

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: P637006

Luminaire Tested: **IFLD-S-SA3D-722-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637006  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17073.2 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

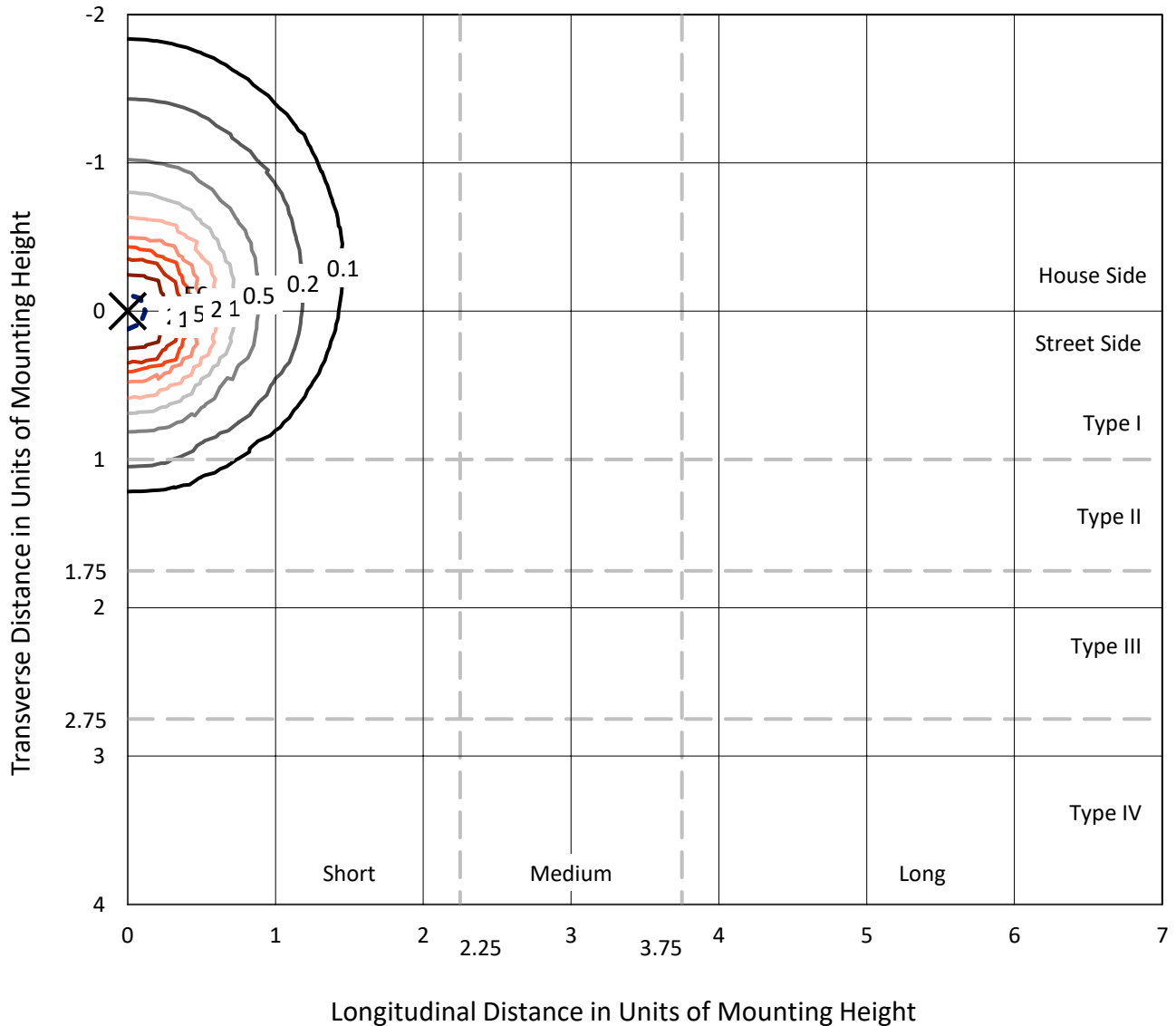
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

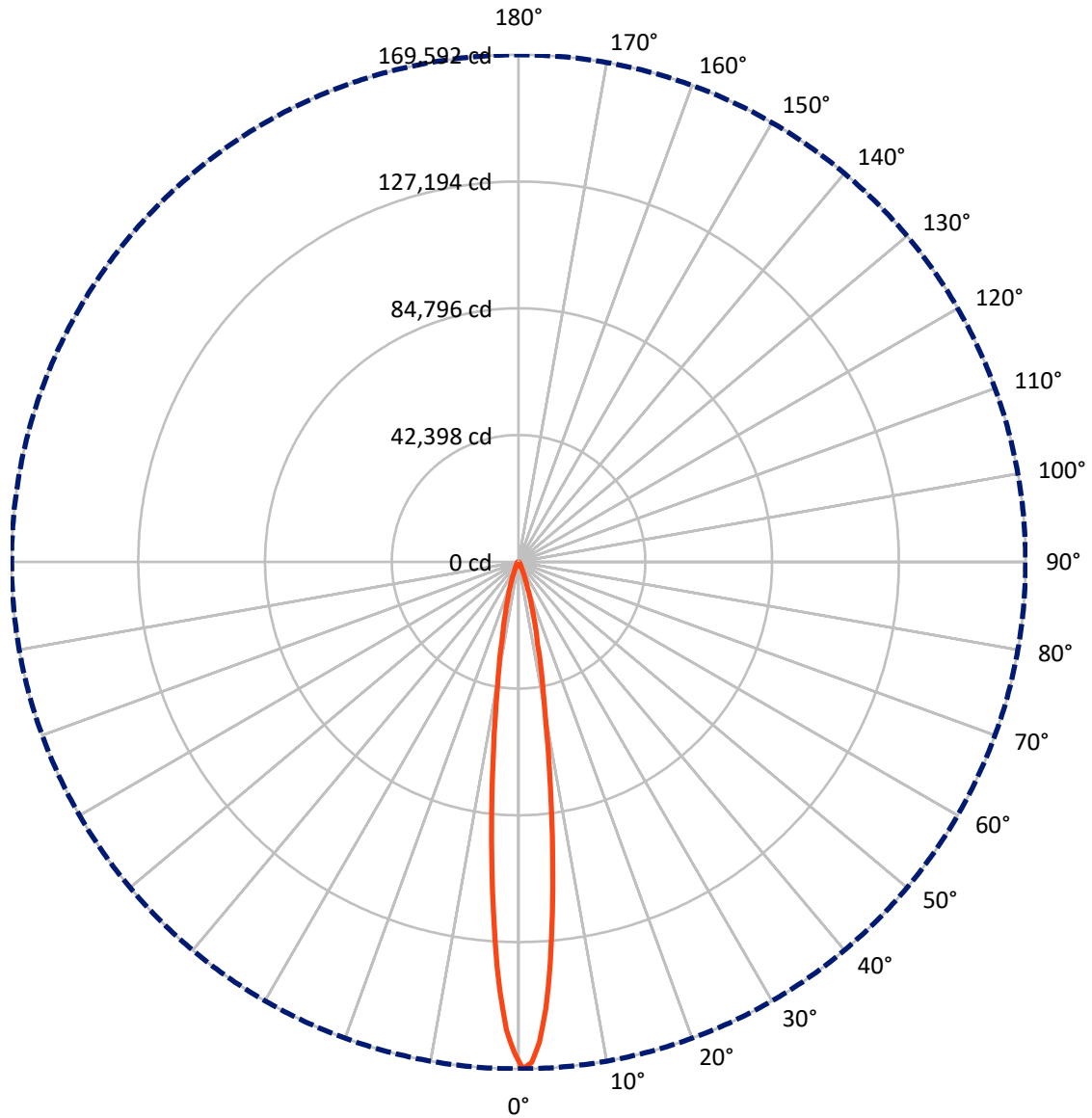
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 424 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    | 8744.6   | 0.0    | 8744.6  |
|                    | % Fixture | 51.2     | 0.0    | 51.2    |
| <b>Street Side</b> | Lumens    | 8328.6   | 0.0    | 8328.6  |
|                    | % Fixture | 48.8     | 0.0    | 48.8    |
| <b>Total</b>       | Lumens    | 17073.2  | 0.0    | 17073.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 8619.1  | 50.5      |
| 10°-20°   | 5517.9  | 32.3      |
| 20°-30°   | 1658.6  | 9.7       |
| 30°-40°   | 540.0   | 3.2       |
| 40°-50°   | 314.2   | 1.8       |
| 50°-60°   | 208.7   | 1.2       |
| 60°-70°   | 125.6   | 0.7       |
| 70°-80°   | 64.6    | 0.4       |
| 80°-90°   | 24.5    | 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°    | 17073.2 | 100.0     |
| 0°-180°   | 17073.2 | 100.0     |

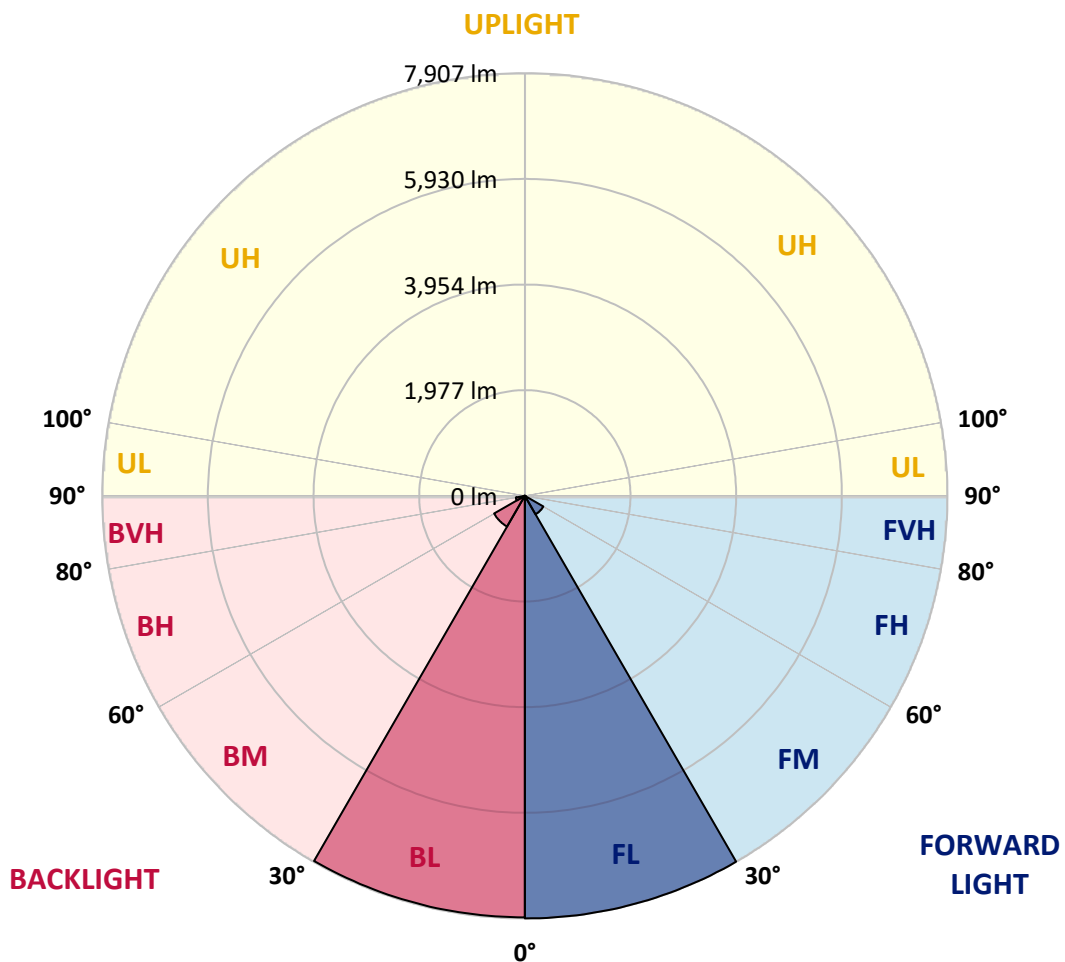


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 7907.1 | 46.3      |                         |      |        |
| FM (30°-60°)   | 399.0  | 2.3       |                         |      |        |
| FH (60°-80°)   | 18.8   | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 3.7    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 7888.4 | 46.2      | B5                      |      |        |
