

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: P637187

Luminaire Tested: **IFLD-M-SA4A-760-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637187  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-760-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18786 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

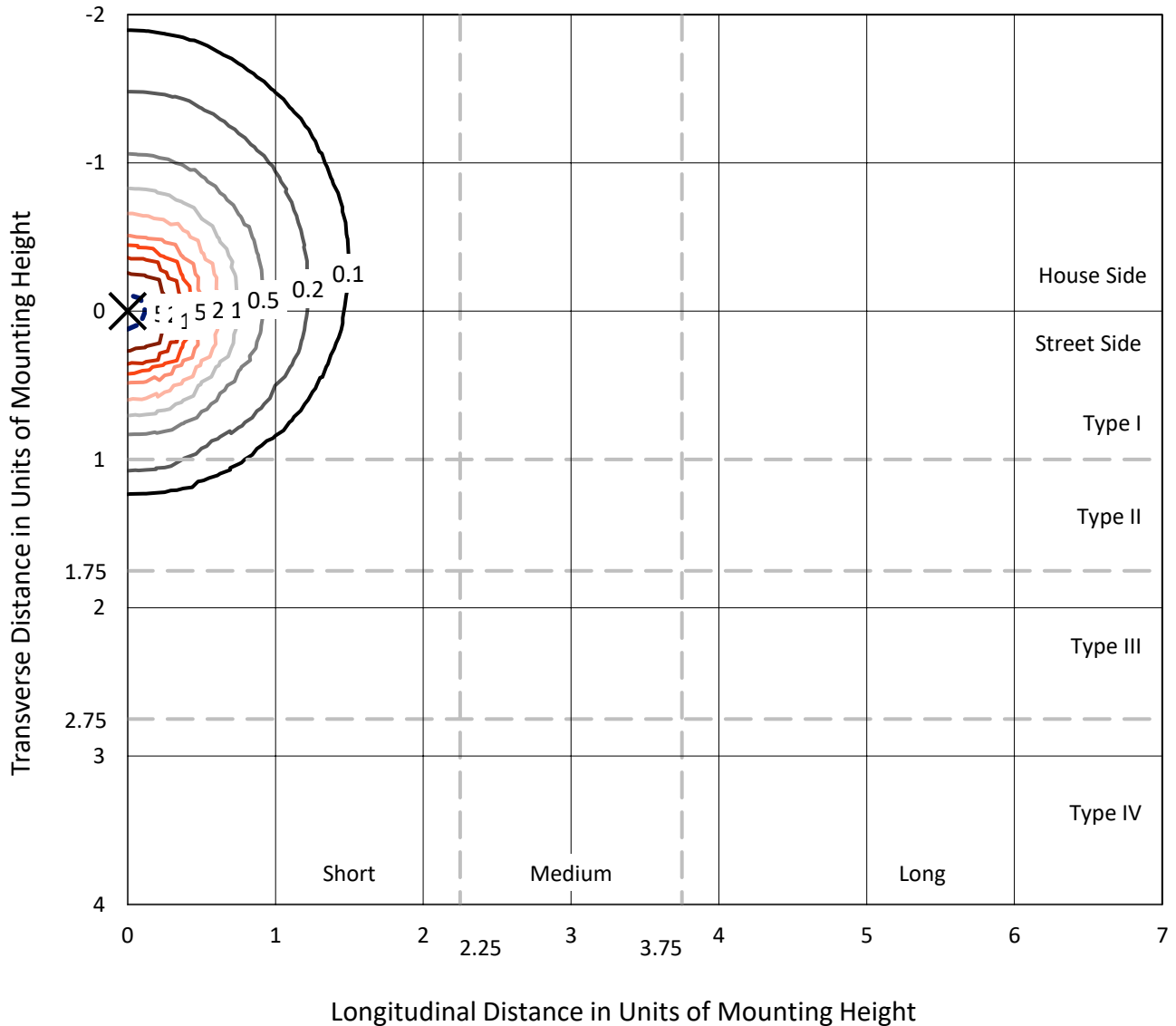
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

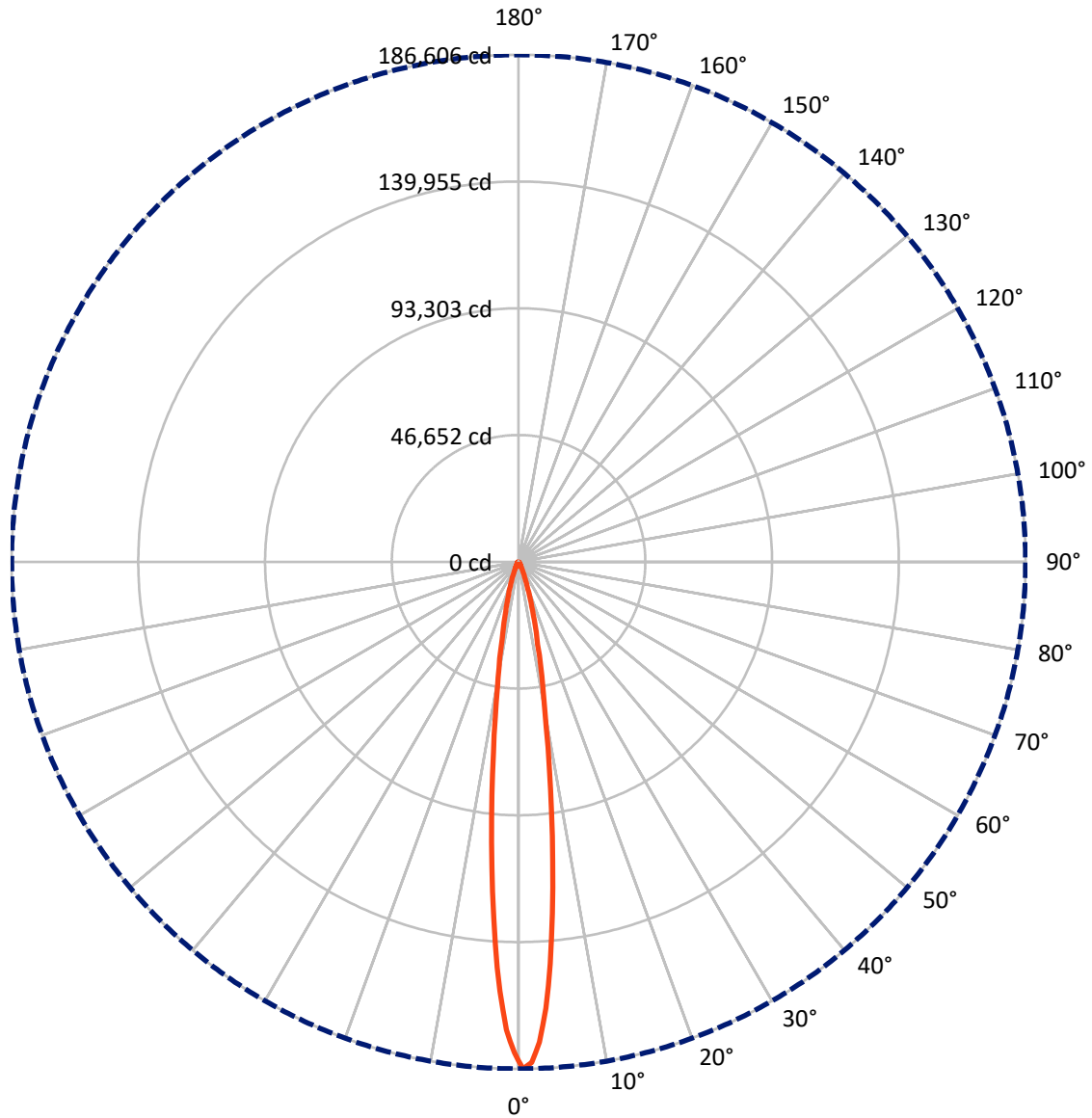
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 466.5 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9621.9   | 0.0    | 9621.9  |
|                    | % Fixture | 51.2     | 0.0    | 51.2    |
| <b>Street Side</b> | Lumens    | 9164.2   | 0.0    | 9164.2  |
|                    | % Fixture | 48.8     | 0.0    | 48.8    |
| <b>Total</b>       | Lumens    | 18786.0  | 0.0    | 18786.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 9483.7  | 50.5      |
| 10°-20°   | 6071.5  | 32.3      |
| 20°-30°   | 1825.0  | 9.7       |
| 30°-40°   | 594.2   | 3.2       |
| 40°-50°   | 345.7   | 1.8       |
| 50°-60°   | 229.6   | 1.2       |
| 60°-70°   | 138.2   | 0.7       |
| 70°-80°   | 71.0    | 0.4       |
| 80°-90°   | 27.0    | 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°    | 18786.0 | 100.0     |
| 0°-180°   | 18786.0 | 100.0     |

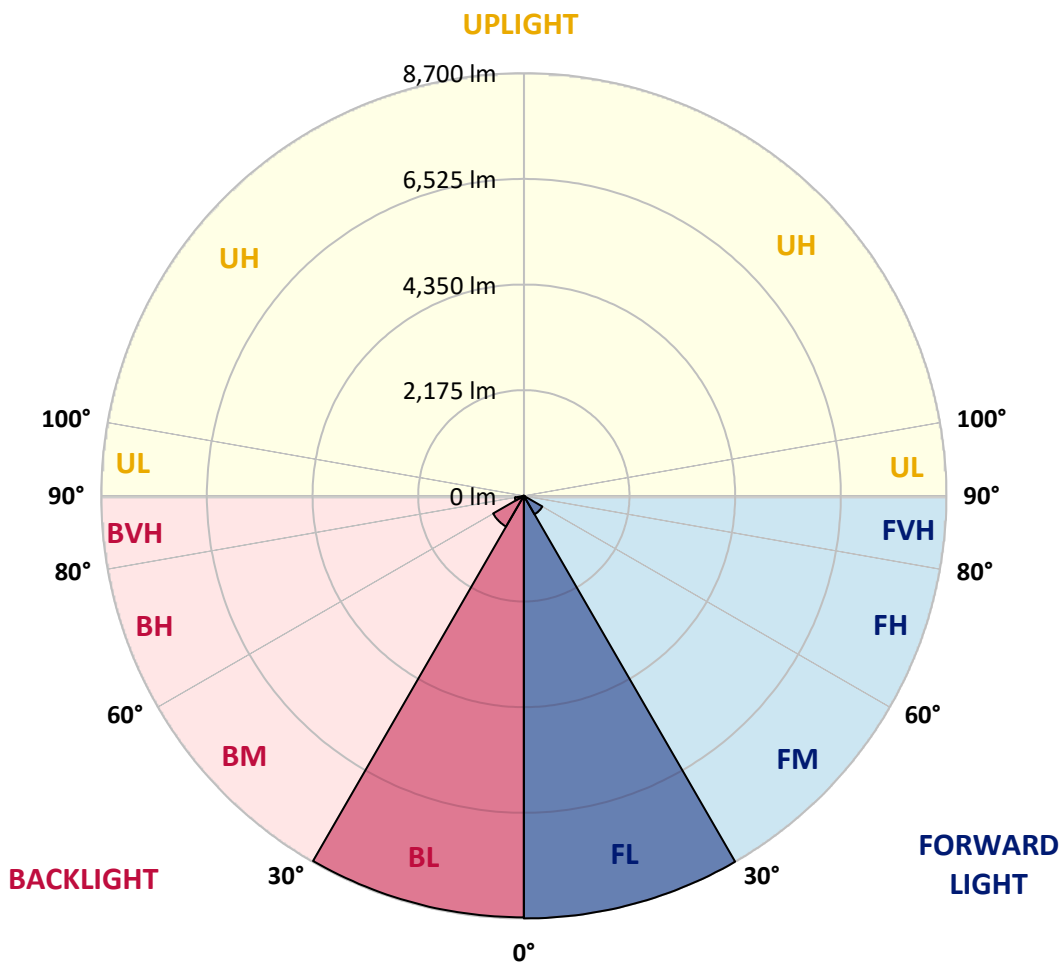


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 8700.4 | 46.3      |                         |      |        |
| FM (30°-60°)   | 439.0  | 2.3       |                         |      |        |
| FH (60°-80°)   | 20.7   | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 4.1    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 8679.8 | 46.2      | B5                      |      |        |
