

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: P637223

Luminaire Tested: **IFLD-L-SA7C-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637223  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32407.8 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

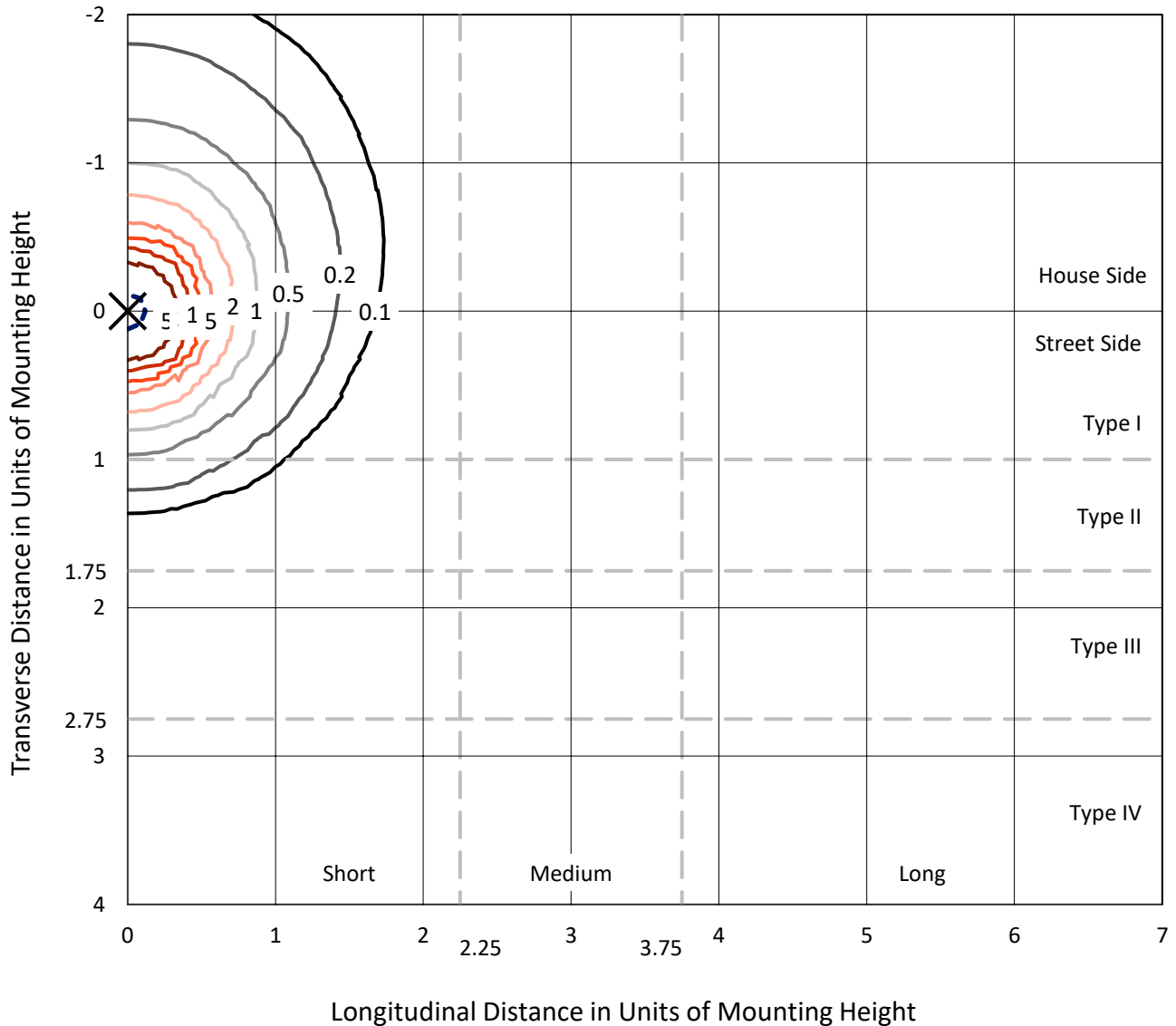
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

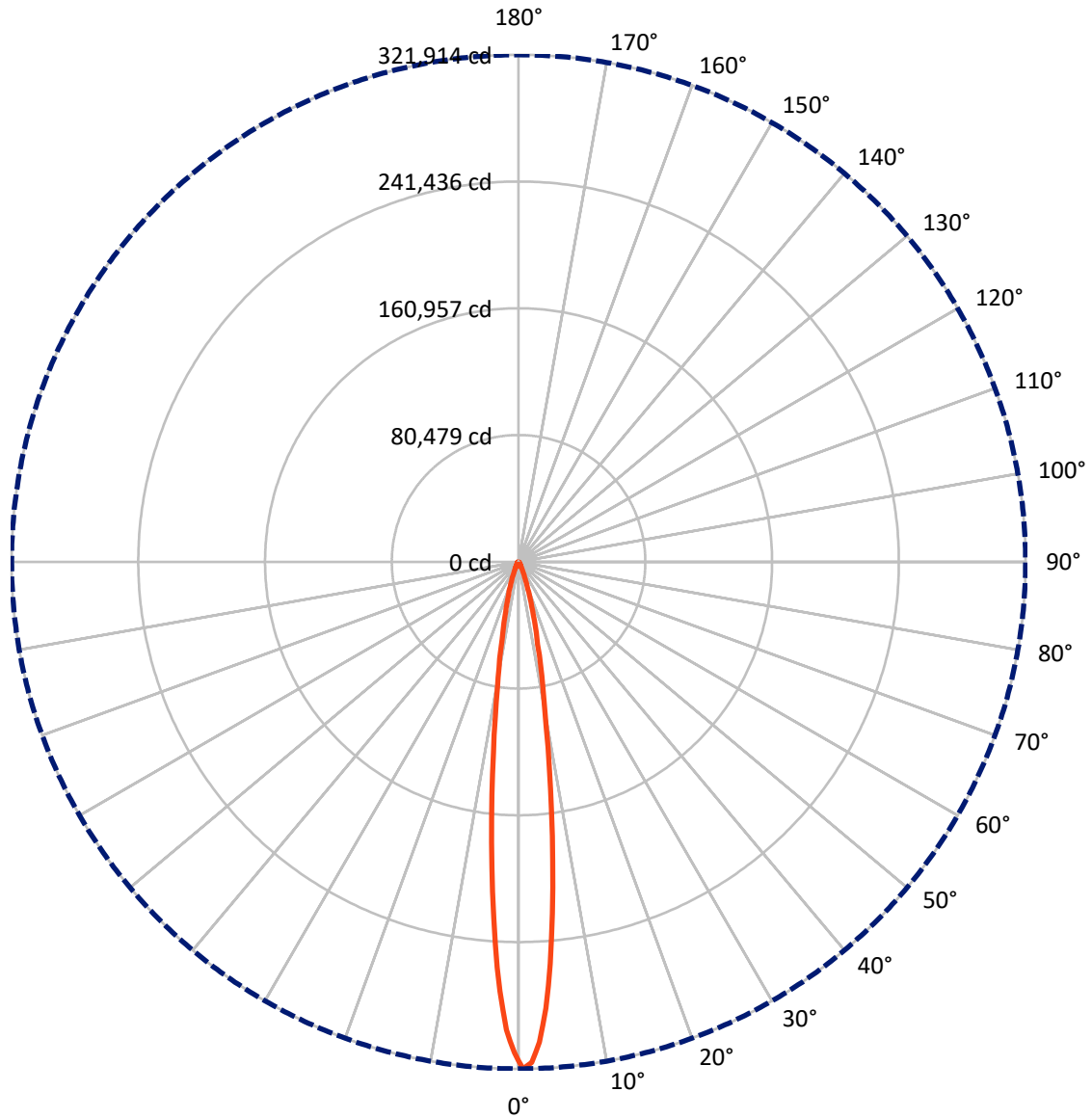
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 804.8 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16598.7  | 0.0    | 16598.7 |
|                    | % Fixture | 51.2     | 0.0    | 51.2    |
| <b>Street Side</b> | Lumens    | 15809.1  | 0.0    | 15809.1 |
|                    | % Fixture | 48.8     | 0.0    | 48.8    |
| <b>Total</b>       | Lumens    | 32407.8  | 0.0    | 32407.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 16360.4 | 50.5      |
| 10°-20°   | 10473.9 | 32.3      |
| 20°-30°   | 3148.2  | 9.7       |
| 30°-40°   | 1025.1  | 3.2       |
| 40°-50°   | 596.4   | 1.8       |
| 50°-60°   | 396.2   | 1.2       |
| 60°-70°   | 238.5   | 0.7       |
| 70°-80°   | 122.6   | 0.4       |
| 80°-90°   | 46.6    | 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°    | 32407.8 | 100.0     |
| 0°-180°   | 32407.8 | 100.0     |

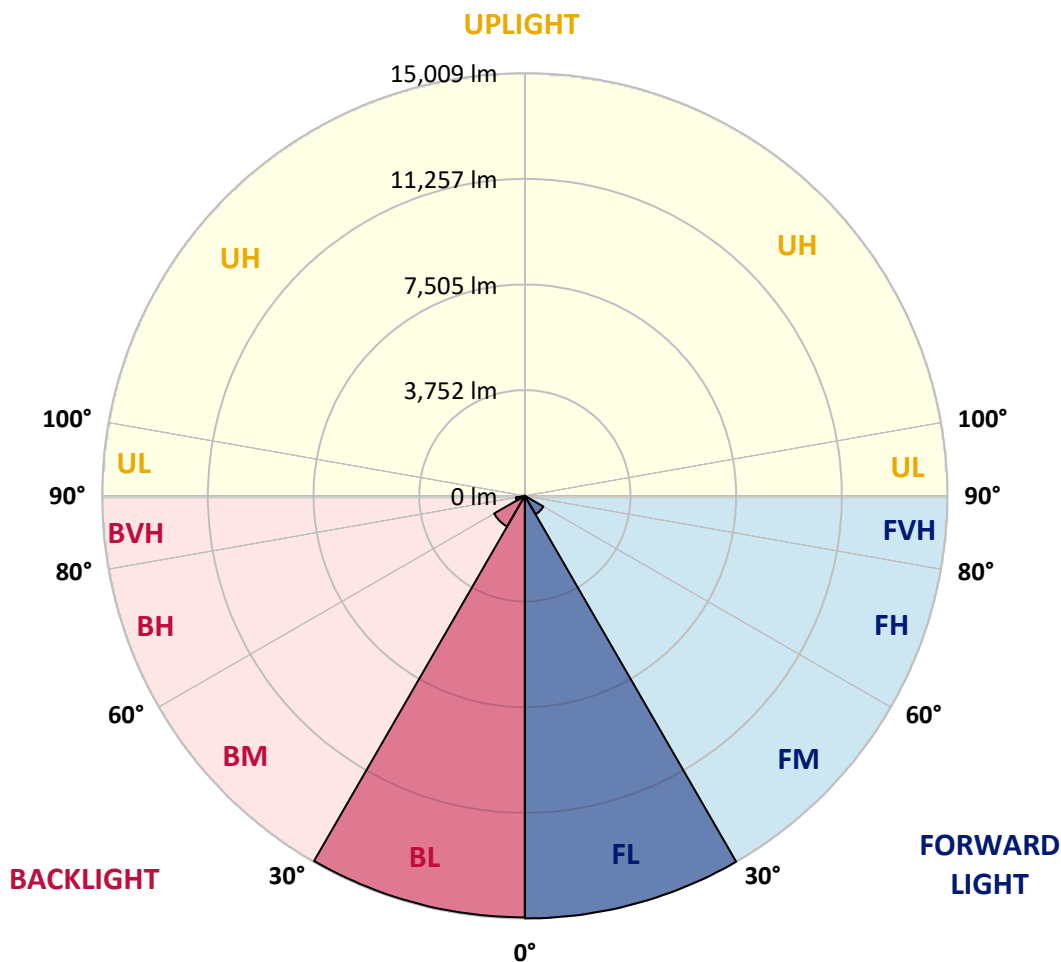


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 15009.1 | 46.3      |                         |      |        |
| FM (30°-60°)   | 757.4   | 2.3       |                         |      |        |
| FH (60°-80°)   | 35.6    | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 7.0     | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 14973.5 | 46.2      | B5                      |      |        |
