 7050.2 | 5946.2 | 4977.8 | 4125.9 | 3233.4 | 2720.7 | 2479.4 | 2417.0 | 2417.0 |
| 20° | 12188.1 | 8827.0 | 6534.8 | 5148.6 | 3941.6 | 2954.0 | 2221.7 | 1928.8 | 1850.0 | 1842.0 | 1863.7 |
| 22.5° | 13208.0 | 8978.9 | 6149.5 | 4456.9 | 3062.6 | 2156.7 | 1730.7 | 1622.2 | 1586.9 | 1595.0 | 1619.5 |
| 25° | 14727.1 | 9491.6 | 5870.2 | 3841.2 | 2403.4 | 1766.0 | 1543.5 | 1478.4 | 1462.1 | 1483.8 | 1513.6 |
| 27.5° | 16528.3 | 10004.3 | 5696.6 | 3377.3 | 2029.1 | 1614.1 | 1467.6 | 1399.6 | 1410.6 | 1437.6 | 1464.9 |
| 30° | 18109.8 | 10424.8 | 5422.6 | 3046.3 | 1912.4 | 1622.2 | 1467.6 | 1375.3 | 1364.4 | 1369.8 | 1378.0 |
| 32.5° | 19528.4 | 10709.7 | 5102.6 | 2731.7 | 1649.3 | 1440.4 | 1369.8 | 1356.4 | 1296.7 | 1275.0 | 1277.7 |
| 35° | 20751.8 | 10709.7 | 4910.0 | 2547.2 | 1478.4 | 1277.7 | 1163.8 | 1095.9 | 1066.1 | 1068.9 | 1098.6 |
| 37.5° | 21931.8 | 10495.3 | 4814.9 | 2444.1 | 1386.2 | 1215.2 | 1114.8 | 1055.1 | 1014.5 | 1006.5 | 1011.9 |
| 40° | 22973.6 | 10183.4 | 4706.5 | 2400.7 | 1315.7 | 1177.3 | 1082.4 | 1033.5 | 990.1 | 976.5 | 979.2 |
| 42.5° | 23809.0 | 9931.1 | 4587.1 | 2343.8 | 1272.2 | 1150.2 | 1060.7 | 1017.2 | 968.5 | 954.9 | 952.2 |
| 45° | 24712.5 | 9847.0 | 4429.8 | 2229.9 | 1294.0 | 1152.9 | 1055.1 | 1009.2 | 960.3 | 943.9 | 938.5 |
| 47.5° | 25903.3 | 10110.2 | 4266.9 | 2094.2 | 1340.0 | 1166.4 | 1063.4 | 1009.2 | 957.6 | 943.9 | 938.5 |
| 50° | 27403.3 | 10728.5 | 4060.9 | 1896.1 | 1294.0 | 1204.4 | 1060.7 | 1001.0 | 957.6 | 943.9 | 933.2 |
| 52.5° | 29329.3 | 11564.2 | 3789.6 | 1668.3 | 1266.8 | 1296.7 | 1055.1 | 984.7 | 943.9 | 925.1 | 906.0 |
| 55° | 31670.4 | 12247.8 | 3466.7 | 1481.1 | 1204.4 | 1272.2 | 1047.1 | 965.7 | 922.3 | 895.3 | 878.9 |
| 57.5° | 33384.8 | 12494.5 | 3051.7 | 1359.0 | 1117.6 | 1231.5 | 1036.3 | 941.3 | 895.3 | 873.5 | 851.8 |
| 60° | 33045.7 | 12017.2 | 2701.8 | 1283.0 | 1066.1 | 1112.2 | 1028.1 | 919.5 | 870.7 | 854.5 | 835.6 |
| 62.5° | 30330.4 | 10769.3 | 2476.6 | 1247.8 | 1033.5 | 1014.5 | 1036.3 | 897.9 | 849.1 | 832.8 | 827.3 |
| 65° | 26258.6 | 8927.4 | 2387.2 | 1239.8 | 1006.5 | 957.6 | 963.1 | 873.5 | 824.6 | 811.1 | 805.7 |
| 67.5° | 21660.7 | 7204.9 | 2308.5 | 1266.8 | 971.2 | 916.9 | 889.7 | 841.0 | 800.2 | 786.6 | 775.9 |
