

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: P637058

Luminaire Tested: **IFLD-S-SA2C-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637058  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12871.3 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

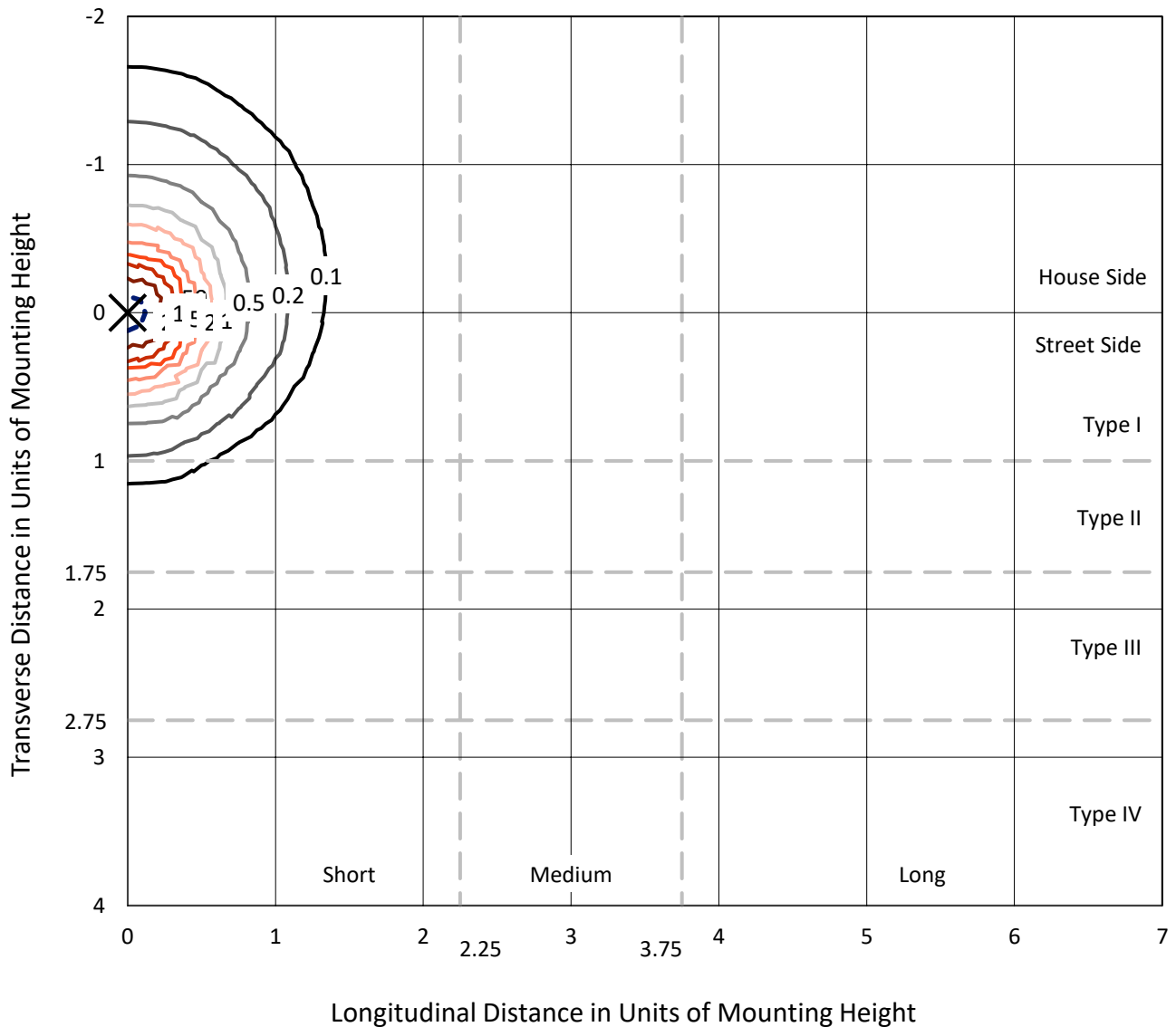
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

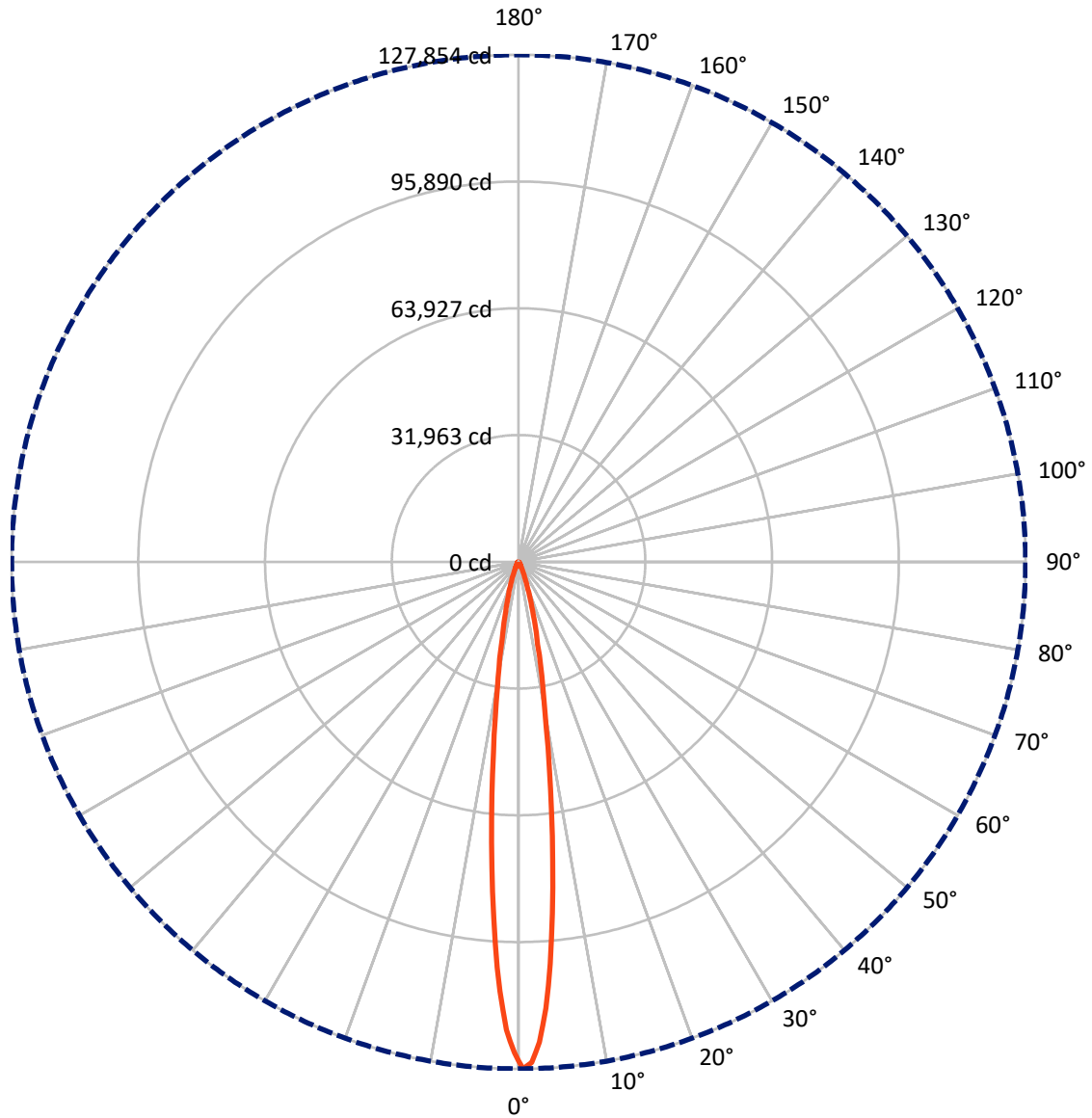
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 319.6 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    | 6592.4   | 0.0    | 6592.4  |
|                    | % Fixture | 51.2     | 0.0    | 51.2    |
| <b>Street Side</b> | Lumens    | 6278.8   | 0.0    | 6278.8  |
|                    | % Fixture | 48.8     | 0.0    | 48.8    |
| <b>Total</b>       | Lumens    | 12871.3  | 0.0    | 12871.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 6497.8  | 50.5      |
| 10°-20°   | 4159.9  | 32.3      |
| 20°-30°   | 1250.4  | 9.7       |
| 30°-40°   | 407.1   | 3.2       |
| 40°-50°   | 236.9   | 1.8       |
| 50°-60°   | 157.3   | 1.2       |
| 60°-70°   | 94.7    | 0.7       |
| 70°-80°   | 48.7    | 0.4       |
| 80°-90°   | 18.5    | 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°    | 12871.3 | 100.0     |
| 0°-180°   | 12871.3 | 100.0     |

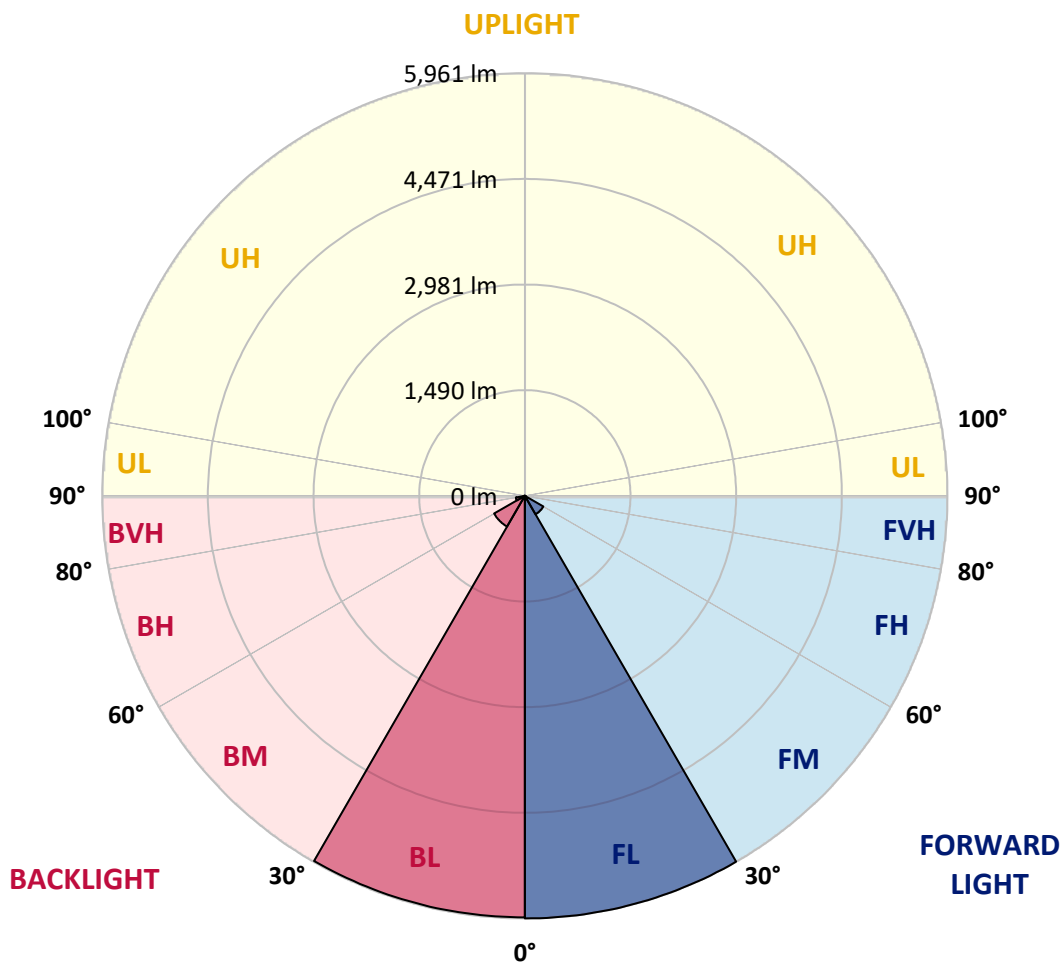


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 5961.1 | 46.3      |                         |      |        |
| FM (30°-60°)   | 300.8  | 2.3       |                         |      |        |
| FH (60°-80°)   | 14.2   | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.8    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 5947.0 | 46.2      | B5                      |      |        |
