

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: P636873

Luminaire Tested: **IFLD-L-SA7A-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14605.4 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

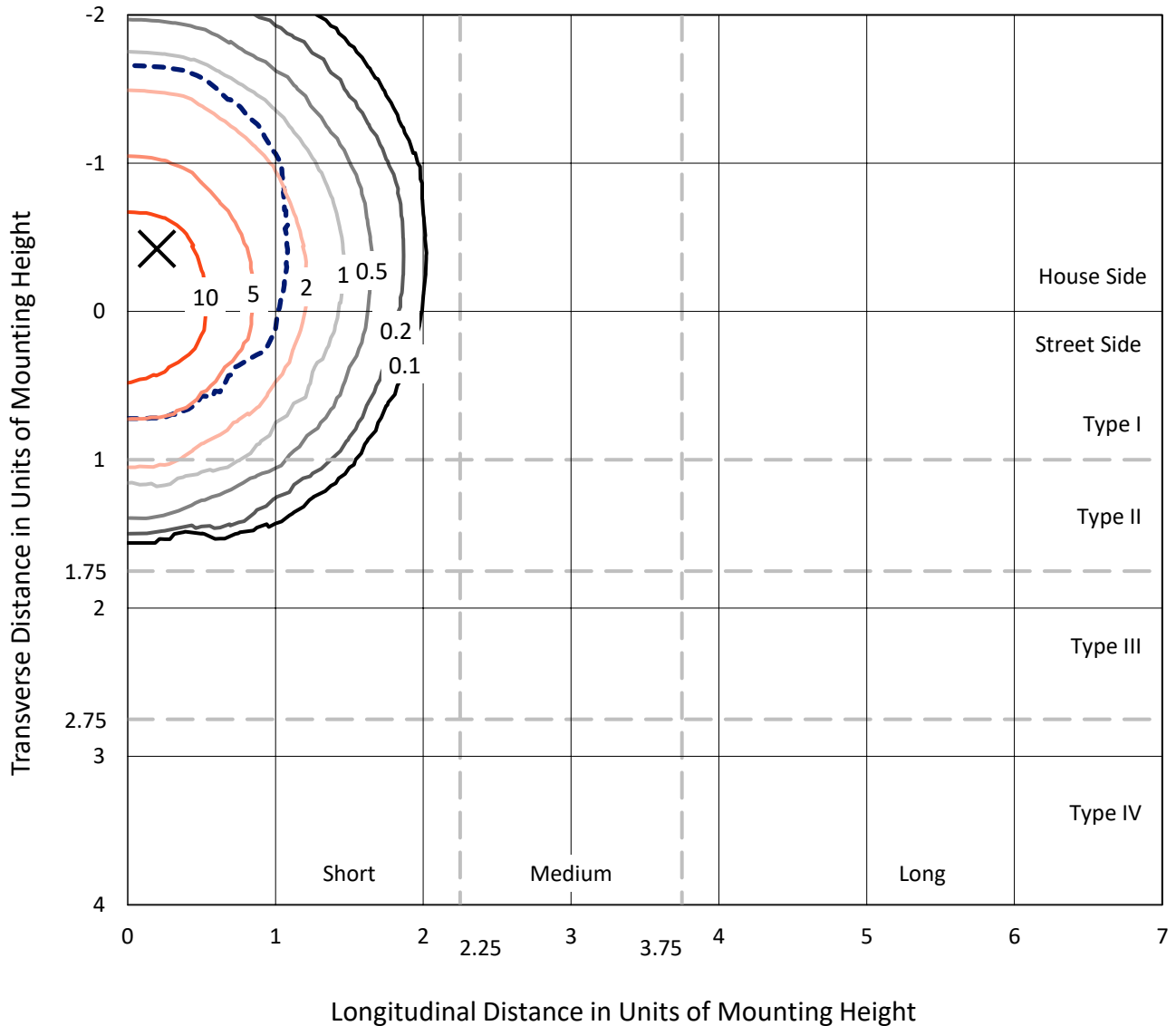
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

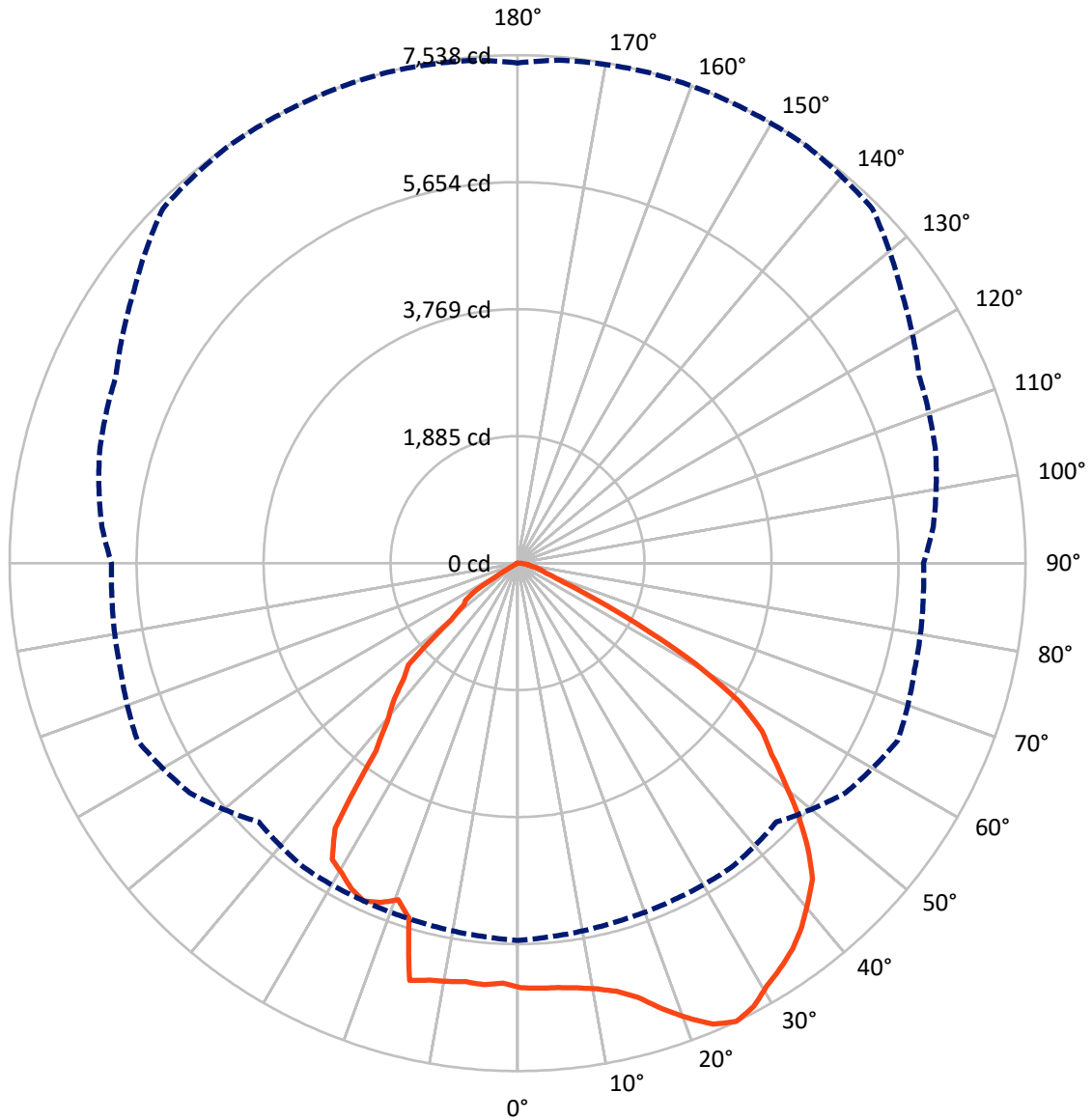
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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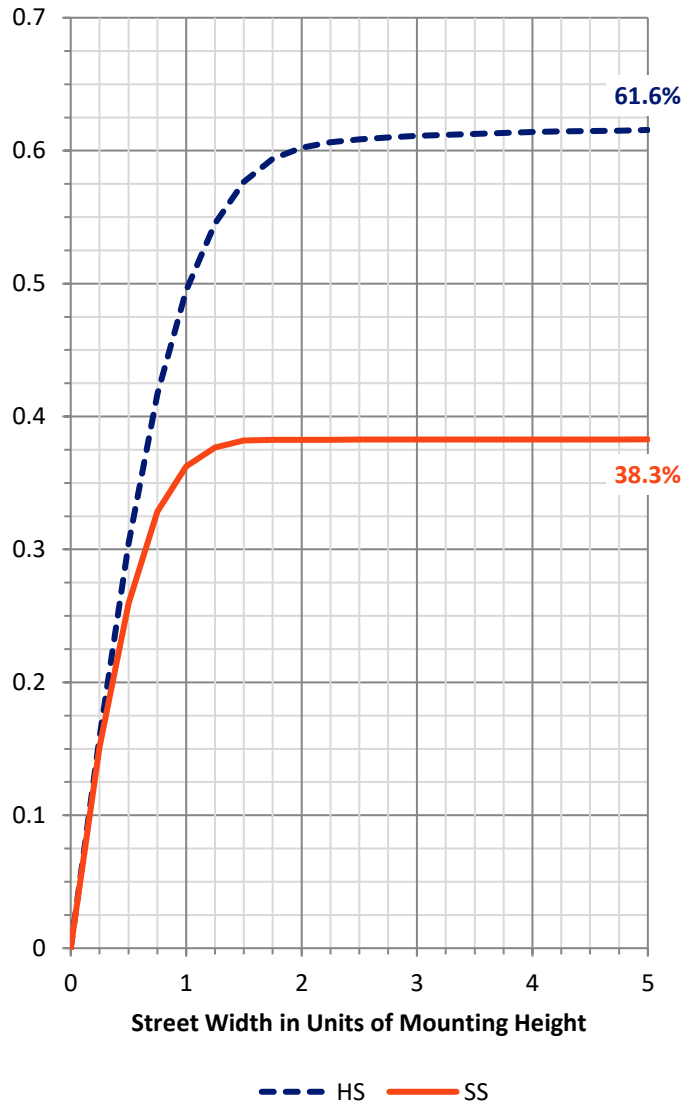
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9042.2 | 0.0 | 9042.2 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 5563.1 | 0.0 | 5563.1 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 14605.4 | 0.0 | 14605.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 604.6 | 4.1 |
| 10°-20° | 1846.1 | 12.6 |
| 20°-30° | 2918.6 | 20.0 |
| 30°-40° | 3296.8 | 22.6 |
| 40°-50° | 3087.5 | 21.1 |
| 50°-60° | 2128.6 | 14.6 |
| 60°-70° | 571.9 | 3.9 |
| 70°-80° | 119.2 | 0.8 |
| 80°-90° | 32.2 | 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° | 14605.4 | 100.0 |
| 0°-180° | 14605.4 | 100.0 |



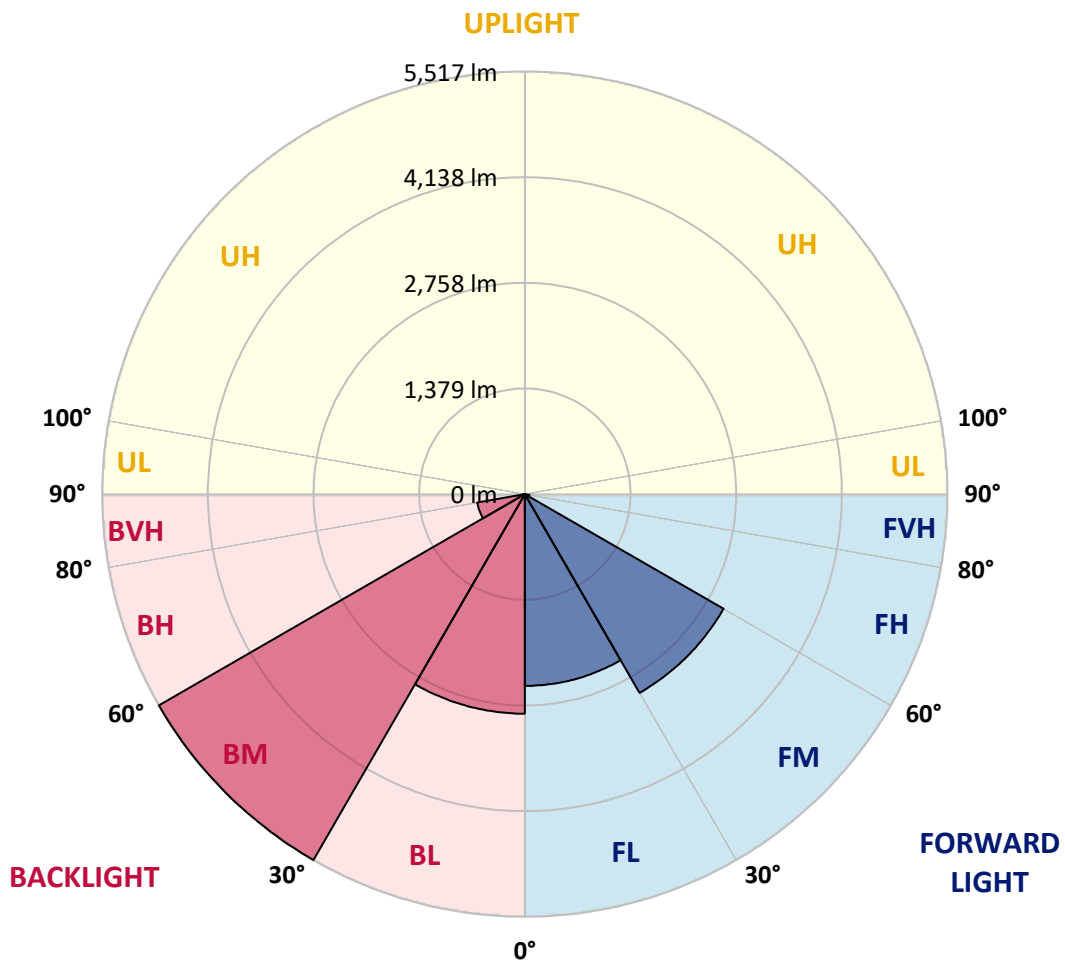
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2502.9 | 17.1 | | | |