| BM (30°-60°)   | 663.9  | 3.9       | B1/1000                 |      |        |
| BH (60°-80°)   | 171.4  | 1.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 20.8   | 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°    | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 |
| 1°    | 167561.7 | 167050.3 | 165730.0 | 166669.1 | 167494.7 | 167254.8 | 167238.1 | 167148.9 | 167024.3 | 168002.4 |
| 2°    | 160863.6 | 160532.6 | 158580.1 | 159385.3 | 160558.6 | 159703.2 | 160238.8 | 159768.3 | 159777.6 | 160945.4 |
| 3°    | 149572.4 | 149752.8 | 146638.1 | 148101.5 | 149732.4 | 147659.0 | 148302.4 | 149511.1 | 148244.7 | 147863.5 |
| 4°    | 134896.9 | 133331.2 | 131629.7 | 133117.3 | 133539.5 | 132332.6 | 133519.0 | 134999.2 | 133240.1 | 133318.2 |
| 5°    | 118142.4 | 116985.8 | 114971.9 | 115890.5 | 114843.6 | 115224.8 | 117002.5 | 117612.5 | 116385.2 | 114839.9 |
| 6°    | 100915.6 | 100093.7 | 97575.9  | 98899.9  | 98528.0  | 98312.2  | 100556.7 | 98697.2  | 99366.6  | 98431.3  |
| 7°    | 83941.7  | 82405.7  | 81169.1  | 82437.3  | 82519.1  | 81870.2  | 84784.1  | 84445.6  | 83227.6  | 82945.0  |
| 8°    | 69547.0  | 68014.7  | 66967.8  | 67912.4  | 68529.8  | 67510.8  | 68881.2  | 69781.3  | 68829.2  | 68914.7  |
| 9°    | 56093.2  | 55823.5  | 54367.5  | 55602.2  | 56273.5  | 55182.0  | 56699.4  | 57024.8  | 56134.1  | 56567.3  |
| 10°   | 46057.2  | 45742.9  | 44580.7  | 45080.9  | 46192.9  | 44891.3  | 46347.3  | 46453.3  | 45742.9  | 45945.6  |
| 12.5° | 28462.2  | 28335.7  | 28304.1  | 28376.6  | 28361.8  | 28592.4  | 28964.3  | 28540.3  | 28484.5  | 27783.5  |
| 15°   | 18396.5  | 18584.3  | 18390.9  | 18762.8  | 18816.7  | 19034.3  | 18807.4  | 18465.3  | 17812.6  | 17489.0  |