| BM (30°-60°)   | 500.5  | 3.9       | B1/1000                 |      |        |
| BH (60°-80°)   | 129.2  | 1.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 15.7   | 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°    | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 |
| 1°    | 126322.9 | 125937.4 | 124942.0 | 125650.0 | 126272.4 | 126091.6 | 126079.0 | 126011.7 | 125917.7 | 126655.1 |
| 2°    | 121273.3 | 121023.7 | 119551.8 | 120158.8 | 121043.4 | 120398.5 | 120802.2 | 120447.6 | 120454.6 | 121335.0 |
| 3°    | 112761.0 | 112897.0 | 110548.8 | 111652.1 | 112881.6 | 111318.5 | 111803.5 | 112714.7 | 111760.1 | 111472.7 |
| 4°    | 101697.3 | 100516.9 | 99234.2  | 100355.7 | 100673.9 | 99764.1  | 100658.5 | 101774.4 | 100448.2 | 100507.1 |
| 5°    | 89066.3  | 88194.3  | 86676.0  | 87368.6  | 86579.3  | 86866.7  | 88206.9  | 88666.7  | 87741.5  | 86576.5  |
| 6°    | 76079.2  | 75459.5  | 73561.4  | 74559.5  | 74279.1  | 74116.5  | 75808.6  | 74406.7  | 74911.4  | 74206.2  |
| 7°    | 63282.7  | 62124.7  | 61192.5  | 62148.6  | 62210.3  | 61721.0  | 63917.8  | 63662.6  | 62744.4  | 62531.3  |
| 8°    | 52430.7  | 51275.5  | 50486.3  | 51198.4  | 51663.8  | 50895.6  | 51928.8  | 52607.3  | 51889.6  | 51954.0  |
| 9°    | 42288.0  | 42084.7  | 40987.1  | 41917.9  | 42424.0  | 41601.1  | 42745.0  | 42990.4  | 42318.8  | 42645.5  |
| 10°   | 34722.0  | 34485.1  | 33608.9  | 33986.0  | 34824.3  | 33843.0  | 34940.7  | 35020.6  | 34485.1  | 34637.9  |
| 12.5° | 21457.3  | 21362.0  | 21338.2  | 21392.8  | 21381.6  | 21555.5  | 21835.8  | 21516.2  | 21474.1  | 20945.6  |
| 15°   | 13868.9  | 14010.5  | 13864.7  | 14145.1  | 14185.7  | 14349.7  | 14178.7  | 13920.8  | 13428.7  | 13184.8  |
