

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: P637069

Luminaire Tested: **IFLD-S-SA6D-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637069  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41404.5 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

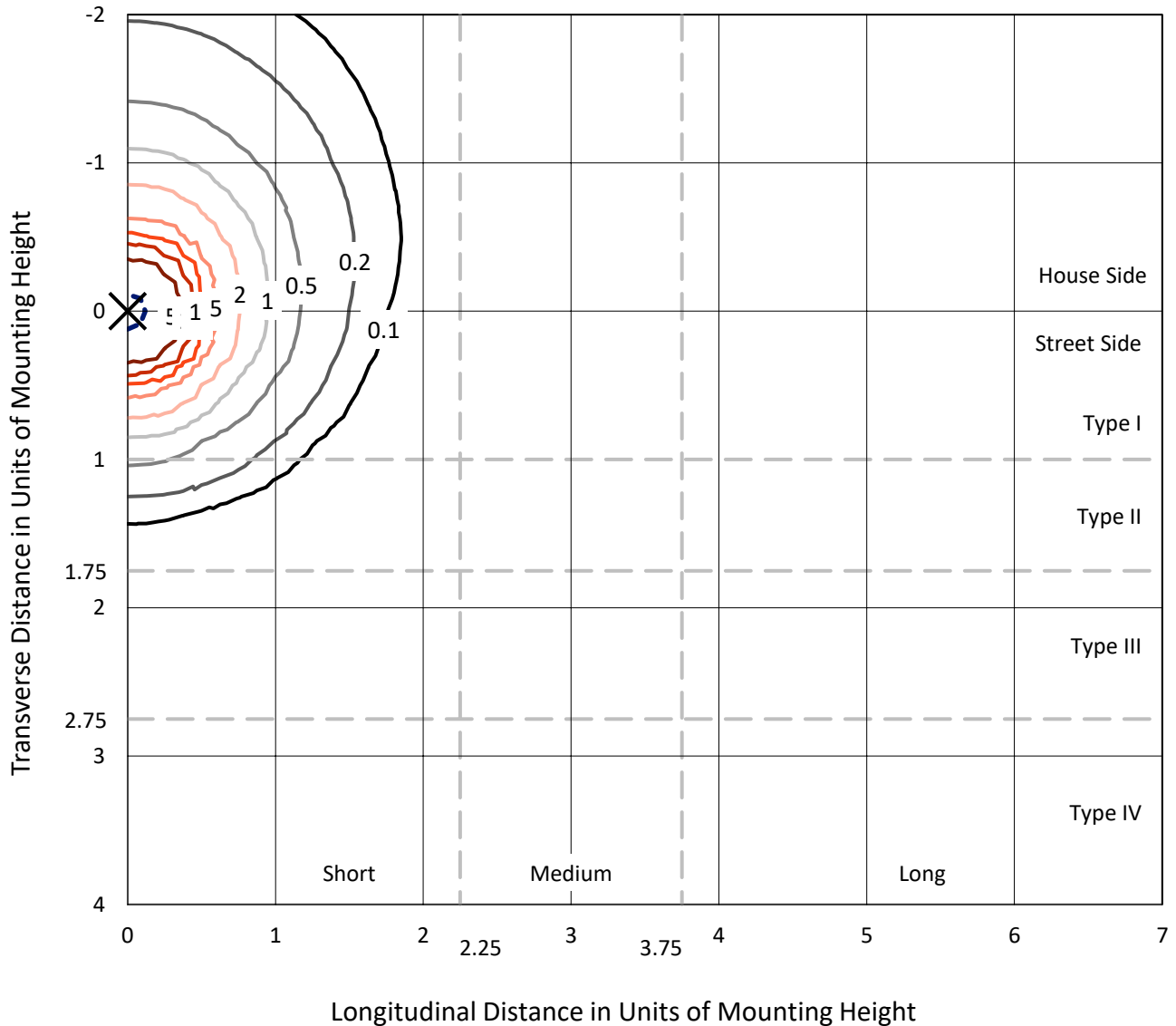
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

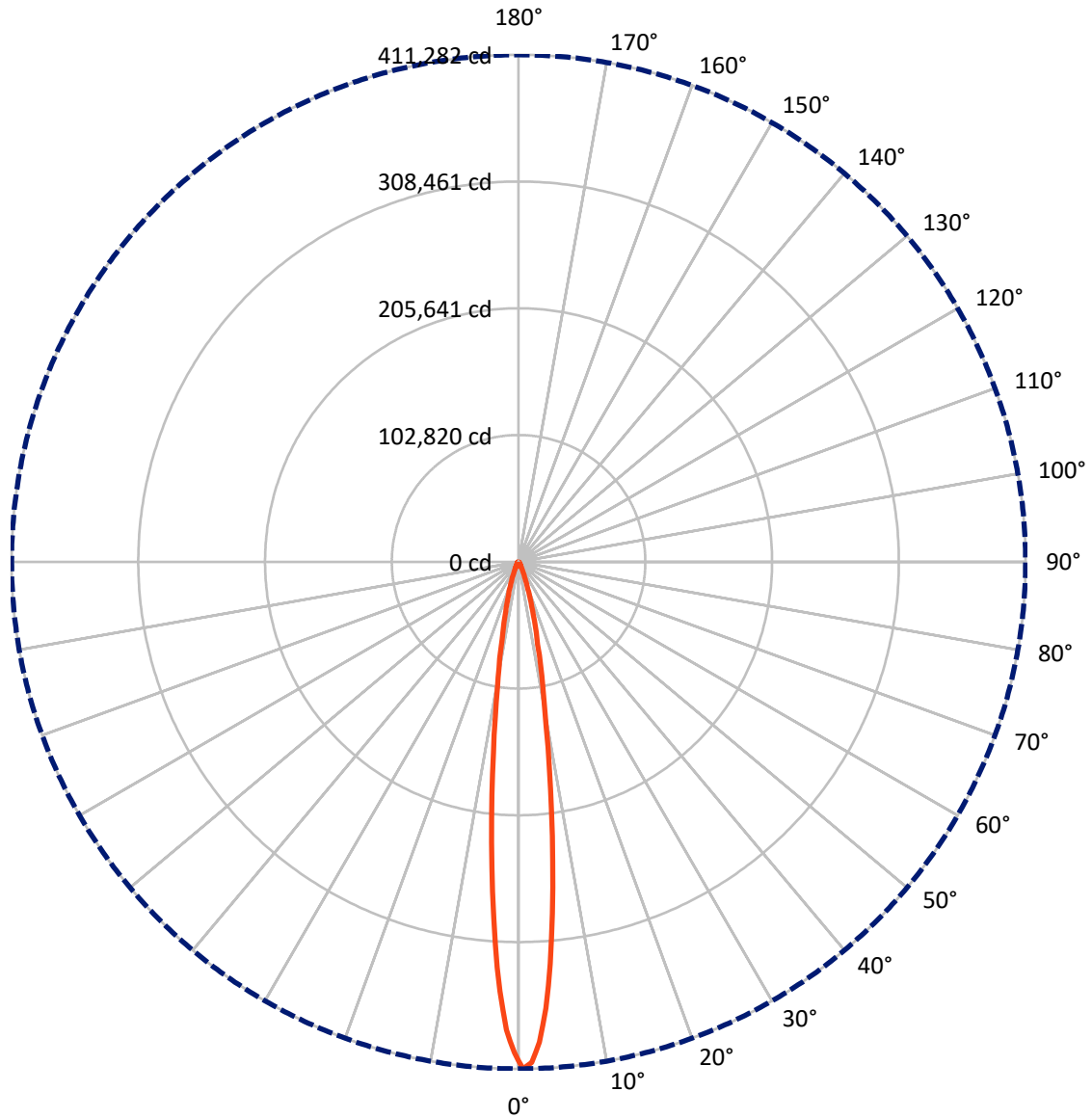
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1028.2 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    | 21206.7  | 0.0    | 21206.7 |
|                    | % Fixture | 51.2     | 0.0    | 51.2    |
| <b>Street Side</b> | Lumens    | 20197.9  | 0.0    | 20197.9 |
|                    | % Fixture | 48.8     | 0.0    | 48.8    |
| <b>Total</b>       | Lumens    | 41404.5  | 0.0    | 41404.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 20902.3 | 50.5      |
| 10°-20°   | 13381.5 | 32.3      |
| 20°-30°   | 4022.2  | 9.7       |
| 30°-40°   | 1309.6  | 3.2       |
| 40°-50°   | 762.0   | 1.8       |
| 50°-60°   | 506.1   | 1.2       |
| 60°-70°   | 304.7   | 0.7       |
| 70°-80°   | 156.6   | 0.4       |
| 80°-90°   | 59.5    | 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°    | 41404.5 | 100.0     |
| 0°-180°   | 41404.5 | 100.0     |

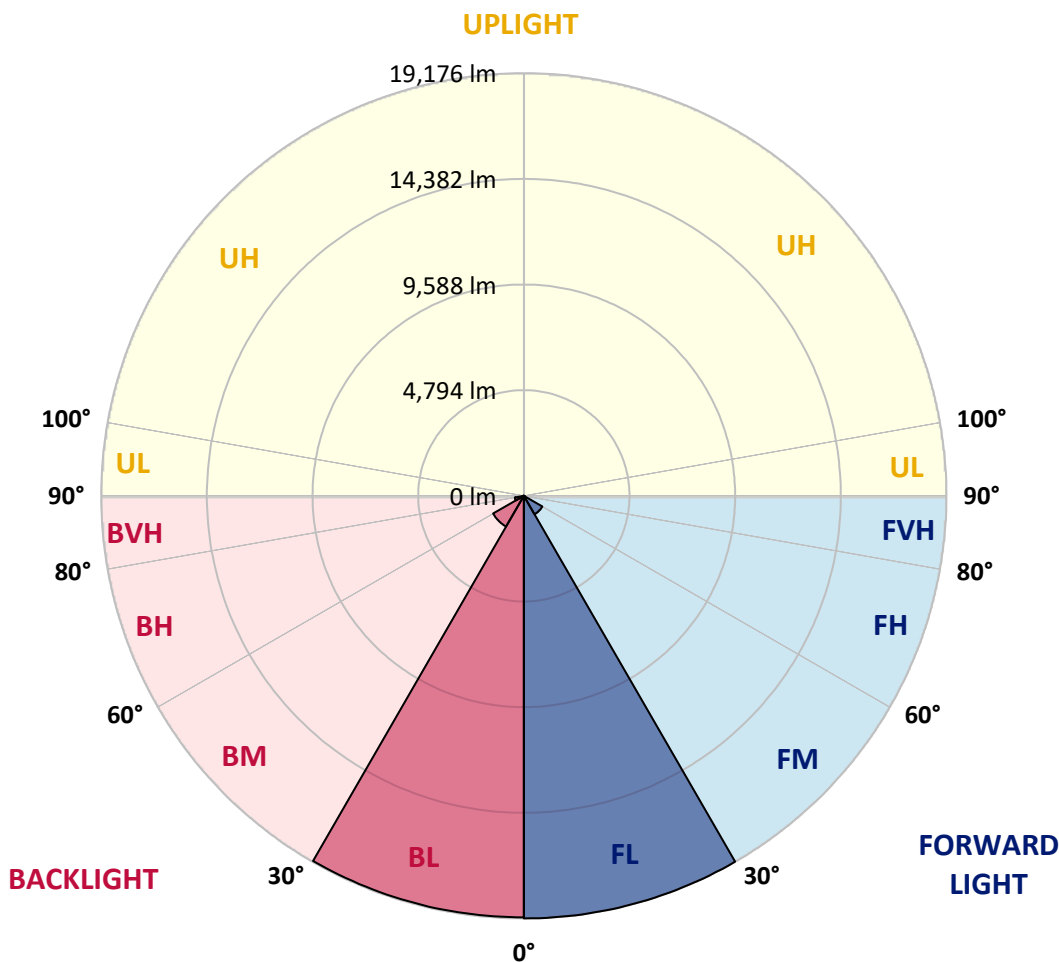


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 19175.7 | 46.3      |                         |      |        |
| FM (30°-60°)   | 967.7   | 2.3       |                         |      |        |
| FH (60°-80°)   | 45.5    | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 9.0     | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 19130.3 | 46.2      | B5                      |      |        |
| BM (30°-60°)   | 1610.1  | 3.9       | B2/2500                 |      |        |
| BH (60°-80°)   | 415.7   | 1.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 50.5    | 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°    | 411281.5 | 411281.5 | 411281.5 | 411281.5 | 411281.5 | 411281.5 | 411281.5 | 411281.5 | 411281.5 | 411281.5 |
| 1°    | 406357.0 | 405116.9 | 401915.0 | 404192.4 | 406194.7 | 405612.9 | 405572.3 | 405355.9 | 405053.7 | 407425.8 |
