

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: P637309

Luminaire Tested: **IFLD-L-SA7B-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637309
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28724.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

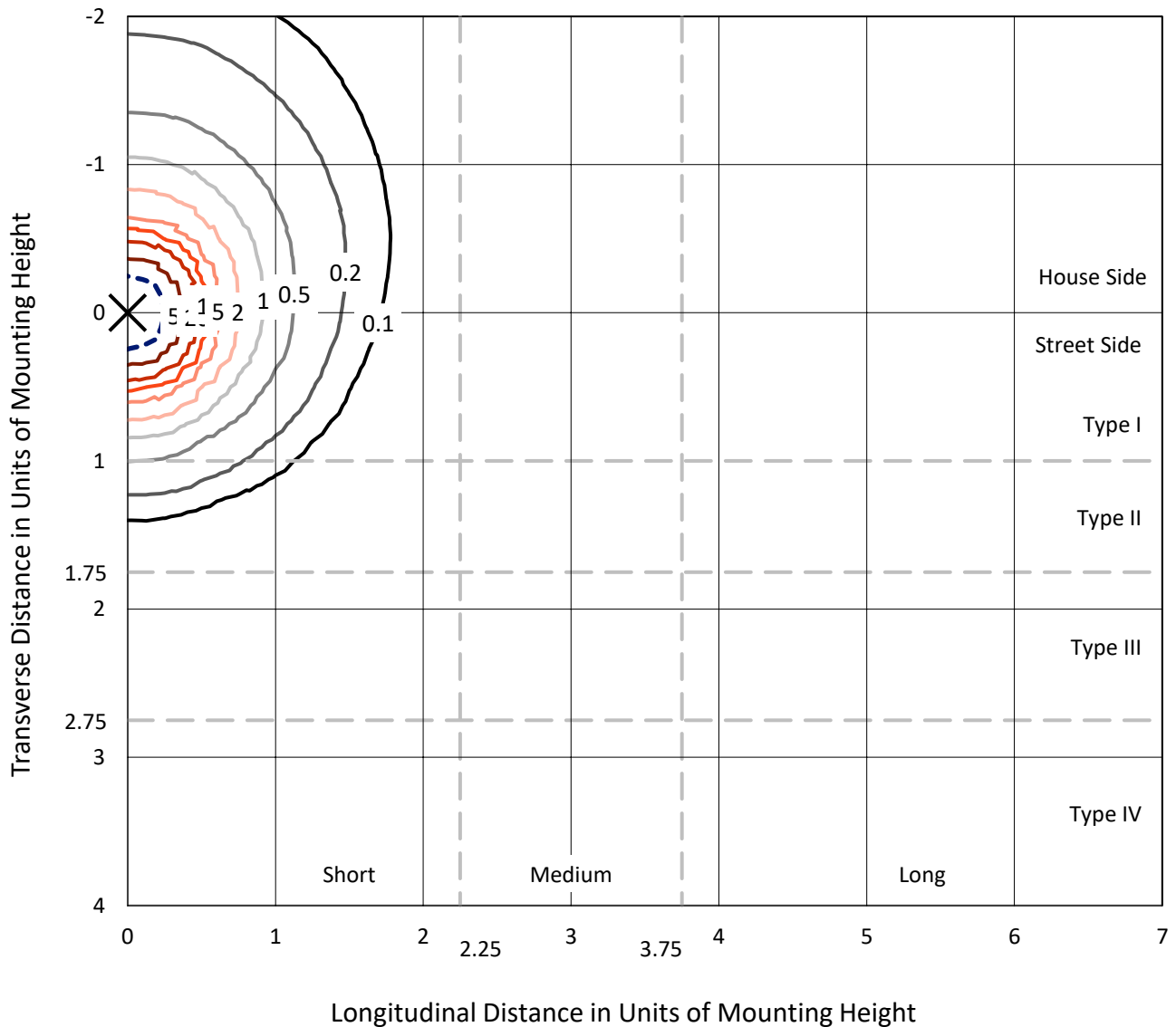
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

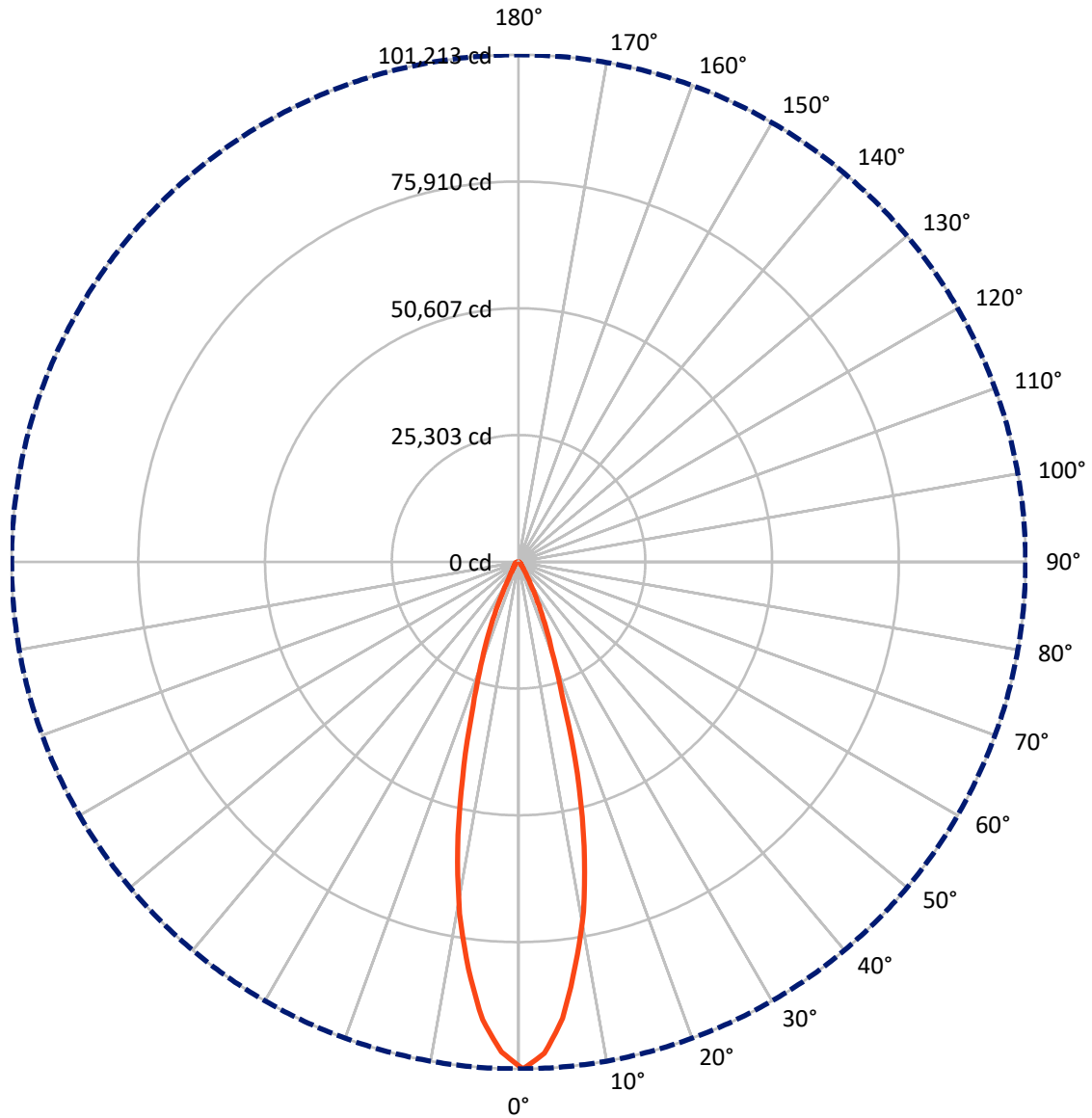
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 253 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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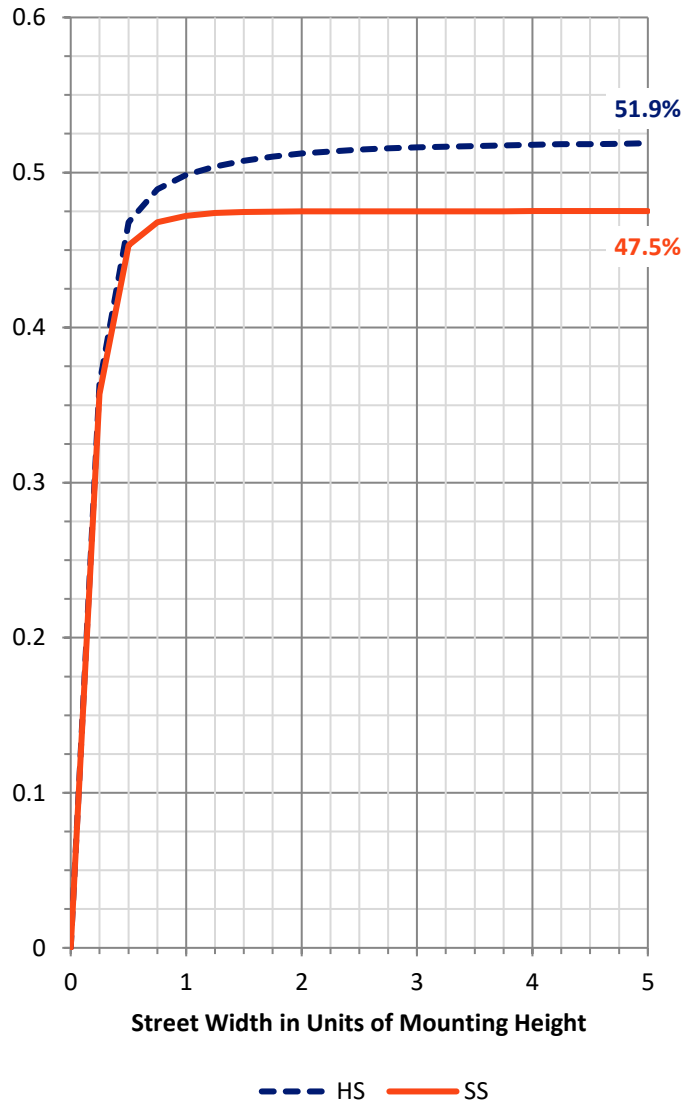
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15145.5 | 0.0 | 15145.5 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 13579.1 | 0.0 | 13579.1 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 28724.6 | 0.0 | 28724.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8168.8 | 28.4 |
| 10°-20° | 12371.6 | 43.1 |
| 20°-30° | 5220.9 | 18.2 |
| 30°-40° | 1361.6 | 4.7 |
| 40°-50° | 688.7 | 2.4 |
| 50°-60° | 450.2 | 1.6 |
| 60°-70° | 269.7 | 0.9 |
| 70°-80° | 141.9 | 0.5 |
| 80°-90° | 51.3 | 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° | 28724.6 | 100.0 |
| 0°-180° | 28724.6 | 100.0 |

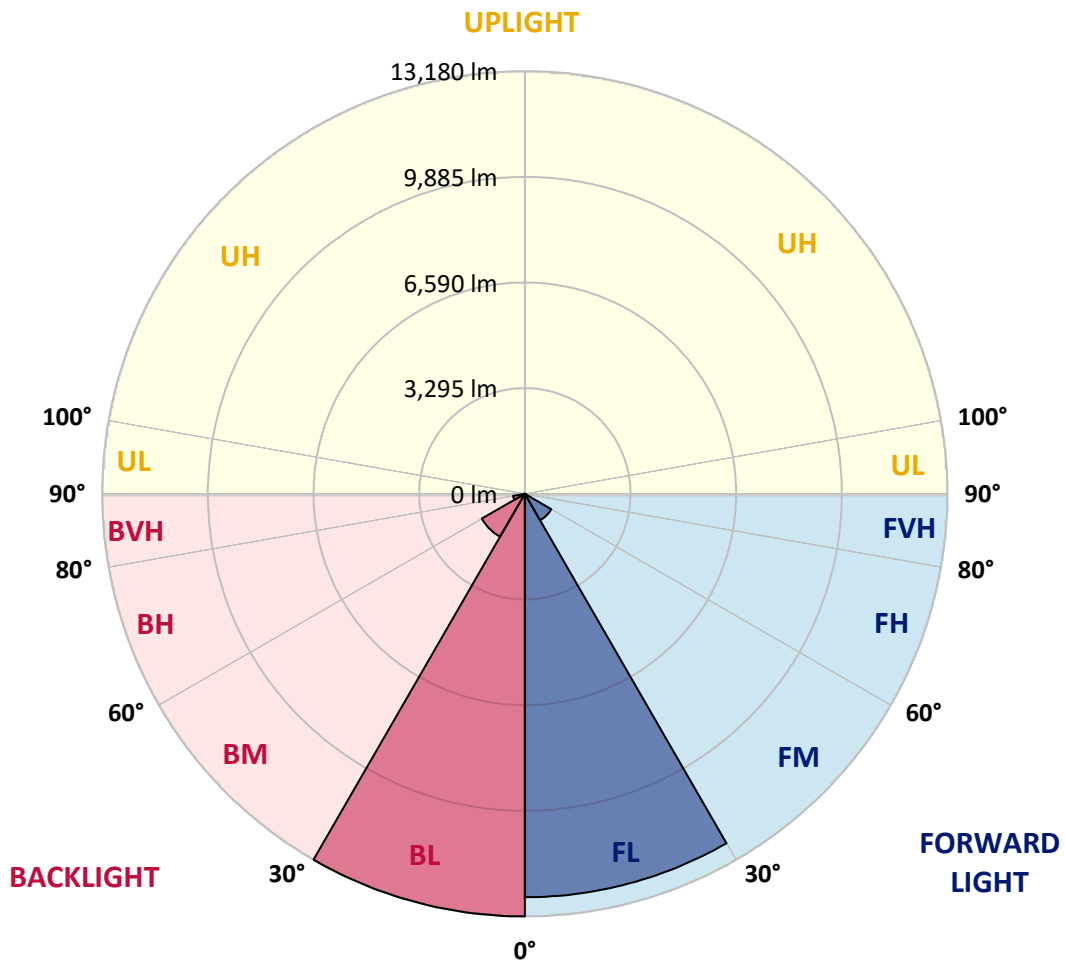


