

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: P637034

Luminaire Tested: **IFLD-S-SA3C-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637034
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17616.7 lumens
Efficiency: N/A
Efficacy: 109.6 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

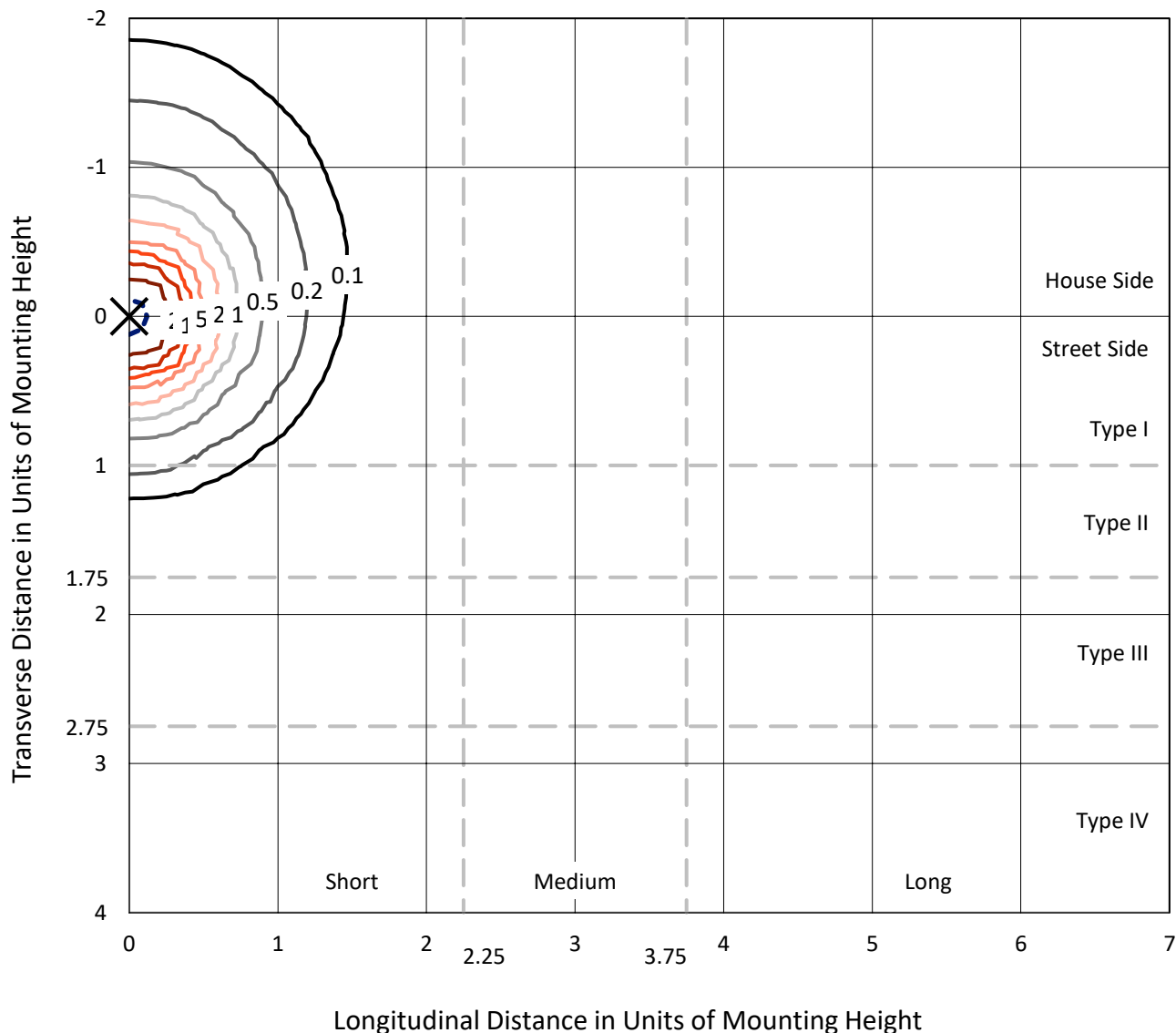
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

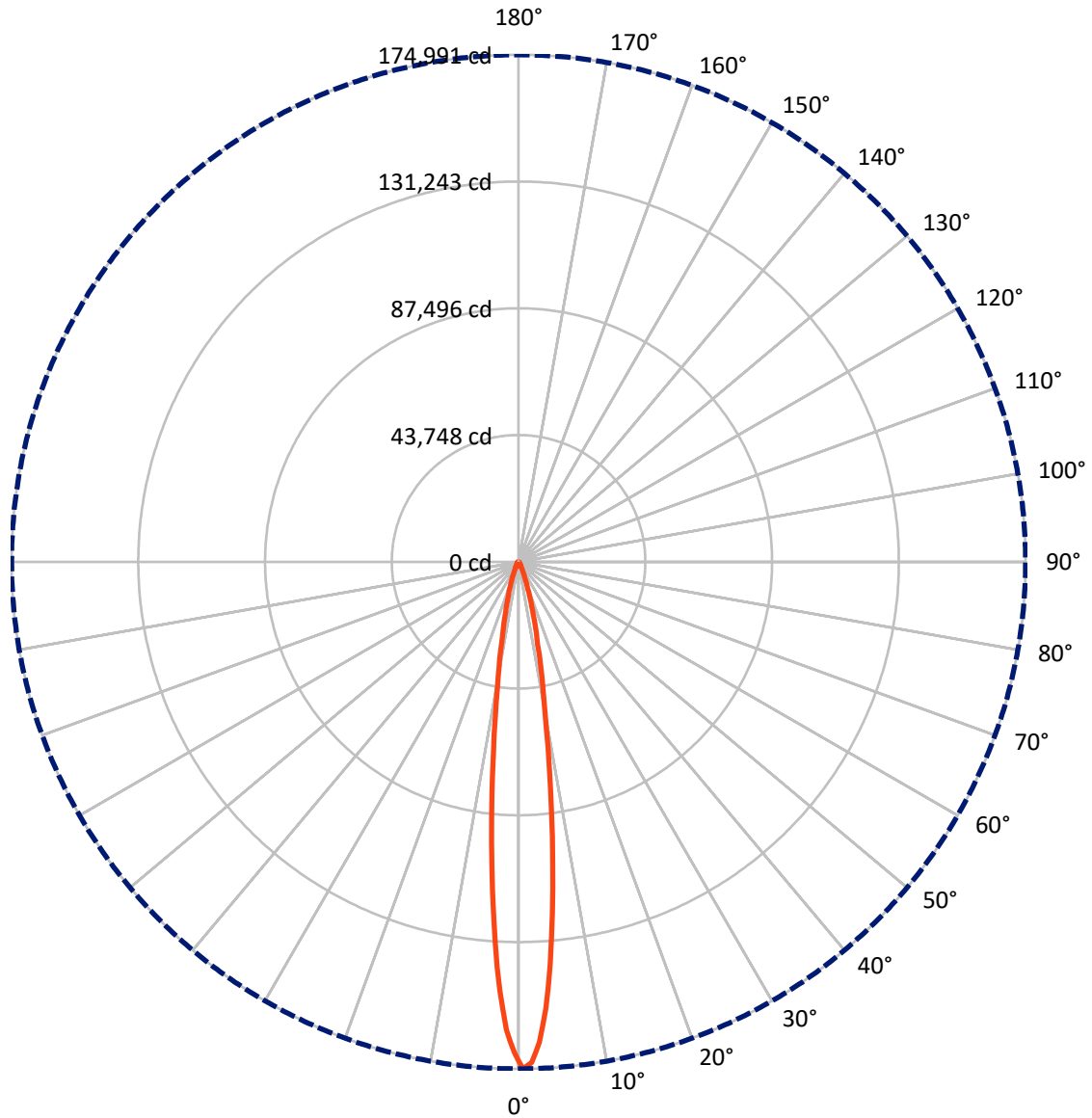
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 437.5 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 | 9023.0 | 0.0 | 9023.0 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 8593.8 | 0.0 | 8593.8 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 17616.7 | 0.0 | 17616.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8893.5 | 50.5 |
| 10°-20° | 5693.6 | 32.3 |
| 20°-30° | 1711.4 | 9.7 |
| 30°-40° | 557.2 | 3.2 |
| 40°-50° | 324.2 | 1.8 |
| 50°-60° | 215.3 | 1.2 |
| 60°-70° | 129.6 | 0.7 |
| 70°-80° | 66.6 | 0.4 |
| 80°-90° | 25.3 | 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° | 17616.7 | 100.0 |
| 0°-180° | 17616.7 | 100.0 |

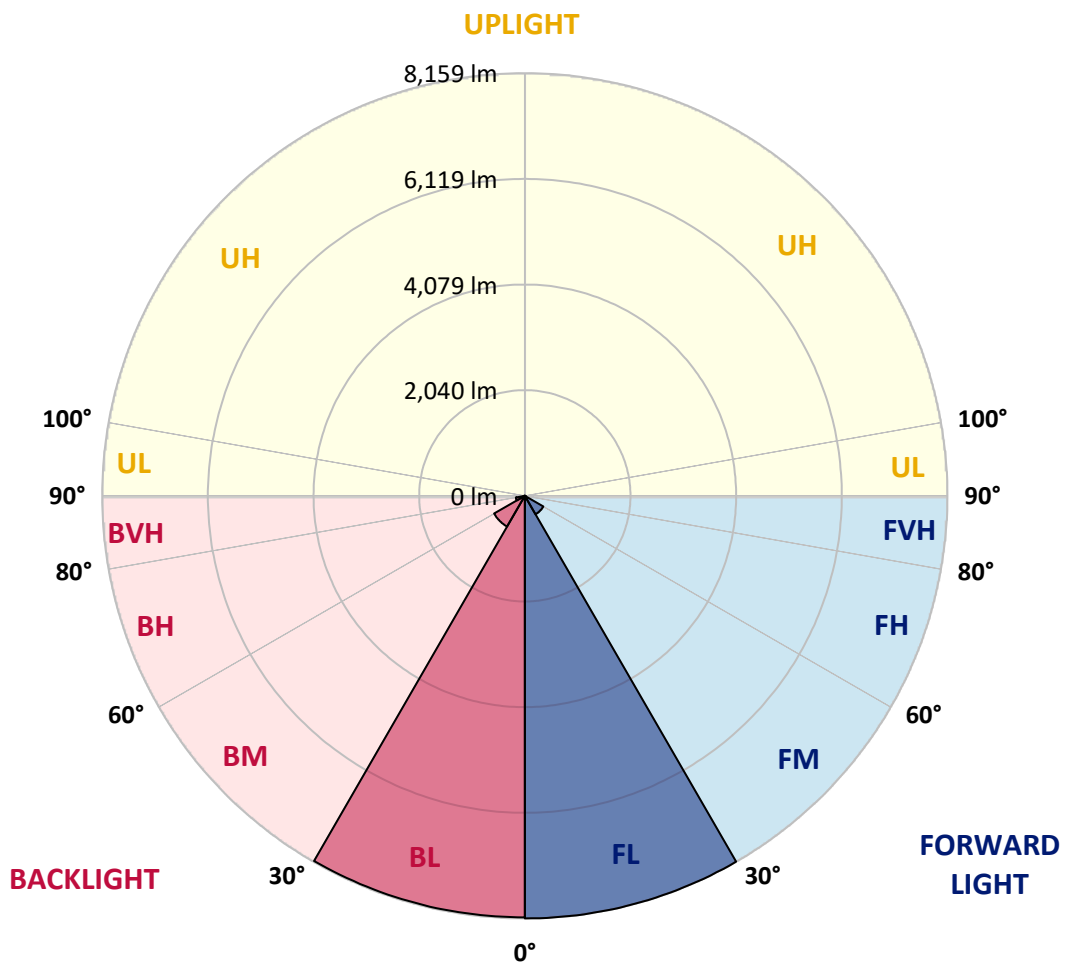


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 8158.9 | 46.3 | | | |
| FM (30°-60°) | 411.7 | 2.3 | | | |
| FH (60°-80°) | 19.4 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 3.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 8139.5 | 46.2 | B5 | | |
| BM (30°-60°) | 685.1 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 176.9 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 21.5 | 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° | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 |
