

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: P637795

Luminaire Tested: **IFLD-S-SA6E-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637795
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32864.8 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

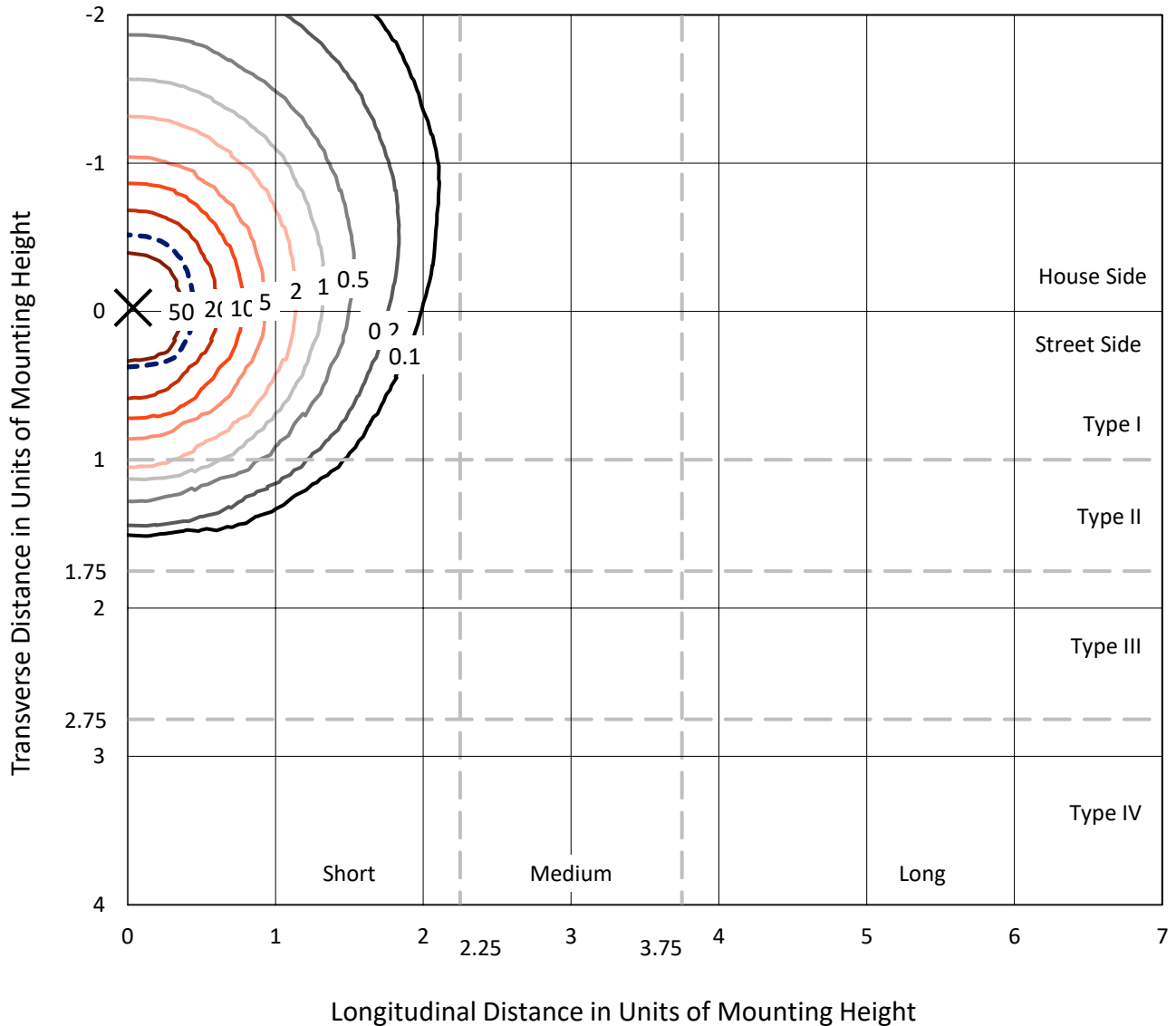
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

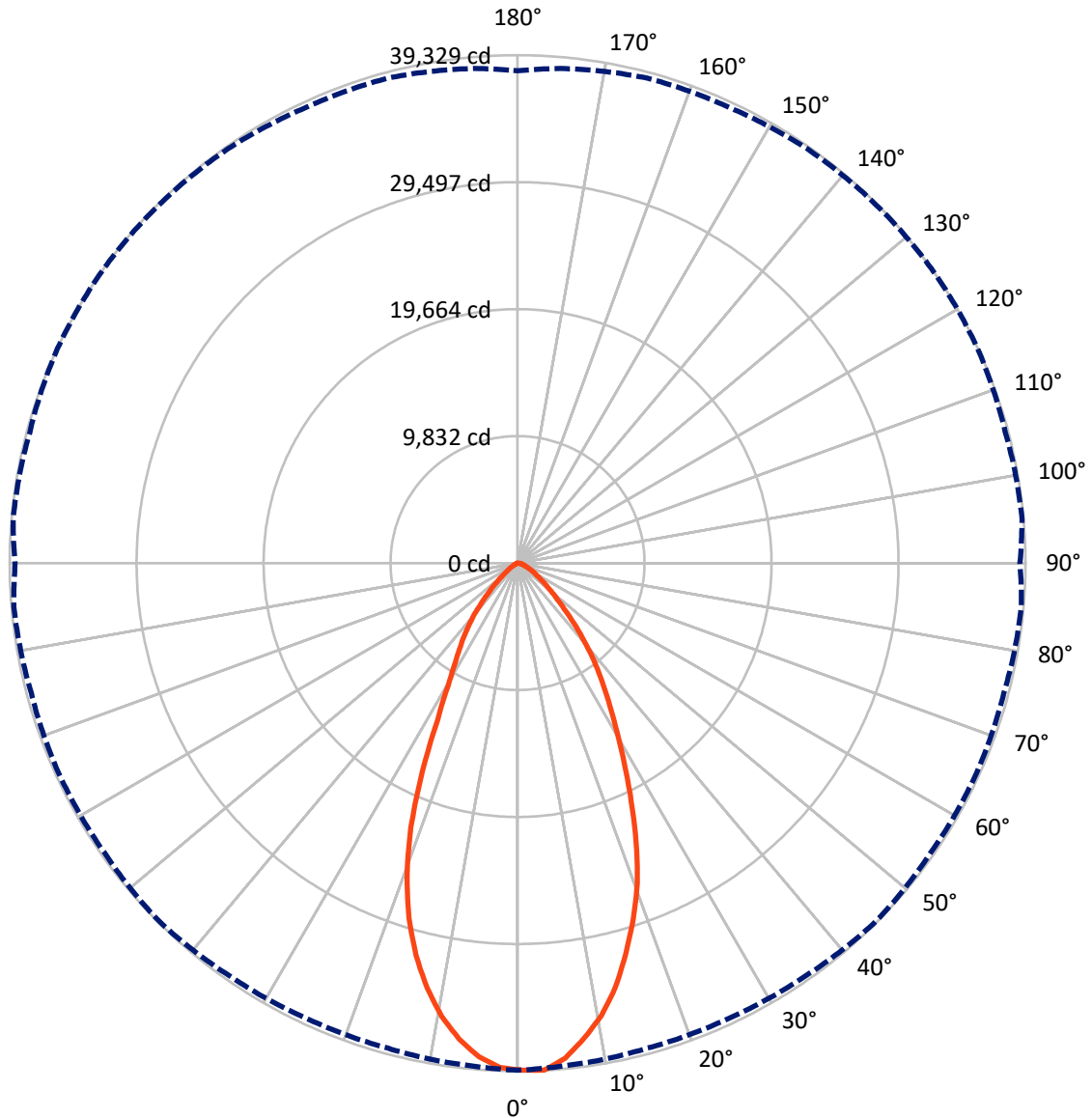
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 98.2 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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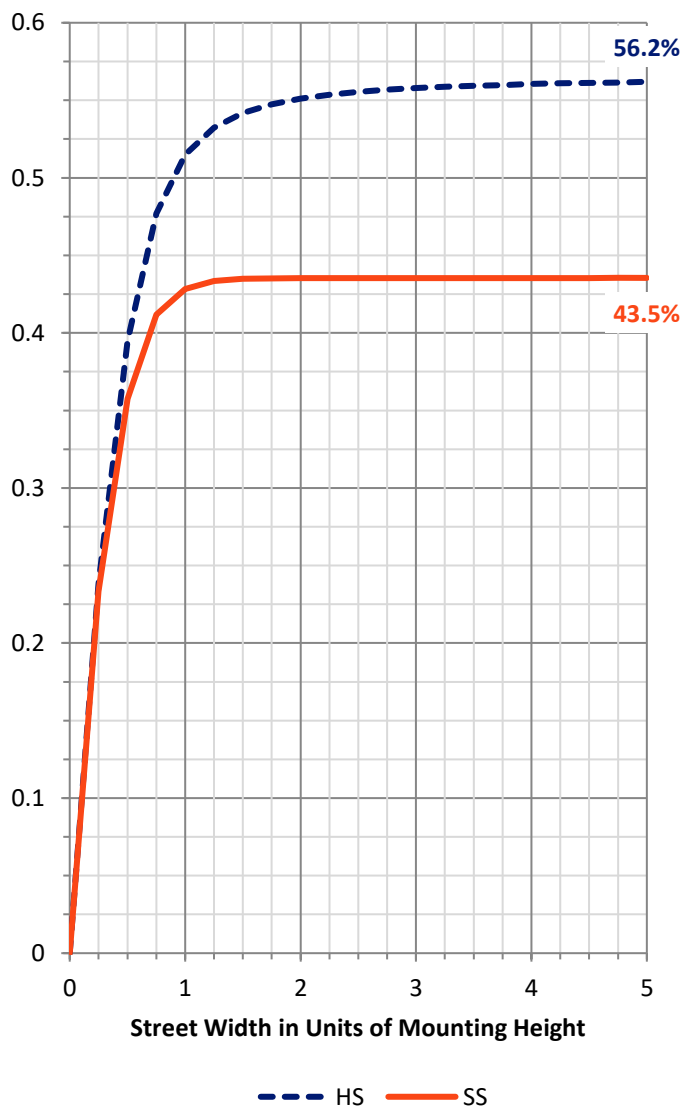
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18648.8 | 0.0 | 18648.8 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 14216.0 | 0.0 | 14216.0 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 32864.8 | 0.0 | 32864.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 3565.5 | 10.8 |
| 10°-20° | 8499.2 | 25.9 |
| 20°-30° | 8656.3 | 26.3 |
| 30°-40° | 6455.0 | 19.6 |
| 40°-50° | 3372.2 | 10.3 |
| 50°-60° | 1418.4 | 4.3 |
| 60°-70° | 579.3 | 1.8 |
| 70°-80° | 243.8 | 0.7 |
| 80°-90° | 75.1 | 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° | 32864.8 | 100.0 |
| 0°-180° | 32864.8 | 100.0 |



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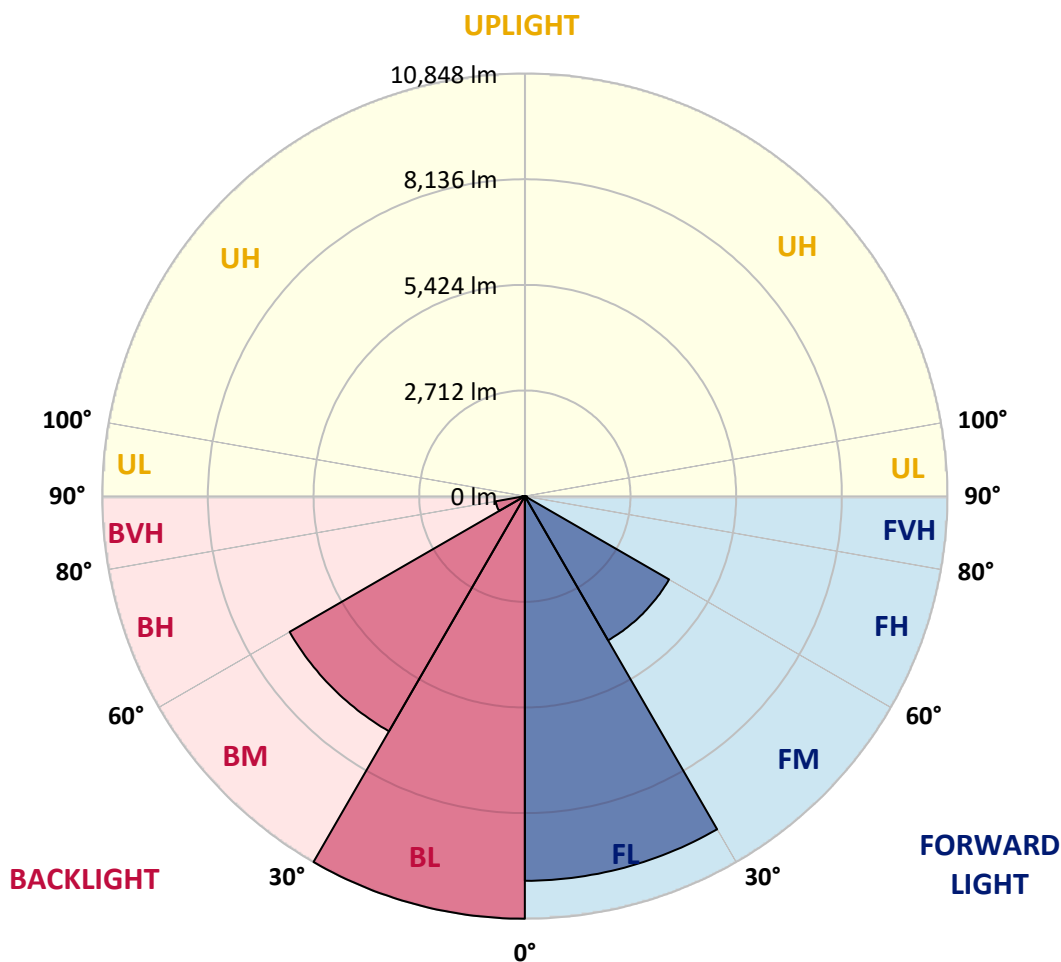