| BM (30°-60°)   | 730.5  | 3.9       | B1/1000                 |      |        |
| BH (60°-80°)   | 188.6  | 1.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 22.9   | 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°    | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 |
| 1°    | 184371.8 | 183809.2 | 182356.4 | 183389.7 | 184298.2 | 184034.2 | 184015.8 | 183917.6 | 183780.5 | 184856.8 |
| 2°    | 177001.8 | 176637.6 | 174489.2 | 175375.1 | 176666.2 | 175725.0 | 176314.3 | 175796.6 | 175806.9 | 177091.8 |
| 3°    | 164577.9 | 164776.4 | 161349.1 | 162959.4 | 164753.8 | 162472.4 | 163180.4 | 164510.4 | 163117.0 | 162697.5 |
| 4°    | 148430.1 | 146707.3 | 144835.1 | 146472.0 | 146936.4 | 145608.5 | 146913.9 | 148542.6 | 146607.0 | 146692.9 |
| 5°    | 129994.7 | 128722.1 | 126506.1 | 127516.9 | 126365.0 | 126784.4 | 128740.5 | 129411.6 | 128061.2 | 126360.9 |
| 6°    | 111039.7 | 110135.3 | 107364.9 | 108821.7 | 108412.5 | 108175.1 | 110644.8 | 108598.7 | 109335.3 | 108306.1 |
| 7°    | 92362.9  | 90672.8  | 89312.2  | 90707.6  | 90797.6  | 90083.5  | 93289.8  | 92917.4  | 91577.2  | 91266.2  |
| 8°    | 76524.1  | 74838.1  | 73686.1  | 74725.5  | 75404.8  | 74283.6  | 75791.6  | 76781.9  | 75734.3  | 75828.4  |
| 9°    | 61720.5  | 61423.9  | 59821.8  | 61180.4  | 61919.0  | 60718.0  | 62387.6  | 62745.6  | 61765.6  | 62242.3  |
| 10°   | 50677.8  | 50332.0  | 49053.1  | 49603.6  | 50827.1  | 49394.8  | 50996.9  | 51113.6  | 50332.0  | 50555.0  |
| 12.5° | 31317.6  | 31178.4  | 31143.7  | 31223.5  | 31207.1  | 31460.8  | 31870.0  | 31403.5  | 31342.1  | 30570.7  |
| 15°   | 20242.0  | 20448.7  | 20235.9  | 20645.1  | 20704.5  | 20943.9  | 20694.2  | 20317.8  | 19599.6  | 19243.6  |
| 17.5° | 12632.6  | 12896.6  | 13260.8  | 13860.3  | 14459.8  | 14529.3  | 14197.9  | 13755.9  | 13408.1  | 13027.5  |
