

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: P637122

Luminaire Tested: **IFLD-S-SA3D-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637122
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23178.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

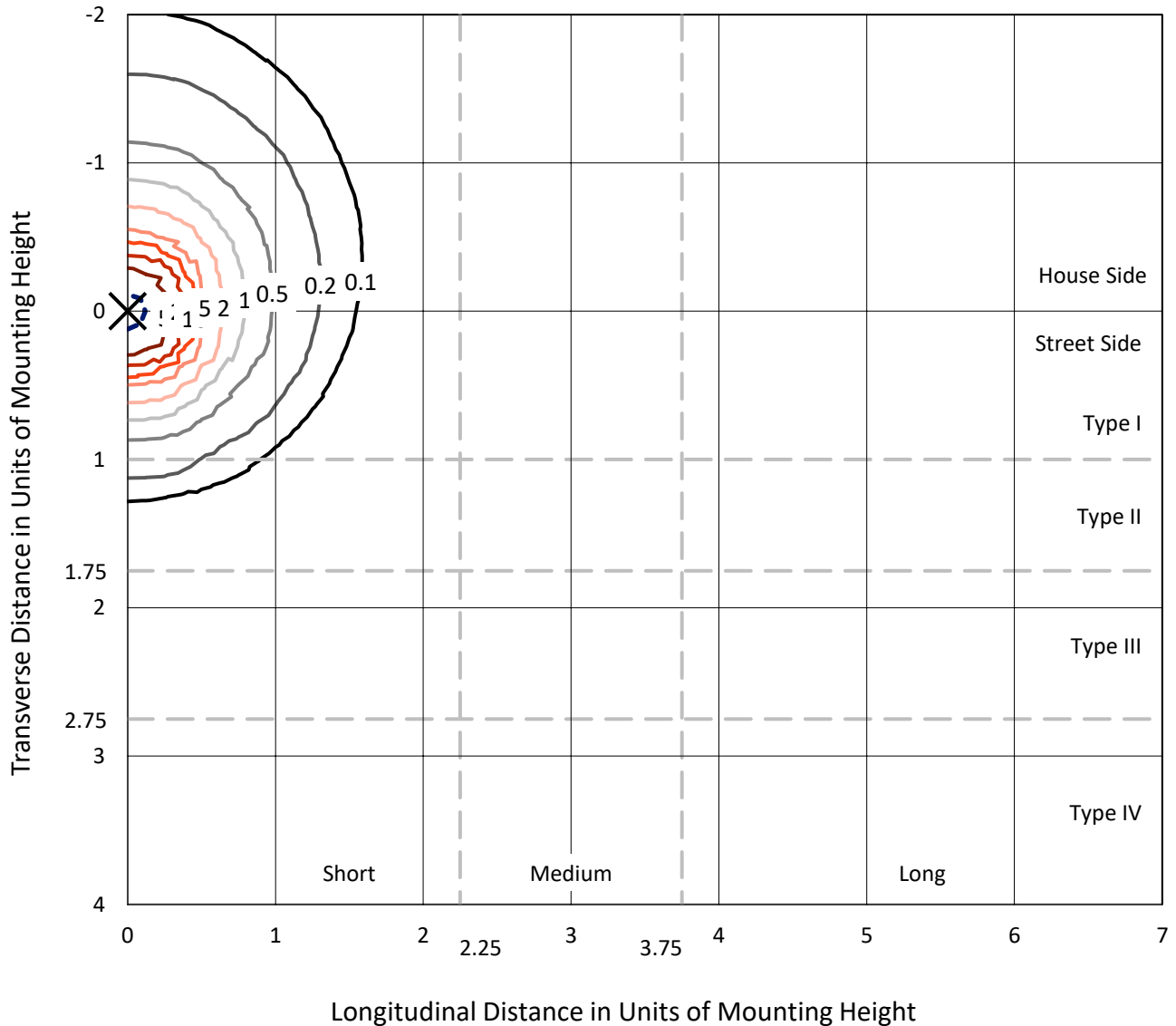
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

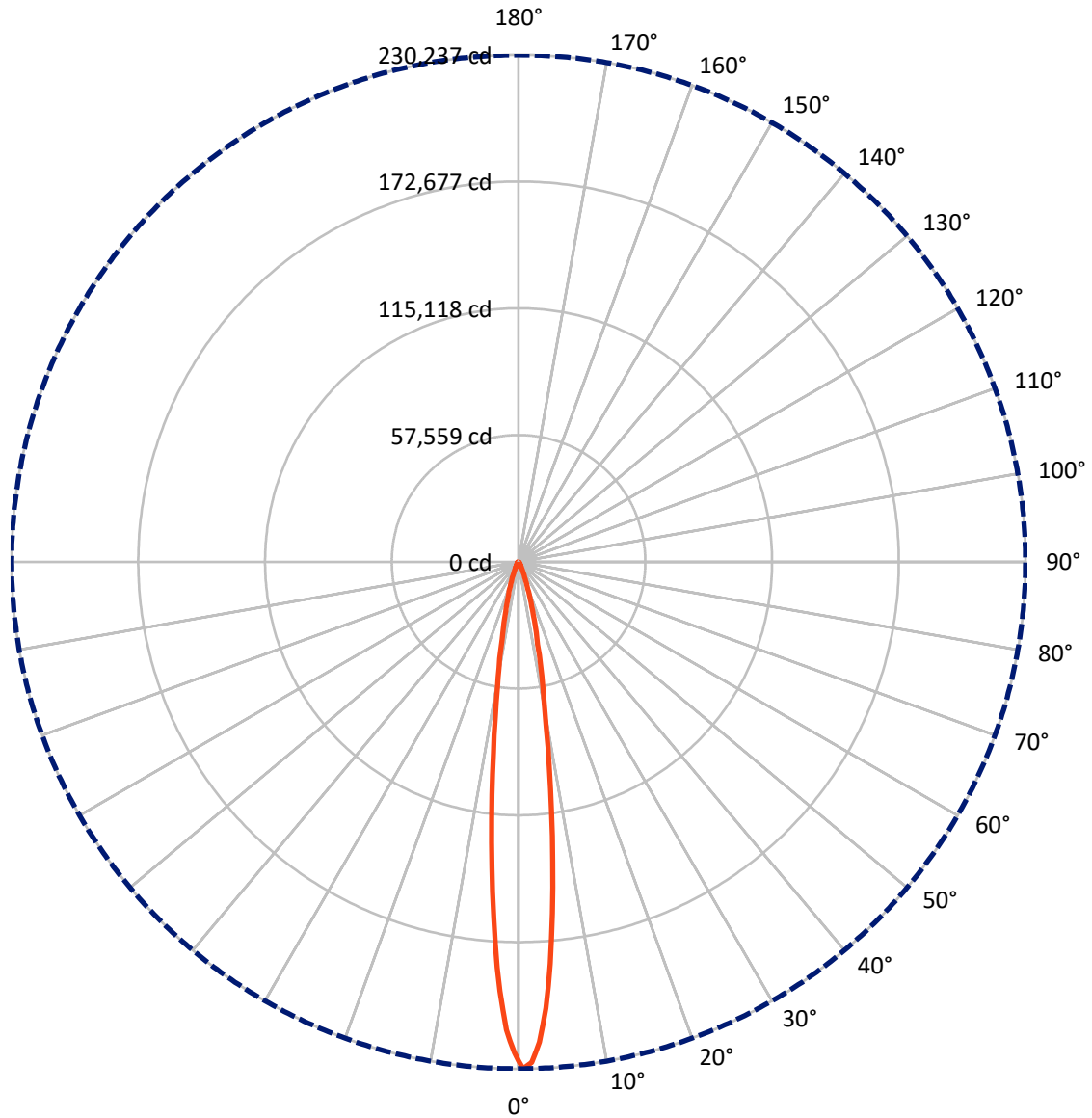
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 575.6 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 | 11871.6 | 0.0 | 11871.6 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 11306.8 | 0.0 | 11306.8 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 23178.4 | 0.0 | 23178.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 11701.1 | 50.5 |
| 10°-20° | 7491.0 | 32.3 |
| 20°-30° | 2251.7 | 9.7 |
| 30°-40° | 733.1 | 3.2 |
| 40°-50° | 426.6 | 1.8 |
| 50°-60° | 283.3 | 1.2 |
| 60°-70° | 170.5 | 0.7 |
| 70°-80° | 87.7 | 0.4 |
| 80°-90° | 33.3 | 0.1 |
| 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° | 23178.4 | 100.0 |
| 0°-180° | 23178.4 | 100.0 |

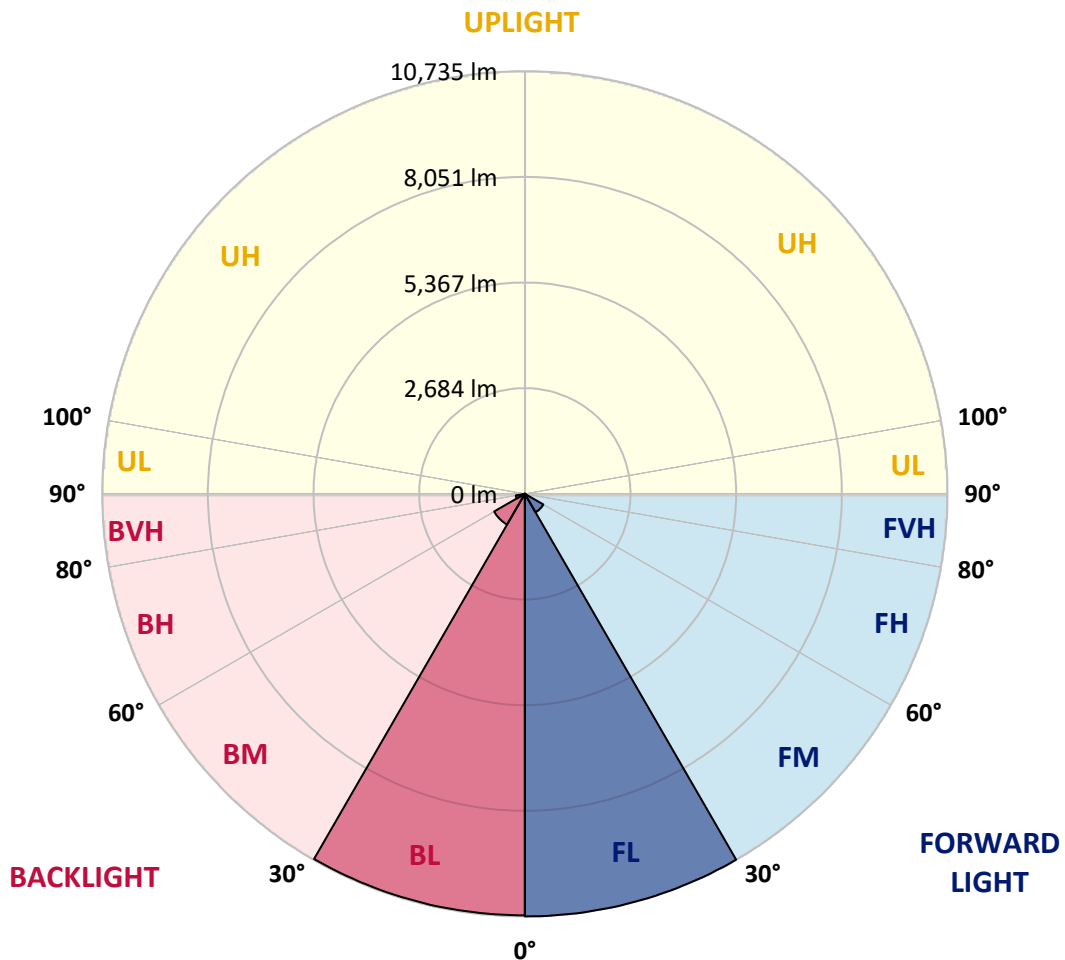


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 10734.6 | 46.3 | | | |
| FM (30°-60°) | 541.7 | 2.3 | | | |
| FH (60°-80°) | 25.5 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 5.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 10709.2 | 46.2 | B5 | | |
