

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: P638219

Luminaire Tested: **IFLD-S-SA2D-760-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638219
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12305.2 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

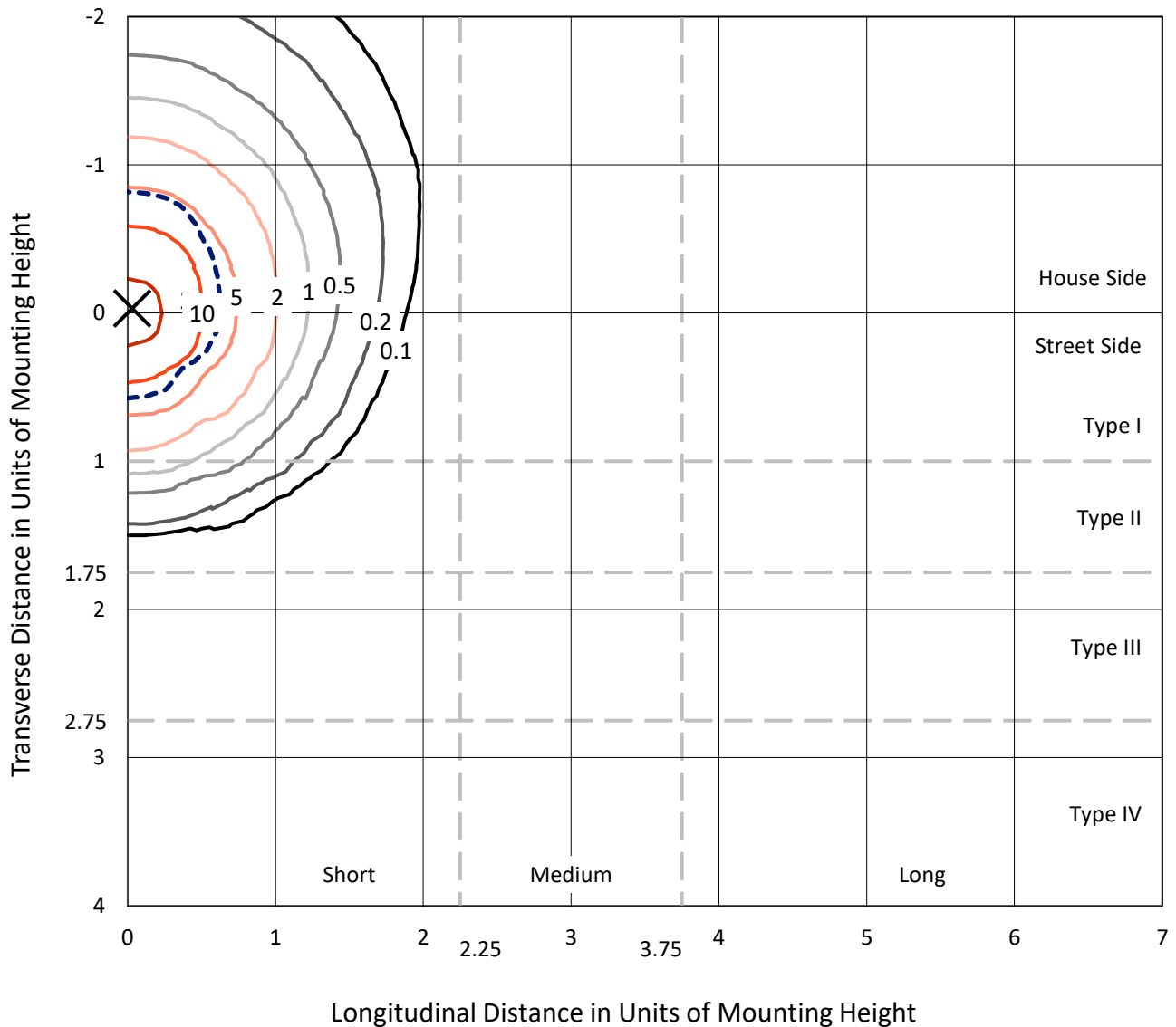
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

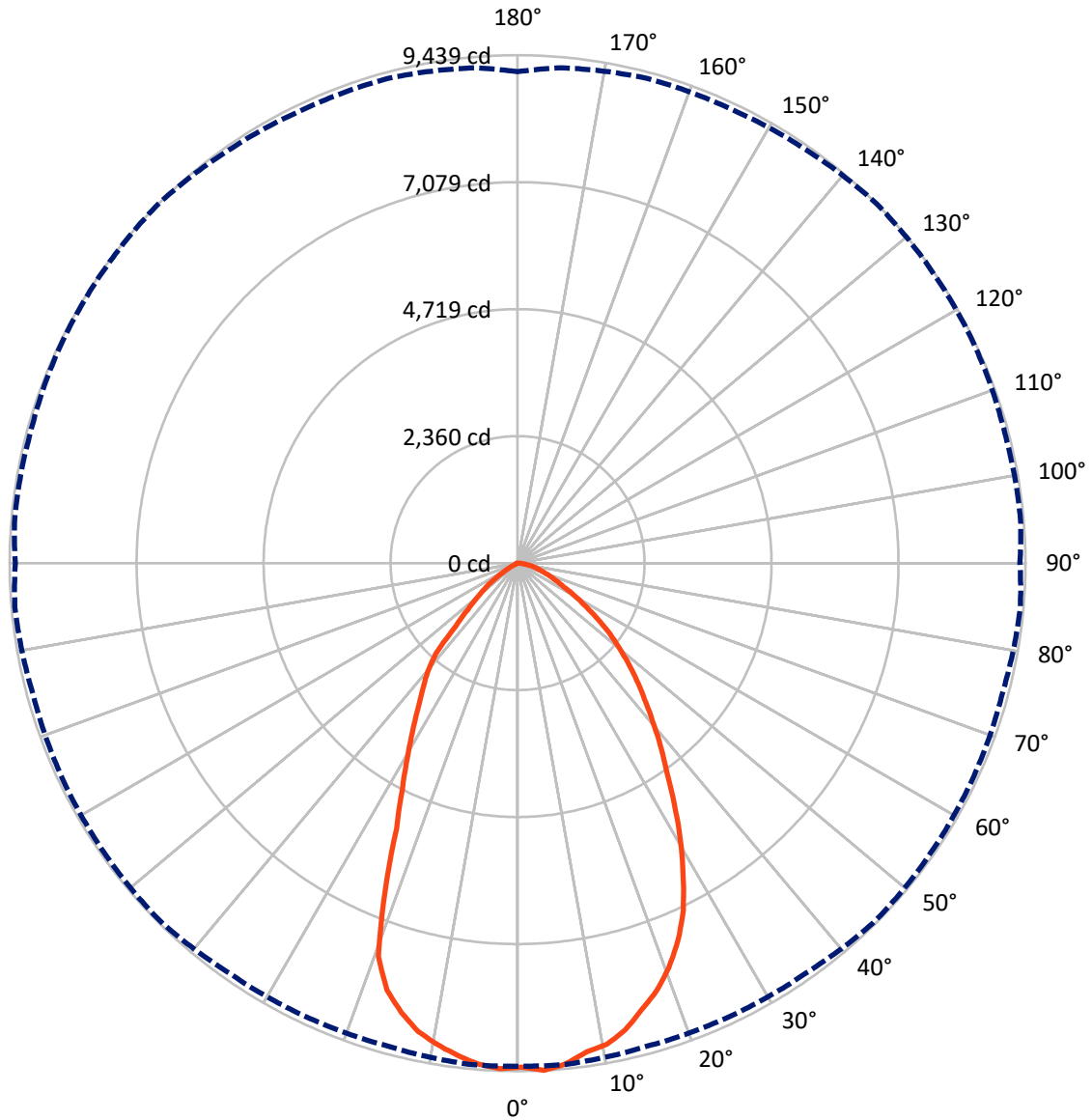
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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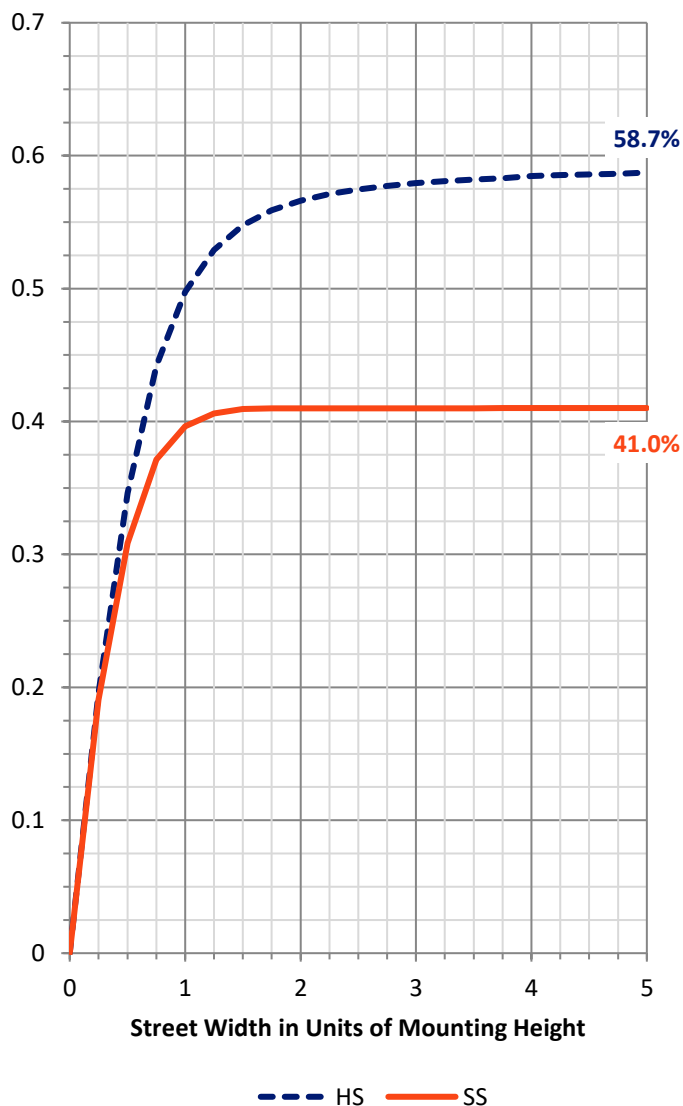
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7287.7 | 0.0 | 7287.7 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 5017.4 | 0.0 | 5017.4 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 12305.2 | 0.0 | 12305.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 878.2 | 7.1 |
| 10°-20° | 2355.0 | 19.1 |
| 20°-30° | 2872.0 | 23.3 |
| 30°-40° | 2622.1 | 21.3 |
| 40°-50° | 1895.0 | 15.4 |
| 50°-60° | 1034.7 | 8.4 |
| 60°-70° | 427.8 | 3.5 |
| 70°-80° | 173.3 | 1.4 |
| 80°-90° | 47.1 | 0.4 |
| 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° | 12305.2 | 100.0 |
| 0°-180° | 12305.2 | 100.0 |



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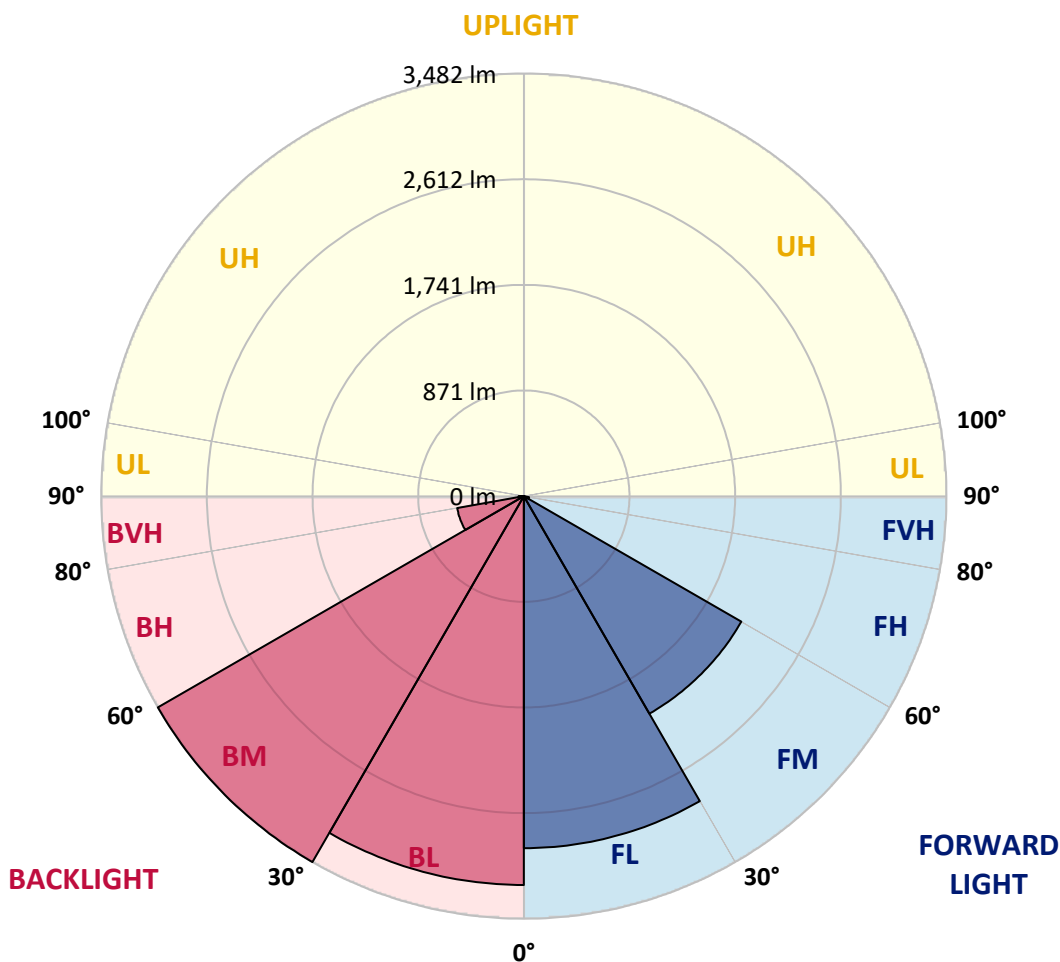