| 2°    | 390113.4 | 389310.7 | 384575.6 | 386528.2 | 389373.8 | 387299.4 | 388598.1 | 387457.2 | 387479.7 | 390311.8 |
| 3°    | 362731.0 | 363168.4 | 355614.8 | 359163.9 | 363118.8 | 358090.6 | 359650.9 | 362582.2 | 359511.1 | 358586.6 |
| 4°    | 327141.1 | 323344.0 | 319217.7 | 322825.4 | 323849.1 | 320922.3 | 323799.5 | 327389.1 | 323123.0 | 323312.4 |
| 5°    | 286509.4 | 283704.5 | 278820.5 | 281048.3 | 278509.4 | 279433.9 | 283745.0 | 285224.2 | 282247.9 | 278500.4 |
| 6°    | 244732.4 | 242739.1 | 236633.1 | 239843.9 | 238942.0 | 238418.9 | 243862.0 | 239352.4 | 240975.8 | 238707.5 |
| 7°    | 203568.6 | 199843.6 | 196844.7 | 199920.3 | 200118.7 | 198544.9 | 205611.4 | 204790.7 | 201836.9 | 201151.4 |
| 8°    | 168659.6 | 164943.7 | 162404.8 | 164695.7 | 166192.9 | 163721.6 | 167045.2 | 169227.9 | 166918.9 | 167126.4 |
| 9°    | 136032.6 | 135378.7 | 131847.6 | 134842.0 | 136470.0 | 133822.9 | 137502.7 | 138291.9 | 136131.8 | 137182.5 |
| 10°   | 111694.2 | 110932.0 | 108113.5 | 109326.6 | 112023.4 | 108866.6 | 112397.7 | 112654.7 | 110932.0 | 111423.6 |
| 12.5° | 69024.2  | 68717.5  | 68640.9  | 68816.7  | 68780.7  | 69339.9  | 70241.8  | 69213.6  | 69078.3  | 67378.2  |
| 15°   | 44613.6  | 45069.1  | 44600.1  | 45502.0  | 45632.8  | 46160.4  | 45610.3  | 44780.5  | 43197.6  | 42412.9  |
| 17.5° | 27842.4  | 28424.1  | 29226.8  | 30548.1  | 31869.5  | 32022.8  | 31292.2  | 30318.1  | 29551.5  | 28712.7  |
| 20°   | 16018.2  | 16302.3  | 16180.5  | 17763.4  | 21181.7  | 22110.6  | 21168.1  | 20144.5  | 19220.0  | 18372.2  |
| 22.5° | 9952.7   | 9849.0   | 10038.4  | 10570.5  | 11684.4  | 14557.0  | 13785.9  | 12762.2  | 12090.3  | 11391.3  |
| 25°   | 6101.5   | 6214.3   | 6142.1   | 6435.2   | 6935.8   | 8153.4   | 8329.3   | 7887.3   | 7544.6   | 7183.8   |
| 27.5° | 3927.9   | 3927.9   | 3959.4   | 4121.8   | 4464.5   | 4423.9   | 5361.9   | 5019.2   | 4834.3   | 4658.4   |
| 30°   | 2728.3   | 2737.3   | 2737.3   | 2832.0   | 2908.7   | 2773.4   | 3016.9   | 3458.9   | 3373.2   | 3237.9   |
| 32.5° | 2024.8   | 2051.9   | 2074.4   | 2124.0   | 2060.9   | 1916.6   | 1975.2   | 2489.3   | 2439.7   | 2390.1   |
