

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: P636844

Luminaire Tested: **IFLD-L-SA7A-950-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636844  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-950-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17397.2 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

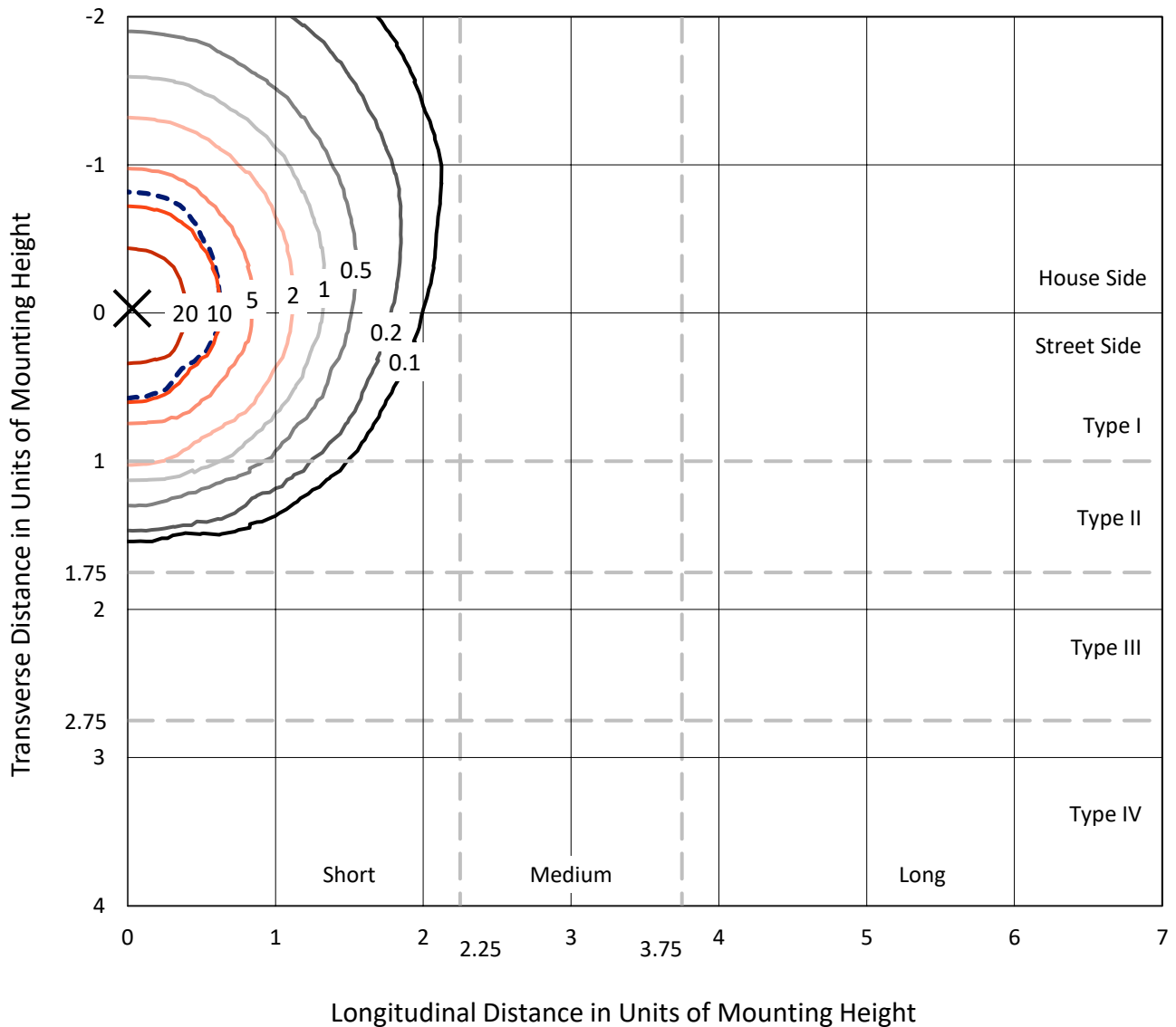
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

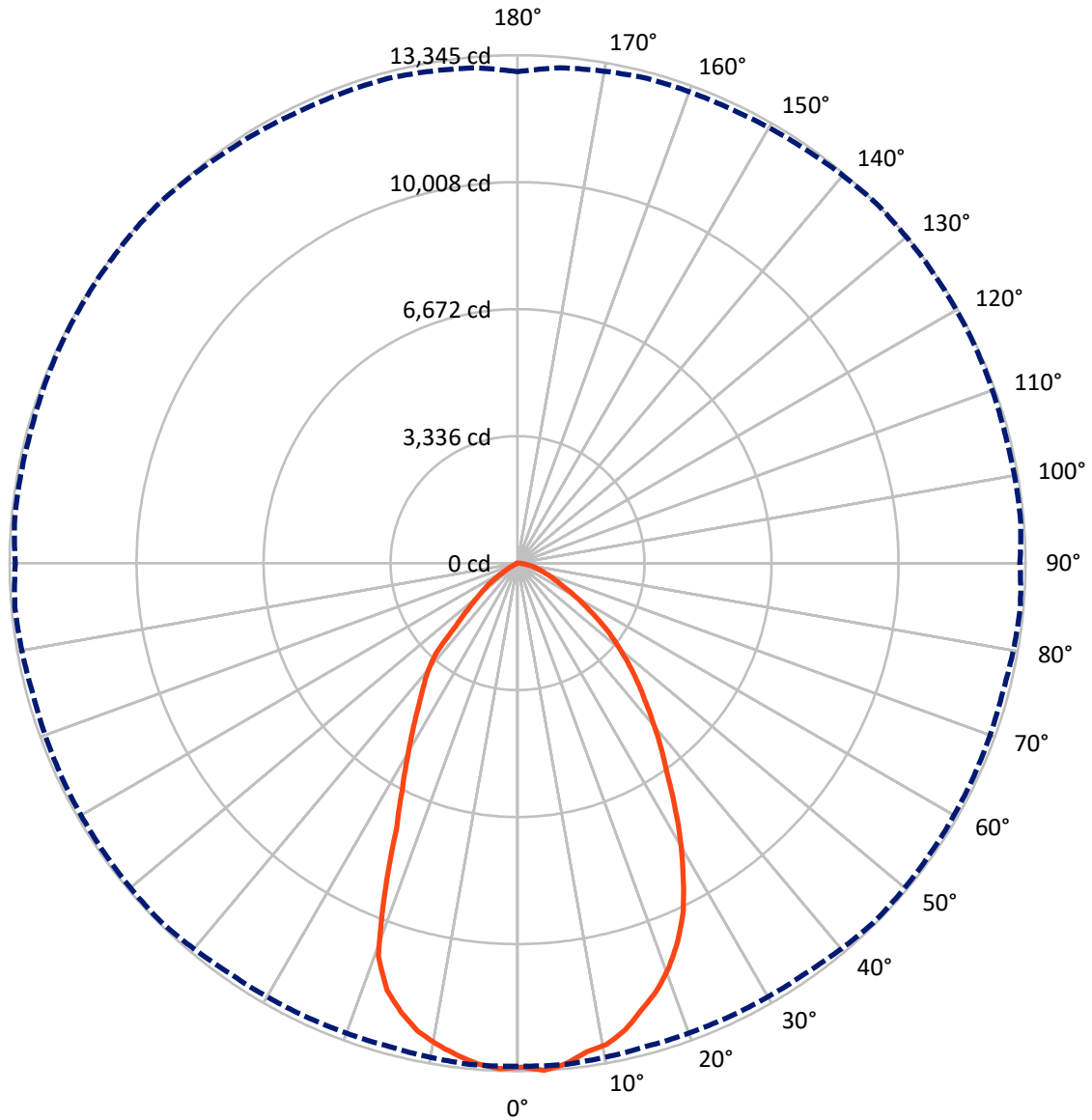
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10303.5  | 0.0    | 10303.5 |
|                    | % Fixture | 59.2     | 0.0    | 59.2    |
| <b>Street Side</b> | Lumens    | 7093.7   | 0.0    | 7093.7  |
|                    | % Fixture | 40.8     | 0.0    | 40.8    |
| <b>Total</b>       | Lumens    | 17397.2  | 0.0    | 17397.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1241.6  | 7.1       |
| 10°-20°   | 3329.5  | 19.1      |
| 20°-30°   | 4060.5  | 23.3      |
| 30°-40°   | 3707.2  | 21.3      |
| 40°-50°   | 2679.1  | 15.4      |