| 20°   | 7267.7   | 7396.6   | 7341.4   | 8059.6   | 9610.5   | 10032.0  | 9604.4   | 9139.9   | 8720.5   | 8335.8   |
| 22.5° | 4515.7   | 4468.7   | 4554.6   | 4796.1   | 5301.4   | 6604.8   | 6254.9   | 5790.5   | 5485.6   | 5168.4   |
| 25°   | 2768.4   | 2819.5   | 2786.8   | 2919.8   | 3146.9   | 3699.3   | 3779.1   | 3578.6   | 3423.1   | 3259.4   |
| 27.5° | 1782.2   | 1782.2   | 1796.5   | 1870.1   | 2025.6   | 2007.2   | 2432.8   | 2277.3   | 2193.4   | 2113.6   |
| 30°   | 1237.9   | 1242.0   | 1242.0   | 1284.9   | 1319.7   | 1258.4   | 1368.8   | 1569.4   | 1530.5   | 1469.1   |
| 32.5° | 918.7    | 931.0    | 941.2    | 963.7    | 935.1    | 869.6    | 896.2    | 1129.4   | 1106.9   | 1084.4   |
| 35°   | 699.8    | 710.0    | 734.5    | 746.8    | 705.9    | 665.0    | 640.4    | 830.7    | 840.9    | 834.8    |
| 37.5° | 509.5    | 515.6    | 560.6    | 607.7    | 560.6    | 523.8    | 509.5    | 638.4    | 687.5    | 681.4    |
| 40°   | 390.8    | 392.9    | 401.0    | 454.2    | 454.2    | 425.6    | 429.7    | 476.7    | 562.7    | 562.7    |
| 42.5° | 335.6    | 335.6    | 343.7    | 335.6    | 337.6    | 368.3    | 378.5    | 384.7    | 476.7    | 476.7    |
| 45°   | 290.5    | 290.5    | 294.6    | 274.2    | 253.7    | 317.1    | 325.3    | 327.4    | 401.0    | 411.3    |
| 47.5° | 243.5    | 243.5    | 251.7    | 225.1    | 214.8    | 251.7    | 274.2    | 280.3    | 345.8    | 354.0    |
| 50°   | 180.1    | 182.1    | 206.7    | 184.1    | 190.3    | 194.4    | 237.3    | 241.4    | 292.6    | 311.0    |
| 52.5° | 120.7    | 120.7    | 124.8    | 143.2    | 165.7    | 159.6    | 192.3    | 206.7    | 233.3    | 257.8    |
| 55°   | 98.2     | 98.2     | 96.2     | 92.1     | 122.8    | 133.0    | 141.2    | 171.9    | 190.3    | 221.0    |