| 70° | 17081.7 | 5992.2 | 2273.3 | 1250.5 | 927.7 | 876.1 | 846.4 | 805.7 | 770.3 | 756.8 | 748.6 |
| 72.5° | 13755.9 | 5061.8 | 2254.2 | 1234.4 | 870.7 | 821.9 | 794.8 | 759.5 | 721.6 | 716.2 | 708.0 |
| 75° | 11640.1 | 3979.5 | 2064.3 | 1182.7 | 805.7 | 756.8 | 737.9 | 705.3 | 667.4 | 667.4 | 662.0 |
| 77.5° | 8978.9 | 2878.1 | 1717.1 | 1047.1 | 737.9 | 683.6 | 667.4 | 642.8 | 599.4 | 607.7 | 604.9 |
| 80° | 6632.5 | 1877.2 | 1342.7 | 868.0 | 653.7 | 602.3 | 594.0 | 569.6 | 523.5 | 534.4 | 534.4 |
| 82.5° | 4543.6 | 1231.5 | 965.7 | 710.6 | 558.8 | 510.0 | 510.0 | 485.5 | 434.1 | 439.5 | 455.7 |
| 85° | 2281.3 | 846.4 | 721.6 | 550.8 | 434.1 | 409.5 | 409.5 | 390.7 | 339.1 | 341.7 | 363.5 |
| 87.5° | 694.4 | 510.0 | 477.4 | 393.4 | 311.9 | 306.5 | 292.9 | 279.5 | 246.9 | 244.1 | 257.8 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 | 16672.1 |
| 2.5° | 14379.9 | 14225.2 | 14038.1 | 13625.8 | 13487.4 | 13479.2 | 13604.0 | 13473.8 | 13723.3 | 13617.5 | 13734.2 |
| 5° | 11596.7 | 11444.8 | 11235.9 | 10709.7 | 10389.4 | 10172.4 | 10069.5 | 9765.7 | 9985.3 | 9825.3 | 9958.3 |
| 7.5° | 8528.6 | 8563.9 | 8425.6 | 8116.2 | 7419.1 | 7069.2 | 6863.1 | 6678.5 | 6838.6 | 6822.4 | 7077.3 |
| 10° | 5995.0 | 6089.9 | 5992.2 | 5680.3 | 5116.0 | 4923.5 | 4961.5 | 5034.7 | 5243.5 | 5352.1 | 5745.4 |
| 12.5° | 4315.8 | 4310.4 | 4248.1 | 3968.6 | 3597.1 | 3618.7 | 3773.3 | 3900.8 | 4093.3 | 4207.3 | 4608.8 |
| 15° | 3222.7 | 3173.8 | 3146.8 | 2918.9 | 2707.2 | 2753.3 | 2829.3 | 2842.9 | 2964.9 | 3032.8 | 3358.3 |
| 17.5° | 2435.9 | 2460.4 | 2490.2 | 2327.5 | 2167.4 | 2137.5 | 2077.9 | 2004.7 | 2040.0 | 2053.4 | 2216.3 |
| 20° | 1934.1 | 2031.7 | 2105.0 | 1991.2 | 1828.3 | 1741.5 | 1665.5 | 1616.8 | 1616.8 | 1614.1 | 1660.2 |
| 22.5° | 1690.0 | 1760.5 | 1839.2 | 1760.5 | 1614.1 | 1538.1 | 1494.7 | 1456.7 | 1451.3 | 1451.3 | 1494.7 |
| 25° | 1557.0 | 1608.7 | 1684.6 | 1630.3 | 1521.8 | 1464.9 | 1424.2 | 1375.3 | 1356.4 | 1351.0 | 1380.8 |
| 27.5° | 1491.9 | 1513.6 | 1551.6 | 1502.9 | 1410.6 | 1383.5 | 1372.6 | 1329.2 | 1304.8 | 1291.3 | 1321.0 |
| 30° | 1380.8 | 1375.3 | 1378.0 | 1329.2 | 1256.0 | 1253.2 | 1272.2 | 1280.4 | 1272.2 | 1269.6 | 1315.7 |
| 32.5° | 1277.7 | 1266.8 | 1264.2 | 1220.6 | 1152.9 | 1136.6 | 1152.9 | 1169.1 | 1188.2 | 1215.2 | 1269.6 |