| BM (30°-60°)   | 1260.3  | 3.9       | B2/2500                 |      |        |
| BH (60°-80°)   | 325.4   | 1.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 39.5    | 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°    | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 |
| 1°    | 318059.9 | 317089.3 | 314583.1 | 316365.7 | 317932.9 | 317477.5 | 317445.8 | 317276.3 | 317039.8 | 318896.5 |
| 2°    | 305345.9 | 304717.6 | 301011.4 | 302539.7 | 304767.0 | 303143.3 | 304159.9 | 303266.9 | 303284.5 | 305501.2 |
| 3°    | 283913.4 | 284255.8 | 278343.5 | 281121.4 | 284216.9 | 280281.3 | 281502.6 | 283796.9 | 281393.2 | 280669.6 |
| 4°    | 256056.8 | 253084.8 | 249855.1 | 252678.8 | 253480.1 | 251189.3 | 253441.3 | 256250.9 | 252911.8 | 253060.1 |
| 5°    | 224254.0 | 222058.5 | 218235.8 | 219979.5 | 217992.2 | 218715.8 | 222090.3 | 223248.0 | 220918.4 | 217985.2 |
| 6°    | 191554.6 | 189994.5 | 185215.2 | 187728.4 | 187022.4 | 186613.0 | 190873.4 | 187343.6 | 188614.3 | 186838.9 |
| 7°    | 159335.3 | 156419.7 | 154072.5 | 156479.7 | 156635.0 | 155403.2 | 160934.2 | 160291.8 | 157979.9 | 157443.4 |
| 8°    | 132011.7 | 129103.2 | 127116.0 | 128909.1 | 130080.9 | 128146.6 | 130748.0 | 132456.4 | 130649.2 | 130811.6 |
| 9°    | 106474.1 | 105962.3 | 103198.5 | 105542.3 | 106816.5 | 104744.6 | 107624.8 | 108242.5 | 106551.8 | 107374.2 |
| 10°   | 87424.2  | 86827.7  | 84621.6  | 85571.1  | 87681.9  | 85211.1  | 87974.8  | 88176.0  | 86827.7  | 87212.4  |
| 12.5° | 54026.0  | 53785.9  | 53725.9  | 53863.6  | 53835.4  | 54273.0  | 54979.0  | 54174.2  | 54068.3  | 52737.6  |
| 15°   | 34919.6  | 35276.1  | 34909.0  | 35614.9  | 35717.3  | 36130.3  | 35699.6  | 35050.2  | 33811.2  | 33197.1  |