| BM (30°-60°) | 901.4 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 232.7 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 28.3 | 0.1 | | | 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° | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 |
| 1° | 227479.9 | 226785.6 | 224993.2 | 226268.1 | 227389.0 | 227063.3 | 227040.6 | 226919.4 | 226750.3 | 228078.2 |
| 2° | 218386.6 | 217937.3 | 215286.6 | 216379.7 | 217972.6 | 216811.3 | 217538.4 | 216899.7 | 216912.3 | 218497.7 |
| 3° | 203057.9 | 203302.8 | 199074.2 | 201061.0 | 203275.0 | 200460.2 | 201333.7 | 202974.6 | 201255.4 | 200737.9 |
| 4° | 183134.6 | 181008.9 | 178699.0 | 180718.6 | 181291.7 | 179653.3 | 181263.9 | 183273.4 | 180885.2 | 180991.3 |
| 5° | 160388.8 | 158818.6 | 156084.6 | 157331.7 | 155910.4 | 156427.9 | 158841.3 | 159669.4 | 158003.2 | 155905.3 |
| 6° | 137001.9 | 135886.1 | 132467.9 | 134265.4 | 133760.5 | 133467.6 | 136514.7 | 133990.2 | 134899.0 | 133629.2 |
| 7° | 113958.3 | 111873.1 | 110194.3 | 111916.0 | 112027.1 | 111146.0 | 115101.9 | 114642.4 | 112988.9 | 112605.2 |
| 8° | 94416.2 | 92336.0 | 90914.7 | 92197.1 | 93035.3 | 91651.9 | 93512.4 | 94734.3 | 93441.7 | 93557.8 |
| 9° | 76151.4 | 75785.4 | 73808.7 | 75485.0 | 76396.3 | 74914.4 | 76974.4 | 77416.2 | 76207.0 | 76795.2 |
| 10° | 62526.7 | 62100.1 | 60522.3 | 61201.4 | 62711.0 | 60943.9 | 62920.6 | 63064.5 | 62100.1 | 62375.3 |
| 12.5° | 38639.9 | 38468.3 | 38425.4 | 38523.8 | 38503.6 | 38816.7 | 39321.6 | 38746.0 | 38670.2 | 37718.5 |