| FM (30°-60°) | 2995.9 | 20.5 | | | |
| FH (60°-80°) | 60.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 4.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2866.3 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 5517.0 | 37.8 | B4/8500 | | |
| BH (60°-80°) | 631.0 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 |
| 2.5° | 6329.9 | 6289.1 | 6250.4 | 6237.6 | 6291.2 | 6349.2 | 6312.7 | 6314.8 | 6302.0 | 6325.6 |
| 5° | 6377.1 | 6321.3 | 6295.5 | 6276.2 | 6284.8 | 6344.9 | 6293.4 | 6312.7 | 6291.2 | 6319.1 |
| 7.5° | 6359.9 | 6321.3 | 6295.5 | 6259.0 | 6286.9 | 6357.8 | 6308.4 | 6310.5 | 6299.8 | 6325.6 |
| 10° | 6349.2 | 6321.3 | 6289.1 | 6293.4 | 6325.6 | 6385.7 | 6347.0 | 6368.5 | 6353.5 | 6368.5 |
| 12.5° | 6374.9 | 6344.9 | 6327.7 | 6327.7 | 6355.6 | 6424.3 | 6405.0 | 6424.3 | 6417.9 | 6430.7 |
| 15° | 6132.4 | 6160.3 | 6323.4 | 6396.4 | 6452.2 | 6520.9 | 6512.3 | 6531.6 | 6535.9 | 6555.2 |
| 17.5° | 5172.9 | 5145.0 | 5132.2 | 5507.8 | 6505.9 | 6718.4 | 6711.9 | 6709.8 | 6688.3 | 6673.3 |
| 20° | 5299.6 | 5288.8 | 5273.8 | 5301.7 | 5413.3 | 6821.4 | 6864.3 | 6600.3 | 6523.0 | 6516.6 |
| 22.5° | 5501.3 | 5484.2 | 5428.4 | 5430.5 | 5464.8 | 5930.6 | 6651.8 | 6411.4 | 6385.7 | 6370.6 |
