

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: P637921

Luminaire Tested: **IFLD-L-SA7E-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637921
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47600.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

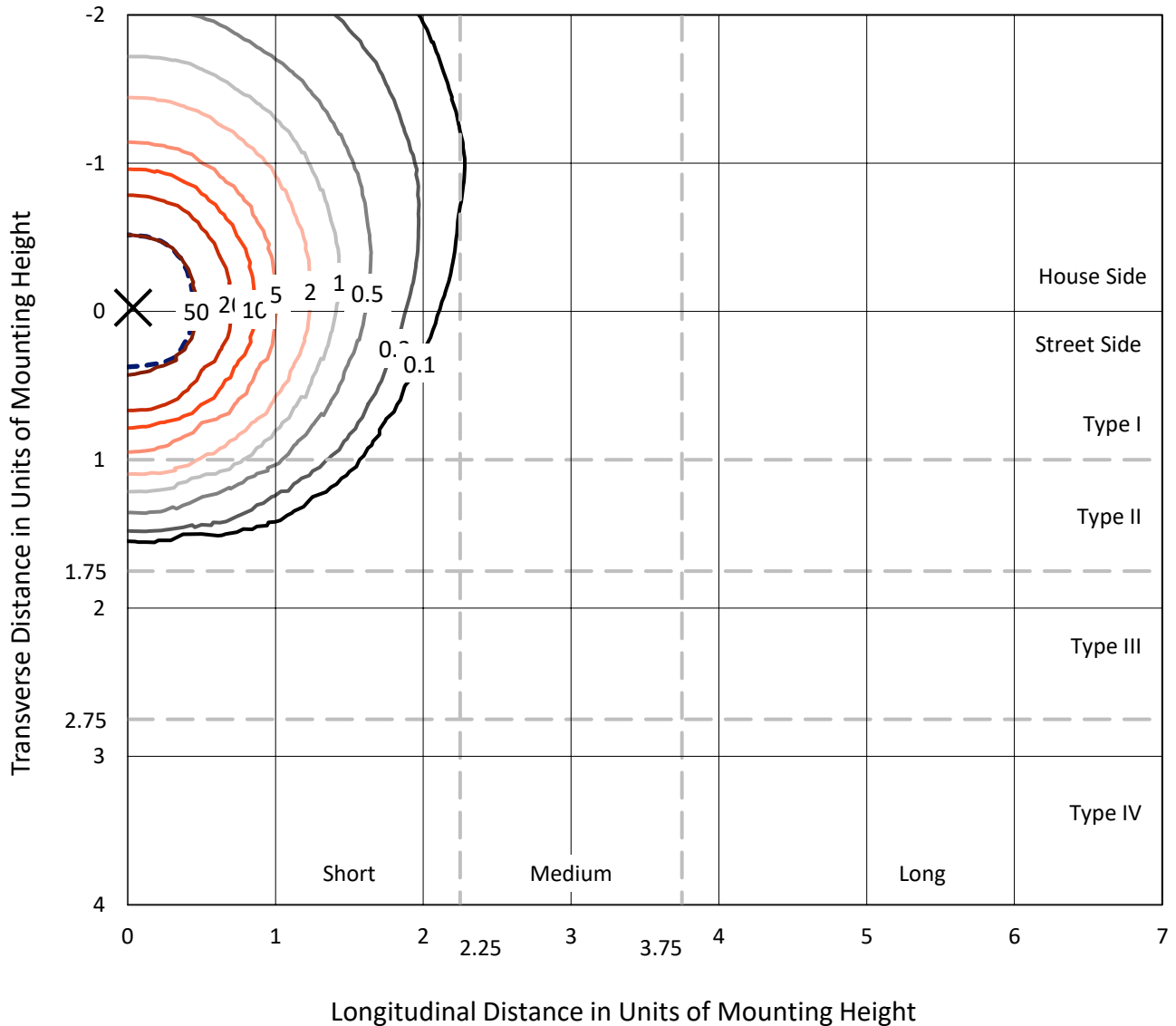
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

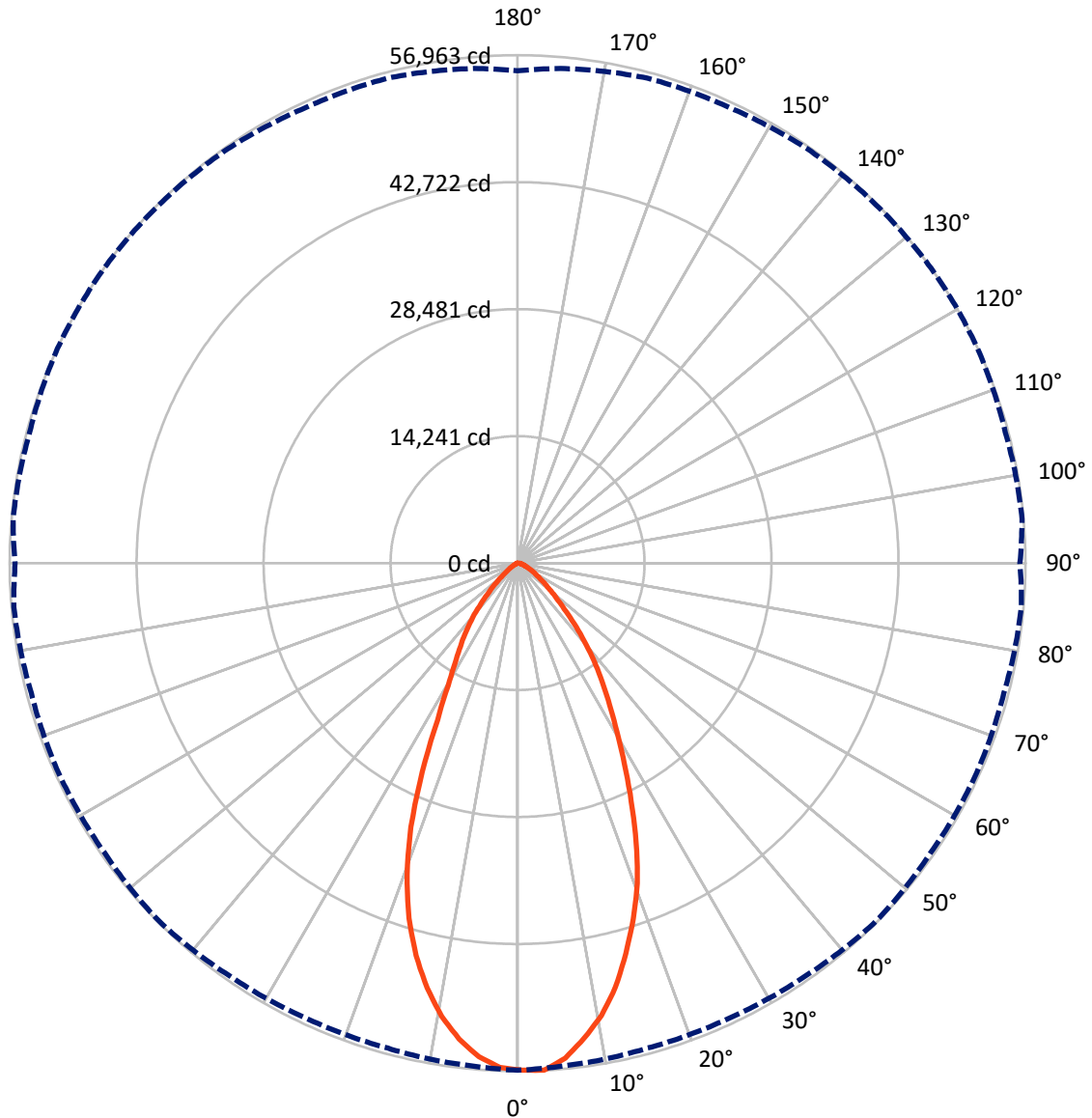
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 142.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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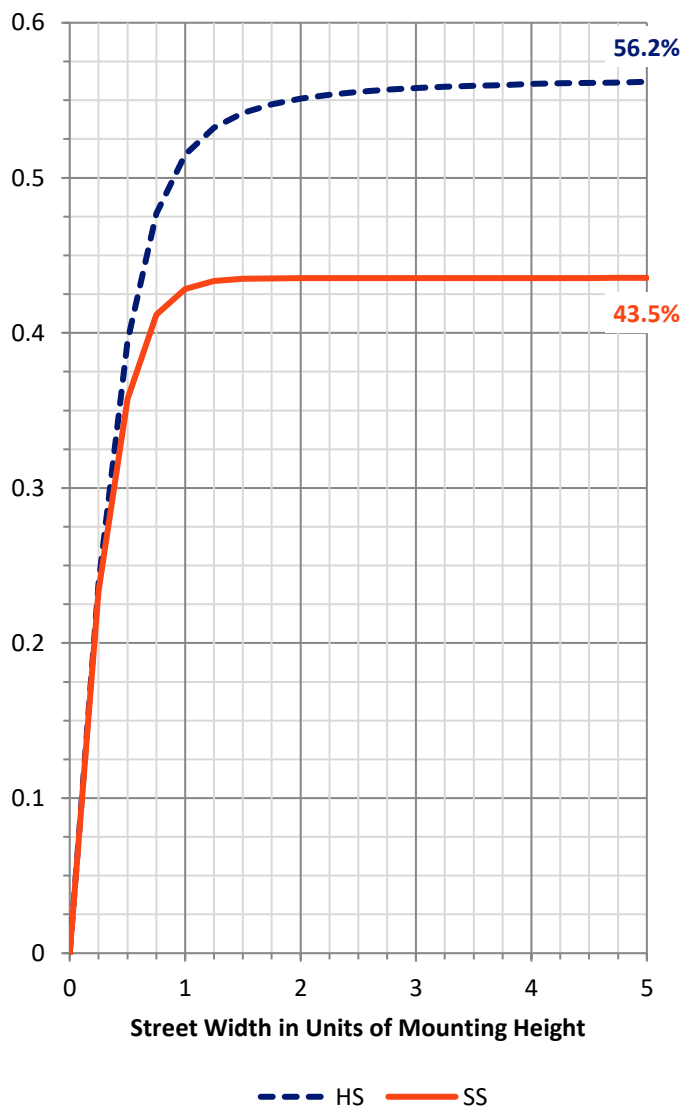
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 27010.4 | 0.0 | 27010.4 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 20590.1 | 0.0 | 20590.1 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 47600.5 | 0.0 | 47600.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 5164.1 | 10.8 |
| 10°-20° | 12310.1 | 25.9 |
| 20°-30° | 12537.6 | 26.3 |
| 30°-40° | 9349.2 | 19.6 |
| 40°-50° | 4884.3 | 10.3 |
| 50°-60° | 2054.4 | 4.3 |
| 60°-70° | 839.0 | 1.8 |
| 70°-80° | 353.1 | 0.7 |
| 80°-90° | 108.8 | 0.2 |
| 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° | 47600.5 | 100.0 |
| 0°-180° | 47600.5 | 100.0 |



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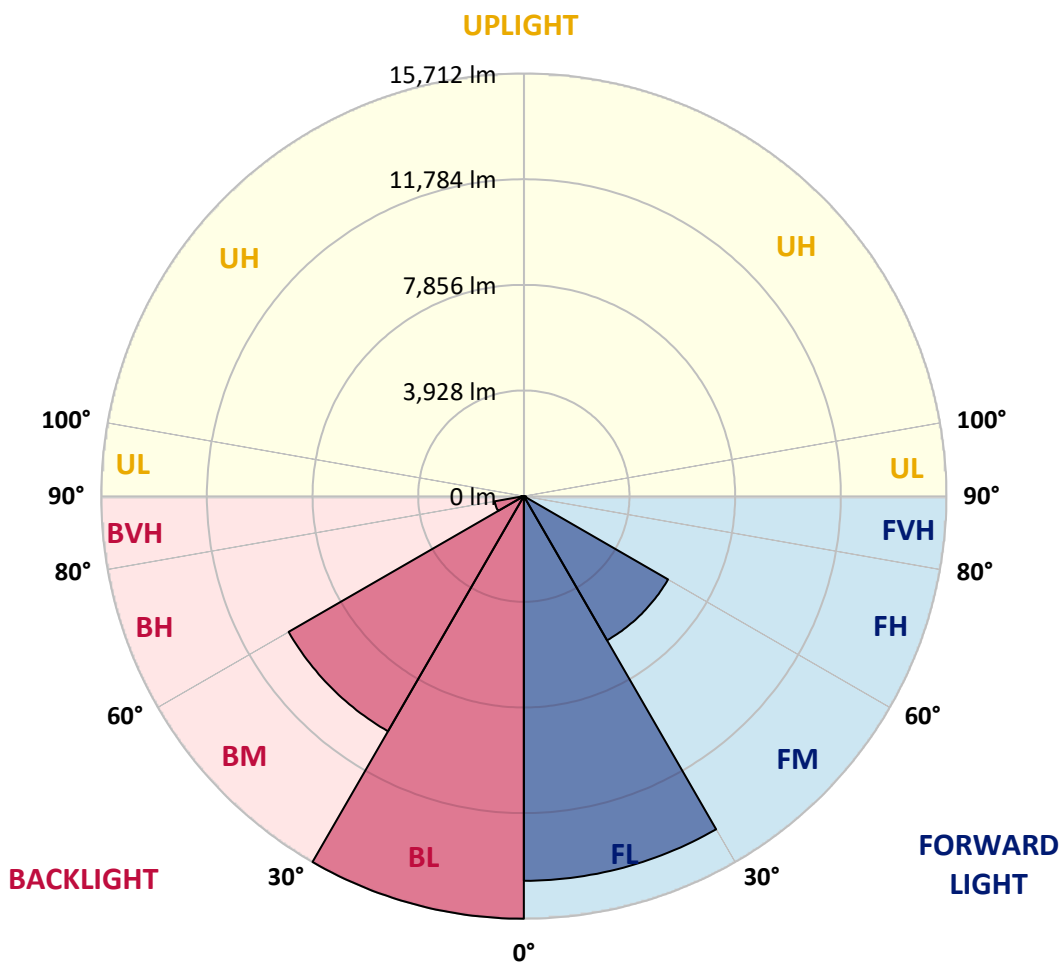