| 50°-60°   | 1462.8  | 8.4       |
| 60°-70°   | 604.8   | 3.5       |
| 70°-80°   | 244.9   | 1.4       |
| 80°-90°   | 66.6    | 0.4       |
| 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°    | 17397.2 | 100.0     |
| 0°-180°   | 17397.2 | 100.0     |



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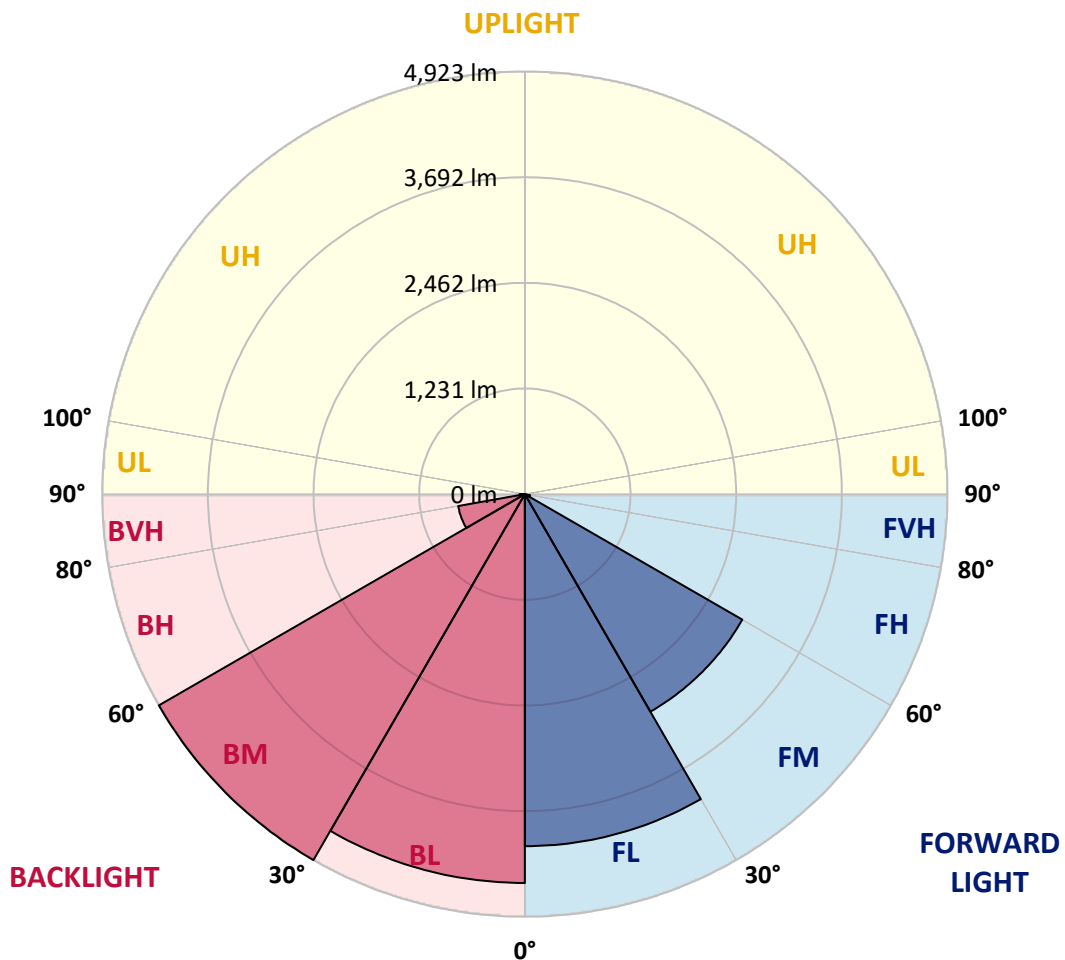
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 4101.2 | 23.6      |                         |      |         |
| FM (30°-60°)   | 2925.9 | 16.8      |                         |      |         |
| FH (60°-80°)   | 61.3   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 5.3    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 4530.5 | 26.0      | B4/5000                 |      |         |
| BM (30°-60°)   | 4923.3 | 28.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 788.5  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 61.3   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 |