| 1° | 172896.0 | 172368.4 | 171006.1 | 171975.0 | 172827.0 | 172579.4 | 172562.2 | 172470.1 | 172341.5 | 173350.8 |
| 2° | 165984.7 | 165643.2 | 163628.5 | 164459.3 | 165670.1 | 164787.4 | 165340.0 | 164854.6 | 164864.2 | 166069.2 |
| 3° | 154334.1 | 154520.2 | 151306.3 | 152816.4 | 154499.1 | 152359.7 | 153023.6 | 154270.8 | 152964.1 | 152570.8 |
| 4° | 139191.4 | 137575.8 | 135820.2 | 137355.2 | 137790.7 | 136545.4 | 137769.6 | 139296.9 | 137481.8 | 137562.4 |
| 5° | 121903.5 | 120710.1 | 118632.1 | 119579.9 | 118499.7 | 118893.0 | 120727.3 | 121356.7 | 120090.3 | 118495.8 |
| 6° | 104128.3 | 103280.2 | 100682.2 | 102048.4 | 101664.6 | 101442.0 | 103758.0 | 101839.2 | 102530.0 | 101564.8 |
| 7° | 86614.0 | 85029.1 | 83753.1 | 85061.7 | 85146.2 | 84476.5 | 87483.2 | 87134.0 | 85877.2 | 85585.5 |
| 8° | 71761.0 | 70180.0 | 69099.7 | 70074.4 | 70711.4 | 69660.0 | 71074.1 | 72002.8 | 71020.4 | 71108.6 |
| 9° | 57878.9 | 57600.7 | 56098.3 | 57372.3 | 58065.0 | 56938.7 | 58504.4 | 58840.2 | 57921.1 | 58368.2 |
| 10° | 47523.4 | 47199.2 | 46000.0 | 46516.1 | 47663.5 | 46320.4 | 47822.8 | 47932.1 | 47199.2 | 47408.3 |
| 12.5° | 29368.3 | 29237.8 | 29205.2 | 29280.0 | 29264.7 | 29502.6 | 29886.3 | 29448.9 | 29391.3 | 28667.9 |
| 15° | 18982.1 | 19175.9 | 18976.4 | 19360.1 | 19415.8 | 19640.3 | 19406.2 | 19053.1 | 18379.6 | 18045.8 |
| 17.5° | 11846.3 | 12093.8 | 12435.4 | 12997.6 | 13559.8 | 13625.0 | 13314.2 | 12899.7 | 12573.5 | 12216.6 |
| 20° | 6815.4 | 6936.3 | 6884.5 | 7557.9 | 9012.3 | 9407.6 | 9006.6 | 8571.0 | 8177.7 | 7817.0 |