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 14299.8 | 30.0 | | | |
| FM (30°-60°) | 6190.6 | 13.0 | | | |
| FH (60°-80°) | 89.6 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 10.1 | 0.0 | | | G1/100 |
| BL (0°-30°) | 15712.0 | 33.0 | B5 | | |
| BM (30°-60°) | 10097.2 | 21.2 | B5 | | |
| BH (60°-80°) | 1102.5 | 2.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 98.7 | 0.2 | | | G1/100 |
| 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° | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 |
| 2.5° | 56877.2 | 56644.9 | 56314.7 | 56284.1 | 56455.3 | 56828.3 | 56589.9 | 56602.1 | 56455.3 | 56706.0 |
| 5° | 55984.5 | 55764.4 | 55538.2 | 55238.6 | 55489.2 | 55648.2 | 55525.9 | 55391.4 | 55201.9 | 55446.4 |
| 7.5° | 54296.9 | 54174.6 | 53838.3 | 53703.8 | 53856.7 | 54034.0 | 53771.1 | 53734.4 | 53471.5 | 53789.4 |
| 10° | 51716.6 | 51667.7 | 51337.5 | 51258.0 | 51392.5 | 51661.6 | 51545.4 | 51520.9 | 51355.8 | 51325.3 |
| 12.5° | 49038.4 | 48848.9 | 48439.2 | 48414.8 | 48616.5 | 49020.1 | 48708.2 | 48408.6 | 48500.4 | 48579.8 |
| 15° | 42141.3 | 41939.5 | 42954.5 | 44550.4 | 45388.1 | 45357.5 | 45449.2 | 45088.5 | 44978.4 | 45015.1 |
| 17.5° | 33501.4 | 33159.0 | 33525.9 | 35996.2 | 39976.7 | 42288.0 | 41652.1 | 40875.5 | 40459.8 | 40184.6 |