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 12581.2 | 43.8 | | | |
| FM (30°-60°) | 952.8 | 3.3 | | | |
| FH (60°-80°) | 38.8 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 6.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 13180.1 | 45.9 | B5 | | |
| BM (30°-60°) | 1547.7 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 372.7 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 45.0 | 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° | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 |
| 2.5° | 98264.7 | 98319.5 | 98116.3 | 98555.0 | 98213.1 | 99129.2 | 98674.4 | 99384.0 | 99145.3 | 99542.1 |
| 5° | 91555.0 | 91464.7 | 91406.6 | 92087.3 | 91890.5 | 92874.4 | 92245.3 | 92038.9 | 92677.6 | 92561.4 |
| 7.5° | 81422.7 | 81661.4 | 81525.9 | 81703.4 | 81803.4 | 82925.9 | 83280.8 | 83003.4 | 83013.0 | 83174.3 |
| 10° | 71035.6 | 70684.0 | 70184.0 | 70516.2 | 71219.5 | 71709.8 | 71513.0 | 71919.5 | 71829.2 | 72213.0 |
| 12.5° | 58254.9 | 58532.4 | 58251.7 | 57954.9 | 59184.0 | 59048.5 | 59390.4 | 59613.0 | 59054.9 | 60296.9 |
| 15° | 43880.7 | 44025.9 | 44367.8 | 44345.2 | 45290.4 | 45480.7 | 45435.6 | 45671.0 | 45235.6 | 45442.0 |
| 17.5° | 28190.4 | 28680.7 | 29600.1 | 31154.9 | 32903.3 | 33106.5 | 33054.9 | 32861.3 | 32651.7 | 32419.4 |