| 17.5° | 21792.5  | 22247.9  | 22876.1  | 23910.4  | 24944.6  | 25064.6  | 24492.8  | 23730.3  | 23130.3  | 22473.8  |
| 20°   | 12537.6  | 12760.0  | 12664.7  | 13903.6  | 16579.1  | 17306.2  | 16568.5  | 15767.3  | 15043.7  | 14380.1  |
| 22.5° | 7790.1   | 7708.9   | 7857.2   | 8273.7   | 9145.5   | 11394.0  | 10790.4  | 9989.1   | 9463.2   | 8916.1   |
| 25°   | 4775.7   | 4864.0   | 4807.5   | 5036.9   | 5428.7   | 6381.7   | 6519.4   | 6173.5   | 5905.2   | 5622.9   |
| 27.5° | 3074.4   | 3074.4   | 3099.1   | 3226.2   | 3494.4   | 3462.7   | 4196.8   | 3928.6   | 3783.9   | 3646.2   |
| 30°   | 2135.5   | 2142.5   | 2142.5   | 2216.7   | 2276.7   | 2170.8   | 2361.4   | 2707.3   | 2640.2   | 2534.3   |
| 32.5° | 1584.8   | 1606.0   | 1623.7   | 1662.5   | 1613.1   | 1500.1   | 1546.0   | 1948.4   | 1909.6   | 1870.8   |
| 35°   | 1207.2   | 1224.8   | 1267.2   | 1288.3   | 1217.8   | 1147.2   | 1104.8   | 1433.1   | 1450.7   | 1440.1   |
| 37.5° | 878.9    | 889.5    | 967.1    | 1048.3   | 967.1    | 903.6    | 878.9    | 1101.3   | 1186.0   | 1175.4   |
| 40°   | 674.2    | 677.7    | 691.8    | 783.6    | 783.6    | 734.2    | 741.2    | 822.4    | 970.7    | 970.7    |
| 42.5° | 578.9    | 578.9    | 593.0    | 578.9    | 582.4    | 635.4    | 653.0    | 663.6    | 822.4    | 822.4    |
| 45°   | 501.2    | 501.2    | 508.3    | 473.0    | 437.7    | 547.1    | 561.2    | 564.8    | 691.8    | 709.5    |
| 47.5° | 420.0    | 420.0    | 434.2    | 388.3    | 370.6    | 434.2    | 473.0    | 483.6    | 596.5    | 610.6    |
| 50°   | 310.6    | 314.1    | 356.5    | 317.7    | 328.3    | 335.3    | 409.4    | 416.5    | 504.8    | 536.5    |