| 15° | 24974.8 | 25229.8 | 24967.3 | 25472.2 | 25545.4 | 25840.7 | 25532.8 | 25068.3 | 24182.2 | 23742.9 |
| 17.5° | 15586.2 | 15911.9 | 16361.3 | 17100.9 | 17840.6 | 17926.5 | 17517.5 | 16972.2 | 16543.0 | 16073.5 |
| 20° | 8967.0 | 9126.1 | 9057.9 | 9944.0 | 11857.6 | 12377.6 | 11850.0 | 11276.9 | 10759.4 | 10284.8 |
| 22.5° | 5571.6 | 5513.5 | 5619.5 | 5917.4 | 6541.0 | 8149.1 | 7717.4 | 7144.3 | 6768.2 | 6376.9 |
| 25° | 3415.6 | 3478.8 | 3438.4 | 3602.5 | 3882.7 | 4564.3 | 4662.7 | 4415.3 | 4223.5 | 4021.5 |
| 27.5° | 2198.8 | 2198.8 | 2216.5 | 2307.4 | 2499.3 | 2476.5 | 3001.6 | 2809.8 | 2706.3 | 2607.8 |
| 30° | 1527.3 | 1532.4 | 1532.4 | 1585.4 | 1628.3 | 1552.6 | 1688.9 | 1936.3 | 1888.3 | 1812.6 |
| 32.5° | 1133.5 | 1148.6 | 1161.3 | 1189.0 | 1153.7 | 1072.9 | 1105.7 | 1393.5 | 1365.8 | 1338.0 |
| 35° | 863.4 | 876.0 | 906.3 | 921.4 | 871.0 | 820.5 | 790.2 | 1024.9 | 1037.6 | 1030.0 |
| 37.5° | 628.6 | 636.2 | 691.7 | 749.8 | 691.7 | 646.3 | 628.6 | 787.6 | 848.2 | 840.7 |
| 40° | 482.2 | 484.7 | 494.8 | 560.4 | 560.4 | 525.1 | 530.1 | 588.2 | 694.2 | 694.2 |
| 42.5° | 414.0 | 414.0 | 424.1 | 414.0 | 416.5 | 454.4 | 467.0 | 474.6 | 588.2 | 588.2 |
| 45° | 358.5 | 358.5 | 363.5 | 338.3 | 313.0 | 391.3 | 401.4 | 403.9 | 494.8 | 507.4 |
| 47.5° | 300.4 | 300.4 | 310.5 | 277.7 | 265.1 | 310.5 | 338.3 | 345.9 | 426.6 | 436.7 |
| 50° | 222.2 | 224.7 | 255.0 | 227.2 | 234.8 | 239.8 | 292.8 | 297.9 | 361.0 | 383.7 |
