

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: P637178

Luminaire Tested: **IFLD-S-SA3B-760-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637178
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-760-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17309.5 lumens
Efficiency: N/A
Efficacy: 141.4 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

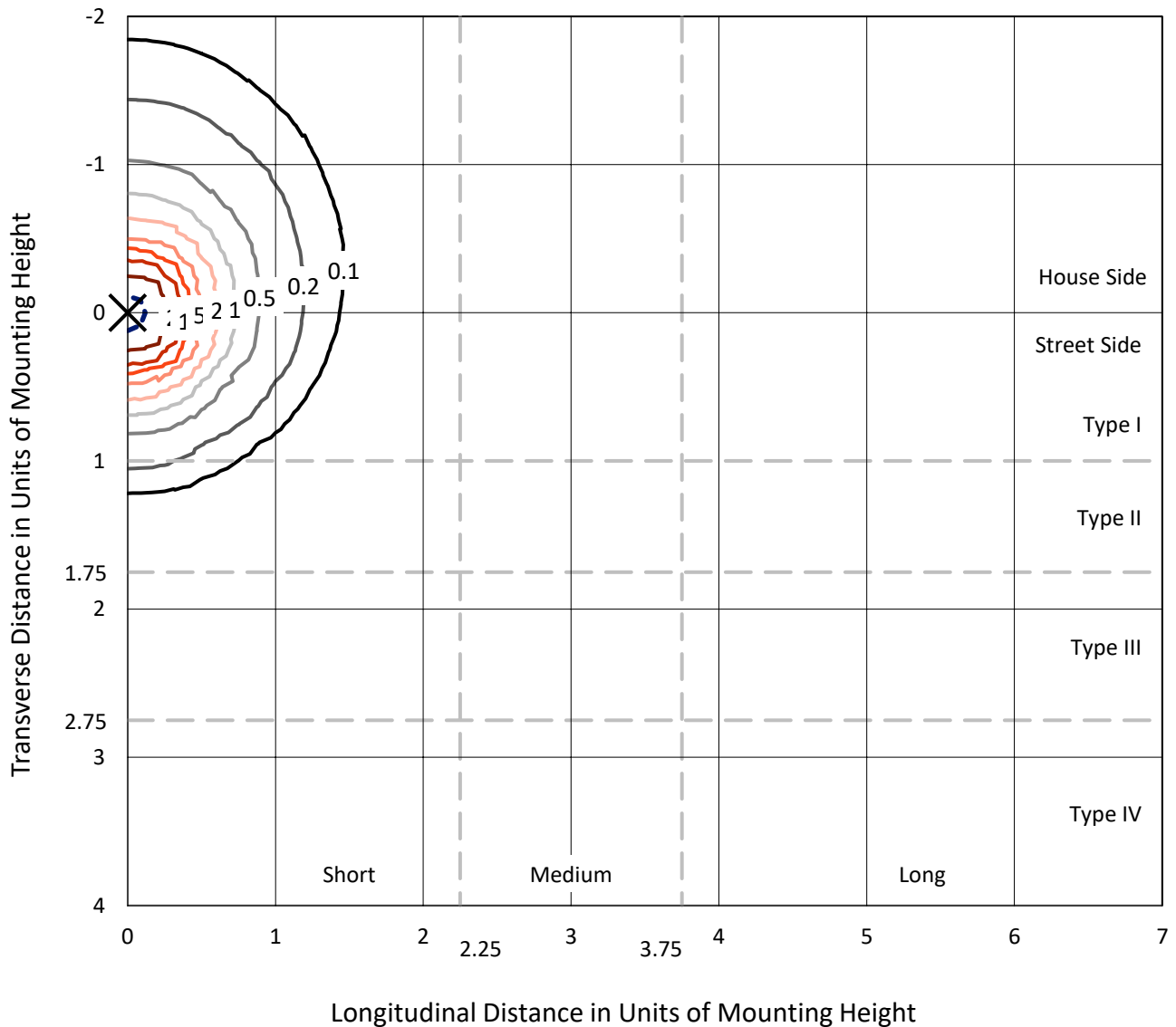
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

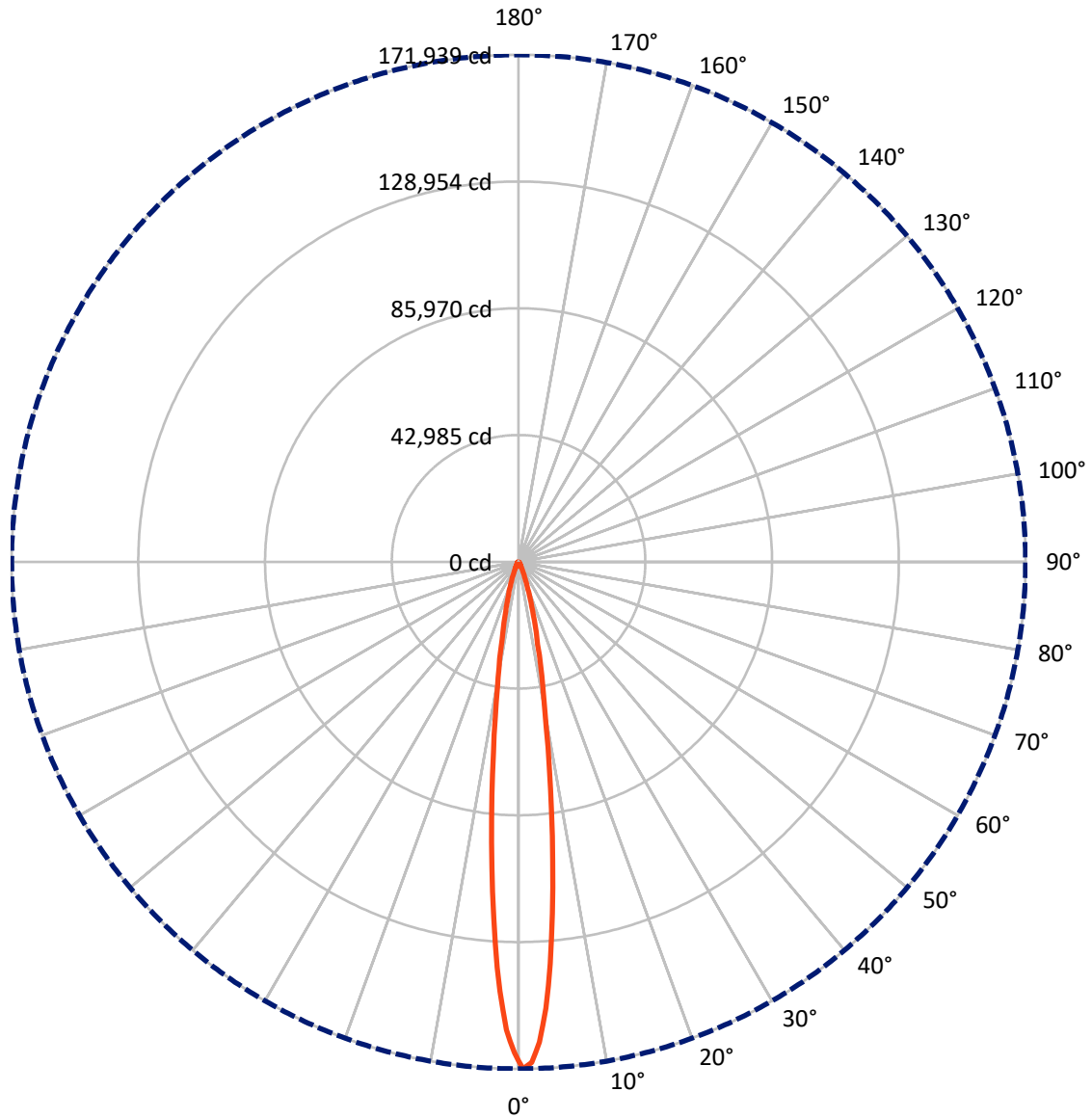
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 429.8 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 | 8865.6 | 0.0 | 8865.6 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 8443.9 | 0.0 | 8443.9 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 17309.5 | 0.0 | 17309.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8738.3 | 50.5 |
| 10°-20° | 5594.3 | 32.3 |
| 20°-30° | 1681.5 | 9.7 |
| 30°-40° | 547.5 | 3.2 |
| 40°-50° | 318.6 | 1.8 |
| 50°-60° | 211.6 | 1.2 |
| 60°-70° | 127.4 | 0.7 |
| 70°-80° | 65.5 | 0.4 |
| 80°-90° | 24.9 | 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° | 17309.5 | 100.0 |
| 0°-180° | 17309.5 | 100.0 |

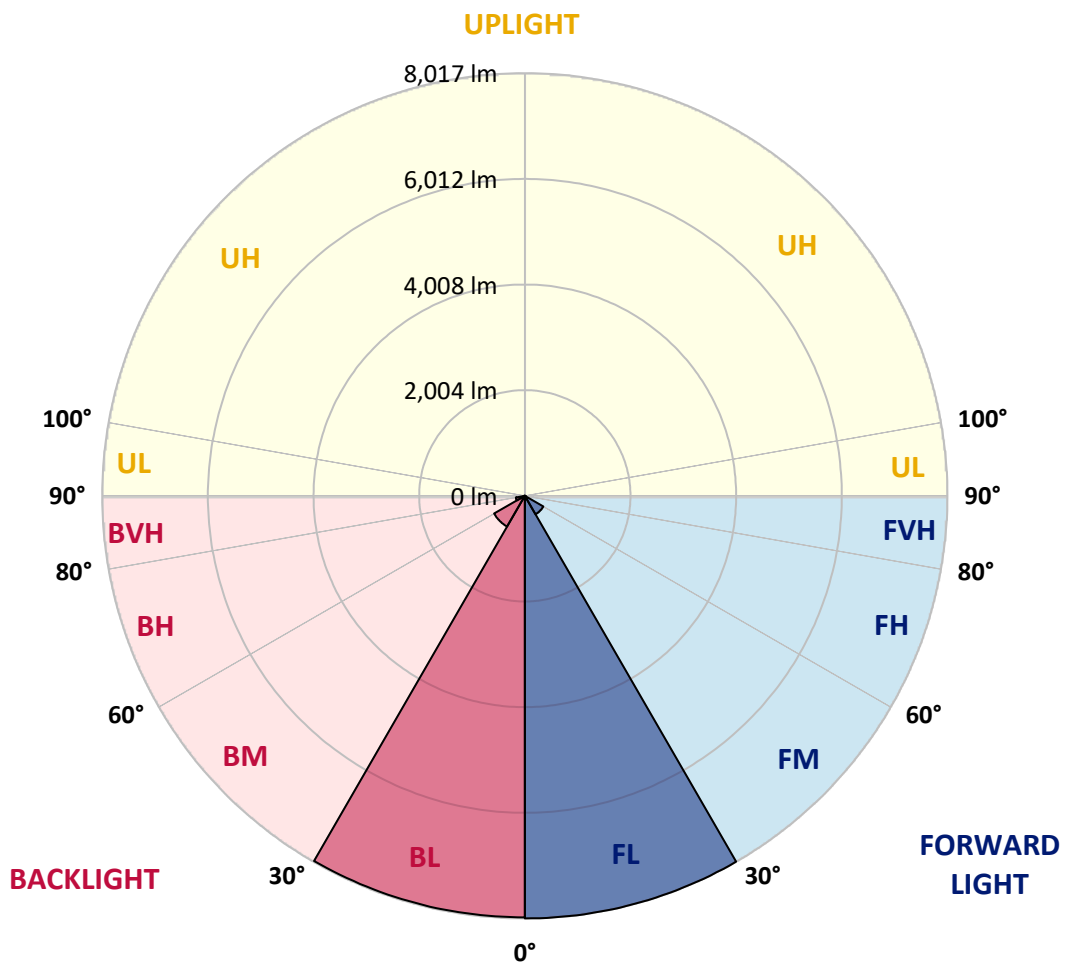


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 8016.6 | 46.3 | | | |
| FM (30°-60°) | 404.5 | 2.3 | | | |
| FH (60°-80°) | 19.0 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 3.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 7997.6 | 46.2 | B5 | | |