| 52.5° | 208.3    | 208.3    | 215.3    | 247.1    | 285.9    | 275.3    | 331.8    | 356.5    | 402.4    | 444.7    |
| 55°   | 169.4    | 169.4    | 165.9    | 158.8    | 211.8    | 229.4    | 243.6    | 296.5    | 328.3    | 381.2    |
| 57.5° | 116.5    | 123.5    | 113.0    | 130.6    | 137.7    | 173.0    | 183.5    | 233.0    | 250.6    | 321.2    |
| 60°   | 14.1     | 17.6     | 24.7     | 95.3     | 91.8     | 116.5    | 137.7    | 183.5    | 204.7    | 247.1    |
| 62.5° | 3.5      | 3.5      | 7.1      | 17.6     | 63.5     | 77.7     | 109.4    | 127.1    | 148.2    | 190.6    |
| 65°   | 0.0      | 0.0      | 3.5      | 7.1      | 14.1     | 42.4     | 56.5     | 74.1     | 105.9    | 134.1    |
| 67.5° | 0.0      | 0.0      | 3.5      | 7.1      | 7.1      | 17.6     | 28.2     | 45.9     | 56.5     | 98.8     |
| 70°   | 0.0      | 0.0      | 3.5      | 7.1      | 7.1      | 14.1     | 17.6     | 21.2     | 38.8     | 52.9     |
| 72.5° | 0.0      | 0.0      | 3.5      | 7.1      | 10.6     | 14.1     | 17.6     | 17.6     | 17.6     | 35.3     |
| 75°   | 0.0      | 0.0      | 3.5      | 7.1      | 10.6     | 14.1     | 17.6     | 17.6     | 14.1     | 14.1     |
| 77.5° | 0.0      | 0.0      | 3.5      | 7.1      | 14.1     | 17.6     | 21.2     | 17.6     | 10.6     | 10.6     |
| 80°   | 0.0      | 0.0      | 3.5      | 10.6     | 17.6     | 24.7     | 28.2     | 21.2     | 10.6     | 7.1      |
| 82.5° | 0.0      | 0.0      | 7.1      | 14.1     | 21.2     | 28.2     | 38.8     | 31.8     | 14.1     | 7.1      |
| 85°   | 0.0      | 0.0      | 3.5      | 10.6     | 21.2     | 28.2     | 56.5     | 38.8     | 17.6     | 3.5      |
| 87.5° | 0.0      | 0.0      | 0.0      | 3.5      | 3.5      | 7.1      | 21.2     | 14.1     | 7.1      | 3.5      |
