

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: P637040

Luminaire Tested: **IFLD-S-SA6D-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637040
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38026.2 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

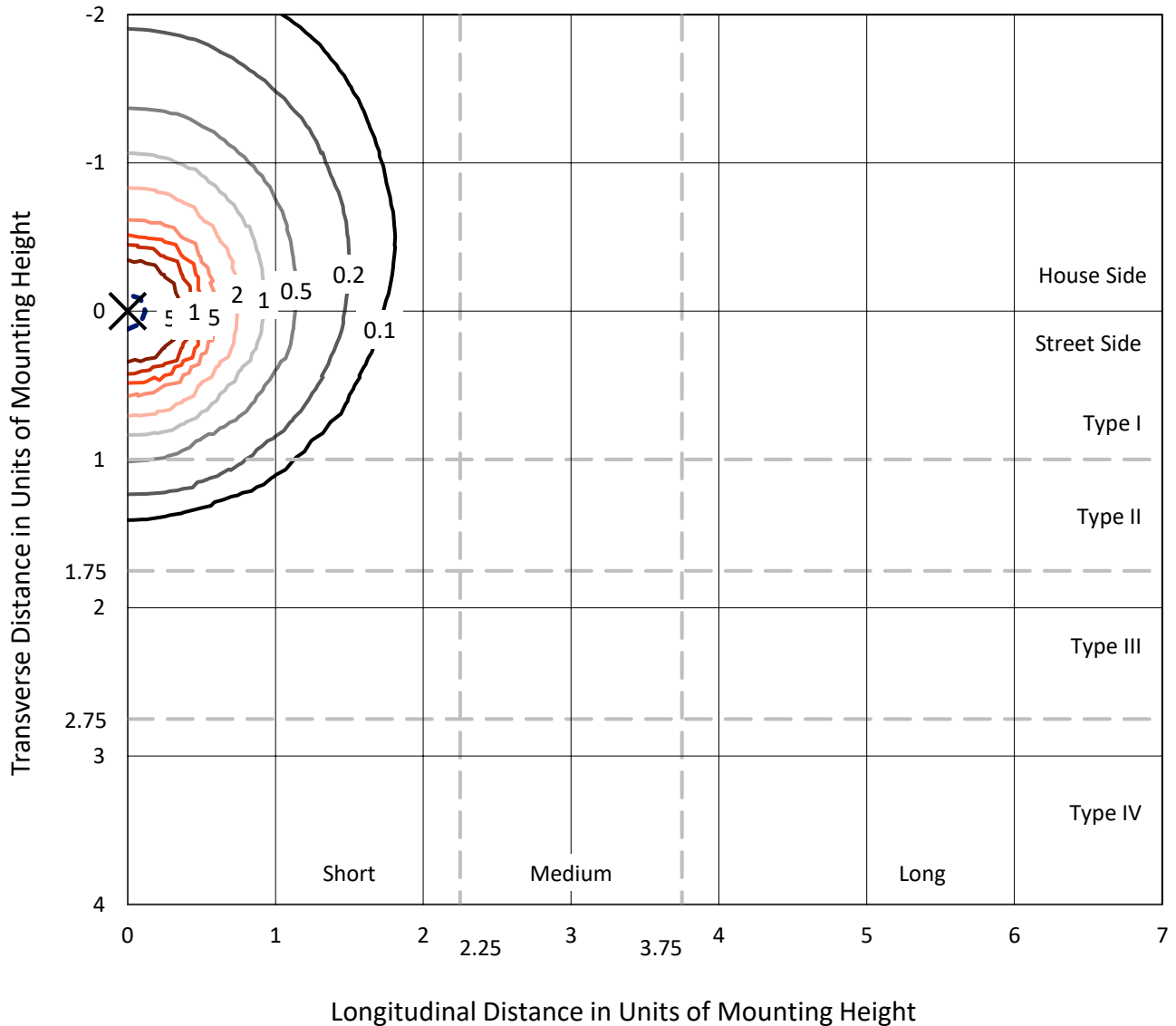
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

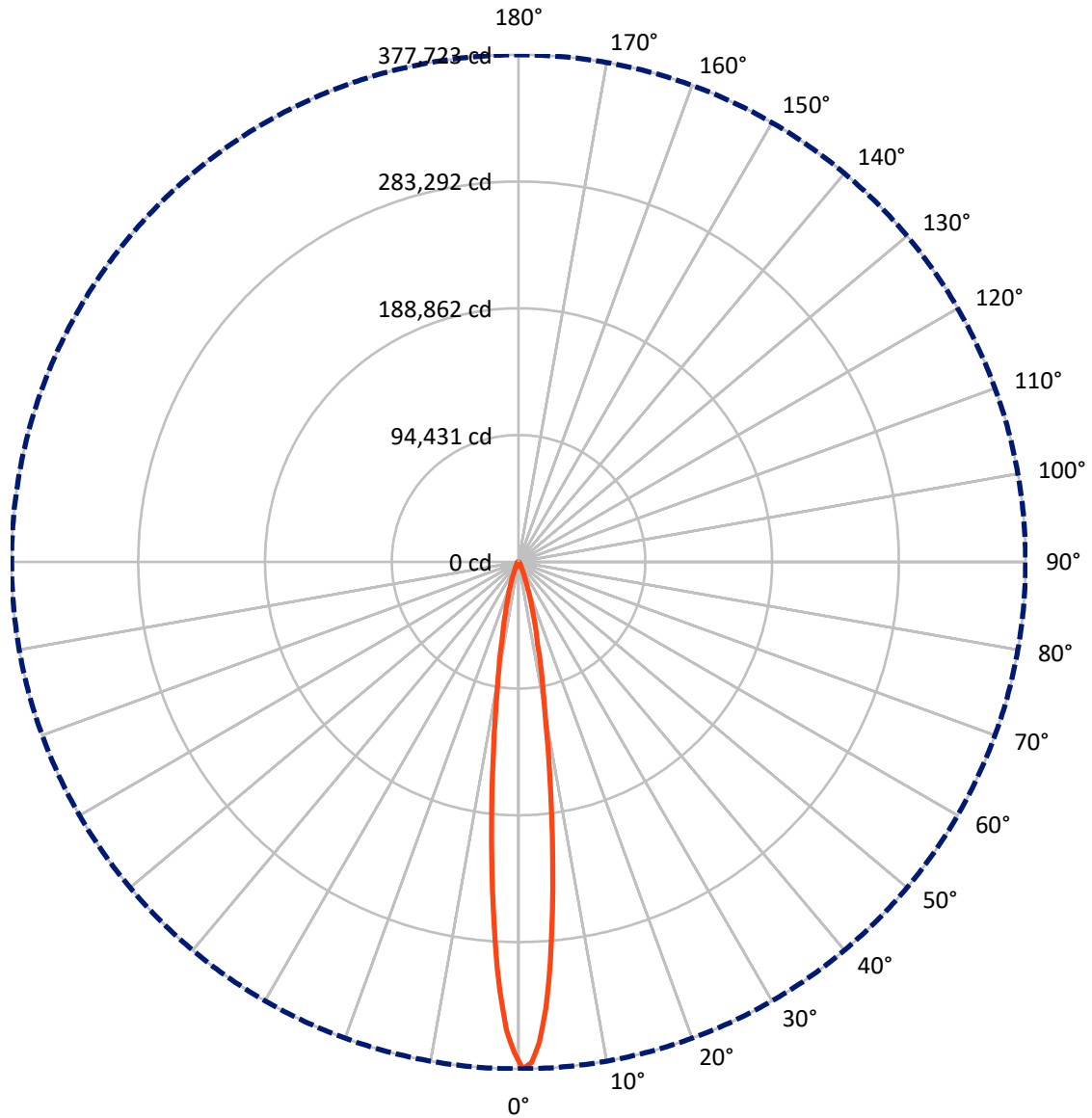
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 944.3 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 | 19476.3 | 0.0 | 19476.3 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 18549.9 | 0.0 | 18549.9 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 38026.2 | 0.0 | 38026.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 19196.8 | 50.5 |
| 10°-20° | 12289.7 | 32.3 |
| 20°-30° | 3694.0 | 9.7 |
| 30°-40° | 1202.8 | 3.2 |
| 40°-50° | 699.8 | 1.8 |
| 50°-60° | 464.8 | 1.2 |
| 60°-70° | 279.8 | 0.7 |
| 70°-80° | 143.8 | 0.4 |
| 80°-90° | 54.6 | 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° | 38026.2 | 100.0 |
| 0°-180° | 38026.2 | 100.0 |

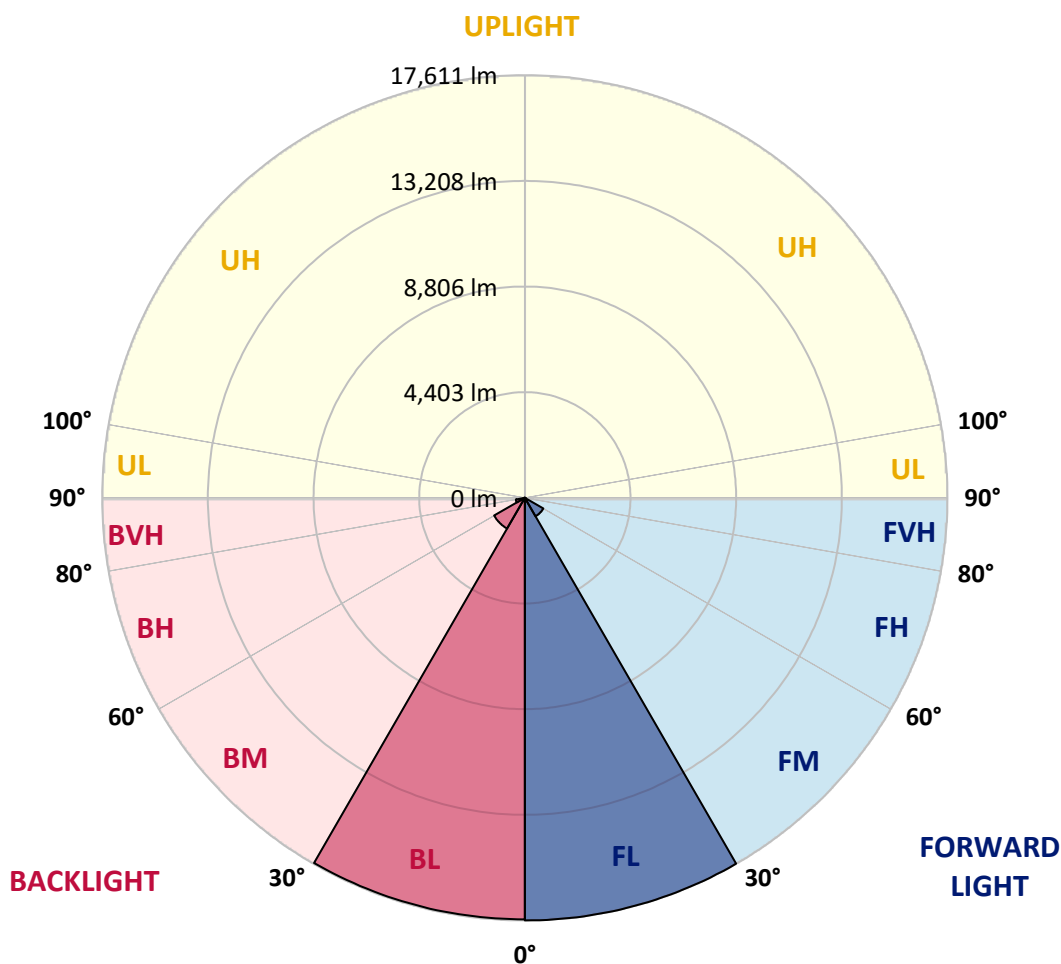


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 17611.1 | 46.3 | | | |
| FM (30°-60°) | 888.7 | 2.3 | | | |
| FH (60°-80°) | 41.8 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 8.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 17569.4 | 46.2 | B5 | | |