| 25° | 5600.1 | 5565.7 | 5520.7 | 5507.8 | 5518.5 | 5432.7 | 5941.4 | 6226.8 | 6100.2 | 6042.2 |
| 27.5° | 5426.2 | 5428.4 | 5391.9 | 5426.2 | 5385.4 | 4999.1 | 4782.3 | 5866.2 | 5861.9 | 5836.2 |
| 30° | 5295.3 | 5288.8 | 5245.9 | 5288.8 | 5007.7 | 4576.2 | 4483.9 | 5471.3 | 5426.2 | 5391.9 |
| 32.5° | 4893.9 | 4898.2 | 5022.7 | 5190.1 | 4728.6 | 4387.3 | 4108.3 | 4887.5 | 5314.6 | 5295.3 |
| 35° | 3500.9 | 3509.4 | 3951.6 | 4778.0 | 4305.8 | 4011.7 | 3990.2 | 4224.2 | 5138.6 | 5147.2 |
| 37.5° | 3369.9 | 3369.9 | 3359.2 | 3494.4 | 3973.1 | 3859.3 | 3902.2 | 3878.6 | 4707.2 | 4728.6 |
| 40° | 3275.5 | 3256.2 | 3241.1 | 3028.6 | 2762.5 | 3752.0 | 3782.0 | 3674.7 | 4449.6 | 4453.9 |
| 42.5° | 3161.7 | 3140.2 | 3144.5 | 2751.7 | 2472.7 | 3485.8 | 3402.1 | 3258.3 | 4020.3 | 4024.6 |
| 45° | 2953.5 | 2990.0 | 3015.8 | 2408.3 | 2386.8 | 2489.9 | 3138.1 | 3048.0 | 3730.5 | 3809.9 |
| 47.5° | 1502.5 | 1534.7 | 2354.7 | 2215.1 | 2264.5 | 2213.0 | 2650.9 | 2653.0 | 3103.8 | 3367.8 |
| 50° | 1363.0 | 1354.4 | 1356.6 | 1292.2 | 2090.6 | 1790.1 | 1916.8 | 2431.9 | 2485.6 | 2863.4 |
| 52.5° | 1270.7 | 1268.5 | 1137.6 | 1011.0 | 1313.6 | 1575.5 | 1390.9 | 1760.1 | 1848.1 | 2425.5 |