| BM (30°-60°) | 673.1 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 173.8 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 21.1 | 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° | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 |
| 1° | 169880.5 | 169362.1 | 168023.5 | 168975.6 | 169812.7 | 169569.5 | 169552.5 | 169462.0 | 169335.7 | 170327.3 |
| 2° | 163089.8 | 162754.2 | 160774.6 | 161591.0 | 162780.6 | 161913.3 | 162456.3 | 161979.3 | 161988.8 | 163172.7 |
| 3° | 151642.3 | 151825.2 | 148667.4 | 150151.1 | 151804.5 | 149702.4 | 150354.7 | 151580.1 | 150296.3 | 149909.8 |
| 4° | 136763.7 | 135176.3 | 133451.3 | 134959.5 | 135387.5 | 134163.9 | 135366.7 | 136867.4 | 135084.0 | 135163.1 |
| 5° | 119777.4 | 118604.7 | 116563.0 | 117494.3 | 116432.9 | 116819.4 | 118621.7 | 119240.1 | 117995.8 | 116429.1 |
| 6° | 102312.2 | 101478.9 | 98926.2 | 100268.5 | 99891.5 | 99672.8 | 101948.3 | 100063.0 | 100741.7 | 99793.4 |
| 7° | 85103.3 | 83546.1 | 82292.4 | 83578.2 | 83661.1 | 83003.1 | 85957.4 | 85614.3 | 84379.4 | 84092.8 |
| 8° | 70509.4 | 68955.9 | 67894.5 | 68852.2 | 69478.2 | 68445.0 | 69834.5 | 70746.9 | 69781.7 | 69868.4 |
| 9° | 56869.4 | 56596.1 | 55119.9 | 56371.7 | 57052.3 | 55945.6 | 57484.0 | 57813.9 | 56910.9 | 57350.2 |
| 10° | 46694.6 | 46376.0 | 45197.7 | 45704.8 | 46832.2 | 45512.5 | 46988.7 | 47096.1 | 46376.0 | 46581.5 |
| 12.5° | 28856.1 | 28727.9 | 28695.8 | 28769.3 | 28754.3 | 28988.0 | 29365.1 | 28935.2 | 28878.7 | 28167.9 |
| 15° | 18651.1 | 18841.5 | 18645.4 | 19022.5 | 19077.1 | 19297.7 | 19067.7 | 18720.8 | 18059.1 | 17731.0 |
| 17.5° | 11639.7 | 11882.9 | 12218.5 | 12770.9 | 13323.3 | 13387.4 | 13081.9 | 12674.7 | 12354.2 | 12003.6 |