| BM (30°-60°) | 1478.8 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 381.8 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 46.4 | 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° | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 |
| 1° | 373200.5 | 372061.5 | 369121.0 | 371212.5 | 373051.4 | 372517.1 | 372479.8 | 372281.0 | 372003.5 | 374182.1 |
| 2° | 358282.2 | 357545.0 | 353196.3 | 354989.6 | 357603.0 | 355697.8 | 356890.6 | 355842.8 | 355863.5 | 358464.5 |
| 3° | 333134.1 | 333535.8 | 326598.6 | 329858.1 | 333490.3 | 328872.3 | 330305.4 | 332997.4 | 330177.0 | 329327.9 |
| 4° | 300448.2 | 296960.9 | 293171.3 | 296484.6 | 297424.7 | 294736.8 | 297379.2 | 300675.9 | 296757.9 | 296931.9 |
| 5° | 263131.8 | 260555.7 | 256070.3 | 258116.3 | 255784.5 | 256633.6 | 260593.0 | 261951.5 | 259218.0 | 255776.3 |
| 6° | 224763.5 | 222932.9 | 217325.1 | 220274.0 | 219445.6 | 218965.2 | 223964.2 | 219822.5 | 221313.5 | 219230.3 |
| 7° | 186958.5 | 183537.5 | 180783.3 | 183607.9 | 183790.1 | 182344.7 | 188834.7 | 188080.9 | 185368.1 | 184738.6 |
| 8° | 154897.9 | 151485.2 | 149153.5 | 151257.4 | 152632.4 | 150362.8 | 153415.2 | 155419.8 | 153299.3 | 153489.8 |
| 9° | 124933.1 | 124332.5 | 121089.6 | 123839.7 | 125334.8 | 122903.6 | 126283.2 | 127008.0 | 125024.2 | 125989.2 |
| 10° | 102580.5 | 101880.6 | 99292.1 | 100406.2 | 102882.9 | 99983.7 | 103226.6 | 103462.7 | 101880.6 | 102332.0 |