| 35°   | 1542.3   | 1564.8   | 1619.0   | 1646.0   | 1555.8   | 1465.6   | 1411.5   | 1830.9   | 1853.5   | 1839.9   |
| 37.5° | 1122.9   | 1136.4   | 1235.6   | 1339.4   | 1235.6   | 1154.5   | 1122.9   | 1407.0   | 1515.2   | 1501.7   |
| 40°   | 861.3    | 865.8    | 883.9    | 1001.1   | 1001.1   | 938.0    | 947.0    | 1050.7   | 1240.1   | 1240.1   |
| 42.5° | 739.6    | 739.6    | 757.6    | 739.6    | 744.1    | 811.7    | 834.3    | 847.8    | 1050.7   | 1050.7   |
| 45°   | 640.4    | 640.4    | 649.4    | 604.3    | 559.2    | 699.0    | 717.0    | 721.5    | 883.9    | 906.4    |
| 47.5° | 536.6    | 536.6    | 554.7    | 496.1    | 473.5    | 554.7    | 604.3    | 617.8    | 762.1    | 780.2    |
| 50°   | 396.8    | 401.4    | 455.5    | 405.9    | 419.4    | 428.4    | 523.1    | 532.1    | 644.9    | 685.5    |
| 52.5° | 266.1    | 266.1    | 275.1    | 315.7    | 365.3    | 351.8    | 423.9    | 455.5    | 514.1    | 568.2    |
| 55°   | 216.5    | 216.5    | 212.0    | 202.9    | 270.6    | 293.1    | 311.2    | 378.8    | 419.4    | 487.0    |
| 57.5° | 148.8    | 157.8    | 144.3    | 166.9    | 175.9    | 221.0    | 234.5    | 297.6    | 320.2    | 410.4    |
| 60°   | 18.0     | 22.5     | 31.6     | 121.8    | 117.3    | 148.8    | 175.9    | 234.5    | 261.6    | 315.7    |
| 62.5° | 4.5      | 4.5      | 9.0      | 22.5     | 81.2     | 99.2     | 139.8    | 162.3    | 189.4    | 243.5    |
| 65°   | 0.0      | 0.0      | 4.5      | 9.0      | 18.0     | 54.1     | 72.2     | 94.7     | 135.3    | 171.4    |
| 67.5° | 0.0      | 0.0      | 4.5      | 9.0      | 9.0      | 22.5     | 36.1     | 58.6     | 72.2     | 126.3    |
| 70°   | 0.0      | 0.0      | 4.5      | 9.0      | 9.0      | 18.0     | 22.5     | 27.1     | 49.6     | 67.6     |
| 72.5° | 0.0      | 0.0      | 4.5      | 9.0      | 13.5     | 18.0     | 22.5     | 22.5     | 22.5     | 45.1     |
| 75°   | 0.0      | 0.0      | 4.5      | 9.0      | 13.5     | 18.0     | 22.5     | 22.5     | 18.0     | 18.0     |
| 77.5° | 0.0      | 0.0      | 4.5      | 9.0      | 18.0     | 22.5     | 27.1     | 22.5     | 13.5     | 13.5     |