| 2.5°  | 13214.7 | 13231.9 | 13138.8 | 13148.6 | 13165.7 | 13290.7 | 13258.8 | 13229.4 | 13187.8 | 13258.8 |
| 5°    | 13197.6 | 13207.4 | 13109.4 | 13075.1 | 13089.8 | 13202.5 | 13099.6 | 13099.6 | 13089.8 | 13077.5 |
| 7.5°  | 13065.3 | 13070.2 | 12994.2 | 12933.0 | 12972.2 | 13023.6 | 12947.7 | 12984.4 | 12930.5 | 12972.2 |
| 10°   | 12866.8 | 12835.0 | 12744.4 | 12727.2 | 12771.3 | 12820.3 | 12768.9 | 12803.2 | 12754.2 | 12786.0 |
| 12.5° | 12575.3 | 12526.3 | 12452.8 | 12430.8 | 12506.7 | 12572.9 | 12531.2 | 12511.6 | 12447.9 | 12526.3 |
| 15°   | 11450.8 | 11414.1 | 11580.7 | 11872.2 | 12134.3 | 12190.7 | 12146.6 | 12166.2 | 12033.9 | 12055.9 |
| 17.5° | 9424.7  | 9356.1  | 9535.0  | 10225.9 | 11210.7 | 11730.1 | 11690.9 | 11563.5 | 11367.5 | 11411.6 |
| 20°   | 8564.8  | 8545.2  | 8525.6  | 8689.8  | 9378.2  | 10953.5 | 11007.4 | 10684.0 | 10404.7 | 10343.5 |
| 22.5° | 8079.8  | 8072.4  | 8052.8  | 8089.6  | 8270.8  | 9282.7  | 9900.0  | 9601.1  | 9414.9  | 9397.8  |