| 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°     |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 321914.4 | 0°    | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 | 321914.4 |
| 316753.9 | 1°    | 318967.1 | 319189.4 | 318462.3 | 319588.3 | 319193.0 | 316877.5 | 316111.5 | 315204.4 |
| 304198.7 | 2°    | 303266.9 | 304399.9 | 304456.4 | 305705.9 | 305688.2 | 302988.0 | 302151.5 | 303693.9 |
| 282137.9 | 3°    | 281283.7 | 282603.8 | 281414.3 | 283634.5 | 282967.4 | 279691.8 | 278841.2 | 280591.9 |
| 254231.9 | 4°    | 253473.0 | 253222.4 | 252813.0 | 251549.3 | 253105.9 | 250871.6 | 249187.9 | 251563.5 |
| 221874.9 | 5°    | 221430.2 | 220872.5 | 220074.8 | 219700.6 | 220858.4 | 219428.8 | 215966.2 | 219435.9 |
| 190050.9 | 6°    | 190283.9 | 187883.7 | 187767.2 | 187559.0 | 187675.4 | 183672.7 | 183912.8 | 186496.5 |
| 155597.3 | 7°    | 157242.2 | 157683.4 | 156783.3 | 158227.0 | 157125.7 | 154414.8 | 153370.1 | 156091.5 |
| 131524.6 | 8°    | 130606.9 | 130049.2 | 129360.9 | 131517.5 | 129607.9 | 127829.0 | 126611.2 | 128760.8 |
| 107508.3 | 9°    | 107307.1 | 106343.5 | 105644.6 | 105535.2 | 105831.7 | 102492.6 | 103170.3 | 104797.5 |
| 87424.2  | 10°   | 87456.0  | 85874.7  | 86259.4  | 86361.8  | 86037.0  | 83848.6  | 83869.8  | 84431.0  |
| 53620.0  | 12.5° | 53429.4  | 52652.9  | 52847.0  | 52952.9  | 53613.0  | 52843.5  | 51756.3  | 50972.7  |
| 33807.7  | 15°   | 33581.8  | 33024.1  | 34164.2  | 34930.2  | 34774.8  | 34090.1  | 33578.3  | 32868.8  |
| 22473.8  | 17.5° | 22265.5  | 22996.2  | 22999.7  | 23698.6  | 23769.2  | 23084.4  | 22689.1  | 22050.2  |
| 14616.6  | 20°   | 14563.6  | 14867.2  | 15499.0  | 15993.2  | 16279.1  | 15756.7  | 15283.7  | 14846.0  |