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2900.8 | 23.6 | | | |
| FM (30°-60°) | 2069.5 | 16.8 | | | |
| FH (60°-80°) | 43.4 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 3.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 3204.4 | 26.0 | B4/5000 | | |
| BM (30°-60°) | 3482.2 | 28.3 | B3/5000 | | |
| BH (60°-80°) | 557.7 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 43.4 | 0.4 | | | 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° | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 |
| 2.5° | 9346.9 | 9359.0 | 9293.1 | 9300.1 | 9312.2 | 9400.6 | 9378.0 | 9357.3 | 9327.8 | 9378.0 |
| 5° | 9334.7 | 9341.7 | 9272.3 | 9248.1 | 9258.5 | 9338.2 | 9265.4 | 9265.4 | 9258.5 | 9249.8 |
| 7.5° | 9241.2 | 9244.6 | 9190.9 | 9147.6 | 9175.3 | 9211.7 | 9158.0 | 9184.0 | 9145.8 | 9175.3 |
| 10° | 9100.8 | 9078.3 | 9014.2 | 9002.0 | 9033.2 | 9067.9 | 9031.5 | 9055.7 | 9021.1 | 9043.6 |
| 12.5° | 8894.6 | 8859.9 | 8807.9 | 8792.4 | 8846.1 | 8892.9 | 8863.4 | 8849.5 | 8804.5 | 8859.9 |
| 15° | 8099.2 | 8073.2 | 8191.1 | 8397.3 | 8582.7 | 8622.5 | 8591.3 | 8605.2 | 8511.6 | 8527.2 |
| 17.5° | 6666.2 | 6617.7 | 6744.2 | 7232.8 | 7929.4 | 8296.8 | 8269.0 | 8178.9 | 8040.3 | 8071.5 |