| 17.5° | 11480.8  | 11720.7  | 12051.7  | 12596.6  | 13141.4  | 13204.6  | 12903.4  | 12501.7  | 12185.6  | 11839.7  |
| 20°   | 6605.1   | 6722.3   | 6672.0   | 7324.7   | 8734.3   | 9117.3   | 8728.7   | 8306.6   | 7925.4   | 7575.8   |
| 22.5° | 4104.0   | 4061.2   | 4139.3   | 4358.8   | 4818.1   | 6002.6   | 5684.6   | 5262.5   | 4985.4   | 4697.2   |
| 25°   | 2516.0   | 2562.5   | 2532.7   | 2653.6   | 2860.0   | 3362.1   | 3434.6   | 3252.3   | 3111.0   | 2962.3   |
| 27.5° | 1619.7   | 1619.7   | 1632.7   | 1699.6   | 1840.9   | 1824.2   | 2211.0   | 2069.7   | 1993.4   | 1920.9   |
| 30°   | 1125.0   | 1128.7   | 1128.7   | 1167.8   | 1199.4   | 1143.6   | 1244.0   | 1426.3   | 1390.9   | 1335.2   |
| 32.5° | 834.9    | 846.1    | 855.4    | 875.8    | 849.8    | 790.3    | 814.5    | 1026.5   | 1006.0   | 985.6    |
| 35°   | 636.0    | 645.3    | 667.6    | 678.7    | 641.5    | 604.4    | 582.0    | 755.0    | 764.3    | 758.7    |
| 37.5° | 463.0    | 468.6    | 509.5    | 552.3    | 509.5    | 476.0    | 463.0    | 580.2    | 624.8    | 619.2    |
| 40°   | 355.2    | 357.0    | 364.5    | 412.8    | 412.8    | 386.8    | 390.5    | 433.3    | 511.4    | 511.4    |
| 42.5° | 305.0    | 305.0    | 312.4    | 305.0    | 306.8    | 334.7    | 344.0    | 349.6    | 433.3    | 433.3    |
| 45°   | 264.1    | 264.1    | 267.8    | 249.2    | 230.6    | 288.2    | 295.7    | 297.5    | 364.5    | 373.8    |
| 47.5° | 221.3    | 221.3    | 228.7    | 204.5    | 195.3    | 228.7    | 249.2    | 254.8    | 314.3    | 321.7    |
| 50°   | 163.6    | 165.5    | 187.8    | 167.4    | 172.9    | 176.7    | 215.7    | 219.4    | 265.9    | 282.7    |