| 22.5° | 4234.7 | 4190.5 | 4271.1 | 4497.5 | 4971.5 | 6193.7 | 5865.6 | 5430.0 | 5144.2 | 4846.7 |
| 25° | 2596.1 | 2644.0 | 2613.3 | 2738.0 | 2951.0 | 3469.1 | 3543.9 | 3355.9 | 3210.1 | 3056.6 |
| 27.5° | 1671.2 | 1671.2 | 1684.7 | 1753.7 | 1899.6 | 1882.3 | 2281.4 | 2135.6 | 2056.9 | 1982.1 |
| 30° | 1160.8 | 1164.7 | 1164.7 | 1205.0 | 1237.6 | 1180.0 | 1283.6 | 1471.7 | 1435.2 | 1377.7 |
| 32.5° | 861.5 | 873.0 | 882.6 | 903.7 | 876.9 | 815.5 | 840.4 | 1059.1 | 1038.0 | 1016.9 |
| 35° | 656.2 | 665.8 | 688.8 | 700.3 | 662.0 | 623.6 | 600.6 | 779.0 | 788.6 | 782.8 |
| 37.5° | 477.8 | 483.5 | 525.7 | 569.9 | 525.7 | 491.2 | 477.8 | 598.6 | 644.7 | 638.9 |
| 40° | 366.5 | 368.4 | 376.1 | 426.0 | 426.0 | 399.1 | 402.9 | 447.1 | 527.7 | 527.7 |
| 42.5° | 314.7 | 314.7 | 322.3 | 314.7 | 316.6 | 345.4 | 355.0 | 360.7 | 447.1 | 447.1 |
| 45° | 272.5 | 272.5 | 276.3 | 257.1 | 237.9 | 297.4 | 305.1 | 307.0 | 376.1 | 385.7 |
| 47.5° | 228.3 | 228.3 | 236.0 | 211.1 | 201.5 | 236.0 | 257.1 | 262.9 | 324.3 | 331.9 |
| 50° | 168.8 | 170.8 | 193.8 | 172.7 | 178.4 | 182.3 | 222.6 | 226.4 | 274.4 | 291.6 |
| 52.5° | 113.2 | 113.2 | 117.0 | 134.3 | 155.4 | 149.7 | 180.4 | 193.8 | 218.7 | 241.8 |
| 55° | 92.1 | 92.1 | 90.2 | 86.3 | 115.1 | 124.7 | 132.4 | 161.2 | 178.4 | 207.2 |
| 57.5° | 63.3 | 67.2 | 61.4 | 71.0 | 74.8 | 94.0 | 99.8 | 126.6 | 136.2 | 174.6 |
| 60° | 7.7 | 9.6 | 13.4 | 51.8 | 49.9 | 63.3 | 74.8 | 99.8 | 111.3 | 134.3 |
| 62.5° | 1.9 | 1.9 | 3.8 | 9.6 | 34.5 | 42.2 | 59.5 | 69.1 | 80.6 | 103.6 |
| 65° | 0.0 | 0.0 | 1.9 | 3.8 | 7.7 | 23.0 | 30.7 | 40.3 | 57.6 | 72.9 |