| 20° | 28915.6 | 28933.9 | 28866.6 | 29502.5 | 31985.0 | 37255.8 | 37102.9 | 35604.8 | 35060.6 | 34834.4 |
| 22.5° | 26127.3 | 26023.4 | 25876.6 | 26078.4 | 26744.9 | 29838.8 | 31911.7 | 30535.9 | 30346.4 | 30095.7 |
| 25° | 23394.1 | 23394.1 | 23216.8 | 23418.6 | 23608.2 | 23651.0 | 25729.9 | 26292.4 | 25925.6 | 25925.6 |
| 27.5° | 21027.8 | 20905.5 | 20826.0 | 20917.8 | 20667.1 | 19462.5 | 19725.4 | 22605.4 | 22354.7 | 22201.8 |
| 30° | 18679.9 | 18643.2 | 18508.6 | 18630.9 | 17701.5 | 16344.1 | 15793.8 | 19077.3 | 19340.2 | 19285.2 |
| 32.5° | 15420.8 | 15567.6 | 16166.8 | 16356.3 | 14766.6 | 13672.1 | 13146.2 | 15836.6 | 16888.3 | 16845.5 |
| 35° | 10480.3 | 10602.6 | 11287.4 | 13549.8 | 12241.3 | 11458.6 | 11305.7 | 12595.9 | 14326.3 | 14491.4 |
| 37.5° | 8346.3 | 8328.0 | 8523.6 | 8927.2 | 9838.3 | 9648.7 | 9605.9 | 9942.2 | 11684.8 | 11758.2 |
| 40° | 6878.8 | 6854.4 | 6848.3 | 6518.1 | 6291.8 | 8022.2 | 7906.1 | 7704.3 | 9214.6 | 9361.3 |
| 42.5° | 5545.9 | 5570.3 | 5588.7 | 4867.2 | 4537.0 | 6187.9 | 6120.6 | 5912.7 | 7227.4 | 7398.6 |
| 45° | 4353.5 | 4347.4 | 4384.1 | 3625.9 | 3534.2 | 3956.1 | 4573.7 | 4408.6 | 5454.1 | 5637.6 |
| 47.5° | 2256.3 | 2335.7 | 2831.0 | 2806.6 | 2849.4 | 2806.6 | 3460.8 | 3418.0 | 4102.8 | 4396.3 |
| 50° | 1516.4 | 1540.9 | 1583.7 | 1589.8 | 2244.0 | 2066.7 | 2348.0 | 2659.8 | 2873.8 | 3326.3 |