| 20° | 18935.5 | 18883.9 | 19216.2 | 19671.0 | 23290.4 | 24248.4 | 24219.4 | 23612.9 | 22735.5 | 22567.8 |
| 22.5° | 13264.5 | 13361.3 | 13316.2 | 13767.8 | 14516.2 | 17158.1 | 16832.3 | 16216.2 | 15929.1 | 15742.0 |
| 25° | 8725.8 | 8690.3 | 8916.1 | 9051.6 | 9693.6 | 10016.1 | 11158.1 | 10929.1 | 10487.1 | 10535.5 |
| 27.5° | 5319.4 | 5364.5 | 5448.4 | 5564.5 | 6019.4 | 5916.1 | 6567.8 | 6654.8 | 6512.9 | 6361.3 |
| 30° | 3264.5 | 3296.8 | 3364.5 | 3448.4 | 3606.5 | 3493.6 | 3674.2 | 3987.1 | 3935.5 | 3829.0 |
| 32.5° | 2216.1 | 2219.4 | 2267.7 | 2300.0 | 2280.6 | 2174.2 | 2232.3 | 2529.0 | 2535.5 | 2525.8 |
| 35° | 1593.6 | 1593.6 | 1638.7 | 1664.5 | 1609.7 | 1522.6 | 1532.3 | 1716.1 | 1796.8 | 1812.9 |
| 37.5° | 1100.0 | 1103.2 | 1180.6 | 1258.1 | 1196.8 | 1174.2 | 1135.5 | 1258.1 | 1387.1 | 1406.5 |
| 40° | 835.5 | 832.3 | 871.0 | 929.0 | 935.5 | 893.5 | 906.5 | 983.9 | 1116.1 | 1132.3 |
| 42.5° | 677.4 | 680.6 | 700.0 | 693.5 | 696.8 | 751.6 | 771.0 | 806.5 | 929.0 | 958.1 |
| 45° | 571.0 | 574.2 | 583.9 | 551.6 | 538.7 | 622.6 | 648.4 | 667.7 | 771.0 | 806.5 |
| 47.5° | 471.0 | 477.4 | 487.1 | 451.6 | 445.2 | 500.0 | 545.2 | 564.5 | 654.8 | 693.5 |
| 50° | 338.7 | 345.2 | 380.6 | 361.3 | 380.6 | 393.5 | 454.8 | 483.9 | 545.2 | 596.8 |