| 67.5° | 0.0 | 0.0 | 1.9 | 3.8 | 3.8 | 9.6 | 15.3 | 24.9 | 30.7 | 53.7 |
| 70° | 0.0 | 0.0 | 1.9 | 3.8 | 3.8 | 7.7 | 9.6 | 11.5 | 21.1 | 28.8 |
| 72.5° | 0.0 | 0.0 | 1.9 | 3.8 | 5.8 | 7.7 | 9.6 | 9.6 | 9.6 | 19.2 |
| 75° | 0.0 | 0.0 | 1.9 | 3.8 | 5.8 | 7.7 | 9.6 | 9.6 | 7.7 | 7.7 |
| 77.5° | 0.0 | 0.0 | 1.9 | 3.8 | 7.7 | 9.6 | 11.5 | 9.6 | 5.8 | 5.8 |
| 80° | 0.0 | 0.0 | 1.9 | 5.8 | 9.6 | 13.4 | 15.3 | 11.5 | 5.8 | 3.8 |
| 82.5° | 0.0 | 0.0 | 3.8 | 7.7 | 11.5 | 15.3 | 21.1 | 17.3 | 7.7 | 3.8 |
| 85° | 0.0 | 0.0 | 1.9 | 5.8 | 11.5 | 15.3 | 30.7 | 21.1 | 9.6 | 1.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 3.8 | 11.5 | 7.7 | 3.8 | 1.9 |
| 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° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 174991.3 | 0° | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 | 174991.3 |
| 172186.1 | 1° | 173389.2 | 173510.0 | 173114.8 | 173726.9 | 173512.0 | 172253.3 | 171836.9 | 171343.8 |
| 165361.1 | 2° | 164854.6 | 165470.5 | 165501.2 | 166180.4 | 166170.8 | 164703.0 | 164248.3 | 165086.8 |
| 153369.0 | 3° | 152904.7 | 153622.3 | 152975.6 | 154182.5 | 153819.9 | 152039.3 | 151576.9 | 152528.6 |
| 138199.4 | 4° | 137786.9 | 137650.6 | 137428.1 | 136741.2 | 137587.3 | 136372.8 | 135457.5 | 136748.8 |
| 120610.3 | 5° | 120368.5 | 120065.4 | 119631.7 | 119428.3 | 120057.7 | 119280.6 | 117398.3 | 119284.4 |
| 103310.9 | 6° | 103437.5 | 102132.8 | 102069.5 | 101956.3 | 102019.6 | 99843.7 | 99974.2 | 101378.7 |
| 84582.0 | 7° | 85476.2 | 85716.0 | 85226.7 | 86011.5 | 85412.9 | 83939.3 | 83371.3 | 84850.7 |