| 55° | 940.1 | 1008.8 | 897.2 | 950.9 | 822.1 | 1262.1 | 1255.7 | 1588.4 | 1618.4 | 1944.7 |
| 57.5° | 8.6 | 10.7 | 25.8 | 723.4 | 568.8 | 631.1 | 867.2 | 1084.0 | 1137.6 | 1515.4 |
| 60° | 2.1 | 4.3 | 10.7 | 21.5 | 369.2 | 388.5 | 579.5 | 626.8 | 706.2 | 903.7 |
| 62.5° | 0.0 | 0.0 | 4.3 | 10.7 | 19.3 | 158.8 | 184.6 | 201.8 | 311.2 | 461.5 |
| 65° | 0.0 | 0.0 | 2.1 | 6.4 | 10.7 | 25.8 | 45.1 | 94.4 | 135.2 | 167.4 |
| 67.5° | 0.0 | 0.0 | 2.1 | 4.3 | 8.6 | 12.9 | 25.8 | 36.5 | 58.0 | 98.7 |
| 70° | 0.0 | 0.0 | 2.1 | 4.3 | 6.4 | 10.7 | 17.2 | 25.8 | 34.3 | 49.4 |
| 72.5° | 0.0 | 0.0 | 2.1 | 4.3 | 4.3 | 12.9 | 12.9 | 19.3 | 25.8 | 32.2 |
| 75° | 0.0 | 0.0 | 2.1 | 2.1 | 4.3 | 8.6 | 12.9 | 15.0 | 17.2 | 25.8 |
| 77.5° | 0.0 | 0.0 | 2.1 | 4.3 | 6.4 | 8.6 | 10.7 | 17.2 | 15.0 | 15.0 |
| 80° | 0.0 | 0.0 | 2.1 | 6.4 | 6.4 | 10.7 | 12.9 | 17.2 | 10.7 | 10.7 |
| 82.5° | 0.0 | 0.0 | 2.1 | 8.6 | 6.4 | 21.5 | 21.5 | 23.6 | 8.6 | 8.6 |
| 85° | 0.0 | 0.0 | 6.4 | 4.3 | 12.9 | 21.5 | 19.3 | 12.9 | 10.7 | 6.4 |
| 87.5° | 0.0 | 0.0 | 2.1 | 2.1 | 4.3 | 6.4 | 15.0 | 12.9 | 4.3 | 4.3 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6302.0 | 0° | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 | 6302.0 |