| 52.5° | 245.2 | 251.6 | 261.3 | 264.5 | 312.9 | 319.4 | 364.5 | 409.7 | 438.7 | 496.8 |
| 55° | 193.5 | 200.0 | 193.5 | 187.1 | 229.0 | 264.5 | 280.6 | 329.0 | 351.6 | 419.4 |
| 57.5° | 109.7 | 116.1 | 125.8 | 145.2 | 151.6 | 203.2 | 219.4 | 261.3 | 280.6 | 345.2 |
| 60° | 19.4 | 22.6 | 35.5 | 87.1 | 106.5 | 129.0 | 164.5 | 200.0 | 225.8 | 271.0 |
| 62.5° | 3.2 | 3.2 | 6.5 | 19.4 | 61.3 | 90.3 | 119.4 | 141.9 | 164.5 | 206.5 |
| 65° | 0.0 | 0.0 | 3.2 | 6.5 | 16.1 | 51.6 | 64.5 | 83.9 | 112.9 | 148.4 |
| 67.5° | 0.0 | 0.0 | 3.2 | 6.5 | 9.7 | 19.4 | 29.0 | 51.6 | 64.5 | 100.0 |
| 70° | 0.0 | 0.0 | 3.2 | 6.5 | 9.7 | 12.9 | 16.1 | 22.6 | 38.7 | 61.3 |
| 72.5° | 0.0 | 0.0 | 3.2 | 6.5 | 9.7 | 12.9 | 16.1 | 19.4 | 19.4 | 38.7 |
| 75° | 0.0 | 0.0 | 3.2 | 6.5 | 9.7 | 16.1 | 19.4 | 19.4 | 16.1 | 16.1 |
| 77.5° | 0.0 | 0.0 | 3.2 | 6.5 | 12.9 | 19.4 | 22.6 | 19.4 | 12.9 | 12.9 |
| 80° | 0.0 | 0.0 | 6.5 | 9.7 | 16.1 | 22.6 | 29.0 | 22.6 | 12.9 | 6.5 |
| 82.5° | 0.0 | 0.0 | 6.5 | 12.9 | 16.1 | 25.8 | 35.5 | 29.0 | 12.9 | 6.5 |
| 85° | 0.0 | 0.0 | 3.2 | 9.7 | 19.4 | 25.8 | 35.5 | 25.8 | 12.9 | 3.2 |
| 87.5° | 0.0 | 0.0 | 3.2 | 3.2 | 6.5 | 9.7 | 19.4 | 16.1 | 6.5 | 3.2 |
| 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° |