| 35° | 1147.5 | 1174.5 | 1190.9 | 1152.9 | 1071.5 | 1022.7 | 1003.6 | 973.9 | 957.6 | 957.6 | 1019.9 |
| 37.5° | 1044.4 | 1106.8 | 1131.1 | 1095.9 | 1006.5 | 938.5 | 906.0 | 900.6 | 903.3 | 914.1 | 973.9 |
| 40° | 1009.2 | 1055.1 | 1076.9 | 1041.7 | 952.2 | 889.7 | 870.7 | 865.3 | 870.7 | 887.0 | 946.8 |
| 42.5° | 987.3 | 1019.9 | 1017.2 | 973.9 | 900.6 | 857.3 | 846.4 | 841.0 | 846.4 | 862.6 | 927.7 |
| 45° | 968.5 | 990.1 | 968.5 | 916.9 | 849.1 | 827.3 | 830.0 | 827.3 | 832.8 | 849.1 | 911.5 |
| 47.5° | 952.2 | 960.3 | 933.2 | 881.6 | 811.1 | 805.7 | 816.5 | 824.6 | 830.0 | 843.7 | 908.7 |
| 50° | 927.7 | 927.7 | 903.3 | 849.1 | 778.6 | 781.3 | 794.8 | 813.9 | 816.5 | 832.8 | 884.3 |
| 52.5° | 897.9 | 895.3 | 878.9 | 827.3 | 751.4 | 759.5 | 759.5 | 781.3 | 786.6 | 805.7 | 859.9 |
| 55° | 873.5 | 868.0 | 859.9 | 811.1 | 727.0 | 740.6 | 732.4 | 740.6 | 754.1 | 773.1 | 832.8 |
| 57.5° | 851.8 | 841.0 | 841.0 | 797.5 | 708.0 | 713.4 | 694.4 | 705.3 | 721.6 | 737.9 | 800.2 |
| 60° | 830.0 | 819.3 | 824.6 | 778.6 | 678.2 | 672.7 | 664.6 | 686.3 | 691.8 | 710.6 | 773.1 |
| 62.5° | 805.7 | 797.5 | 800.2 | 756.8 | 656.5 | 642.8 | 642.8 | 662.0 | 664.6 | 691.8 | 751.4 |
| 65° | 786.6 | 775.9 | 773.1 | 735.2 | 632.0 | 615.8 | 624.0 | 632.0 | 637.4 | 664.6 | 721.6 |
| 67.5° | 767.7 | 746.0 | 746.0 | 716.2 | 604.9 | 588.7 | 604.9 | 602.3 | 610.4 | 634.7 | 680.8 |
| 70° | 743.3 | 713.4 | 716.2 | 702.6 | 577.8 | 558.8 | 572.4 | 569.6 | 575.0 | 591.4 | 637.4 |
| 72.5° | 705.3 | 680.8 | 686.3 | 680.8 | 550.8 | 523.5 | 529.0 | 529.0 | 529.0 | 542.5 | 591.4 |
| 75° | 656.5 | 637.4 | 653.7 | 667.4 | 518.1 | 480.1 | 485.5 | 485.5 | 477.4 | 485.5 | 545.2 |
| 77.5° | 596.7 | 586.0 | 640.2 | 621.2 | 480.1 | 434.1 | 434.1 | 428.6 | 412.3 | 423.2 | 488.3 |
| 80° | 531.6 | 523.5 | 591.4 | 520.8 | 436.8 | 377.1 | 371.5 | 358.1 | 341.7 | 349.9 | 415.0 |
| 82.5° | 463.9 | 455.7 | 496.5 | 398.8 | 377.1 | 311.9 | 298.3 | 274.0 | 257.8 | 265.9 | 325.5 |
| 85° | 379.8 | 379.8 | 382.5 | 301.1 | 287.5 | 238.7 | 222.4 | 189.9 | 170.9 | 176.3 | 233.3 |
| 87.5° | 271.3 | 279.5 | 257.8 | 206.3 | 170.9 | 132.9 | 122.1 | 103.0 | 86.7 | 100.4 | 122.1 |
| 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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| 7.5° | 7668.7 | 8200.4 | 8867.7 | 9860.5 | 10907.6 | 12326.4 | 13785.7 | 14632.1 |