| 52.5° | 1174.0 | 1192.3 | 1082.3 | 1015.0 | 1375.8 | 1528.6 | 1540.9 | 1840.5 | 2005.6 | 2464.2 |
| 55° | 654.3 | 733.7 | 788.8 | 794.9 | 758.2 | 1131.2 | 1125.1 | 1363.5 | 1491.9 | 1797.7 |
| 57.5° | 85.6 | 103.9 | 159.0 | 513.6 | 507.5 | 629.8 | 788.8 | 990.6 | 1063.9 | 1314.6 |
| 60° | 6.1 | 12.2 | 18.3 | 79.5 | 336.3 | 366.9 | 538.1 | 617.6 | 739.9 | 923.3 |
| 62.5° | 0.0 | 0.0 | 6.1 | 18.3 | 67.3 | 214.0 | 281.3 | 324.1 | 434.1 | 605.3 |
| 65° | 0.0 | 0.0 | 6.1 | 12.2 | 24.5 | 79.5 | 110.1 | 177.3 | 256.8 | 373.0 |
| 67.5° | 0.0 | 0.0 | 6.1 | 12.2 | 18.3 | 30.6 | 48.9 | 79.5 | 134.5 | 226.2 |
| 70° | 0.0 | 0.0 | 6.1 | 12.2 | 18.3 | 24.5 | 36.7 | 48.9 | 73.4 | 122.3 |
| 72.5° | 0.0 | 0.0 | 6.1 | 6.1 | 12.2 | 30.6 | 30.6 | 36.7 | 48.9 | 67.3 |
| 75° | 0.0 | 0.0 | 6.1 | 12.2 | 18.3 | 30.6 | 30.6 | 30.6 | 36.7 | 42.8 |
| 77.5° | 0.0 | 0.0 | 6.1 | 12.2 | 18.3 | 30.6 | 24.5 | 30.6 | 30.6 | 30.6 |
| 80° | 0.0 | 0.0 | 6.1 | 12.2 | 18.3 | 30.6 | 36.7 | 30.6 | 24.5 | 24.5 |
| 82.5° | 0.0 | 0.0 | 6.1 | 18.3 | 18.3 | 42.8 | 42.8 | 42.8 | 18.3 | 18.3 |
| 85° | 0.0 | 0.0 | 12.2 | 18.3 | 30.6 | 48.9 | 48.9 | 36.7 | 18.3 | 12.2 |
| 87.5° | 0.0 | 0.0 | 6.1 | 12.2 | 12.2 | 24.5 | 36.7 | 30.6 | 12.2 | 6.1 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 56871.1 | 0° | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 | 56871.1 |