|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 101213.1 | 0° | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 | 101213.1 |
| 98790.5 | 2.5° | 99358.2 | 99874.4 | 99980.8 | 99838.9 | 100045.3 | 99674.4 | 99390.5 | 98655.0 | 98213.1 |
| 92526.0 | 5° | 93122.7 | 93045.3 | 93584.0 | 93761.4 | 93738.9 | 93455.0 | 93058.2 | 92613.1 | 92180.8 |
| 82861.4 | 7.5° | 83377.6 | 83477.6 | 83967.9 | 84280.8 | 84122.7 | 83767.9 | 83493.7 | 83158.2 | 82867.9 |
| 72351.7 | 10° | 73013.0 | 72325.9 | 72935.6 | 72935.6 | 73358.2 | 72355.0 | 72448.5 | 71603.3 | 71642.1 |
| 60274.3 | 12.5° | 60480.7 | 60729.1 | 60829.1 | 61116.2 | 60622.7 | 60090.4 | 59438.8 | 59309.8 | 58906.6 |
| 45048.5 | 15° | 45696.9 | 46406.5 | 45796.9 | 46838.8 | 46335.6 | 45780.7 | 45680.7 | 44680.7 | 44996.9 |
| 32674.2 | 17.5° | 32513.0 | 33296.8 | 33542.0 | 34138.8 | 33680.7 | 33351.7 | 32935.5 | 32632.3 | 32609.7 |
| 22874.2 | 20° | 23054.9 | 23842.0 | 24022.6 | 24738.8 | 24687.1 | 24583.9 | 24232.3 | 23848.4 | 23432.3 |
| 15571.0 | 22.5° | 15806.5 | 16448.4 | 17048.4 | 18012.9 | 17996.8 | 17693.6 | 17658.1 | 17116.2 | 17125.8 |
| 10519.4 | 25° | 10629.1 | 11096.8 | 11238.7 | 12225.8 | 12335.5 | 12303.2 | 12119.4 | 11616.1 | 11806.5 |
| 6425.8 | 27.5° | 6432.3 | 6841.9 | 7322.6 | 7671.0 | 8000.0 | 7948.4 | 7764.5 | 7483.9 | 7361.3 |