| 52.5° | 109.7    | 109.7    | 113.4    | 130.2    | 150.6    | 145.0    | 174.8    | 187.8    | 212.0    | 234.3    |
| 55°   | 89.3     | 89.3     | 87.4     | 83.7     | 111.6    | 120.9    | 128.3    | 156.2    | 172.9    | 200.8    |
| 57.5° | 61.4     | 65.1     | 59.5     | 68.8     | 72.5     | 91.1     | 96.7     | 122.7    | 132.0    | 169.2    |
| 60°   | 7.4      | 9.3      | 13.0     | 50.2     | 48.3     | 61.4     | 72.5     | 96.7     | 107.9    | 130.2    |
| 62.5° | 1.9      | 1.9      | 3.7      | 9.3      | 33.5     | 40.9     | 57.6     | 66.9     | 78.1     | 100.4    |
| 65°   | 0.0      | 0.0      | 1.9      | 3.7      | 7.4      | 22.3     | 29.8     | 39.1     | 55.8     | 70.7     |
| 67.5° | 0.0      | 0.0      | 1.9      | 3.7      | 3.7      | 9.3      | 14.9     | 24.2     | 29.8     | 52.1     |
| 70°   | 0.0      | 0.0      | 1.9      | 3.7      | 3.7      | 7.4      | 9.3      | 11.2     | 20.5     | 27.9     |
| 72.5° | 0.0      | 0.0      | 1.9      | 3.7      | 5.6      | 7.4      | 9.3      | 9.3      | 9.3      | 18.6     |
| 75°   | 0.0      | 0.0      | 1.9      | 3.7      | 5.6      | 7.4      | 9.3      | 9.3      | 7.4      | 7.4      |
| 77.5° | 0.0      | 0.0      | 1.9      | 3.7      | 7.4      | 9.3      | 11.2     | 9.3      | 5.6      | 5.6      |
| 80°   | 0.0      | 0.0      | 1.9      | 5.6      | 9.3      | 13.0     | 14.9     | 11.2     | 5.6      | 3.7      |
| 82.5° | 0.0      | 0.0      | 3.7      | 7.4      | 11.2     | 14.9     | 20.5     | 16.7     | 7.4      | 3.7      |
| 85°   | 0.0      | 0.0      | 1.9      | 5.6      | 11.2     | 14.9     | 29.8     | 20.5     | 9.3      | 1.9      |