| 71496.2 | 8° | 70997.3 | 70694.2 | 70320.0 | 71492.4 | 70454.3 | 69487.3 | 68825.3 | 69993.8 |
| 58441.1 | 9° | 58331.7 | 57807.9 | 57428.0 | 57368.5 | 57529.7 | 55714.5 | 56082.9 | 56967.5 |
| 47523.4 | 10° | 47540.7 | 46681.1 | 46890.2 | 46945.9 | 46769.4 | 45579.7 | 45591.3 | 45896.3 |
| 29147.6 | 12.5° | 29044.0 | 28621.9 | 28727.4 | 28785.0 | 29143.8 | 28725.5 | 28134.5 | 27708.6 |
| 18377.7 | 15° | 18254.9 | 17951.8 | 18571.5 | 18987.9 | 18903.5 | 18531.2 | 18253.0 | 17867.3 |
| 12216.6 | 17.5° | 12103.4 | 12500.6 | 12502.5 | 12882.4 | 12920.8 | 12548.6 | 12333.7 | 11986.4 |
| 7945.5 | 20° | 7916.7 | 8081.7 | 8425.2 | 8693.8 | 8849.2 | 8565.3 | 8308.2 | 8070.2 |
| 4954.2 | 22.5° | 4954.2 | 5242.0 | 5456.9 | 5806.1 | 5948.1 | 5740.9 | 5558.6 | 5364.8 |
| 3093.0 | 25° | 3041.2 | 3246.5 | 3425.0 | 3728.1 | 3921.9 | 3822.1 | 3655.2 | 3519.0 |
| 1997.4 | 27.5° | 2028.1 | 2114.5 | 2202.7 | 2411.9 | 2613.3 | 2557.7 | 2490.5 | 2408.0 |
| 1408.4 | 30° | 1429.5 | 1437.1 | 1531.2 | 1648.2 | 1782.5 | 1817.0 | 1786.3 | 1744.1 |
| 1034.2 | 32.5° | 1053.4 | 1084.1 | 1128.2 | 1201.1 | 1291.3 | 1373.8 | 1358.5 | 1339.3 |
| 790.5 | 35° | 813.5 | 859.6 | 896.1 | 951.7 | 999.7 | 1078.3 | 1091.8 | 1086.0 |
| 650.5 | 37.5° | 663.9 | 704.2 | 740.6 | 773.3 | 813.5 | 867.3 | 909.5 | 911.4 |
| 537.2 | 40° | 550.7 | 587.1 | 635.1 | 660.0 | 688.8 | 729.1 | 780.9 | 784.8 |
| 454.7 | 42.5° | 464.3 | 498.9 | 546.8 | 577.5 | 598.6 | 637.0 | 688.8 | 696.5 |
| 389.5 | 45° | 399.1 | 420.2 | 470.1 | 506.5 | 527.7 | 552.6 | 608.2 | 615.9 |
| 335.8 | 47.5° | 347.3 | 368.4 | 399.1 | 450.9 | 470.1 | 493.1 | 537.2 | 550.7 |