| 3861.3 | 30° | 3964.5 | 4148.4 | 4325.8 | 4745.2 | 4941.9 | 5045.2 | 4958.1 | 4696.8 | 4716.1 |
| 2541.9 | 32.5° | 2596.8 | 2751.6 | 2880.7 | 3145.2 | 3248.4 | 3438.7 | 3403.2 | 3348.4 | 3283.9 |
| 1829.0 | 35° | 1893.6 | 2006.5 | 2093.6 | 2216.1 | 2348.4 | 2509.7 | 2535.5 | 2512.9 | 2487.1 |
| 1412.9 | 37.5° | 1445.2 | 1561.3 | 1661.3 | 1712.9 | 1816.1 | 1941.9 | 2012.9 | 2009.7 | 1990.3 |
| 1151.6 | 40° | 1174.2 | 1261.3 | 1351.6 | 1419.4 | 1490.3 | 1583.9 | 1671.0 | 1680.6 | 1680.6 |
| 967.7 | 42.5° | 980.6 | 1054.8 | 1145.2 | 1216.1 | 1267.7 | 1354.8 | 1445.2 | 1451.6 | 1445.2 |
| 819.4 | 45° | 838.7 | 903.2 | 990.3 | 1074.2 | 1116.1 | 1180.6 | 1267.7 | 1287.1 | 1274.2 |
| 703.2 | 47.5° | 729.0 | 787.1 | 861.3 | 951.6 | 996.8 | 1054.8 | 1135.5 | 1158.1 | 1154.8 |
| 606.5 | 50° | 625.8 | 693.5 | 767.7 | 841.9 | 900.0 | 954.8 | 1032.3 | 1058.1 | 1048.4 |
| 516.1 | 52.5° | 551.6 | 612.9 | 677.4 | 758.1 | 825.8 | 874.2 | 935.5 | 980.6 | 967.7 |
| 435.5 | 55° | 461.3 | 535.5 | 603.2 | 671.0 | 754.8 | 806.5 | 864.5 | 919.4 | 906.5 |
| 367.7 | 57.5° | 400.0 | 461.3 | 538.7 | 600.0 | 683.9 | 745.2 | 803.2 | 861.3 | 858.1 |
| 300.0 | 60° | 335.5 | 400.0 | 474.2 | 538.7 | 616.1 | 683.9 | 741.9 | 806.5 | 812.9 |