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 9873.0 | 30.0 | | | |
| FM (30°-60°) | 4274.2 | 13.0 | | | |
| FH (60°-80°) | 61.8 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 10848.0 | 33.0 | B5 | | |
| BM (30°-60°) | 6971.4 | 21.2 | B4/8500 | | |
| BH (60°-80°) | 761.2 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 68.1 | 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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 |
| 2.5° | 39269.7 | 39109.3 | 38881.3 | 38860.2 | 38978.4 | 39235.9 | 39071.3 | 39079.7 | 38978.4 | 39151.5 |
| 5° | 38653.3 | 38501.3 | 38345.1 | 38138.3 | 38311.4 | 38421.1 | 38336.7 | 38243.8 | 38113.0 | 38281.8 |
| 7.5° | 37488.2 | 37403.7 | 37171.5 | 37078.7 | 37184.2 | 37306.6 | 37125.1 | 37099.8 | 36918.2 | 37137.8 |
| 10° | 35706.6 | 35672.8 | 35444.9 | 35390.0 | 35482.9 | 35668.6 | 35588.4 | 35571.5 | 35457.5 | 35436.4 |
| 12.5° | 33857.5 | 33726.7 | 33443.8 | 33426.9 | 33566.3 | 33844.9 | 33629.6 | 33422.7 | 33486.0 | 33540.9 |
| 15° | 29095.5 | 28956.2 | 29657.0 | 30758.9 | 31337.2 | 31316.1 | 31379.4 | 31130.4 | 31054.4 | 31079.7 |
| 17.5° | 23130.4 | 22893.9 | 23147.2 | 24852.8 | 27601.1 | 29196.9 | 28757.8 | 28221.7 | 27934.6 | 27744.6 |