| 297.4 | 50° | 305.1 | 326.2 | 353.0 | 399.1 | 427.9 | 447.1 | 483.5 | 502.7 |
| 259.0 | 52.5° | 270.5 | 291.6 | 320.4 | 356.9 | 389.5 | 406.8 | 441.3 | 466.3 |
| 211.1 | 55° | 226.4 | 262.9 | 284.0 | 316.6 | 360.7 | 376.1 | 402.9 | 435.6 |
| 184.2 | 57.5° | 197.6 | 228.3 | 259.0 | 285.9 | 330.0 | 349.2 | 376.1 | 406.8 |
| 145.8 | 60° | 166.9 | 195.7 | 232.2 | 255.2 | 297.4 | 322.3 | 351.1 | 379.9 |
| 111.3 | 62.5° | 132.4 | 170.8 | 195.7 | 228.3 | 268.6 | 301.2 | 324.3 | 353.0 |
| 86.3 | 65° | 97.9 | 140.1 | 168.8 | 203.4 | 241.8 | 276.3 | 295.5 | 326.2 |
| 61.4 | 67.5° | 71.0 | 109.4 | 143.9 | 176.5 | 213.0 | 247.5 | 266.7 | 293.6 |
| 38.4 | 70° | 55.6 | 80.6 | 119.0 | 147.7 | 186.1 | 214.9 | 236.0 | 253.3 |
| 24.9 | 72.5° | 32.6 | 61.4 | 95.9 | 128.6 | 163.1 | 182.3 | 197.6 | 213.0 |
| 11.5 | 75° | 21.1 | 48.0 | 78.7 | 107.4 | 132.4 | 149.7 | 163.1 | 176.5 |
| 5.8 | 77.5° | 13.4 | 34.5 | 63.3 | 90.2 | 101.7 | 122.8 | 134.3 | 142.0 |
| 3.8 | 80° | 7.7 | 26.9 | 55.6 | 72.9 | 82.5 | 95.9 | 107.4 | 117.0 |
| 3.8 | 82.5° | 5.8 | 23.0 | 46.0 | 61.4 | 61.4 | 76.7 | 82.5 | 82.5 |
| 1.9 | 85° | 3.8 | 19.2 | 36.5 | 57.6 | 46.0 | 57.6 | 53.7 | 53.7 |
| 1.9 | 87.5° | 3.8 | 13.4 | 17.3 | 24.9 | 21.1 | 24.9 | 24.9 | 28.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
174991.3
169390.5
161535.2
148301.6
132074.8
114314.9
97307.1
80827.1
66657.1
54204.5
43820.3
27449.5
17669.7
11900.0
7987.7
5261.2
3440.3
2360.1
1715.4
1323.9
1066.8
898.0
779.0
690.7
614.0
552.6
504.6
466.3
437.5
408.7
387.6
366.5
331.9
295.5
259.0
216.8
176.5
138.1
105.5
76.7
51.8
28.8
0.0

(END OF REPORT)