| 80°   | 0.0      | 0.0      | 4.5      | 13.5     | 22.5     | 31.6     | 36.1     | 27.1     | 13.5     | 9.0      |
| 82.5° | 0.0      | 0.0      | 9.0      | 18.0     | 27.1     | 36.1     | 49.6     | 40.6     | 18.0     | 9.0      |
| 85°   | 0.0      | 0.0      | 4.5      | 13.5     | 27.1     | 36.1     | 72.2     | 49.6     | 22.5     | 4.5      |
| 87.5° | 0.0      | 0.0      | 0.0      | 4.5      | 4.5      | 9.0      | 27.1     | 18.0     | 9.0      | 4.5      |
| 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°            |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> | <b>411281.5</b> |
| 404688.4        | 407516.0        | 407800.1        | 406871.1        | 408309.7        | 407804.6        | 404846.3        | 403867.7        | 402708.7        | 401040.2        |
| 388647.7        | 387457.2        | 388904.8        | 388976.9        | 390573.3        | 390550.8        | 387100.9        | 386032.2        | 388002.9        | 384156.2        |
| 360462.6        | 359371.3        | 361057.9        | 359538.2        | 362374.7        | 361522.4        | 357337.5        | 356250.7        | 358487.4        | 355691.5        |
| 324809.6        | 323840.0        | 323519.9        | 322996.7        | 321382.3        | 323371.0        | 320516.5        | 318365.4        | 321400.3        | 315420.6        |
| 283470.0        | 282901.7        | 282189.2        | 281170.1        | 280692.0        | 282171.2        | 280344.8        | 275920.9        | 280353.8        | 269688.6        |
| 242811.3        | 243108.9        | 240042.4        | 239893.5        | 239627.5        | 239776.3        | 234662.4        | 234969.0        | 238270.1        | 229395.2        |
| 198792.9        | 200894.4        | 201458.1        | 200308.1        | 202152.6        | 200745.6        | 197282.2        | 195947.3        | 199424.2        | 193151.4        |
| 168037.3        | 166864.8        | 166152.3        | 165272.9        | 168028.3        | 165588.6        | 163315.7        | 161759.9        | 164506.3        | 159847.9        |
| 137353.9        | 137096.8        | 135865.7        | 134972.8        | 134833.0        | 135211.8        | 130945.7        | 131811.6        | 133890.5        | 131085.5        |