| 52.5° | 148.9 | 148.9 | 154.0 | 176.7 | 204.5 | 196.9 | 237.3 | 255.0 | 287.8 | 318.1 |
| 55° | 121.2 | 121.2 | 118.7 | 113.6 | 151.5 | 164.1 | 174.2 | 212.1 | 234.8 | 272.6 |
| 57.5° | 83.3 | 88.4 | 80.8 | 93.4 | 98.5 | 123.7 | 131.3 | 166.6 | 179.2 | 229.7 |
| 60° | 10.1 | 12.6 | 17.7 | 68.2 | 65.6 | 83.3 | 98.5 | 131.3 | 146.4 | 176.7 |
| 62.5° | 2.5 | 2.5 | 5.0 | 12.6 | 45.4 | 55.5 | 78.3 | 90.9 | 106.0 | 136.3 |
| 65° | 0.0 | 0.0 | 2.5 | 5.0 | 10.1 | 30.3 | 40.4 | 53.0 | 75.7 | 95.9 |
| 67.5° | 0.0 | 0.0 | 2.5 | 5.0 | 5.0 | 12.6 | 20.2 | 32.8 | 40.4 | 70.7 |
| 70° | 0.0 | 0.0 | 2.5 | 5.0 | 5.0 | 10.1 | 12.6 | 15.1 | 27.8 | 37.9 |
| 72.5° | 0.0 | 0.0 | 2.5 | 5.0 | 7.6 | 10.1 | 12.6 | 12.6 | 12.6 | 25.2 |
| 75° | 0.0 | 0.0 | 2.5 | 5.0 | 7.6 | 10.1 | 12.6 | 12.6 | 10.1 | 10.1 |
| 77.5° | 0.0 | 0.0 | 2.5 | 5.0 | 10.1 | 12.6 | 15.1 | 12.6 | 7.6 | 7.6 |
| 80° | 0.0 | 0.0 | 2.5 | 7.6 | 12.6 | 17.7 | 20.2 | 15.1 | 7.6 | 5.0 |
| 82.5° | 0.0 | 0.0 | 5.0 | 10.1 | 15.1 | 20.2 | 27.8 | 22.7 | 10.1 | 5.0 |
| 85° | 0.0 | 0.0 | 2.5 | 7.6 | 15.1 | 20.2 | 40.4 | 27.8 | 12.6 | 2.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 15.1 | 10.1 | 5.0 | 2.5 |
| 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° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 230236.6 | 0° | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 | 230236.6 |
| 226545.8 | 1° | 228128.7 | 228287.7 | 227767.7 | 228573.0 | 228290.2 | 226634.2 | 226086.3 | 225437.6 | 224503.5 |