| 17.5° | 8655.3   | 8836.1   | 9085.6   | 9496.4   | 9907.2   | 9954.8   | 9727.7   | 9424.9   | 9186.6   | 8925.8   |
| 20°   | 4979.5   | 5067.8   | 5030.0   | 5522.0   | 6584.7   | 6873.5   | 6580.5   | 6262.2   | 5974.9   | 5711.3   |
| 22.5° | 3094.0   | 3061.7   | 3120.6   | 3286.0   | 3632.3   | 4525.3   | 4285.6   | 3967.3   | 3758.5   | 3541.2   |
| 25°   | 1896.8   | 1931.8   | 1909.4   | 2000.5   | 2156.1   | 2534.6   | 2589.3   | 2451.9   | 2345.4   | 2233.2   |
| 27.5° | 1221.0   | 1221.0   | 1230.9   | 1281.3   | 1387.9   | 1375.3   | 1666.8   | 1560.3   | 1502.8   | 1448.2   |
| 30°   | 848.1    | 850.9    | 850.9    | 880.4    | 904.2    | 862.2    | 937.9    | 1075.2   | 1048.6   | 1006.6   |
| 32.5° | 629.4    | 637.9    | 644.9    | 660.3    | 640.7    | 595.8    | 614.0    | 773.8    | 758.4    | 743.0    |
| 35°   | 479.4    | 486.5    | 503.3    | 511.7    | 483.7    | 455.6    | 438.8    | 569.2    | 576.2    | 572.0    |
| 37.5° | 349.1    | 353.3    | 384.1    | 416.4    | 384.1    | 358.9    | 349.1    | 437.4    | 471.0    | 466.8    |
| 40°   | 267.8    | 269.2    | 274.8    | 311.2    | 311.2    | 291.6    | 294.4    | 326.6    | 385.5    | 385.5    |
| 42.5° | 229.9    | 229.9    | 235.5    | 229.9    | 231.3    | 252.3    | 259.3    | 263.6    | 326.6    | 326.6    |
| 45°   | 199.1    | 199.1    | 201.9    | 187.9    | 173.8    | 217.3    | 222.9    | 224.3    | 274.8    | 281.8    |
| 47.5° | 166.8    | 166.8    | 172.4    | 154.2    | 147.2    | 172.4    | 187.9    | 192.1    | 236.9    | 242.5    |
| 50°   | 123.4    | 124.8    | 141.6    | 126.2    | 130.4    | 133.2    | 162.6    | 165.4    | 200.5    | 213.1    |