| 9113.7   | 22.5° | 9113.7   | 9643.2   | 10038.5  | 10680.9  | 10942.1  | 10560.9  | 10225.6  | 9869.1   |
| 5689.9   | 25°   | 5594.6   | 5972.3   | 6300.6   | 6858.3   | 7214.8   | 7031.2   | 6724.1   | 6473.5   |
| 3674.4   | 27.5° | 3730.9   | 3889.8   | 4052.1   | 4436.9   | 4807.5   | 4705.1   | 4581.6   | 4429.8   |
| 2590.8   | 30°   | 2629.6   | 2643.8   | 2816.7   | 3032.0   | 3279.1   | 3342.6   | 3286.2   | 3208.5   |
| 1902.5   | 32.5° | 1937.8   | 1994.3   | 2075.5   | 2209.6   | 2375.5   | 2527.3   | 2499.0   | 2463.7   |
| 1454.2   | 35°   | 1496.6   | 1581.3   | 1648.4   | 1750.7   | 1839.0   | 1983.7   | 2008.4   | 1997.8   |
| 1196.6   | 37.5° | 1221.3   | 1295.4   | 1362.5   | 1422.5   | 1496.6   | 1595.4   | 1673.1   | 1676.6   |
| 988.3    | 40°   | 1013.0   | 1080.1   | 1168.3   | 1214.2   | 1267.2   | 1341.3   | 1436.6   | 1443.7   |
| 836.5    | 42.5° | 854.2    | 917.7    | 1006.0   | 1062.4   | 1101.3   | 1171.9   | 1267.2   | 1281.3   |
| 716.5    | 45°   | 734.2    | 773.0    | 864.8    | 931.8    | 970.7    | 1016.6   | 1118.9   | 1133.0   |
| 617.7    | 47.5° | 638.9    | 677.7    | 734.2    | 829.5    | 864.8    | 907.1    | 988.3    | 1013.0   |
| 547.1    | 50°   | 561.2    | 600.1    | 649.5    | 734.2    | 787.1    | 822.4    | 889.5    | 924.8    |
| 476.5    | 52.5° | 497.7    | 536.5    | 589.5    | 656.5    | 716.5    | 748.3    | 811.8    | 857.7    |
| 388.3    | 55°   | 416.5    | 483.6    | 522.4    | 582.4    | 663.6    | 691.8    | 741.2    | 801.2    |
| 338.9    | 57.5° | 363.6    | 420.0    | 476.5    | 525.9    | 607.1    | 642.4    | 691.8    | 748.3    |
| 268.3    | 60°   | 307.1    | 360.0    | 427.1    | 469.5    | 547.1    | 593.0    | 645.9    | 698.9    |