| 20° | 19964.1 | 19976.8 | 19930.4 | 20369.4 | 22083.4 | 25722.4 | 25616.9 | 24582.6 | 24206.9 | 24050.7 |
| 22.5° | 18039.1 | 17967.3 | 17866.0 | 18005.3 | 18465.4 | 20601.6 | 22032.7 | 21082.9 | 20952.0 | 20778.9 |
| 25° | 16152.0 | 16152.0 | 16029.6 | 16168.9 | 16299.7 | 16329.3 | 17764.7 | 18153.0 | 17899.7 | 17899.7 |
| 27.5° | 14518.2 | 14433.8 | 14378.9 | 14442.2 | 14269.1 | 13437.5 | 13619.0 | 15607.4 | 15434.3 | 15328.8 |
| 30° | 12897.1 | 12871.8 | 12778.9 | 12863.3 | 12221.6 | 11284.4 | 10904.5 | 13171.5 | 13353.0 | 13315.0 |
| 32.5° | 10647.0 | 10748.3 | 11162.0 | 11292.9 | 10195.3 | 9439.6 | 9076.5 | 10934.0 | 11660.2 | 11630.6 |
| 35° | 7235.9 | 7320.3 | 7793.1 | 9355.2 | 8451.7 | 7911.4 | 7805.8 | 8696.6 | 9891.3 | 10005.3 |
| 37.5° | 5762.5 | 5749.9 | 5885.0 | 6163.6 | 6792.6 | 6661.7 | 6632.2 | 6864.4 | 8067.6 | 8118.2 |
| 40° | 4749.3 | 4732.5 | 4728.2 | 4500.3 | 4344.1 | 5538.8 | 5458.6 | 5319.3 | 6362.0 | 6463.3 |
| 42.5° | 3829.0 | 3845.9 | 3858.6 | 3360.4 | 3132.5 | 4272.3 | 4225.9 | 4082.3 | 4990.0 | 5108.2 |
| 45° | 3005.8 | 3001.6 | 3026.9 | 2503.4 | 2440.1 | 2731.4 | 3157.8 | 3043.8 | 3765.7 | 3892.4 |
| 47.5° | 1557.8 | 1612.7 | 1954.6 | 1937.7 | 1967.3 | 1937.7 | 2389.4 | 2359.9 | 2832.7 | 3035.4 |
| 50° | 1047.0 | 1063.9 | 1093.4 | 1097.6 | 1549.3 | 1426.9 | 1621.1 | 1836.4 | 1984.2 | 2296.6 |