| 57.5° | 67.5     | 71.6     | 65.5     | 75.7     | 79.8     | 100.3    | 106.4    | 135.0    | 145.3    | 186.2    |
| 60°   | 8.2      | 10.2     | 14.3     | 55.2     | 53.2     | 67.5     | 79.8     | 106.4    | 118.7    | 143.2    |
| 62.5° | 2.0      | 2.0      | 4.1      | 10.2     | 36.8     | 45.0     | 63.4     | 73.7     | 85.9     | 110.5    |
| 65°   | 0.0      | 0.0      | 2.0      | 4.1      | 8.2      | 24.6     | 32.7     | 43.0     | 61.4     | 77.8     |
| 67.5° | 0.0      | 0.0      | 2.0      | 4.1      | 4.1      | 10.2     | 16.4     | 26.6     | 32.7     | 57.3     |
| 70°   | 0.0      | 0.0      | 2.0      | 4.1      | 4.1      | 8.2      | 10.2     | 12.3     | 22.5     | 30.7     |
| 72.5° | 0.0      | 0.0      | 2.0      | 4.1      | 6.1      | 8.2      | 10.2     | 10.2     | 10.2     | 20.5     |
| 75°   | 0.0      | 0.0      | 2.0      | 4.1      | 6.1      | 8.2      | 10.2     | 10.2     | 8.2      | 8.2      |
| 77.5° | 0.0      | 0.0      | 2.0      | 4.1      | 8.2      | 10.2     | 12.3     | 10.2     | 6.1      | 6.1      |
| 80°   | 0.0      | 0.0      | 2.0      | 6.1      | 10.2     | 14.3     | 16.4     | 12.3     | 6.1      | 4.1      |
| 82.5° | 0.0      | 0.0      | 4.1      | 8.2      | 12.3     | 16.4     | 22.5     | 18.4     | 8.2      | 4.1      |
| 85°   | 0.0      | 0.0      | 2.0      | 6.1      | 12.3     | 16.4     | 32.7     | 22.5     | 10.2     | 2.0      |
| 87.5° | 0.0      | 0.0      | 0.0      | 2.0      | 2.0      | 4.1      | 12.3     | 8.2      | 4.1      | 2.0      |
| 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°     |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 186606.2 | 0°    | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 | 186606.2 |