| 111694.2        | 111734.8        | 109714.5        | 110206.0        | 110336.8        | 109921.9        | 107125.9        | 107153.0        | 107870.0        | 104496.8        |
| 68505.6         | 68262.1         | 67269.9         | 67518.0         | 67653.3         | 68496.6         | 67513.5         | 66124.5         | 65123.4         | 64618.3         |
| 43193.1         | 42904.5         | 42192.0         | 43648.6         | 44627.2         | 44428.7         | 43553.9         | 42900.0         | 41993.5         | 41263.0         |
| 28712.7         | 28446.7         | 29380.1         | 29384.7         | 30277.6         | 30367.8         | 29492.9         | 28987.8         | 28171.6         | 28207.6         |
| 18674.3         | 18606.7         | 18994.5         | 19801.7         | 20433.1         | 20798.3         | 20130.9         | 19526.6         | 18967.4         | 18732.9         |
| 11643.8         | 11643.8         | 12320.3         | 12825.3         | 13646.1         | 13979.8         | 13492.8         | 13064.4         | 12608.9         | 12329.3         |
| 7269.5          | 7147.7          | 7630.3          | 8049.7          | 8762.2          | 9217.7          | 8983.2          | 8590.8          | 8270.6          | 8121.8          |
| 4694.5          | 4766.7          | 4969.6          | 5177.0          | 5668.6          | 6142.1          | 6011.3          | 5853.5          | 5659.6          | 5591.9          |
| 3310.1          | 3359.7          | 3377.7          | 3598.7          | 3873.8          | 4189.4          | 4270.6          | 4198.5          | 4099.2          | 4022.6          |
| 2430.7          | 2475.8          | 2547.9          | 2651.7          | 2823.0          | 3035.0          | 3228.9          | 3192.8          | 3147.7          | 3111.6          |
| 1858.0          | 1912.1          | 2020.3          | 2106.0          | 2236.8          | 2349.5          | 2534.4          | 2566.0          | 2552.4          | 2525.4          |
| 1528.8          | 1560.3          | 1655.0          | 1740.7          | 1817.4          | 1912.1          | 2038.3          | 2137.6          | 2142.1          | 2115.0          |