| 20° | 6058.0 | 6044.1 | 6030.2 | 6146.3 | 6633.3 | 7747.5 | 7785.6 | 7556.8 | 7359.3 | 7316.0 |
| 22.5° | 5714.9 | 5709.7 | 5695.8 | 5721.8 | 5850.0 | 6565.7 | 7002.3 | 6790.9 | 6659.2 | 6647.1 |
| 25° | 5401.2 | 5392.6 | 5351.0 | 5383.9 | 5383.9 | 5425.5 | 5985.2 | 6113.4 | 5997.3 | 5983.4 |
| 27.5° | 5082.4 | 5066.8 | 5059.8 | 5075.4 | 4995.7 | 4715.0 | 4857.1 | 5482.7 | 5422.0 | 5425.5 |
| 30° | 4737.5 | 4732.3 | 4713.3 | 4746.2 | 4500.1 | 4151.8 | 4061.7 | 4910.8 | 4923.0 | 4919.5 |
| 32.5° | 4224.6 | 4247.2 | 4333.8 | 4370.2 | 3964.7 | 3677.1 | 3526.3 | 4248.9 | 4496.7 | 4491.5 |
| 35° | 3068.8 | 3068.8 | 3351.3 | 3876.3 | 3474.3 | 3257.7 | 3176.3 | 3602.5 | 4075.6 | 4092.9 |
| 37.5° | 2523.0 | 2531.7 | 2587.1 | 2826.2 | 2997.8 | 2921.5 | 2897.3 | 3032.4 | 3535.0 | 3562.7 |
| 40° | 2270.0 | 2270.0 | 2270.0 | 2171.2 | 2166.0 | 2632.2 | 2618.3 | 2575.0 | 3053.2 | 3113.9 |
| 42.5° | 2039.5 | 2044.7 | 2048.2 | 1798.7 | 1660.0 | 2275.2 | 2244.0 | 2178.2 | 2621.8 | 2692.8 |
| 45° | 1802.1 | 1810.8 | 1821.2 | 1504.1 | 1443.4 | 1637.5 | 1899.2 | 1826.4 | 2195.5 | 2287.3 |
| 47.5° | 1100.3 | 1114.2 | 1349.9 | 1275.4 | 1282.3 | 1263.2 | 1549.1 | 1537.0 | 1800.4 | 1930.4 |
| 50° | 743.4 | 748.6 | 771.1 | 809.2 | 1100.3 | 992.9 | 1096.9 | 1271.9 | 1367.2 | 1564.7 |