| 12.5° | 63392.2 | 63110.6 | 63040.1 | 63201.7 | 63168.5 | 63682.1 | 64510.4 | 63566.1 | 63441.9 | 61880.5 |
| 15° | 40973.4 | 41391.7 | 40961.0 | 41789.3 | 41909.4 | 42394.0 | 41888.7 | 41126.6 | 39672.9 | 38952.3 |
| 17.5° | 25570.6 | 26104.9 | 26842.1 | 28055.6 | 29269.1 | 29409.9 | 28739.0 | 27844.4 | 27140.3 | 26369.9 |
| 20° | 14711.2 | 14972.1 | 14860.3 | 16314.0 | 19453.4 | 20306.5 | 19440.9 | 18500.8 | 17651.7 | 16873.1 |
| 22.5° | 9140.6 | 9045.4 | 9219.3 | 9708.0 | 10731.0 | 13369.3 | 12661.0 | 11720.9 | 11103.8 | 10461.8 |
| 25° | 5603.7 | 5707.2 | 5640.9 | 5910.1 | 6369.9 | 7488.1 | 7649.6 | 7243.8 | 6929.0 | 6597.7 |
| 27.5° | 3607.4 | 3607.4 | 3636.4 | 3785.5 | 4100.2 | 4063.0 | 4924.4 | 4609.7 | 4439.9 | 4278.3 |
| 30° | 2505.7 | 2514.0 | 2514.0 | 2601.0 | 2671.4 | 2547.1 | 2770.8 | 3176.7 | 3098.0 | 2973.7 |
| 32.5° | 1859.6 | 1884.5 | 1905.2 | 1950.7 | 1892.7 | 1760.2 | 1814.0 | 2286.2 | 2240.6 | 2195.1 |
| 35° | 1416.4 | 1437.2 | 1486.9 | 1511.7 | 1428.9 | 1346.0 | 1296.3 | 1681.5 | 1702.2 | 1689.8 |
| 37.5° | 1031.3 | 1043.7 | 1134.8 | 1230.1 | 1134.8 | 1060.3 | 1031.3 | 1292.2 | 1391.6 | 1379.2 |
| 40° | 791.1 | 795.2 | 811.8 | 919.4 | 919.4 | 861.5 | 869.7 | 965.0 | 1139.0 | 1139.0 |
| 42.5° | 679.2 | 679.2 | 695.8 | 679.2 | 683.4 | 745.5 | 766.2 | 778.6 | 965.0 | 965.0 |
| 45° | 588.1 | 588.1 | 596.4 | 555.0 | 513.6 | 642.0 | 658.5 | 662.7 | 811.8 | 832.5 |