| 52.5° | 82.7     | 82.7     | 85.5     | 98.1     | 113.6    | 109.3    | 131.8    | 141.6    | 159.8    | 176.6    |
| 55°   | 67.3     | 67.3     | 65.9     | 63.1     | 84.1     | 91.1     | 96.7     | 117.8    | 130.4    | 151.4    |
| 57.5° | 46.3     | 49.1     | 44.9     | 51.9     | 54.7     | 68.7     | 72.9     | 92.5     | 99.5     | 127.6    |
| 60°   | 5.6      | 7.0      | 9.8      | 37.9     | 36.4     | 46.3     | 54.7     | 72.9     | 81.3     | 98.1     |
| 62.5° | 1.4      | 1.4      | 2.8      | 7.0      | 25.2     | 30.8     | 43.5     | 50.5     | 58.9     | 75.7     |
| 65°   | 0.0      | 0.0      | 1.4      | 2.8      | 5.6      | 16.8     | 22.4     | 29.4     | 42.1     | 53.3     |
| 67.5° | 0.0      | 0.0      | 1.4      | 2.8      | 2.8      | 7.0      | 11.2     | 18.2     | 22.4     | 39.3     |
| 70°   | 0.0      | 0.0      | 1.4      | 2.8      | 2.8      | 5.6      | 7.0      | 8.4      | 15.4     | 21.0     |
| 72.5° | 0.0      | 0.0      | 1.4      | 2.8      | 4.2      | 5.6      | 7.0      | 7.0      | 7.0      | 14.0     |
| 75°   | 0.0      | 0.0      | 1.4      | 2.8      | 4.2      | 5.6      | 7.0      | 7.0      | 5.6      | 5.6      |
| 77.5° | 0.0      | 0.0      | 1.4      | 2.8      | 5.6      | 7.0      | 8.4      | 7.0      | 4.2      | 4.2      |
| 80°   | 0.0      | 0.0      | 1.4      | 4.2      | 7.0      | 9.8      | 11.2     | 8.4      | 4.2      | 2.8      |
| 82.5° | 0.0      | 0.0      | 2.8      | 5.6      | 8.4      | 11.2     | 15.4     | 12.6     | 5.6      | 2.8      |
| 85°   | 0.0      | 0.0      | 1.4      | 4.2      | 8.4      | 11.2     | 22.4     | 15.4     | 7.0      | 1.4      |
| 87.5° | 0.0      | 0.0      | 0.0      | 1.4      | 1.4      | 2.8      | 8.4      | 5.6      | 2.8      | 1.4      |