| 52.5° | 623.8 | 632.5 | 577.0 | 525.0 | 722.6 | 776.3 | 765.9 | 944.4 | 982.5 | 1226.8 |
| 55° | 438.4 | 466.1 | 440.1 | 434.9 | 410.7 | 603.0 | 580.5 | 726.1 | 750.3 | 932.3 |
| 57.5° | 45.1 | 52.0 | 90.1 | 324.0 | 268.6 | 341.4 | 414.1 | 532.0 | 556.2 | 687.9 |
| 60° | 3.5 | 3.5 | 8.7 | 45.1 | 195.8 | 204.5 | 285.9 | 327.5 | 374.3 | 480.0 |
| 62.5° | 0.0 | 1.7 | 3.5 | 6.9 | 31.2 | 109.2 | 143.8 | 171.5 | 225.3 | 310.2 |
| 65° | 0.0 | 0.0 | 1.7 | 5.2 | 6.9 | 41.6 | 55.5 | 90.1 | 123.0 | 192.3 |
| 67.5° | 0.0 | 0.0 | 1.7 | 3.5 | 5.2 | 10.4 | 19.1 | 32.9 | 65.8 | 109.2 |
| 70° | 0.0 | 0.0 | 1.7 | 3.5 | 5.2 | 8.7 | 13.9 | 20.8 | 29.5 | 58.9 |
| 72.5° | 0.0 | 0.0 | 1.7 | 1.7 | 3.5 | 8.7 | 10.4 | 13.9 | 20.8 | 29.5 |
| 75° | 0.0 | 0.0 | 1.7 | 1.7 | 5.2 | 10.4 | 8.7 | 10.4 | 13.9 | 19.1 |
| 77.5° | 0.0 | 0.0 | 1.7 | 3.5 | 5.2 | 10.4 | 8.7 | 10.4 | 10.4 | 12.1 |
| 80° | 0.0 | 0.0 | 1.7 | 3.5 | 6.9 | 12.1 | 10.4 | 10.4 | 8.7 | 8.7 |
| 82.5° | 0.0 | 0.0 | 1.7 | 5.2 | 6.9 | 15.6 | 15.6 | 13.9 | 6.9 | 5.2 |
| 85° | 0.0 | 0.0 | 3.5 | 6.9 | 10.4 | 17.3 | 17.3 | 13.9 | 5.2 | 3.5 |
| 87.5° | 0.0 | 0.0 | 3.5 | 5.2 | 8.7 | 12.1 | 17.3 | 13.9 | 5.2 | 1.7 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9364.2 | 0° | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 | 9364.2 |