| 47.5° | 492.9 | 492.9 | 509.4 | 455.6 | 434.9 | 509.4 | 555.0 | 567.4 | 699.9 | 716.5 |
| 50° | 364.5 | 368.6 | 418.3 | 372.7 | 385.2 | 393.5 | 480.4 | 488.7 | 592.3 | 629.5 |
| 52.5° | 244.4 | 244.4 | 252.6 | 289.9 | 335.5 | 323.0 | 389.3 | 418.3 | 472.1 | 521.8 |
| 55° | 198.8 | 198.8 | 194.7 | 186.4 | 248.5 | 269.2 | 285.8 | 347.9 | 385.2 | 447.3 |
| 57.5° | 136.7 | 145.0 | 132.5 | 153.2 | 161.5 | 202.9 | 215.4 | 273.3 | 294.1 | 376.9 |
| 60° | 16.6 | 20.7 | 29.0 | 111.8 | 107.7 | 136.7 | 161.5 | 215.4 | 240.2 | 289.9 |
| 62.5° | 4.1 | 4.1 | 8.3 | 20.7 | 74.5 | 91.1 | 128.4 | 149.1 | 173.9 | 223.6 |
| 65° | 0.0 | 0.0 | 4.1 | 8.3 | 16.6 | 49.7 | 66.3 | 87.0 | 124.2 | 157.4 |
| 67.5° | 0.0 | 0.0 | 4.1 | 8.3 | 8.3 | 20.7 | 33.1 | 53.8 | 66.3 | 116.0 |
| 70° | 0.0 | 0.0 | 4.1 | 8.3 | 8.3 | 16.6 | 20.7 | 24.8 | 45.6 | 62.1 |
| 72.5° | 0.0 | 0.0 | 4.1 | 8.3 | 12.4 | 16.6 | 20.7 | 20.7 | 20.7 | 41.4 |
| 75° | 0.0 | 0.0 | 4.1 | 8.3 | 12.4 | 16.6 | 20.7 | 20.7 | 16.6 | 16.6 |
| 77.5° | 0.0 | 0.0 | 4.1 | 8.3 | 16.6 | 20.7 | 24.8 | 20.7 | 12.4 | 12.4 |
| 80° | 0.0 | 0.0 | 4.1 | 12.4 | 20.7 | 29.0 | 33.1 | 24.8 | 12.4 | 8.3 |
| 82.5° | 0.0 | 0.0 | 8.3 | 16.6 | 24.8 | 33.1 | 45.6 | 37.3 | 16.6 | 8.3 |
| 85° | 0.0 | 0.0 | 4.1 | 12.4 | 24.8 | 33.1 | 66.3 | 45.6 | 20.7 | 4.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.1 | 4.1 | 8.3 | 24.8 | 16.6 | 8.3 | 4.1 |
