

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: P637328

Luminaire Tested: **IFLD-S-SA6B-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637328
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29316 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

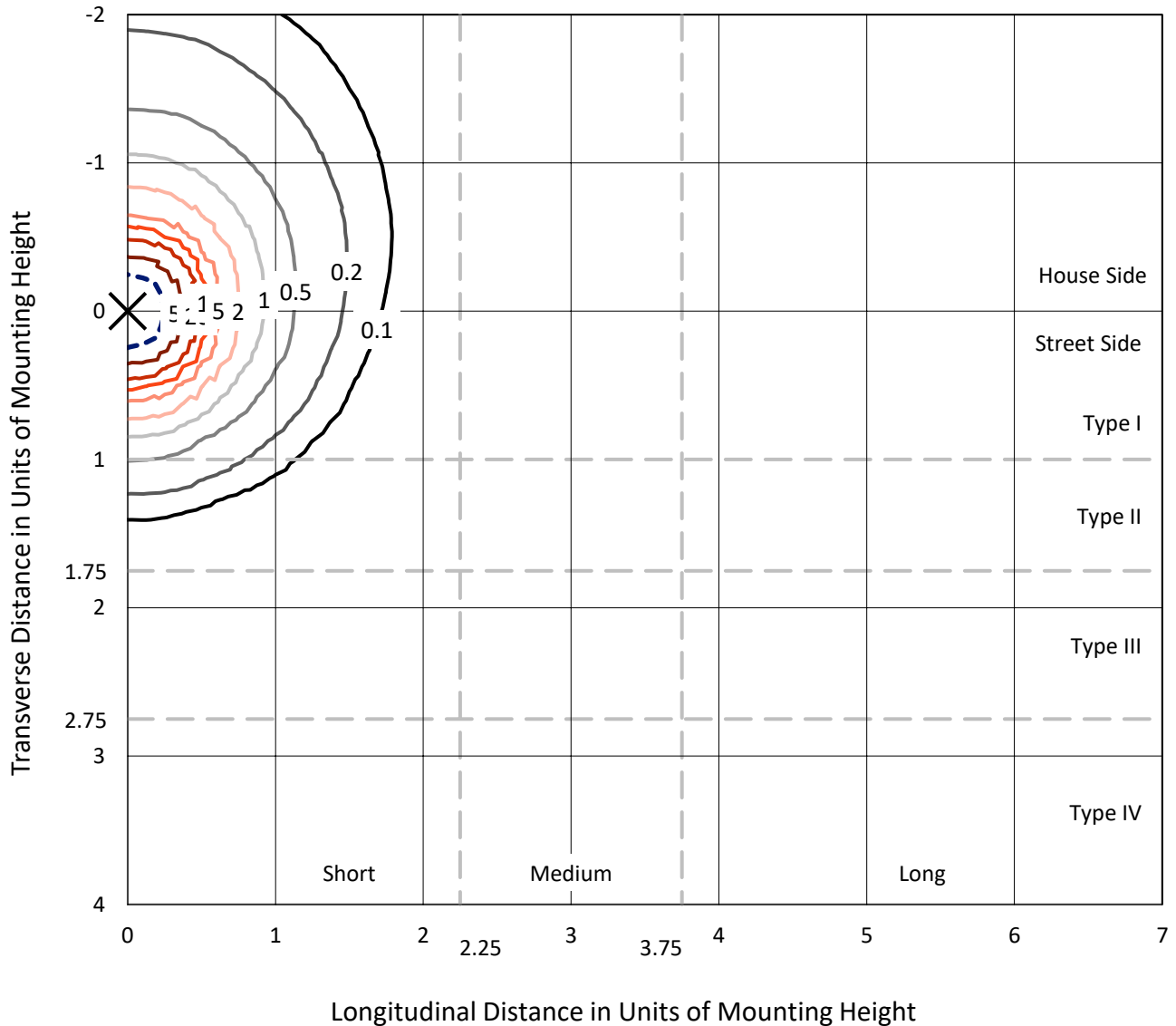
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

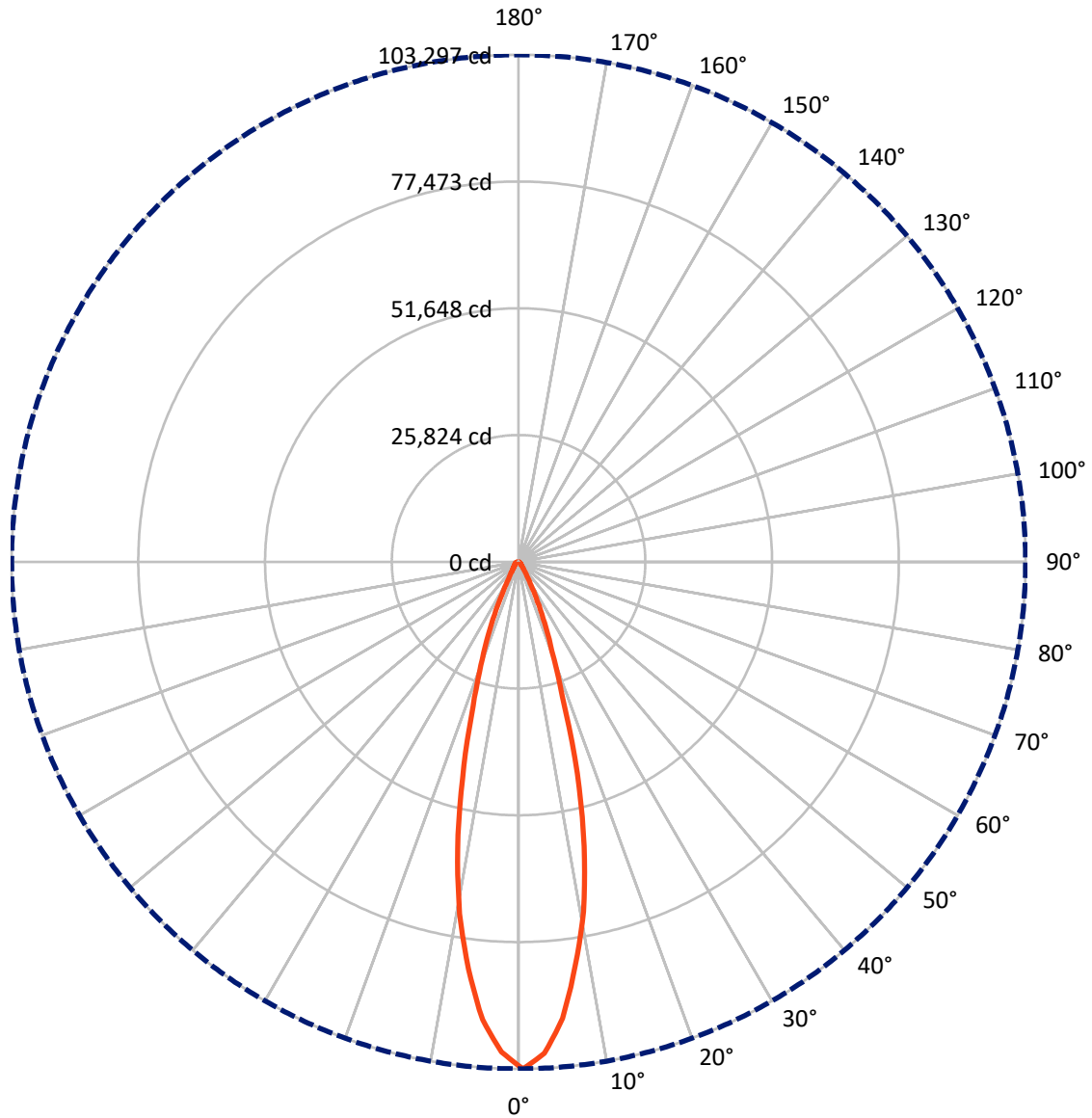
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 258.2 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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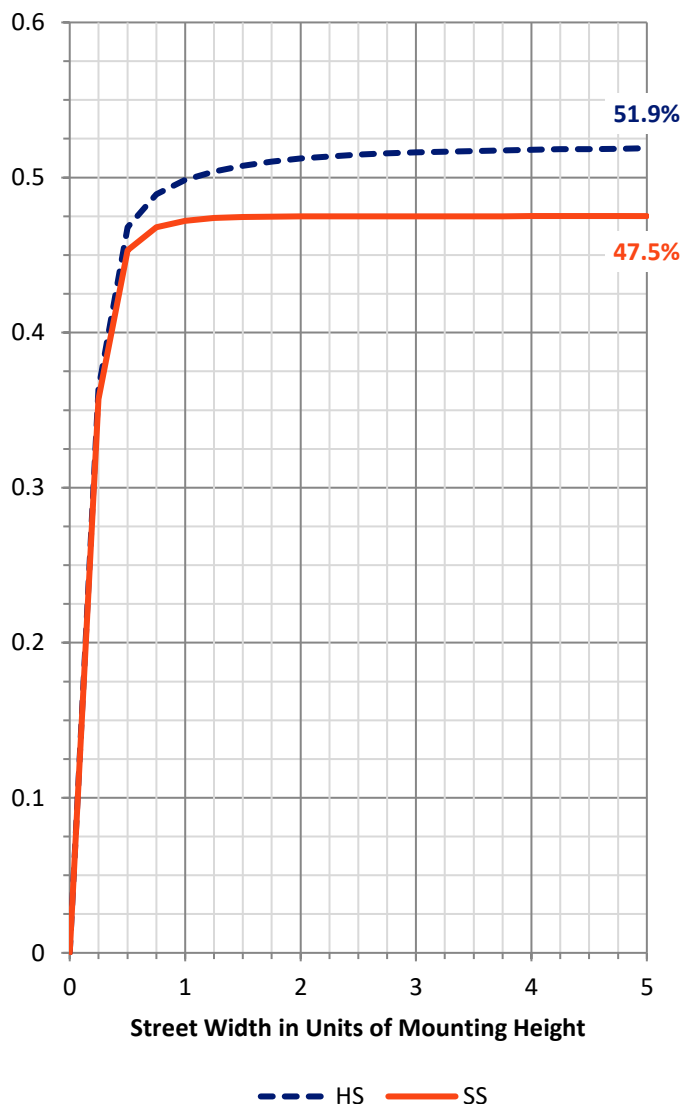
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15457.4 | 0.0 | 15457.4 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 13858.6 | 0.0 | 13858.6 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 29316.0 | 0.0 | 29316.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8337.0 | 28.4 |
| 10°-20° | 12626.3 | 43.1 |
| 20°-30° | 5328.4 | 18.2 |
| 30°-40° | 1389.7 | 4.7 |
| 40°-50° | 702.9 | 2.4 |
| 50°-60° | 459.4 | 1.6 |
| 60°-70° | 275.3 | 0.9 |
| 70°-80° | 144.8 | 0.5 |
| 80°-90° | 52.3 | 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° | 29316.0 | 100.0 |
| 0°-180° | 29316.0 | 100.0 |

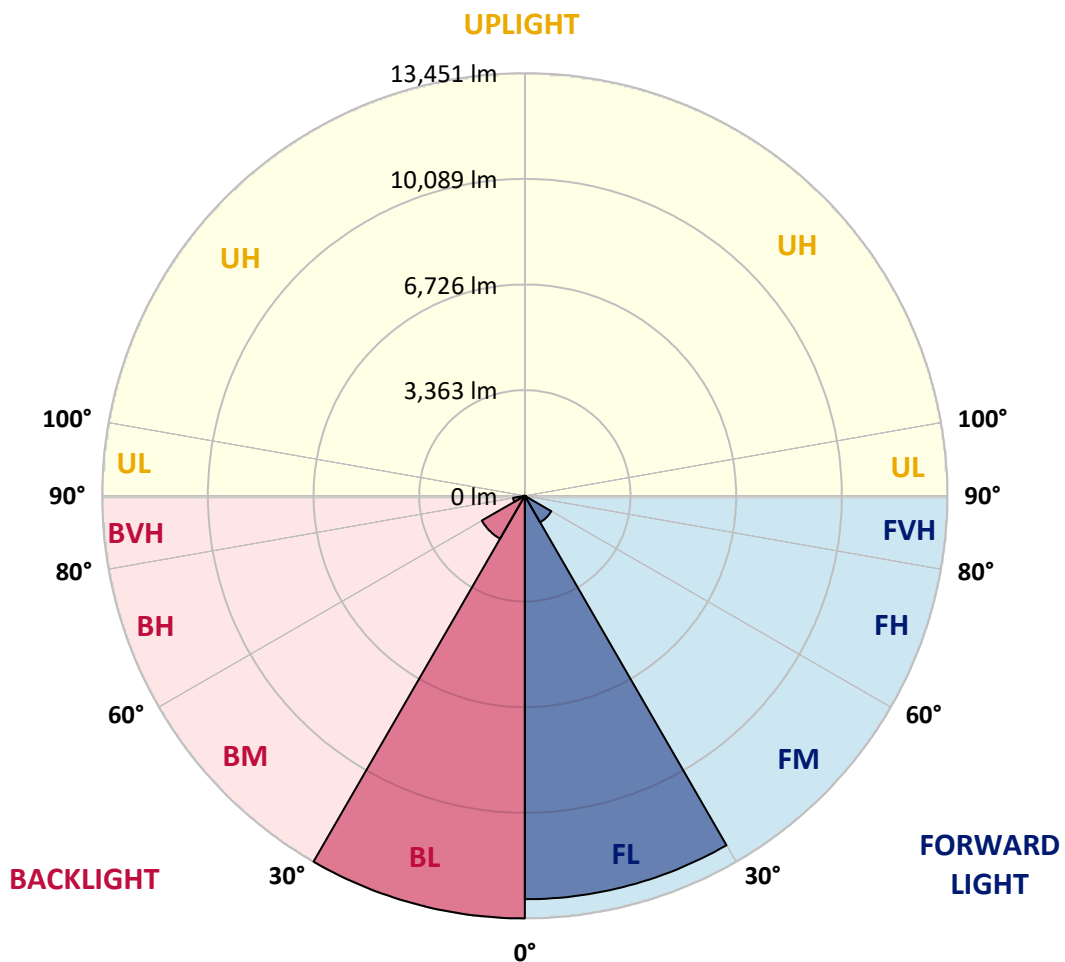