| 9334.7 | 2.5° | 9381.5 | 9371.1 | 9405.8 | 9419.6 | 9438.7 | 9365.9 | 9320.9 | 9322.6 | 9239.4 |
| 9229.0 | 5° | 9284.5 | 9286.2 | 9331.3 | 9327.8 | 9346.9 | 9307.0 | 9289.7 | 9260.2 | 9187.4 |
| 9095.6 | 7.5° | 9161.4 | 9145.8 | 9189.2 | 9222.1 | 9173.6 | 9201.3 | 9161.4 | 9175.3 | 9132.0 |
| 8977.8 | 10° | 9066.1 | 9029.8 | 9069.6 | 9092.1 | 9093.9 | 9066.1 | 9028.0 | 8991.6 | 8976.0 |
| 8794.1 | 12.5° | 8854.7 | 8807.9 | 8875.5 | 8906.7 | 8901.5 | 8847.8 | 8804.5 | 8813.1 | 8762.9 |
| 8471.8 | 15° | 8563.6 | 8565.4 | 8613.9 | 8643.3 | 8615.6 | 8603.5 | 8606.9 | 8586.1 | 8542.8 |
| 8026.4 | 17.5° | 8118.3 | 8144.3 | 8272.5 | 8343.6 | 8359.1 | 8334.9 | 8322.8 | 8298.5 | 8255.2 |
| 7316.0 | 20° | 7376.6 | 7532.6 | 7761.3 | 7981.4 | 8024.7 | 8017.8 | 7974.5 | 7964.1 | 7939.8 |
| 6612.5 | 22.5° | 6725.1 | 6841.2 | 7106.3 | 7449.4 | 7626.2 | 7643.5 | 7591.5 | 7575.9 | 7549.9 |
| 5983.4 | 25° | 6051.0 | 6175.8 | 6414.9 | 6787.5 | 7153.1 | 7227.6 | 7218.9 | 7172.2 | 7144.4 |
| 5425.5 | 27.5° | 5482.7 | 5607.4 | 5824.0 | 6160.2 | 6551.8 | 6790.9 | 6813.5 | 6739.0 | 6737.2 |
| 4928.2 | 30° | 4969.7 | 5141.3 | 5305.9 | 5579.7 | 5959.2 | 6317.9 | 6356.0 | 6304.0 | 6309.2 |