| 20° | 6696.5 | 6815.3 | 6764.4 | 7426.1 | 8855.2 | 9243.5 | 8849.5 | 8421.5 | 8035.1 | 7680.6 |
| 22.5° | 4160.8 | 4117.4 | 4196.6 | 4419.1 | 4884.8 | 6085.7 | 5763.3 | 5335.3 | 5054.4 | 4762.2 |
| 25° | 2550.8 | 2597.9 | 2567.7 | 2690.3 | 2899.6 | 3408.6 | 3482.1 | 3297.4 | 3154.1 | 3003.2 |
| 27.5° | 1642.1 | 1642.1 | 1655.3 | 1723.1 | 1866.4 | 1849.5 | 2241.6 | 2098.3 | 2021.0 | 1947.5 |
| 30° | 1140.6 | 1144.4 | 1144.4 | 1184.0 | 1216.0 | 1159.4 | 1261.3 | 1446.0 | 1410.2 | 1353.6 |
| 32.5° | 846.5 | 857.8 | 867.2 | 888.0 | 861.6 | 801.2 | 825.8 | 1040.7 | 1019.9 | 999.2 |
| 35° | 644.8 | 654.2 | 676.8 | 688.1 | 650.4 | 612.7 | 590.1 | 765.4 | 774.8 | 769.2 |
| 37.5° | 469.4 | 475.1 | 516.6 | 559.9 | 516.6 | 482.6 | 469.4 | 588.2 | 633.5 | 627.8 |
| 40° | 360.1 | 362.0 | 369.5 | 418.5 | 418.5 | 392.1 | 395.9 | 439.3 | 518.5 | 518.5 |
| 42.5° | 309.2 | 309.2 | 316.7 | 309.2 | 311.1 | 339.4 | 348.8 | 354.4 | 439.3 | 439.3 |
| 45° | 267.7 | 267.7 | 271.5 | 252.6 | 233.8 | 292.2 | 299.8 | 301.6 | 369.5 | 378.9 |
| 47.5° | 224.3 | 224.3 | 231.9 | 207.4 | 198.0 | 231.9 | 252.6 | 258.3 | 318.6 | 326.2 |
| 50° | 165.9 | 167.8 | 190.4 | 169.7 | 175.3 | 179.1 | 218.7 | 222.5 | 269.6 | 286.6 |
| 52.5° | 111.2 | 111.2 | 115.0 | 132.0 | 152.7 | 147.1 | 177.2 | 190.4 | 214.9 | 237.5 |
| 55° | 90.5 | 90.5 | 88.6 | 84.8 | 113.1 | 122.5 | 130.1 | 158.4 | 175.3 | 203.6 |
| 57.5° | 62.2 | 66.0 | 60.3 | 69.8 | 73.5 | 92.4 | 98.0 | 124.4 | 133.9 | 171.6 |
| 60° | 7.5 | 9.4 | 13.2 | 50.9 | 49.0 | 62.2 | 73.5 | 98.0 | 109.3 | 132.0 |
| 62.5° | 1.9 | 1.9 | 3.8 | 9.4 | 33.9 | 41.5 | 58.4 | 67.9 | 79.2 | 101.8 |