| 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° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 377723.2 | 0° | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 | 377723.2 |
| 371668.1 | 1° | 374264.9 | 374525.8 | 373672.6 | 374993.8 | 374530.0 | 371813.0 | 370914.3 | 369849.9 |
| 356936.2 | 2° | 355842.8 | 357172.3 | 357238.5 | 358704.7 | 358684.0 | 355515.6 | 354534.0 | 356343.9 |
| 331050.8 | 3° | 330048.6 | 331597.5 | 330201.8 | 332806.9 | 332024.1 | 328180.7 | 327182.5 | 329236.8 |
| 298306.9 | 4° | 297416.5 | 297122.4 | 296642.0 | 295159.3 | 296985.7 | 294364.1 | 292388.5 | 295175.8 |
| 260340.4 | 5° | 259818.5 | 259164.1 | 258228.1 | 257789.1 | 259147.6 | 257470.2 | 253407.2 | 257478.5 |
| 222999.2 | 6° | 223272.5 | 220456.2 | 220319.5 | 220075.2 | 220211.9 | 215515.2 | 215796.8 | 218828.5 |
| 182572.5 | 7° | 184502.5 | 185020.2 | 183964.1 | 185658.0 | 184365.8 | 181185.0 | 179959.1 | 183152.3 |
| 154326.4 | 8° | 153249.6 | 152595.2 | 151787.6 | 154318.1 | 152077.5 | 149990.1 | 148561.2 | 151083.5 |
| 126146.6 | 9° | 125910.5 | 124779.8 | 123959.8 | 123831.4 | 124179.3 | 120261.3 | 121056.5 | 122965.8 |
| 102580.5 | 10° | 102617.8 | 100762.3 | 101213.8 | 101333.9 | 100952.9 | 98385.0 | 98409.9 | 99068.4 |
| 62915.9 | 12.5° | 62692.2 | 61781.1 | 62008.9 | 62133.1 | 62907.6 | 62004.7 | 60729.1 | 59809.7 |
| 39668.8 | 15° | 39403.7 | 38749.3 | 40087.1 | 40985.8 | 40803.6 | 40000.1 | 39399.6 | 38567.1 |