| 1262.7          | 1294.3          | 1379.9          | 1492.7          | 1551.3          | 1619.0          | 1713.7          | 1835.4          | 1844.4          | 1835.4          |
| 1068.8          | 1091.3          | 1172.5          | 1285.2          | 1357.4          | 1407.0          | 1497.2          | 1619.0          | 1637.0          | 1619.0          |
| 915.5           | 938.0           | 987.6           | 1104.9          | 1190.5          | 1240.1          | 1298.8          | 1429.5          | 1447.6          | 1443.1          |
| 789.2           | 816.2           | 865.8           | 938.0           | 1059.8          | 1104.9          | 1159.0          | 1262.7          | 1294.3          | 1294.3          |
| 699.0           | 717.0           | 766.6           | 829.8           | 938.0           | 1005.6          | 1050.7          | 1136.4          | 1181.5          | 1181.5          |
| 608.8           | 635.9           | 685.5           | 753.1           | 838.8           | 915.5           | 956.0           | 1037.2          | 1095.8          | 1095.8          |
| 496.1           | 532.1           | 617.8           | 667.4           | 744.1           | 847.8           | 883.9           | 947.0           | 1023.7          | 1023.7          |
| 432.9           | 464.5           | 536.6           | 608.8           | 671.9           | 775.7           | 820.8           | 883.9           | 956.0           | 965.1           |
| 342.7           | 392.3           | 460.0           | 545.7           | 599.8           | 699.0           | 757.6           | 825.3           | 892.9           | 910.9           |
| 261.6           | 311.2           | 401.4           | 460.0           | 536.6           | 631.3           | 708.0           | 762.1           | 829.8           | 856.8           |
| 202.9           | 230.0           | 329.2           | 396.8           | 478.0           | 568.2           | 649.4           | 694.5           | 766.6           | 784.7           |
| 144.3           | 166.9           | 257.0           | 338.2           | 414.9           | 500.6           | 581.7           | 626.8           | 690.0           | 703.5           |