| 52.5° | 810.6 | 823.2 | 747.2 | 700.8 | 949.9 | 1055.4 | 1063.9 | 1270.7 | 1384.7 | 1701.3 |
| 55° | 451.7 | 506.6 | 544.6 | 548.8 | 523.5 | 781.0 | 776.8 | 941.4 | 1030.1 | 1241.2 |
| 57.5° | 59.1 | 71.8 | 109.8 | 354.6 | 350.4 | 434.8 | 544.6 | 683.9 | 734.6 | 907.7 |
| 60° | 4.2 | 8.4 | 12.7 | 54.9 | 232.2 | 253.3 | 371.5 | 426.4 | 510.8 | 637.5 |
| 62.5° | 0.0 | 0.0 | 4.2 | 12.7 | 46.4 | 147.8 | 194.2 | 223.7 | 299.7 | 417.9 |
| 65° | 0.0 | 0.0 | 4.2 | 8.4 | 16.9 | 54.9 | 76.0 | 122.4 | 177.3 | 257.5 |
| 67.5° | 0.0 | 0.0 | 4.2 | 8.4 | 12.7 | 21.1 | 33.8 | 54.9 | 92.9 | 156.2 |
| 70° | 0.0 | 0.0 | 4.2 | 8.4 | 12.7 | 16.9 | 25.3 | 33.8 | 50.7 | 84.4 |
| 72.5° | 0.0 | 0.0 | 4.2 | 4.2 | 8.4 | 21.1 | 21.1 | 25.3 | 33.8 | 46.4 |
| 75° | 0.0 | 0.0 | 4.2 | 8.4 | 12.7 | 21.1 | 21.1 | 21.1 | 25.3 | 29.6 |
| 77.5° | 0.0 | 0.0 | 4.2 | 8.4 | 12.7 | 21.1 | 16.9 | 21.1 | 21.1 | 21.1 |
| 80° | 0.0 | 0.0 | 4.2 | 8.4 | 12.7 | 21.1 | 25.3 | 21.1 | 16.9 | 16.9 |
| 82.5° | 0.0 | 0.0 | 4.2 | 12.7 | 12.7 | 29.6 | 29.6 | 29.6 | 12.7 | 12.7 |
| 85° | 0.0 | 0.0 | 8.4 | 12.7 | 21.1 | 33.8 | 33.8 | 25.3 | 12.7 | 8.4 |
| 87.5° | 0.0 | 0.0 | 4.2 | 8.4 | 8.4 | 16.9 | 25.3 | 21.1 | 8.4 | 4.2 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 39265.5 | 0° | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 | 39265.5 |