| 217566.2 | 2° | 216899.7 | 217710.1 | 217750.5 | 218644.1 | 218631.5 | 216700.3 | 216102.0 | 217205.2 | 215051.8 |
| 201788.1 | 3° | 201177.1 | 202121.3 | 201270.5 | 202858.5 | 202381.3 | 200038.6 | 199430.2 | 200682.3 | 199117.2 |
| 181829.4 | 4° | 181286.6 | 181107.4 | 180814.5 | 179910.8 | 181024.1 | 179426.1 | 178221.9 | 179920.9 | 176573.4 |
| 158687.3 | 5° | 158369.2 | 157970.4 | 157399.8 | 157132.2 | 157960.3 | 156937.9 | 154461.3 | 156942.9 | 150972.5 |
| 135926.5 | 6° | 136093.1 | 134376.4 | 134293.1 | 134144.2 | 134227.5 | 131364.7 | 131536.4 | 133384.3 | 128416.1 |
| 111284.9 | 7° | 112461.3 | 112776.8 | 112133.1 | 113165.6 | 112378.0 | 110439.2 | 109691.9 | 111638.3 | 108126.7 |
| 94067.8 | 8° | 93411.4 | 93012.6 | 92520.3 | 94062.7 | 92697.0 | 91424.6 | 90553.7 | 92091.1 | 89483.3 |
| 76891.1 | 9° | 76747.2 | 76058.0 | 75558.2 | 75479.9 | 75692.0 | 73303.8 | 73788.5 | 74952.3 | 73382.1 |
| 62526.7 | 10° | 62549.5 | 61418.5 | 61693.6 | 61766.9 | 61534.6 | 59969.4 | 59984.6 | 60386.0 | 58497.6 |
| 38349.6 | 12.5° | 38213.3 | 37657.9 | 37796.8 | 37872.5 | 38344.6 | 37794.2 | 37016.7 | 36456.3 | 36173.5 |
| 24179.6 | 15° | 24018.1 | 23619.2 | 24434.6 | 24982.4 | 24871.3 | 24381.6 | 24015.5 | 23508.1 | 23099.1 |
| 16073.5 | 17.5° | 15924.5 | 16447.1 | 16449.6 | 16949.5 | 17000.0 | 16510.2 | 16227.5 | 15770.5 | 15790.7 |