| 65° | 0.0 | 0.0 | 1.9 | 3.8 | 7.5 | 22.6 | 30.2 | 39.6 | 56.6 | 71.6 |
| 67.5° | 0.0 | 0.0 | 1.9 | 3.8 | 3.8 | 9.4 | 15.1 | 24.5 | 30.2 | 52.8 |
| 70° | 0.0 | 0.0 | 1.9 | 3.8 | 3.8 | 7.5 | 9.4 | 11.3 | 20.7 | 28.3 |
| 72.5° | 0.0 | 0.0 | 1.9 | 3.8 | 5.7 | 7.5 | 9.4 | 9.4 | 9.4 | 18.9 |
| 75° | 0.0 | 0.0 | 1.9 | 3.8 | 5.7 | 7.5 | 9.4 | 9.4 | 7.5 | 7.5 |
| 77.5° | 0.0 | 0.0 | 1.9 | 3.8 | 7.5 | 9.4 | 11.3 | 9.4 | 5.7 | 5.7 |
| 80° | 0.0 | 0.0 | 1.9 | 5.7 | 9.4 | 13.2 | 15.1 | 11.3 | 5.7 | 3.8 |
| 82.5° | 0.0 | 0.0 | 3.8 | 7.5 | 11.3 | 15.1 | 20.7 | 17.0 | 7.5 | 3.8 |
| 85° | 0.0 | 0.0 | 1.9 | 5.7 | 11.3 | 15.1 | 30.2 | 20.7 | 9.4 | 1.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 3.8 | 11.3 | 7.5 | 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° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 171939.3 | 0° | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 | 171939.3 |
| 169183.0 | 1° | 170365.0 | 170483.8 | 170095.5 | 170696.9 | 170485.7 | 169249.0 | 168839.9 | 168355.3 |
| 162477.0 | 2° | 161979.3 | 162584.5 | 162614.7 | 163282.1 | 163272.6 | 161830.4 | 161383.6 | 162207.4 |
| 150694.1 | 3° | 150237.8 | 150942.9 | 150307.6 | 151493.4 | 151137.1 | 149387.6 | 148933.2 | 149868.3 |
| 135789.0 | 4° | 135383.7 | 135249.9 | 135031.2 | 134356.2 | 135187.6 | 133994.3 | 133095.0 | 134363.8 |
| 118506.7 | 5° | 118269.2 | 117971.3 | 117545.2 | 117345.4 | 117963.7 | 117200.2 | 115350.7 | 117204.0 |
| 101509.0 | 6° | 101633.5 | 100351.5 | 100289.3 | 100178.0 | 100240.2 | 98102.3 | 98230.5 | 99610.6 |
| 83106.8 | 7° | 83985.4 | 84221.0 | 83740.3 | 84511.4 | 83923.2 | 82475.3 | 81917.2 | 83370.8 |