| 38898.2 | 2.5° | 39210.6 | 39105.0 | 39303.5 | 39328.8 | 39244.4 | 39138.8 | 38894.0 | 38872.9 | 38446.5 |
| 38037.0 | 5° | 38467.6 | 38294.5 | 38421.1 | 38505.6 | 38476.0 | 38362.0 | 38260.7 | 38167.8 | 37783.7 |
| 36639.6 | 7.5° | 37082.9 | 37019.6 | 37078.7 | 37142.0 | 37264.4 | 37142.0 | 37099.8 | 37002.7 | 36622.7 |
| 35263.3 | 10° | 35546.2 | 35428.0 | 35651.7 | 35622.2 | 35588.4 | 35554.6 | 35377.3 | 35394.2 | 34946.7 |
| 33388.9 | 12.5° | 33659.1 | 33460.7 | 33676.0 | 33701.3 | 33676.0 | 33557.8 | 33359.4 | 33443.8 | 33034.3 |
| 30856.0 | 15° | 31121.9 | 31100.8 | 31257.0 | 31358.3 | 31430.1 | 31303.5 | 31235.9 | 31278.1 | 31033.3 |
| 27596.9 | 17.5° | 28006.4 | 28280.8 | 28791.6 | 28964.7 | 28968.9 | 29099.8 | 29061.8 | 29011.1 | 28829.6 |
| 23987.4 | 20° | 24342.0 | 24869.7 | 25654.9 | 26461.2 | 26693.4 | 26583.7 | 26533.0 | 26625.9 | 26355.7 |
| 20597.4 | 22.5° | 20960.4 | 21412.2 | 22324.0 | 23501.9 | 24181.5 | 24249.1 | 24236.4 | 24156.2 | 24050.7 |
| 17882.9 | 25° | 18089.7 | 18490.8 | 19364.7 | 20441.2 | 21745.7 | 21939.9 | 21948.3 | 21923.0 | 21830.1 |
| 15421.6 | 27.5° | 15666.5 | 16152.0 | 16633.3 | 17595.8 | 18984.7 | 19786.8 | 19685.5 | 19656.0 | 19622.2 |
| 13344.6 | 30° | 13471.2 | 14083.4 | 14535.1 | 15134.6 | 16380.0 | 17464.9 | 17570.5 | 17519.8 | 17439.6 |