| 87.5° | 0.0      | 0.0      | 0.0      | 1.9      | 1.9      | 3.7      | 11.2     | 7.4      | 3.7      | 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°     |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 169592.3 | 0°    | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 | 169592.3 |
| 166873.6 | 1°    | 168039.6 | 168156.7 | 167773.7 | 168366.9 | 168158.6 | 166938.7 | 166535.2 | 166057.3 |
| 160259.2 | 2°    | 159768.3 | 160365.2 | 160395.0 | 161053.3 | 161044.0 | 159621.4 | 159180.7 | 159993.3 |
| 148637.1 | 3°    | 148187.1 | 148882.6 | 148255.9 | 149425.5 | 149074.1 | 147348.4 | 146900.3 | 147822.6 |
| 133935.5 | 4°    | 133535.7 | 133403.7 | 133188.0 | 132522.3 | 133342.3 | 132165.2 | 131278.2 | 132529.7 |
| 116889.1 | 5°    | 116654.8 | 116361.0 | 115940.7 | 115743.6 | 116353.5 | 115600.4 | 113776.2 | 115604.1 |
| 100123.4 | 6°    | 100246.2 | 98981.7  | 98920.3  | 98810.6  | 98872.0  | 96763.2  | 96889.7  | 98250.9  |
| 81972.4  | 7°    | 82839.0  | 83071.4  | 82597.2  | 83357.8  | 82777.6  | 81349.5  | 80799.1  | 82232.8  |
| 69290.3  | 8°    | 68806.9  | 68513.0  | 68150.4  | 69286.6  | 68280.6  | 67343.4  | 66701.9  | 67834.3  |
| 56638.0  | 9°    | 56532.0  | 56024.3  | 55656.2  | 55598.5  | 55754.7  | 53995.6  | 54352.6  | 55209.9  |
| 46057.2  | 10°   | 46073.9  | 45240.9  | 45443.5  | 45497.5  | 45326.4  | 44173.5  | 44184.6  | 44480.3  |
| 28248.3  | 12.5° | 28147.9  | 27738.8  | 27841.1  | 27896.9  | 28244.6  | 27839.2  | 27266.5  | 26853.7  |
| 17810.7  | 15°   | 17691.7  | 17397.9  | 17998.5  | 18402.0  | 18320.2  | 17959.5  | 17689.8  | 17316.1  |
| 11839.7  | 17.5° | 11730.0  | 12114.9  | 12116.8  | 12485.0  | 12522.2  | 12161.4  | 11953.2  | 11616.6  |
| 7700.4   | 20°   | 7672.5   | 7832.4   | 8165.3   | 8425.6   | 8576.2   | 8301.0   | 8051.8   | 7821.2   |