| 204.7    | 62.5° | 243.6    | 314.1    | 360.0    | 420.0    | 494.2    | 554.2    | 596.5    | 649.5    |
| 158.8    | 65°   | 180.0    | 257.7    | 310.6    | 374.2    | 444.7    | 508.3    | 543.6    | 600.1    |
| 113.0    | 67.5° | 130.6    | 201.2    | 264.7    | 324.7    | 391.8    | 455.3    | 490.6    | 540.0    |
| 70.6     | 70°   | 102.4    | 148.2    | 218.8    | 271.8    | 342.4    | 395.3    | 434.2    | 465.9    |
| 45.9     | 72.5° | 60.0     | 113.0    | 176.5    | 236.5    | 300.0    | 335.3    | 363.6    | 391.8    |
| 21.2     | 75°   | 38.8     | 88.2     | 144.7    | 197.7    | 243.6    | 275.3    | 300.0    | 324.7    |
| 10.6     | 77.5° | 24.7     | 63.5     | 116.5    | 165.9    | 187.1    | 225.9    | 247.1    | 261.2    |
| 7.1      | 80°   | 14.1     | 49.4     | 102.4    | 134.1    | 151.8    | 176.5    | 197.7    | 215.3    |
| 7.1      | 82.5° | 10.6     | 42.4     | 84.7     | 113.0    | 113.0    | 141.2    | 151.8    | 151.8    |
| 3.5      | 85°   | 7.1      | 35.3     | 67.1     | 105.9    | 84.7     | 105.9    | 98.8     | 98.8     |
| 3.5      | 87.5° | 7.1      | 24.7     | 31.8     | 45.9     | 38.8     | 45.9     | 45.9     | 52.9     |
| 0.0      | 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |





180°  
321914.4  
311611.1  
297160.4  
272815.9  
242965.0  
210293.9  
179006.4  
148689.6  
122622.6  
99714.7  
80611.8  
50496.2  
32505.2  
21891.4  
14694.2  
9678.5  
6328.8  
4341.6  
3155.6  
2435.5  
1962.5  
1651.9  
1433.1  
1270.7  
1129.5  
1016.6  
928.3  
857.7  
804.8  
751.8  
713.0  
674.2  
610.6  
543.6  
476.5  
398.9  
324.7  
254.1  
194.1  
141.2  
95.3  
52.9  
0.0

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