| 10453.9 | 20° | 10416.1 | 10633.2 | 11085.1 | 11438.5 | 11643.0 | 11269.4 | 10931.1 | 10618.0 | 10486.8 |
| 6518.3 | 22.5° | 6518.3 | 6896.9 | 7179.7 | 7639.1 | 7825.9 | 7553.3 | 7313.5 | 7058.5 | 6902.0 |
| 4069.5 | 25° | 4001.3 | 4271.4 | 4506.2 | 4905.1 | 5160.1 | 5028.8 | 4809.2 | 4629.9 | 4546.6 |
| 2628.0 | 27.5° | 2668.4 | 2782.0 | 2898.1 | 3173.3 | 3438.4 | 3365.2 | 3276.8 | 3168.2 | 3130.4 |
| 1853.0 | 30° | 1880.8 | 1890.8 | 2014.5 | 2168.5 | 2345.3 | 2390.7 | 2350.3 | 2294.8 | 2251.9 |
| 1360.7 | 32.5° | 1385.9 | 1426.3 | 1484.4 | 1580.3 | 1699.0 | 1807.5 | 1787.3 | 1762.1 | 1741.9 |
| 1040.1 | 35° | 1070.4 | 1131.0 | 1178.9 | 1252.2 | 1315.3 | 1418.8 | 1436.4 | 1428.9 | 1413.7 |
| 855.8 | 37.5° | 873.5 | 926.5 | 974.5 | 1017.4 | 1070.4 | 1141.1 | 1196.6 | 1199.1 | 1184.0 |
| 706.9 | 40° | 724.5 | 772.5 | 835.6 | 868.4 | 906.3 | 959.3 | 1027.5 | 1032.5 | 1027.5 |
| 598.3 | 42.5° | 610.9 | 656.4 | 719.5 | 759.9 | 787.6 | 838.1 | 906.3 | 916.4 | 906.3 |
| 512.5 | 45° | 525.1 | 552.9 | 618.5 | 666.5 | 694.2 | 727.1 | 800.3 | 810.4 | 807.8 |
| 441.8 | 47.5° | 456.9 | 484.7 | 525.1 | 593.3 | 618.5 | 648.8 | 706.9 | 724.5 | 724.5 |
| 391.3 | 50° | 401.4 | 429.2 | 464.5 | 525.1 | 563.0 | 588.2 | 636.2 | 661.4 | 661.4 |
| 340.8 | 52.5° | 356.0 | 383.7 | 421.6 | 469.6 | 512.5 | 535.2 | 580.6 | 613.5 | 613.5 |
| 277.7 | 55° | 297.9 | 345.9 | 373.6 | 416.5 | 474.6 | 494.8 | 530.1 | 573.1 | 573.1 |
| 242.4 | 57.5° | 260.0 | 300.4 | 340.8 | 376.2 | 434.2 | 459.5 | 494.8 | 535.2 | 540.2 |