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 12840.2 | 43.8 | | | |
| FM (30°-60°) | 972.4 | 3.3 | | | |
| FH (60°-80°) | 39.6 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 6.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 13451.4 | 45.9 | B5 | | |
| BM (30°-60°) | 1579.6 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 380.4 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 46.0 | 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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 |
| 2.5° | 100287.7 | 100343.7 | 100136.3 | 100584.0 | 100235.0 | 101170.0 | 100705.8 | 101430.1 | 101186.5 | 101591.4 |
| 5° | 93439.9 | 93347.7 | 93288.5 | 93983.1 | 93782.3 | 94786.4 | 94144.4 | 93933.7 | 94585.6 | 94467.1 |
| 7.5° | 83099.0 | 83342.6 | 83204.4 | 83385.4 | 83487.5 | 84633.2 | 84995.3 | 84712.2 | 84722.1 | 84886.7 |
| 10° | 72498.1 | 72139.2 | 71628.9 | 71968.0 | 72685.7 | 73186.1 | 72985.3 | 73400.1 | 73307.9 | 73699.7 |
| 12.5° | 59454.3 | 59737.4 | 59451.0 | 59148.1 | 60402.4 | 60264.2 | 60613.1 | 60840.3 | 60270.7 | 61538.2 |
| 15° | 44784.1 | 44932.3 | 45281.2 | 45258.2 | 46222.8 | 46417.1 | 46371.0 | 46611.3 | 46166.9 | 46377.6 |
| 17.5° | 28770.7 | 29271.2 | 30209.4 | 31796.3 | 33580.7 | 33788.1 | 33735.4 | 33537.9 | 33323.9 | 33086.8 |