| 6263.3 | 2.5° | 6349.2 | 6321.3 | 6379.2 | 6372.8 | 6344.9 | 6332.0 | 6317.0 | 6304.1 | 6209.7 |
| 6267.6 | 5° | 6351.3 | 6308.4 | 6379.2 | 6366.4 | 6362.1 | 6340.6 | 6327.7 | 6347.0 | 6261.2 |
| 6284.8 | 7.5° | 6351.3 | 6308.4 | 6385.7 | 6390.0 | 6383.5 | 6366.4 | 6364.2 | 6377.1 | 6306.3 |
| 6314.8 | 10° | 6394.3 | 6377.1 | 6441.5 | 6447.9 | 6439.3 | 6435.0 | 6424.3 | 6415.7 | 6340.6 |
| 6417.9 | 12.5° | 6484.4 | 6450.1 | 6523.0 | 6542.4 | 6535.9 | 6546.7 | 6520.9 | 6533.8 | 6456.5 |
| 6523.0 | 15° | 6593.9 | 6596.0 | 6651.8 | 6694.8 | 6690.5 | 6724.8 | 6686.2 | 6720.5 | 6664.7 |
| 6643.2 | 17.5° | 6761.3 | 6784.9 | 6864.3 | 6928.7 | 6952.3 | 6978.1 | 6952.3 | 6963.1 | 6883.6 |
| 6510.2 | 20° | 6585.3 | 6673.3 | 7055.4 | 7173.4 | 7222.8 | 7246.4 | 7203.5 | 7216.3 | 7136.9 |
| 6347.0 | 22.5° | 6426.5 | 6540.2 | 6879.4 | 7248.5 | 7400.9 | 7448.2 | 7433.1 | 7431.0 | 7400.9 |
| 6025.1 | 25° | 6192.5 | 6422.2 | 6574.6 | 6965.2 | 7443.9 | 7529.7 | 7538.3 | 7536.2 | 7491.1 |
| 5827.6 | 27.5° | 5904.9 | 5956.4 | 6351.3 | 6589.6 | 7143.4 | 7469.6 | 7456.8 | 7394.5 | 7334.4 |
| 5417.6 | 30° | 5537.8 | 5771.8 | 5949.9 | 6329.9 | 6754.9 | 7285.0 | 7285.0 | 7237.8 | 7175.6 |