| 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°     |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 127853.8 | 0°    | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 | 127853.8 |
| 125804.2 | 1°    | 126683.2 | 126771.5 | 126482.7 | 126929.9 | 126772.9 | 125853.3 | 125549.0 | 125188.8 |
| 120817.7 | 2°    | 120447.6 | 120897.6 | 120920.0 | 121416.3 | 121409.3 | 120336.8 | 120004.6 | 120617.2 |
| 112055.9 | 3°    | 111716.6 | 112240.9 | 111768.5 | 112650.3 | 112385.3 | 111084.3 | 110746.5 | 111441.8 |
| 100972.5 | 4°    | 100671.1 | 100571.6 | 100409.0 | 99907.1  | 100525.3 | 99637.9  | 98969.2  | 99912.7  |
| 88121.4  | 5°    | 87944.8  | 87723.3  | 87406.4  | 87257.8  | 87717.6  | 87149.9  | 85774.6  | 87152.7  |
| 75482.0  | 6°    | 75574.5  | 74621.2  | 74574.9  | 74492.2  | 74538.5  | 72948.7  | 73044.1  | 74070.3  |
| 61798.1  | 7°    | 62451.4  | 62626.6  | 62269.1  | 62842.5  | 62405.1  | 61328.5  | 60913.5  | 61994.4  |
| 52237.2  | 8°    | 51872.7  | 51651.2  | 51377.9  | 52234.4  | 51476.0  | 50769.4  | 50285.8  | 51139.5  |
| 42698.8  | 9°    | 42618.9  | 42236.1  | 41958.6  | 41915.1  | 42032.9  | 40706.7  | 40975.8  | 41622.1  |
| 34722.0  | 10°   | 34734.6  | 34106.6  | 34259.4  | 34300.0  | 34171.1  | 33301.9  | 33310.3  | 33533.2  |
| 21296.1  | 12.5° | 21220.4  | 20912.0  | 20989.1  | 21031.2  | 21293.3  | 20987.7  | 20555.9  | 20244.7  |
| 13427.3  | 15°   | 13337.6  | 13116.1  | 13568.9  | 13873.1  | 13811.4  | 13539.5  | 13336.2  | 13054.4  |
| 8925.8   | 17.5° | 8843.1   | 9133.3   | 9134.7   | 9412.3   | 9440.3   | 9168.4   | 9011.3   | 8757.6   |
| 5805.2   | 20°   | 5784.2   | 5904.8   | 6155.7   | 6352.0   | 6465.5   | 6258.0   | 6070.2   | 5896.3   |