| 56339.2 | 2.5° | 56791.6 | 56638.8 | 56926.2 | 56962.8 | 56840.6 | 56687.7 | 56333.1 | 56302.5 | 55684.9 |
| 55091.8 | 5° | 55715.5 | 55464.8 | 55648.2 | 55770.5 | 55727.7 | 55562.6 | 55415.9 | 55281.4 | 54724.9 |
| 53067.9 | 7.5° | 53709.9 | 53618.2 | 53703.8 | 53795.5 | 53972.8 | 53795.5 | 53734.4 | 53593.7 | 53043.4 |
| 51074.6 | 10° | 51484.2 | 51313.0 | 51637.1 | 51594.3 | 51545.4 | 51496.5 | 51239.7 | 51264.1 | 50616.0 |
| 48359.7 | 12.5° | 48751.0 | 48463.7 | 48775.5 | 48812.2 | 48775.5 | 48604.3 | 48316.9 | 48439.2 | 47846.1 |
| 44691.0 | 15° | 45076.2 | 45045.7 | 45271.9 | 45418.6 | 45522.6 | 45339.1 | 45241.3 | 45302.5 | 44947.8 |
| 39970.6 | 17.5° | 40563.7 | 40961.2 | 41701.0 | 41951.7 | 41957.8 | 42147.4 | 42092.3 | 42019.0 | 41756.0 |
| 34742.7 | 20° | 35256.3 | 36020.6 | 37157.9 | 38325.8 | 38662.1 | 38503.1 | 38429.7 | 38564.3 | 38172.9 |
| 29832.7 | 22.5° | 30358.6 | 31012.8 | 32333.6 | 34039.5 | 35024.0 | 35121.8 | 35103.4 | 34987.3 | 34834.4 |
| 25901.1 | 25° | 26200.7 | 26781.6 | 28047.3 | 29606.5 | 31495.9 | 31777.1 | 31789.4 | 31752.7 | 31618.2 |
| 22336.3 | 27.5° | 22691.0 | 23394.1 | 24091.2 | 25485.3 | 27497.0 | 28658.7 | 28512.0 | 28469.2 | 28420.3 |
| 19328.0 | 30° | 19511.4 | 20398.0 | 21052.3 | 21920.5 | 23724.3 | 25295.8 | 25448.6 | 25375.2 | 25259.1 |