| 183614.8 | 1°    | 184897.7 | 185026.6 | 184605.1 | 185257.8 | 185028.6 | 183686.4 | 183242.4 | 182716.5 | 181959.5 |
| 176336.8 | 2°    | 175796.6 | 176453.4 | 176486.2 | 177210.5 | 177200.3 | 175635.0 | 175150.1 | 176044.2 | 174298.9 |
| 163548.7 | 3°    | 163053.5 | 163818.8 | 163129.2 | 164416.2 | 164029.5 | 162130.7 | 161637.6 | 162652.5 | 161383.9 |
| 147372.2 | 4°    | 146932.3 | 146787.1 | 146549.7 | 145817.2 | 146719.5 | 145424.4 | 144448.4 | 145825.4 | 143112.3 |
| 128615.7 | 5°    | 128357.9 | 128034.6 | 127572.2 | 127355.3 | 128026.4 | 127197.7 | 125190.5 | 127201.8 | 122362.8 |
| 110168.0 | 6°    | 110303.1 | 108911.7 | 108844.2 | 108723.5 | 108791.0 | 106470.7 | 106609.9 | 108107.6 | 104080.9 |
| 90196.1  | 7°    | 91149.6  | 91405.3  | 90883.6  | 91720.4  | 91082.0  | 89510.6  | 88905.0  | 90482.5  | 87636.4  |
| 76241.7  | 8°    | 75709.7  | 75386.4  | 74987.4  | 76237.6  | 75130.7  | 74099.4  | 73393.5  | 74639.6  | 72526.0  |
| 62320.0  | 9°    | 62203.4  | 61644.8  | 61239.7  | 61176.3  | 61348.2  | 59412.5  | 59805.4  | 60748.6  | 59476.0  |
| 50677.8  | 10°   | 50696.2  | 49779.5  | 50002.5  | 50061.9  | 49873.6  | 48605.1  | 48617.3  | 48942.7  | 47412.2  |
| 31082.3  | 12.5° | 30971.8  | 30521.6  | 30634.2  | 30695.6  | 31078.2  | 30632.1  | 30001.9  | 29547.7  | 29318.5  |
| 19597.5  | 15°   | 19466.6  | 19143.3  | 19804.2  | 20248.2  | 20158.2  | 19761.2  | 19464.5  | 19053.3  | 18721.8  |
| 13027.5  | 17.5° | 12906.8  | 13330.3  | 13332.4  | 13737.5  | 13778.4  | 13381.5  | 13152.3  | 12782.0  | 12798.3  |
| 8472.9   | 20°   | 8442.2   | 8618.2   | 8984.4   | 9270.9   | 9436.6   | 9133.8   | 8859.6   | 8605.9   | 8499.5   |
| 5283.0   | 22.5° | 5283.0   | 5589.9   | 5819.1   | 6191.5   | 6342.9   | 6121.9   | 5927.5   | 5720.9   | 5594.0   |