| 70249.2 | 8° | 69759.1 | 69461.2 | 69093.6 | 70245.5 | 69225.5 | 68275.3 | 67624.9 | 68773.1 |
| 57421.8 | 9° | 57314.3 | 56799.7 | 56426.4 | 56367.9 | 56526.3 | 54742.8 | 55104.8 | 55973.9 |
| 46694.6 | 10° | 46711.5 | 45866.9 | 46072.4 | 46127.1 | 45953.7 | 44784.8 | 44796.1 | 45095.9 |
| 28639.3 | 12.5° | 28537.5 | 28122.7 | 28226.4 | 28282.9 | 28635.5 | 28224.5 | 27643.8 | 27225.3 |
| 18057.2 | 15° | 17936.5 | 17638.7 | 18247.6 | 18656.7 | 18573.8 | 18208.0 | 17934.7 | 17555.7 |
| 12003.6 | 17.5° | 11892.3 | 12282.6 | 12284.5 | 12657.8 | 12695.5 | 12329.7 | 12118.6 | 11777.3 |
| 7806.9 | 20° | 7778.7 | 7940.8 | 8278.3 | 8542.2 | 8694.9 | 8415.9 | 8163.3 | 7929.5 |
| 4867.8 | 22.5° | 4867.8 | 5150.6 | 5361.7 | 5704.9 | 5844.4 | 5640.8 | 5461.7 | 5271.2 |
| 3039.1 | 25° | 2988.2 | 3189.9 | 3365.2 | 3663.1 | 3853.5 | 3755.5 | 3591.5 | 3457.6 |
| 1962.6 | 27.5° | 1992.7 | 2077.6 | 2164.3 | 2369.8 | 2567.7 | 2513.1 | 2447.1 | 2366.0 |
| 1383.8 | 30° | 1404.5 | 1412.1 | 1504.5 | 1619.5 | 1751.4 | 1785.4 | 1755.2 | 1713.7 |
| 1016.2 | 32.5° | 1035.0 | 1065.2 | 1108.5 | 1180.2 | 1268.8 | 1349.9 | 1334.8 | 1315.9 |
| 776.7 | 35° | 799.4 | 844.6 | 880.4 | 935.1 | 982.2 | 1059.5 | 1072.7 | 1067.1 |
| 639.1 | 37.5° | 652.3 | 691.9 | 727.7 | 759.8 | 799.4 | 852.1 | 893.6 | 895.5 |
| 527.9 | 40° | 541.1 | 576.9 | 624.0 | 648.5 | 676.8 | 716.4 | 767.3 | 771.1 |
| 446.8 | 42.5° | 456.2 | 490.2 | 537.3 | 567.5 | 588.2 | 625.9 | 676.8 | 684.4 |
| 382.7 | 45° | 392.1 | 412.9 | 461.9 | 497.7 | 518.5 | 543.0 | 597.6 | 605.2 |
| 329.9 | 47.5° | 341.2 | 362.0 | 392.1 | 443.0 | 461.9 | 484.5 | 527.9 | 541.1 |