| 3619.7   | 22.5° | 3619.7   | 3830.0   | 3987.0   | 4242.1   | 4345.9   | 4194.5   | 4061.3   | 3919.7   |
| 2259.8   | 25°   | 2222.0   | 2372.0   | 2502.4   | 2723.9   | 2865.5   | 2792.6   | 2670.6   | 2571.1   |
| 1459.4   | 27.5° | 1481.8   | 1544.9   | 1609.4   | 1762.2   | 1909.4   | 1868.7   | 1819.7   | 1759.4   |
| 1029.0   | 30°   | 1044.4   | 1050.0   | 1118.7   | 1204.2   | 1302.4   | 1327.6   | 1305.2   | 1274.3   |
| 755.6    | 32.5° | 769.6    | 792.1    | 824.3    | 877.6    | 943.5    | 1003.8   | 992.5    | 978.5    |
| 577.6    | 35°   | 594.4    | 628.0    | 654.7    | 695.3    | 730.4    | 787.9    | 797.7    | 793.5    |
| 475.2    | 37.5° | 485.1    | 514.5    | 541.1    | 565.0    | 594.4    | 633.7    | 664.5    | 665.9    |
| 392.5    | 40°   | 402.3    | 429.0    | 464.0    | 482.3    | 503.3    | 532.7    | 570.6    | 573.4    |
| 332.2    | 42.5° | 339.3    | 364.5    | 399.5    | 422.0    | 437.4    | 465.4    | 503.3    | 508.9    |
| 284.6    | 45°   | 291.6    | 307.0    | 343.5    | 370.1    | 385.5    | 403.7    | 444.4    | 450.0    |
| 245.3    | 47.5° | 253.7    | 269.2    | 291.6    | 329.4    | 343.5    | 360.3    | 392.5    | 402.3    |
| 217.3    | 50°   | 222.9    | 238.3    | 257.9    | 291.6    | 312.6    | 326.6    | 353.3    | 367.3    |
| 189.3    | 52.5° | 197.7    | 213.1    | 234.1    | 260.8    | 284.6    | 297.2    | 322.4    | 340.7    |
| 154.2    | 55°   | 165.4    | 192.1    | 207.5    | 231.3    | 263.6    | 274.8    | 294.4    | 318.2    |
| 134.6    | 57.5° | 144.4    | 166.8    | 189.3    | 208.9    | 241.1    | 255.1    | 274.8    | 297.2    |
| 106.5    | 60°   | 122.0    | 143.0    | 169.6    | 186.5    | 217.3    | 235.5    | 256.5    | 277.6    |