| 3298.3   | 25°   | 3243.1   | 3462.0   | 3652.3   | 3975.6   | 4182.2   | 4075.8   | 3897.8   | 3752.5   | 3685.0   |
| 2130.0   | 27.5° | 2162.7   | 2254.8   | 2348.9   | 2571.9   | 2786.8   | 2727.4   | 2655.8   | 2567.9   | 2537.2   |
| 1501.8   | 30°   | 1524.3   | 1532.5   | 1632.8   | 1757.6   | 1900.8   | 1937.7   | 1904.9   | 1859.9   | 1825.1   |
| 1102.8   | 32.5° | 1123.3   | 1156.0   | 1203.1   | 1280.9   | 1377.0   | 1465.0   | 1448.6   | 1428.2   | 1411.8   |
| 843.0    | 35°   | 867.5    | 916.7    | 955.5    | 1014.9   | 1066.0   | 1149.9   | 1164.2   | 1158.1   | 1145.8   |
| 693.6    | 37.5° | 707.9    | 750.9    | 789.8    | 824.6    | 867.5    | 924.8    | 969.9    | 971.9    | 959.6    |
| 572.9    | 40°   | 587.2    | 626.1    | 677.3    | 703.9    | 734.5    | 777.5    | 832.8    | 836.9    | 832.8    |
| 484.9    | 42.5° | 495.2    | 532.0    | 583.1    | 615.9    | 638.4    | 679.3    | 734.5    | 742.7    | 734.5    |
| 415.4    | 45°   | 425.6    | 448.1    | 501.3    | 540.2    | 562.7    | 589.3    | 648.6    | 656.8    | 654.8    |
| 358.1    | 47.5° | 370.3    | 392.9    | 425.6    | 480.8    | 501.3    | 525.8    | 572.9    | 587.2    | 587.2    |
| 317.1    | 50°   | 325.3    | 347.8    | 376.5    | 425.6    | 456.3    | 476.7    | 515.6    | 536.1    | 536.1    |
| 276.2    | 52.5° | 288.5    | 311.0    | 341.7    | 380.6    | 415.4    | 433.8    | 470.6    | 497.2    | 497.2    |
| 225.1    | 55°   | 241.4    | 280.3    | 302.8    | 337.6    | 384.7    | 401.0    | 429.7    | 464.5    | 464.5    |
| 196.4    | 57.5° | 210.7    | 243.5    | 276.2    | 304.9    | 351.9    | 372.4    | 401.0    | 433.8    | 437.9    |
| 155.5    | 60°   | 178.0    | 208.7    | 247.6    | 272.1    | 317.1    | 343.7    | 374.4    | 405.1    | 413.3    |