| 20° | 19325.4 | 19272.7 | 19611.8 | 20076.0 | 23769.9 | 24747.6 | 24718.0 | 24099.1 | 23203.6 | 23032.4 |
| 22.5° | 13537.6 | 13636.4 | 13590.3 | 14051.2 | 14815.0 | 17511.3 | 17178.8 | 16550.0 | 16257.0 | 16066.1 |
| 25° | 8905.5 | 8869.3 | 9099.7 | 9238.0 | 9893.1 | 10222.4 | 11387.8 | 11154.1 | 10703.0 | 10752.4 |
| 27.5° | 5428.9 | 5475.0 | 5560.6 | 5679.1 | 6143.3 | 6037.9 | 6703.0 | 6791.9 | 6647.0 | 6492.3 |
| 30° | 3331.7 | 3364.7 | 3433.8 | 3519.4 | 3680.7 | 3565.5 | 3749.8 | 4069.2 | 4016.5 | 3907.9 |
| 32.5° | 2261.8 | 2265.0 | 2314.4 | 2347.4 | 2327.6 | 2219.0 | 2278.2 | 2581.1 | 2587.7 | 2577.8 |
| 35° | 1626.4 | 1626.4 | 1672.4 | 1698.8 | 1642.8 | 1553.9 | 1563.8 | 1751.5 | 1833.8 | 1850.2 |
| 37.5° | 1122.6 | 1125.9 | 1205.0 | 1284.0 | 1221.4 | 1198.4 | 1158.9 | 1284.0 | 1415.7 | 1435.4 |
| 40° | 852.7 | 849.4 | 888.9 | 948.2 | 954.7 | 911.9 | 925.1 | 1004.1 | 1139.1 | 1155.6 |
| 42.5° | 691.4 | 694.7 | 714.4 | 707.8 | 711.1 | 767.1 | 786.8 | 823.1 | 948.2 | 977.8 |
| 45° | 582.7 | 586.0 | 595.9 | 563.0 | 549.8 | 635.4 | 661.7 | 681.5 | 786.8 | 823.1 |
| 47.5° | 480.7 | 487.2 | 497.1 | 460.9 | 454.3 | 510.3 | 556.4 | 576.1 | 668.3 | 707.8 |
| 50° | 345.7 | 352.3 | 388.5 | 368.7 | 388.5 | 401.7 | 464.2 | 493.8 | 556.4 | 609.1 |