| 90.2            | 130.8           | 189.4           | 279.6           | 347.2           | 437.4           | 505.1           | 554.7           | 595.3           | 608.8           |
| 58.6            | 76.7            | 144.3           | 225.5           | 302.1           | 383.3           | 428.4           | 464.5           | 500.6           | 509.6           |
| 27.1            | 49.6            | 112.7           | 184.9           | 252.5           | 311.2           | 351.8           | 383.3           | 414.9           | 419.4           |
| 13.5            | 31.6            | 81.2            | 148.8           | 212.0           | 239.0           | 288.6           | 315.7           | 333.7           | 324.7           |
| 9.0             | 18.0            | 63.1            | 130.8           | 171.4           | 193.9           | 225.5           | 252.5           | 275.1           | 252.5           |
| 9.0             | 13.5            | 54.1            | 108.2           | 144.3           | 144.3           | 180.4           | 193.9           | 193.9           | 184.9           |
| 4.5             | 9.0             | 45.1            | 85.7            | 135.3           | 108.2           | 135.3           | 126.3           | 126.3           | 126.3           |
| 4.5             | 9.0             | 31.6            | 40.6            | 58.6            | 49.6            | 58.6            | 58.6            | 67.6            | 67.6            |
| 0.0             | 0.0             | 0.0             | 0.0             | 0.0             | 0.0             | 0.0             | 0.0             | 0.0             | 0.0             |





180°  
411281.5  
398117.9  
379655.6  
348552.7  
310414.9  
268673.9  
228700.7  
189967.6  
156664.1  
127396.7  
102990.6  
64514.6  
41529.1  
27968.6  
18773.5  
12365.4  
8085.7  
5546.8  
4031.6  
3111.6  
2507.3  
2110.5  
1830.9  
1623.5  
1443.1  
1298.8  
1186.0  
1095.8  
1028.2  
960.5  
910.9  
861.3  
780.2  
694.5  
608.8  
509.6  
414.9  
324.7  
248.0  
180.4  
121.8  
67.6  
0.0

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