| 225.8 | 62.5° | 264.5 | 341.9 | 406.5 | 480.6 | 558.1 | 632.3 | 683.9 | 748.4 | 758.1 |
| 171.0 | 65° | 200.0 | 280.6 | 351.6 | 422.6 | 500.0 | 580.6 | 625.8 | 680.6 | 690.3 |
| 125.8 | 67.5° | 148.4 | 216.1 | 300.0 | 364.5 | 445.2 | 522.6 | 564.5 | 609.7 | 625.8 |
| 77.4 | 70° | 112.9 | 164.5 | 251.6 | 312.9 | 396.8 | 458.1 | 503.2 | 541.9 | 554.8 |
| 51.6 | 72.5° | 71.0 | 129.0 | 203.2 | 267.7 | 341.9 | 396.8 | 429.0 | 451.6 | 471.0 |
| 29.0 | 75° | 48.4 | 100.0 | 164.5 | 229.0 | 283.9 | 325.8 | 354.8 | 374.2 | 390.3 |
| 12.9 | 77.5° | 29.0 | 77.4 | 135.5 | 190.3 | 225.8 | 258.1 | 287.1 | 300.0 | 309.7 |
| 9.7 | 80° | 16.1 | 58.1 | 112.9 | 154.8 | 177.4 | 200.0 | 222.6 | 238.7 | 245.2 |
| 6.5 | 82.5° | 9.7 | 45.2 | 90.3 | 119.4 | 129.0 | 151.6 | 174.2 | 183.9 | 183.9 |
| 3.2 | 85° | 6.5 | 32.3 | 61.3 | 87.1 | 93.5 | 109.7 | 116.1 | 122.6 | 129.0 |
| 3.2 | 87.5° | 6.5 | 19.4 | 38.7 | 48.4 | 51.6 | 58.1 | 61.3 | 67.7 | 74.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
101213.1
97887.3
91696.9
81884.0
71264.6
58538.8
44680.7
32009.7
23251.7
16938.7
11506.5
7254.9
4632.3
3261.3
2477.4
1980.6
1661.3
1438.7
1274.2
1148.4
1041.9
964.5
912.9
861.3
816.1
764.5
700.0
632.3
561.3
467.7
387.1
306.5
238.7
180.6
125.8
71.0
0.0

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