| 191.9 | 60° | 219.6 | 257.5 | 305.5 | 335.8 | 391.3 | 424.1 | 462.0 | 499.9 | 509.9 |
| 146.4 | 62.5° | 174.2 | 224.7 | 257.5 | 300.4 | 353.4 | 396.3 | 426.6 | 464.5 | 479.7 |
| 113.6 | 65° | 128.7 | 184.3 | 222.2 | 267.6 | 318.1 | 363.5 | 388.8 | 429.2 | 439.3 |
| 80.8 | 67.5° | 93.4 | 143.9 | 189.3 | 232.3 | 280.2 | 325.7 | 350.9 | 386.2 | 393.8 |
| 50.5 | 70° | 73.2 | 106.0 | 156.5 | 194.4 | 244.9 | 282.7 | 310.5 | 333.2 | 340.8 |
| 32.8 | 72.5° | 42.9 | 80.8 | 126.2 | 169.1 | 214.6 | 239.8 | 260.0 | 280.2 | 285.3 |
| 15.1 | 75° | 27.8 | 63.1 | 103.5 | 141.4 | 174.2 | 196.9 | 214.6 | 232.3 | 234.8 |
| 7.6 | 77.5° | 17.7 | 45.4 | 83.3 | 118.7 | 133.8 | 161.6 | 176.7 | 186.8 | 181.8 |
| 5.0 | 80° | 10.1 | 35.3 | 73.2 | 95.9 | 108.6 | 126.2 | 141.4 | 154.0 | 141.4 |
| 5.0 | 82.5° | 7.6 | 30.3 | 60.6 | 80.8 | 80.8 | 101.0 | 108.6 | 108.6 | 103.5 |
| 2.5 | 85° | 5.0 | 25.2 | 48.0 | 75.7 | 60.6 | 75.7 | 70.7 | 70.7 | 70.7 |
| 2.5 | 87.5° | 5.0 | 17.7 | 22.7 | 32.8 | 27.8 | 32.8 | 32.8 | 37.9 | 37.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
230236.6
222867.6
212532.3
195120.9
173771.2
150404.5
128027.3
106344.4
87701.0
71317.0
57654.5
36115.4
23248.1
15656.9
10509.5
6922.2
4526.4
3105.1
2256.9
1741.9
1403.6
1181.5
1024.9
908.8
807.8
727.1
663.9
613.5
575.6
537.7
509.9
482.2
436.7
388.8
340.8
285.3
232.3
181.8
138.8
101.0
68.2
37.9
0.0

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