| 4472.4 | 32.5° | 4567.7 | 4709.8 | 4850.2 | 5033.9 | 5349.2 | 5766.8 | 5915.9 | 5867.3 | 5848.3 |
| 4092.9 | 35° | 4157.0 | 4254.1 | 4397.9 | 4566.0 | 4780.9 | 5195.0 | 5453.2 | 5416.8 | 5397.7 |
| 3580.0 | 37.5° | 3689.2 | 3855.5 | 3959.5 | 4148.4 | 4316.5 | 4645.7 | 5009.6 | 5004.4 | 4964.5 |
| 3143.3 | 40° | 3209.2 | 3384.2 | 3541.9 | 3732.5 | 3862.5 | 4124.1 | 4527.9 | 4526.1 | 4531.3 |
| 2691.1 | 42.5° | 2774.3 | 2935.4 | 3126.0 | 3334.0 | 3458.7 | 3649.3 | 4082.5 | 4106.8 | 4136.3 |
| 2318.5 | 45° | 2380.9 | 2526.5 | 2703.2 | 2956.2 | 3107.0 | 3216.1 | 3600.8 | 3711.7 | 3710.0 |
| 1985.8 | 47.5° | 2027.4 | 2164.3 | 2313.3 | 2559.4 | 2751.7 | 2850.5 | 3169.3 | 3327.0 | 3316.6 |
| 1628.9 | 50° | 1701.6 | 1822.9 | 1978.9 | 2157.4 | 2415.6 | 2502.2 | 2739.6 | 2947.5 | 2931.9 |
| 1297.9 | 52.5° | 1368.9 | 1537.0 | 1668.7 | 1831.6 | 2103.6 | 2188.6 | 2372.2 | 2575.0 | 2562.8 |
| 973.8 | 55° | 1067.4 | 1230.3 | 1389.7 | 1530.1 | 1758.8 | 1885.3 | 2017.0 | 2224.9 | 2221.5 |
| 762.4 | 57.5° | 807.5 | 986.0 | 1136.7 | 1270.2 | 1452.1 | 1608.1 | 1713.8 | 1902.6 | 1926.9 |
| 521.6 | 60° | 597.8 | 734.7 | 897.6 | 1046.6 | 1190.5 | 1351.6 | 1422.6 | 1608.1 | 1618.5 |
| 357.0 | 62.5° | 407.2 | 558.0 | 717.4 | 852.5 | 960.0 | 1126.3 | 1190.5 | 1342.9 | 1362.0 |