| 16839.4 | 32.5° | 16992.2 | 17518.1 | 18349.7 | 18936.7 | 20232.9 | 22012.3 | 22599.3 | 22544.2 | 22440.3 |
| 14595.4 | 35° | 14803.2 | 15011.1 | 15665.4 | 16319.6 | 17181.8 | 18906.1 | 19774.3 | 19652.1 | 19633.7 |
| 11892.7 | 37.5° | 12192.3 | 12889.4 | 13250.2 | 13910.5 | 14515.9 | 15854.9 | 17053.4 | 16998.4 | 17004.5 |
| 9563.1 | 40° | 9844.4 | 10247.9 | 10963.3 | 11519.8 | 12076.2 | 13054.5 | 14387.5 | 14424.1 | 14411.9 |
| 7404.7 | 42.5° | 7557.5 | 7948.9 | 8701.0 | 9306.3 | 9801.6 | 10406.9 | 11678.7 | 11721.5 | 11776.6 |
| 5766.0 | 45° | 5900.5 | 6151.2 | 6701.5 | 7331.3 | 7857.2 | 8224.0 | 9190.1 | 9465.3 | 9471.4 |
| 4469.7 | 47.5° | 4579.8 | 4867.2 | 5258.5 | 5863.8 | 6377.4 | 6640.4 | 7343.5 | 7716.5 | 7698.2 |
| 3430.2 | 50° | 3595.3 | 3858.3 | 4176.2 | 4653.1 | 5209.6 | 5417.5 | 5937.2 | 6304.1 | 6285.7 |
| 2586.4 | 52.5° | 2751.5 | 3087.8 | 3369.1 | 3736.0 | 4280.2 | 4457.5 | 4830.5 | 5252.4 | 5191.2 |
| 1895.5 | 55° | 2085.1 | 2427.5 | 2690.4 | 2996.1 | 3491.4 | 3717.6 | 3974.4 | 4310.7 | 4323.0 |
| 1467.5 | 57.5° | 1571.4 | 1926.1 | 2164.5 | 2476.4 | 2849.4 | 3100.1 | 3295.7 | 3656.5 | 3650.4 |
| 1002.8 | 60° | 1125.1 | 1430.8 | 1718.2 | 2042.2 | 2329.6 | 2617.0 | 2751.5 | 3093.9 | 3106.2 |