| 52.5° | 250.2 | 256.8 | 266.7 | 270.0 | 319.3 | 325.9 | 372.0 | 418.1 | 447.7 | 507.0 |
| 55° | 197.5 | 204.1 | 197.5 | 190.9 | 233.7 | 270.0 | 286.4 | 335.8 | 358.9 | 428.0 |
| 57.5° | 111.9 | 118.5 | 128.4 | 148.2 | 154.7 | 207.4 | 223.9 | 266.7 | 286.4 | 352.3 |
| 60° | 19.8 | 23.0 | 36.2 | 88.9 | 108.6 | 131.7 | 167.9 | 204.1 | 230.5 | 276.5 |
| 62.5° | 3.3 | 3.3 | 6.6 | 19.8 | 62.6 | 92.2 | 121.8 | 144.9 | 167.9 | 210.7 |
| 65° | 0.0 | 0.0 | 3.3 | 6.6 | 16.5 | 52.7 | 65.8 | 85.6 | 115.2 | 151.4 |
| 67.5° | 0.0 | 0.0 | 3.3 | 6.6 | 9.9 | 19.8 | 29.6 | 52.7 | 65.8 | 102.1 |
| 70° | 0.0 | 0.0 | 3.3 | 6.6 | 9.9 | 13.2 | 16.5 | 23.0 | 39.5 | 62.6 |
| 72.5° | 0.0 | 0.0 | 3.3 | 6.6 | 9.9 | 13.2 | 16.5 | 19.8 | 19.8 | 39.5 |
| 75° | 0.0 | 0.0 | 3.3 | 6.6 | 9.9 | 16.5 | 19.8 | 19.8 | 16.5 | 16.5 |
| 77.5° | 0.0 | 0.0 | 3.3 | 6.6 | 13.2 | 19.8 | 23.0 | 19.8 | 13.2 | 13.2 |
| 80° | 0.0 | 0.0 | 6.6 | 9.9 | 16.5 | 23.0 | 29.6 | 23.0 | 13.2 | 6.6 |
| 82.5° | 0.0 | 0.0 | 6.6 | 13.2 | 16.5 | 26.3 | 36.2 | 29.6 | 13.2 | 6.6 |
| 85° | 0.0 | 0.0 | 3.3 | 9.9 | 19.8 | 26.3 | 36.2 | 26.3 | 13.2 | 3.3 |
| 87.5° | 0.0 | 0.0 | 3.3 | 3.3 | 6.6 | 9.9 | 19.8 | 16.5 | 6.6 | 3.3 |
| 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° |