| 292.2 | 50° | 299.8 | 320.5 | 346.9 | 392.1 | 420.4 | 439.3 | 475.1 | 493.9 |
| 254.5 | 52.5° | 265.8 | 286.6 | 314.8 | 350.7 | 382.7 | 399.7 | 433.6 | 458.1 |
| 207.4 | 55° | 222.5 | 258.3 | 279.0 | 311.1 | 354.4 | 369.5 | 395.9 | 428.0 |
| 181.0 | 57.5° | 194.2 | 224.3 | 254.5 | 280.9 | 324.3 | 343.1 | 369.5 | 399.7 |
| 143.3 | 60° | 164.0 | 192.3 | 228.1 | 250.7 | 292.2 | 316.7 | 345.0 | 373.3 |
| 109.3 | 62.5° | 130.1 | 167.8 | 192.3 | 224.3 | 263.9 | 296.0 | 318.6 | 346.9 |
| 84.8 | 65° | 96.1 | 137.6 | 165.9 | 199.8 | 237.5 | 271.5 | 290.3 | 320.5 |
| 60.3 | 67.5° | 69.8 | 107.5 | 141.4 | 173.4 | 209.3 | 243.2 | 262.1 | 288.4 |
| 37.7 | 70° | 54.7 | 79.2 | 116.9 | 145.2 | 182.9 | 211.2 | 231.9 | 248.9 |
| 24.5 | 72.5° | 32.0 | 60.3 | 94.3 | 126.3 | 160.2 | 179.1 | 194.2 | 209.3 |
| 11.3 | 75° | 20.7 | 47.1 | 77.3 | 105.6 | 130.1 | 147.1 | 160.2 | 173.4 |
| 5.7 | 77.5° | 13.2 | 33.9 | 62.2 | 88.6 | 99.9 | 120.7 | 132.0 | 139.5 |
| 3.8 | 80° | 7.5 | 26.4 | 54.7 | 71.6 | 81.1 | 94.3 | 105.6 | 115.0 |
| 3.8 | 82.5° | 5.7 | 22.6 | 45.2 | 60.3 | 60.3 | 75.4 | 81.1 | 81.1 |
| 1.9 | 85° | 3.8 | 18.9 | 35.8 | 56.6 | 45.2 | 56.6 | 52.8 | 52.8 |
| 1.9 | 87.5° | 3.8 | 13.2 | 17.0 | 24.5 | 20.7 | 24.5 | 24.5 | 28.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
171939.3
166436.1
158717.8
145715.0
129771.2
112321.1
95610.0
79417.3
65494.6
53259.1
43056.0
26970.8
17361.5
11692.5
7848.4
5169.4
3380.3
2318.9
1685.4
1300.8
1048.2
882.3
765.4
678.7
603.3
543.0
495.8
458.1
429.8
401.6
380.8
360.1
326.2
290.3
254.5
213.0
173.4
135.7
103.7
75.4
50.9
28.3
0.0

(END OF REPORT)