| 26369.9 | 17.5° | 26125.6 | 26982.9 | 26987.0 | 27807.1 | 27889.9 | 27086.4 | 26622.6 | 25872.9 |
| 17150.6 | 20° | 17088.5 | 17444.7 | 18186.0 | 18765.8 | 19101.3 | 18488.4 | 17933.4 | 17419.8 |
| 10693.8 | 22.5° | 10693.8 | 11315.0 | 11778.9 | 12532.7 | 12839.1 | 12391.8 | 11998.4 | 11580.1 |
| 6676.3 | 25° | 6564.5 | 7007.7 | 7392.9 | 8047.2 | 8465.5 | 8250.2 | 7889.9 | 7595.8 |
| 4311.5 | 27.5° | 4377.7 | 4564.1 | 4754.6 | 5206.1 | 5640.9 | 5520.8 | 5375.9 | 5197.8 |
| 3040.0 | 30° | 3085.5 | 3102.1 | 3305.0 | 3557.7 | 3847.6 | 3922.1 | 3855.9 | 3764.8 |
| 2232.4 | 32.5° | 2273.8 | 2340.0 | 2435.3 | 2592.7 | 2787.3 | 2965.4 | 2932.3 | 2890.9 |
| 1706.4 | 35° | 1756.1 | 1855.5 | 1934.2 | 2054.3 | 2157.8 | 2327.6 | 2356.6 | 2344.2 |
| 1404.0 | 37.5° | 1433.0 | 1520.0 | 1598.7 | 1669.1 | 1756.1 | 1872.0 | 1963.1 | 1967.3 |
| 1159.7 | 40° | 1188.7 | 1267.3 | 1370.9 | 1424.7 | 1486.9 | 1573.8 | 1685.7 | 1693.9 |
| 981.6 | 42.5° | 1002.3 | 1076.8 | 1180.4 | 1246.6 | 1292.2 | 1375.0 | 1486.9 | 1503.4 |
| 840.8 | 45° | 861.5 | 907.0 | 1014.7 | 1093.4 | 1139.0 | 1192.8 | 1312.9 | 1329.5 |
| 724.8 | 47.5° | 749.6 | 795.2 | 861.5 | 973.3 | 1014.7 | 1064.4 | 1159.7 | 1188.7 |
| 642.0 | 50° | 658.5 | 704.1 | 762.1 | 861.5 | 923.6 | 965.0 | 1043.7 | 1085.1 |
| 559.1 | 52.5° | 584.0 | 629.5 | 691.7 | 770.3 | 840.8 | 878.0 | 952.6 | 1006.4 |
| 455.6 | 55° | 488.7 | 567.4 | 613.0 | 683.4 | 778.6 | 811.8 | 869.7 | 940.2 |