|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 103296.8 | 0° | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 | 103296.8 |
| 100824.4 | 2.5° | 101403.8 | 101930.5 | 102039.2 | 101894.3 | 102105.0 | 101726.4 | 101436.7 | 100686.1 | 100235.0 |
| 94430.9 | 5° | 95039.9 | 94960.9 | 95510.7 | 95691.8 | 95668.7 | 95379.0 | 94974.1 | 94519.7 | 94078.6 |
| 84567.4 | 7.5° | 85094.1 | 85196.2 | 85696.6 | 86015.9 | 85854.6 | 85492.5 | 85212.6 | 84870.2 | 84573.9 |
| 73841.3 | 10° | 74516.2 | 73815.0 | 74437.2 | 74437.2 | 74868.5 | 73844.6 | 73940.1 | 73077.5 | 73117.0 |
| 61515.2 | 12.5° | 61725.9 | 61979.4 | 62081.5 | 62374.5 | 61870.8 | 61327.5 | 60662.5 | 60530.8 | 60119.3 |
| 45975.9 | 15° | 46637.6 | 47361.9 | 46739.7 | 47803.1 | 47289.5 | 46723.2 | 46621.2 | 45600.6 | 45923.2 |
| 33346.9 | 17.5° | 33182.3 | 33982.3 | 34232.5 | 34841.6 | 34374.1 | 34038.3 | 33613.6 | 33304.1 | 33281.1 |
| 23345.2 | 20° | 23529.5 | 24332.8 | 24517.2 | 25248.1 | 25195.4 | 25090.0 | 24731.2 | 24339.4 | 23914.7 |
| 15891.6 | 22.5° | 16131.9 | 16787.0 | 17399.4 | 18383.8 | 18367.3 | 18057.8 | 18021.6 | 17468.5 | 17478.4 |
| 10735.9 | 25° | 10847.9 | 11325.2 | 11470.1 | 12477.5 | 12589.5 | 12556.5 | 12368.9 | 11855.3 | 12049.5 |
| 6558.1 | 27.5° | 6564.7 | 6982.8 | 7473.3 | 7828.9 | 8164.7 | 8112.0 | 7924.4 | 7638.0 | 7512.9 |