| 4801.3   | 22.5° | 4801.3   | 5080.3   | 5288.5   | 5627.0   | 5764.6   | 5563.8   | 5387.1   | 5199.3   |
| 2997.6   | 25°   | 2947.4   | 3146.3   | 3319.3   | 3613.1   | 3800.9   | 3704.2   | 3542.4   | 3410.4   |
| 1935.8   | 27.5° | 1965.5   | 2049.2   | 2134.8   | 2337.4   | 2532.7   | 2478.8   | 2413.7   | 2333.7   |
| 1364.9   | 30°   | 1385.4   | 1392.8   | 1483.9   | 1597.3   | 1727.5   | 1761.0   | 1731.2   | 1690.3   |
| 1002.3   | 32.5° | 1020.9   | 1050.6   | 1093.4   | 1164.1   | 1251.5   | 1331.4   | 1316.6   | 1298.0   |
| 766.1    | 35°   | 788.4    | 833.1    | 868.4    | 922.3    | 968.8    | 1045.1   | 1058.1   | 1052.5   |
| 630.4    | 37.5° | 643.4    | 682.5    | 717.8    | 749.4    | 788.4    | 840.5    | 881.4    | 883.3    |
| 520.7    | 40°   | 533.7    | 569.0    | 615.5    | 639.7    | 667.6    | 706.6    | 756.8    | 760.6    |
| 440.7    | 42.5° | 450.0    | 483.5    | 530.0    | 559.7    | 580.2    | 617.4    | 667.6    | 675.0    |
| 377.5    | 45°   | 386.8    | 407.2    | 455.6    | 490.9    | 511.4    | 535.5    | 589.5    | 596.9    |
| 325.4    | 47.5° | 336.6    | 357.0    | 386.8    | 437.0    | 455.6    | 477.9    | 520.7    | 533.7    |
| 288.2    | 50°   | 295.7    | 316.1    | 342.2    | 386.8    | 414.7    | 433.3    | 468.6    | 487.2    |
| 251.0    | 52.5° | 262.2    | 282.7    | 310.5    | 345.9    | 377.5    | 394.2    | 427.7    | 451.9    |
| 204.5    | 55°   | 219.4    | 254.8    | 275.2    | 306.8    | 349.6    | 364.5    | 390.5    | 422.1    |
| 178.5    | 57.5° | 191.5    | 221.3    | 251.0    | 277.1    | 319.8    | 338.4    | 364.5    | 394.2    |
| 141.3    | 60°   | 161.8    | 189.7    | 225.0    | 247.3    | 288.2    | 312.4    | 340.3    | 368.2    |