| 228.7 | 65° | 282.5 | 379.5 | 561.4 | 658.5 | 790.2 | 932.3 | 996.4 | 1117.7 | 1155.8 |
| 131.7 | 67.5° | 187.1 | 270.3 | 438.4 | 526.8 | 656.7 | 753.8 | 835.2 | 934.0 | 975.6 |
| 83.2 | 70° | 102.2 | 199.3 | 313.6 | 415.9 | 528.5 | 622.1 | 701.8 | 781.5 | 817.9 |
| 38.1 | 72.5° | 69.3 | 133.4 | 218.3 | 329.2 | 426.3 | 518.1 | 589.2 | 648.1 | 649.8 |
| 22.5 | 75° | 34.7 | 90.1 | 166.4 | 254.7 | 332.7 | 422.8 | 486.9 | 521.6 | 480.0 |
| 13.9 | 77.5° | 20.8 | 65.8 | 135.2 | 204.5 | 270.3 | 341.4 | 377.8 | 396.8 | 329.2 |
| 10.4 | 80° | 12.1 | 46.8 | 105.7 | 162.9 | 187.1 | 251.3 | 285.9 | 291.1 | 220.1 |
| 6.9 | 82.5° | 8.7 | 34.7 | 83.2 | 119.6 | 114.4 | 176.7 | 214.9 | 207.9 | 140.4 |
| 5.2 | 85° | 5.2 | 24.3 | 52.0 | 74.5 | 69.3 | 116.1 | 124.8 | 128.2 | 81.4 |
| 3.5 | 87.5° | 3.5 | 13.9 | 27.7 | 39.9 | 32.9 | 50.3 | 50.3 | 60.6 | 39.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
9364.2
9132.0
9170.1
9059.2
8906.7
8719.6
8499.5
8236.1
7884.4
7543.0
7115.0
6733.8
6283.2
5850.0
5371.8
4997.5
4531.3
4120.7
3713.4
3320.1
2945.8
2588.8
2230.1
1916.5
1634.1
1365.5
1147.1
970.4
804.0
634.2
448.8
317.1
206.2
130.0
74.5
34.7
0.0

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