| 397.6 | 57.5° | 426.6 | 492.9 | 559.1 | 617.1 | 712.4 | 753.8 | 811.8 | 878.0 |
| 314.8 | 60° | 360.3 | 422.4 | 501.1 | 550.8 | 642.0 | 695.8 | 757.9 | 820.0 |
| 240.2 | 62.5° | 285.8 | 368.6 | 422.4 | 492.9 | 579.8 | 650.2 | 699.9 | 762.1 |
| 186.4 | 65° | 211.2 | 302.3 | 364.5 | 439.0 | 521.8 | 596.4 | 637.8 | 704.1 |
| 132.5 | 67.5° | 153.2 | 236.1 | 310.6 | 381.0 | 459.7 | 534.3 | 575.7 | 633.7 |
| 82.8 | 70° | 120.1 | 173.9 | 256.8 | 318.9 | 401.7 | 463.9 | 509.4 | 546.7 |
| 53.8 | 72.5° | 70.4 | 132.5 | 207.1 | 277.5 | 352.0 | 393.5 | 426.6 | 459.7 |
| 24.8 | 75° | 45.6 | 103.5 | 169.8 | 231.9 | 285.8 | 323.0 | 352.0 | 381.0 |
| 12.4 | 77.5° | 29.0 | 74.5 | 136.7 | 194.7 | 219.5 | 265.1 | 289.9 | 306.5 |
| 8.3 | 80° | 16.6 | 58.0 | 120.1 | 157.4 | 178.1 | 207.1 | 231.9 | 252.6 |
| 8.3 | 82.5° | 12.4 | 49.7 | 99.4 | 132.5 | 132.5 | 165.7 | 178.1 | 178.1 |
| 4.1 | 85° | 8.3 | 41.4 | 78.7 | 124.2 | 99.4 | 124.2 | 116.0 | 116.0 |
| 4.1 | 87.5° | 8.3 | 29.0 | 37.3 | 53.8 | 45.6 | 53.8 | 53.8 | 62.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
377723.2
365633.7
348677.7
320112.7
285086.7
246751.6
210039.9
174467.3
143881.1
117001.8
94587.1
59250.5
38140.5
25686.6
17241.7
11356.4
7426.0
5094.2
3702.6
2857.7
2302.8
1938.3
1681.5
1491.0
1325.3
1192.8
1089.3
1006.4
944.3
882.2
836.6
791.1
716.5
637.8
559.1
468.0
381.0
298.2
227.8
165.7
111.8
62.1
0.0

(END OF REPORT)