| 11626.4 | 32.5° | 11731.9 | 12095.0 | 12669.1 | 13074.4 | 13969.4 | 15197.9 | 15603.2 | 15565.2 | 15493.4 |
| 10077.1 | 35° | 10220.6 | 10364.1 | 10815.8 | 11267.6 | 11862.8 | 13053.3 | 13652.8 | 13568.3 | 13555.7 |
| 8211.1 | 37.5° | 8417.9 | 8899.2 | 9148.3 | 9604.2 | 10022.2 | 10946.7 | 11774.2 | 11736.2 | 11740.4 |
| 6602.6 | 40° | 6796.8 | 7075.5 | 7569.4 | 7953.6 | 8337.7 | 9013.2 | 9933.5 | 9958.8 | 9950.4 |
| 5112.4 | 42.5° | 5217.9 | 5488.1 | 6007.4 | 6425.3 | 6767.3 | 7185.2 | 8063.3 | 8092.9 | 8130.9 |
| 3981.0 | 45° | 4073.9 | 4247.0 | 4626.9 | 5061.7 | 5424.8 | 5678.1 | 6345.1 | 6535.1 | 6539.3 |
| 3086.0 | 47.5° | 3162.0 | 3360.4 | 3630.6 | 4048.6 | 4403.2 | 4584.7 | 5070.2 | 5327.7 | 5315.0 |
| 2368.3 | 50° | 2482.3 | 2663.9 | 2883.4 | 3212.7 | 3596.8 | 3740.4 | 4099.2 | 4352.5 | 4339.8 |
| 1785.8 | 52.5° | 1899.7 | 2131.9 | 2326.1 | 2579.4 | 2955.1 | 3077.6 | 3335.1 | 3626.4 | 3584.2 |
| 1308.7 | 55° | 1439.6 | 1676.0 | 1857.5 | 2068.6 | 2410.6 | 2566.8 | 2744.1 | 2976.3 | 2984.7 |
| 1013.2 | 57.5° | 1085.0 | 1329.8 | 1494.5 | 1709.8 | 1967.3 | 2140.4 | 2275.5 | 2524.5 | 2520.3 |
| 692.3 | 60° | 776.8 | 987.9 | 1186.3 | 1410.0 | 1608.4 | 1806.9 | 1899.7 | 2136.1 | 2144.6 |