| 81.3     | 62.5° | 96.7     | 124.8    | 143.0    | 166.8    | 196.3    | 220.1    | 236.9    | 257.9    |
| 63.1     | 65°   | 71.5     | 102.3    | 123.4    | 148.6    | 176.6    | 201.9    | 215.9    | 238.3    |
| 44.9     | 67.5° | 51.9     | 79.9     | 105.1    | 129.0    | 155.6    | 180.8    | 194.9    | 214.5    |
| 28.0     | 70°   | 40.7     | 58.9     | 86.9     | 107.9    | 136.0    | 157.0    | 172.4    | 185.0    |
| 18.2     | 72.5° | 23.8     | 44.9     | 70.1     | 93.9     | 119.2    | 133.2    | 144.4    | 155.6    |
| 8.4      | 75°   | 15.4     | 35.0     | 57.5     | 78.5     | 96.7     | 109.3    | 119.2    | 129.0    |
| 4.2      | 77.5° | 9.8      | 25.2     | 46.3     | 65.9     | 74.3     | 89.7     | 98.1     | 103.7    |
| 2.8      | 80°   | 5.6      | 19.6     | 40.7     | 53.3     | 60.3     | 70.1     | 78.5     | 85.5     |
| 2.8      | 82.5° | 4.2      | 16.8     | 33.6     | 44.9     | 44.9     | 56.1     | 60.3     | 60.3     |
| 1.4      | 85°   | 2.8      | 14.0     | 26.6     | 42.1     | 33.6     | 42.1     | 39.3     | 39.3     |
| 1.4      | 87.5° | 2.8      | 9.8      | 12.6     | 18.2     | 15.4     | 18.2     | 18.2     | 21.0     |
| 0.0      | 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |





180°  
127853.8  
123761.6  
118022.3  
108353.5  
96497.7  
83521.8  
71095.4  
59054.6  
48701.7  
39603.4  
32016.4  
20055.4  
12910.0  
8694.5  
5836.1  
3844.0  
2513.6  
1724.3  
1253.3  
967.3  
779.5  
656.1  
569.2  
504.7  
448.6  
403.7  
368.7  
340.7  
319.6  
298.6  
283.2  
267.8  
242.5  
215.9  
189.3  
158.4  
129.0  
100.9  
77.1  
56.1  
37.9  
21.0  
0.0

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