| 118.7    | 62.5° | 141.2    | 182.1    | 208.7    | 243.5    | 286.5    | 321.2    | 345.8    | 376.5    | 388.8    |
| 92.1     | 65°   | 104.4    | 149.4    | 180.1    | 216.9    | 257.8    | 294.6    | 315.1    | 347.8    | 356.0    |
| 65.5     | 67.5° | 75.7     | 116.6    | 153.5    | 188.2    | 227.1    | 263.9    | 284.4    | 313.1    | 319.2    |
| 40.9     | 70°   | 59.3     | 85.9     | 126.9    | 157.5    | 198.5    | 229.2    | 251.7    | 270.1    | 276.2    |
| 26.6     | 72.5° | 34.8     | 65.5     | 102.3    | 137.1    | 173.9    | 194.4    | 210.7    | 227.1    | 231.2    |
| 12.3     | 75°   | 22.5     | 51.2     | 83.9     | 114.6    | 141.2    | 159.6    | 173.9    | 188.2    | 190.3    |
| 6.1      | 77.5° | 14.3     | 36.8     | 67.5     | 96.2     | 108.4    | 131.0    | 143.2    | 151.4    | 147.3    |
| 4.1      | 80°   | 8.2      | 28.6     | 59.3     | 77.8     | 88.0     | 102.3    | 114.6    | 124.8    | 114.6    |
| 4.1      | 82.5° | 6.1      | 24.6     | 49.1     | 65.5     | 65.5     | 81.8     | 88.0     | 88.0     | 83.9     |
| 2.0      | 85°   | 4.1      | 20.5     | 38.9     | 61.4     | 49.1     | 61.4     | 57.3     | 57.3     | 57.3     |
| 2.0      | 87.5° | 4.1      | 14.3     | 18.4     | 26.6     | 22.5     | 26.6     | 26.6     | 30.7     | 30.7     |
| 0.0      | 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |





180°  
186606.2  
180633.6  
172256.9  
158144.9  
140841.1  
121902.4  
103765.8  
86191.9  
71081.4  
57802.3  
46728.8  
29271.5  
18842.5  
12689.9  
8517.9  
5610.4  
3668.7  
2516.7  
1829.2  
1411.8  
1137.6  
957.6  
830.7  
736.6  
654.8  
589.3  
538.1  
497.2  
466.5  
435.8  
413.3  
390.8  
354.0  
315.1  
276.2  
231.2  
188.2  
147.3  
112.5  
81.8  
55.2  
30.7  
0.0

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