| 489.7 | 62.5° | 561.5 | 759.9 | 949.9 | 1144.1 | 1321.4 | 1515.6 | 1600.0 | 1785.8 | 1811.1 |
| 320.8 | 65° | 392.6 | 531.9 | 751.5 | 899.2 | 1097.6 | 1241.2 | 1350.9 | 1511.3 | 1540.9 |
| 190.0 | 67.5° | 253.3 | 384.2 | 595.3 | 726.1 | 907.7 | 1030.1 | 1144.1 | 1270.7 | 1308.7 |
| 122.4 | 70° | 152.0 | 291.3 | 443.3 | 582.6 | 747.2 | 857.0 | 966.8 | 1076.5 | 1097.6 |
| 59.1 | 72.5° | 97.1 | 202.6 | 320.8 | 472.8 | 599.5 | 717.7 | 814.8 | 895.0 | 831.7 |
| 38.0 | 75° | 54.9 | 139.3 | 253.3 | 371.5 | 485.5 | 599.5 | 679.7 | 721.9 | 578.4 |
| 25.3 | 77.5° | 33.8 | 101.3 | 206.9 | 299.7 | 375.7 | 481.3 | 531.9 | 557.3 | 413.7 |
| 16.9 | 80° | 21.1 | 76.0 | 173.1 | 244.9 | 244.9 | 354.6 | 413.7 | 434.8 | 299.7 |
| 12.7 | 82.5° | 16.9 | 54.9 | 135.1 | 185.8 | 164.6 | 266.0 | 325.1 | 329.3 | 211.1 |
| 8.4 | 85° | 12.7 | 42.2 | 84.4 | 122.4 | 114.0 | 185.8 | 190.0 | 211.1 | 139.3 |
| 8.4 | 87.5° | 8.4 | 25.3 | 50.7 | 71.8 | 63.3 | 88.7 | 101.3 | 114.0 | 76.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
39265.5
38113.0
37475.5
36542.5
34794.7
32916.1
30737.8
28559.4
26161.5
23848.0
21517.7
19423.8
17338.3
15303.4
13416.4
11605.3
9802.6
8004.2
6429.6
5268.6
4339.8
3588.4
2984.7
2511.9
2123.5
1802.6
1532.5
1304.5
1080.7
772.6
548.8
388.4
278.6
194.2
126.6
67.5
0.0

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