| 5271.7 | 32.5° | 5351.1 | 5653.7 | 5819.0 | 5956.4 | 6319.1 | 7079.0 | 7164.8 | 7115.5 | 7066.1 |
| 5157.9 | 35° | 5252.4 | 5297.4 | 5683.8 | 5808.3 | 6115.2 | 6681.9 | 7029.6 | 6980.2 | 6943.7 |
| 4855.3 | 37.5° | 5035.6 | 5140.7 | 5321.0 | 5653.7 | 5748.2 | 6357.8 | 6849.3 | 6823.5 | 6780.6 |
| 4462.5 | 40° | 4552.6 | 4833.8 | 5110.7 | 5426.2 | 5524.9 | 5941.4 | 6630.4 | 6641.1 | 6583.1 |
| 4043.9 | 42.5° | 4267.1 | 4458.2 | 4891.7 | 5104.2 | 5370.4 | 5673.1 | 6417.9 | 6435.0 | 6394.3 |
| 3831.4 | 45° | 3932.3 | 4144.8 | 4449.6 | 4835.9 | 5198.7 | 5303.9 | 6042.2 | 6222.5 | 6188.2 |
| 3408.6 | 47.5° | 3625.3 | 3797.1 | 4170.5 | 4561.2 | 4962.6 | 4947.6 | 5610.8 | 5949.9 | 5902.7 |
| 3084.4 | 50° | 3189.6 | 3490.1 | 3666.1 | 4024.6 | 4623.4 | 4664.2 | 5151.5 | 5630.1 | 5591.5 |
| 2620.8 | 52.5° | 2689.5 | 3067.3 | 3404.3 | 3732.7 | 4280.0 | 4376.6 | 4724.3 | 5303.9 | 5278.1 |
| 2002.6 | 55° | 2350.4 | 2625.1 | 3005.0 | 3269.0 | 3863.6 | 4121.2 | 4404.5 | 4992.6 | 4979.8 |
| 1646.3 | 57.5° | 1672.1 | 2202.3 | 2515.6 | 2884.8 | 3198.2 | 3664.0 | 3874.3 | 4359.4 | 4239.2 |
| 912.2 | 60° | 1133.3 | 1382.3 | 1764.4 | 2161.5 | 2371.8 | 2837.6 | 3032.9 | 3421.4 | 3389.2 |
| 545.2 | 62.5° | 598.9 | 828.5 | 1101.1 | 1300.7 | 1453.1 | 1906.0 | 1987.6 | 2406.2 | 2395.4 |