| 3940.8 | 30° | 4046.1 | 4233.8 | 4414.9 | 4842.9 | 5043.7 | 5149.0 | 5060.1 | 4793.5 | 4813.2 |
| 2594.3 | 32.5° | 2650.2 | 2808.3 | 2940.0 | 3209.9 | 3315.3 | 3509.5 | 3473.3 | 3417.3 | 3351.5 |
| 1866.7 | 35° | 1932.5 | 2047.8 | 2136.7 | 2261.8 | 2396.7 | 2561.4 | 2587.7 | 2564.6 | 2538.3 |
| 1442.0 | 37.5° | 1474.9 | 1593.4 | 1695.5 | 1748.2 | 1853.5 | 1981.9 | 2054.3 | 2051.1 | 2031.3 |
| 1175.3 | 40° | 1198.4 | 1287.3 | 1379.4 | 1448.6 | 1521.0 | 1616.5 | 1705.4 | 1715.2 | 1715.2 |
| 987.7 | 42.5° | 1000.8 | 1076.6 | 1168.7 | 1241.2 | 1293.8 | 1382.7 | 1474.9 | 1481.5 | 1474.9 |
| 836.2 | 45° | 856.0 | 921.8 | 1010.7 | 1096.3 | 1139.1 | 1205.0 | 1293.8 | 1313.6 | 1300.4 |
| 717.7 | 47.5° | 744.0 | 803.3 | 879.0 | 971.2 | 1017.3 | 1076.6 | 1158.9 | 1181.9 | 1178.6 |
| 618.9 | 50° | 638.7 | 707.8 | 783.5 | 859.3 | 918.5 | 974.5 | 1053.5 | 1079.8 | 1070.0 |
| 526.8 | 52.5° | 563.0 | 625.5 | 691.4 | 773.7 | 842.8 | 892.2 | 954.7 | 1000.8 | 987.7 |
| 444.5 | 55° | 470.8 | 546.5 | 615.6 | 684.8 | 770.4 | 823.1 | 882.3 | 938.3 | 925.1 |
| 375.3 | 57.5° | 408.2 | 470.8 | 549.8 | 612.4 | 698.0 | 760.5 | 819.8 | 879.0 | 875.7 |
| 306.2 | 60° | 342.4 | 408.2 | 484.0 | 549.8 | 628.8 | 698.0 | 757.2 | 823.1 | 829.6 |