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| 15° | 4017.5 | 4668.5 | 5381.9 | 6274.4 | 7270.0 | 8862.3 | 11070.4 | 12264.0 |
| 17.5° | 2753.3 | 3480.4 | 4356.5 | 5457.9 | 6675.8 | 8715.7 | 11488.2 | 12863.5 |
| 20° | 1896.1 | 2425.2 | 3361.0 | 4652.2 | 6117.1 | 8696.9 | 12291.1 | 14013.6 |
| 22.5° | 1586.9 | 1822.9 | 2506.5 | 3911.7 | 5696.6 | 8930.1 | 13536.2 | 15627.6 |
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| 27.5° | 1397.0 | 1524.6 | 1817.5 | 2848.3 | 5148.6 | 10091.1 | 16918.9 | 19740.1 |
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| 32.5° | 1283.0 | 1340.0 | 1513.6 | 2444.1 | 4584.4 | 11048.8 | 19696.6 | 22626.4 |
| 35° | 1093.1 | 1193.6 | 1351.0 | 2354.5 | 4589.8 | 11341.7 | 21110.0 | 24297.4 |
| 37.5° | 1041.7 | 1142.0 | 1256.0 | 2322.1 | 4652.2 | 11653.6 | 22732.1 | 26255.9 |
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| 42.5° | 987.3 | 1071.5 | 1193.6 | 2237.9 | 4741.8 | 12193.5 | 25629.3 | 29839.3 |
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| 55° | 957.6 | 1117.6 | 987.3 | 1557.0 | 4258.9 | 16674.8 | 34453.6 | 37982.8 |
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| 60° | 1057.9 | 865.3 | 927.7 | 1226.1 | 3447.9 | 18023.0 | 36054.1 | 40573.3 |
| 62.5° | 979.2 | 811.1 | 892.5 | 1201.8 | 3122.2 | 17209.2 | 34388.5 | 40174.5 |
| 65° | 767.7 | 775.9 | 857.3 | 1272.2 | 3035.5 | 15052.5 | 31437.1 | 38332.7 |
| 67.5° | 702.6 | 740.6 | 821.9 | 1361.8 | 3043.5 | 12052.4 | 27026.2 | 34320.6 |
| 70° | 662.0 | 702.6 | 781.3 | 1407.9 | 3065.2 | 8984.4 | 21367.7 | 27954.0 |
| 72.5° | 615.8 | 651.0 | 735.2 | 1416.0 | 2924.3 | 6526.6 | 16468.5 | 20553.8 |
| 75° | 561.5 | 594.0 | 670.0 | 1234.4 | 2422.4 | 4527.5 | 12597.7 | 14062.4 |
| 77.5° | 499.1 | 523.5 | 588.7 | 952.2 | 1798.4 | 2897.2 | 9456.4 | 10272.8 |
| 80° | 425.8 | 439.5 | 493.7 | 697.2 | 1231.5 | 1812.2 | 7481.5 | 8243.7 |
| 82.5° | 341.7 | 347.3 | 382.5 | 523.5 | 800.2 | 1163.8 | 5010.2 | 5718.3 |
| 85° | 241.5 | 241.5 | 263.2 | 379.8 | 545.2 | 737.9 | 2720.7 | 3016.5 |
| 87.5° | 113.9 | 116.6 | 116.6 | 208.9 | 284.9 | 374.4 | 626.6 | 385.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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