| 218.9 | 65° | 264.0 | 349.9 | 596.7 | 699.7 | 856.4 | 1066.8 | 1137.6 | 1287.9 | 1251.4 |
| 107.3 | 67.5° | 137.4 | 208.2 | 337.0 | 414.3 | 521.6 | 601.0 | 659.0 | 706.2 | 736.2 |
| 70.8 | 70° | 83.7 | 152.4 | 208.2 | 287.6 | 358.5 | 422.8 | 467.9 | 532.3 | 571.0 |
| 36.5 | 72.5° | 62.2 | 96.6 | 143.8 | 221.1 | 259.7 | 334.8 | 379.9 | 427.1 | 461.5 |
| 30.1 | 75° | 34.3 | 64.4 | 115.9 | 173.9 | 208.2 | 272.6 | 313.4 | 345.6 | 356.3 |
| 17.2 | 77.5° | 21.5 | 49.4 | 96.6 | 135.2 | 163.1 | 221.1 | 210.4 | 240.4 | 266.2 |
| 12.9 | 80° | 15.0 | 36.5 | 75.1 | 111.6 | 113.8 | 141.7 | 167.4 | 193.2 | 210.4 |
| 8.6 | 82.5° | 10.7 | 30.1 | 55.8 | 85.9 | 75.1 | 109.5 | 130.9 | 150.3 | 109.5 |
| 6.4 | 85° | 8.6 | 21.5 | 27.9 | 51.5 | 42.9 | 77.3 | 66.5 | 64.4 | 42.9 |
| 4.3 | 87.5° | 6.4 | 10.7 | 19.3 | 23.6 | 17.2 | 17.2 | 21.5 | 25.8 | 21.5 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
6302.0
6145.3
6188.2
6224.7
6278.4
6387.8
6572.4
6815.0
7081.1
7304.4
7422.4
7287.2
7152.0
7025.3
6892.2
6737.7
6570.3
6390.0
6192.5
5937.1
5597.9
5295.3
4994.8
4226.4
3391.4
2397.6
1236.4
736.2
573.1
467.9
349.9
270.5
212.5
79.4
42.9
21.5
0.0

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