| 709.3 | 62.5° | 813.2 | 1100.6 | 1375.8 | 1657.0 | 1913.8 | 2195.1 | 2317.4 | 2586.4 | 2623.1 |
| 464.7 | 65° | 568.7 | 770.4 | 1088.4 | 1302.4 | 1589.8 | 1797.7 | 1956.6 | 2189.0 | 2231.8 |
| 275.2 | 67.5° | 366.9 | 556.4 | 862.1 | 1051.7 | 1314.6 | 1491.9 | 1657.0 | 1840.5 | 1895.5 |
| 177.3 | 70° | 220.1 | 421.9 | 642.0 | 843.8 | 1082.3 | 1241.2 | 1400.2 | 1559.2 | 1589.8 |
| 85.6 | 72.5° | 140.6 | 293.5 | 464.7 | 684.8 | 868.3 | 1039.5 | 1180.1 | 1296.3 | 1204.6 |
| 55.0 | 75° | 79.5 | 201.8 | 366.9 | 538.1 | 703.2 | 868.3 | 984.4 | 1045.6 | 837.7 |
| 36.7 | 77.5° | 48.9 | 146.7 | 299.6 | 434.1 | 544.2 | 697.1 | 770.4 | 807.1 | 599.2 |
| 24.5 | 80° | 30.6 | 110.1 | 250.7 | 354.6 | 354.6 | 513.6 | 599.2 | 629.8 | 434.1 |
| 18.3 | 82.5° | 24.5 | 79.5 | 195.7 | 269.0 | 238.5 | 385.2 | 470.8 | 476.9 | 305.7 |
| 12.2 | 85° | 18.3 | 61.1 | 122.3 | 177.3 | 165.1 | 269.0 | 275.2 | 305.7 | 201.8 |
| 12.2 | 87.5° | 12.2 | 36.7 | 73.4 | 103.9 | 91.7 | 128.4 | 146.7 | 165.1 | 110.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
56871.1
55201.9
54278.6
52927.3
50395.9
47674.9
44519.8
41364.7
37891.7
34540.9
31165.7
28132.9
25112.3
22165.1
19431.9
16808.8
14197.9
11593.1
9312.4
7630.9
6285.7
5197.3
4323.0
3638.1
3075.6
2610.9
2219.6
1889.4
1565.3
1119.0
794.9
562.5
403.6
281.3
183.4
97.8
0.0

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