| 107.9    | 62.5° | 128.3    | 165.5    | 189.7    | 221.3    | 260.3    | 291.9    | 314.3    | 342.2    |
| 83.7     | 65°   | 94.8     | 135.7    | 163.6    | 197.1    | 234.3    | 267.8    | 286.4    | 316.1    |
| 59.5     | 67.5° | 68.8     | 106.0    | 139.5    | 171.1    | 206.4    | 239.9    | 258.5    | 284.5    |
| 37.2     | 70°   | 53.9     | 78.1     | 115.3    | 143.2    | 180.4    | 208.3    | 228.7    | 245.5    |
| 24.2     | 72.5° | 31.6     | 59.5     | 93.0     | 124.6    | 158.1    | 176.7    | 191.5    | 206.4    |
| 11.2     | 75°   | 20.5     | 46.5     | 76.2     | 104.1    | 128.3    | 145.0    | 158.1    | 171.1    |
| 5.6      | 77.5° | 13.0     | 33.5     | 61.4     | 87.4     | 98.6     | 119.0    | 130.2    | 137.6    |
| 3.7      | 80°   | 7.4      | 26.0     | 53.9     | 70.7     | 80.0     | 93.0     | 104.1    | 113.4    |
| 3.7      | 82.5° | 5.6      | 22.3     | 44.6     | 59.5     | 59.5     | 74.4     | 80.0     | 80.0     |
| 1.9      | 85°   | 3.7      | 18.6     | 35.3     | 55.8     | 44.6     | 55.8     | 52.1     | 52.1     |
| 1.9      | 87.5° | 3.7      | 13.0     | 16.7     | 24.2     | 20.5     | 24.2     | 24.2     | 27.9     |
| 0.0      | 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |





180°  
169592.3  
164164.3  
156551.3  
143726.0  
127999.9  
110787.9  
94304.9  
78333.3  
64600.6  
52532.1  
42468.3  
26602.6  
17124.5  
11532.9  
7741.3  
5098.9  
3334.2  
2287.2  
1662.4  
1283.1  
1033.9  
870.3  
755.0  
669.4  
595.1  
535.5  
489.1  
451.9  
424.0  
396.1  
375.6  
355.2  
321.7  
286.4  
251.0  
210.1  
171.1  
133.9  
102.3  
74.4  
50.2  
27.9  
0.0

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