| 230.5 | 62.5° | 270.0 | 349.0 | 414.8 | 490.5 | 569.6 | 645.3 | 698.0 | 763.8 | 773.7 |
| 174.5 | 65° | 204.1 | 286.4 | 358.9 | 431.3 | 510.3 | 592.6 | 638.7 | 694.7 | 704.5 |
| 128.4 | 67.5° | 151.4 | 220.6 | 306.2 | 372.0 | 454.3 | 533.3 | 576.1 | 622.2 | 638.7 |
| 79.0 | 70° | 115.2 | 167.9 | 256.8 | 319.3 | 404.9 | 467.5 | 513.6 | 553.1 | 566.3 |
| 52.7 | 72.5° | 72.4 | 131.7 | 207.4 | 273.3 | 349.0 | 404.9 | 437.9 | 460.9 | 480.7 |
| 29.6 | 75° | 49.4 | 102.1 | 167.9 | 233.7 | 289.7 | 332.5 | 362.1 | 381.9 | 398.4 |
| 13.2 | 77.5° | 29.6 | 79.0 | 138.3 | 194.2 | 230.5 | 263.4 | 293.0 | 306.2 | 316.1 |
| 9.9 | 80° | 16.5 | 59.3 | 115.2 | 158.0 | 181.1 | 204.1 | 227.2 | 243.6 | 250.2 |
| 6.6 | 82.5° | 9.9 | 46.1 | 92.2 | 121.8 | 131.7 | 154.7 | 177.8 | 187.7 | 187.7 |
| 3.3 | 85° | 6.6 | 32.9 | 62.6 | 88.9 | 95.5 | 111.9 | 118.5 | 125.1 | 131.7 |
| 3.3 | 87.5° | 6.6 | 19.8 | 39.5 | 49.4 | 52.7 | 59.3 | 62.6 | 69.1 | 75.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
103296.8
99902.5
93584.8
83569.8
72731.8
59744.0
45600.6
32668.7
23730.3
17287.5
11743.4
7404.2
4727.6
3328.4
2528.4
2021.4
1695.5
1468.3
1300.4
1172.0
1063.4
984.4
931.7
879.0
832.9
780.3
714.4
645.3
572.8
477.4
395.1
312.8
243.6
184.4
128.4
72.4
0.0

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