| 25°   | 7636.3  | 7624.1  | 7565.3  | 7611.8  | 7611.8  | 7670.6  | 8461.9  | 8643.2  | 8479.1  | 8459.5  |
| 27.5° | 7185.5  | 7163.5  | 7153.7  | 7175.7  | 7063.0  | 6666.2  | 6867.1  | 7751.5  | 7665.7  | 7670.6  |
| 30°   | 6698.0  | 6690.7  | 6663.7  | 6710.3  | 6362.4  | 5869.9  | 5742.6  | 6943.0  | 6960.2  | 6955.3  |
| 32.5° | 5972.8  | 6004.7  | 6127.2  | 6178.6  | 5605.4  | 5198.7  | 4985.5  | 6007.1  | 6357.5  | 6350.1  |
| 35°   | 4338.8  | 4338.8  | 4738.1  | 5480.4  | 4912.0  | 4605.8  | 4490.7  | 5093.3  | 5762.2  | 5786.7  |
| 37.5° | 3567.0  | 3579.3  | 3657.7  | 3995.8  | 4238.3  | 4130.5  | 4096.2  | 4287.3  | 4997.8  | 5037.0  |
| 40°   | 3209.4  | 3209.4  | 3209.4  | 3069.7  | 3062.4  | 3721.4  | 3701.8  | 3640.5  | 4316.7  | 4402.5  |
| 42.5° | 2883.5  | 2890.9  | 2895.8  | 2543.0  | 2347.0  | 3216.7  | 3172.6  | 3079.5  | 3706.7  | 3807.1  |
| 45°   | 2547.9  | 2560.1  | 2574.8  | 2126.5  | 2040.8  | 2315.2  | 2685.1  | 2582.2  | 3104.0  | 3233.9  |
| 47.5° | 1555.7  | 1575.3  | 1908.5  | 1803.1  | 1812.9  | 1786.0  | 2190.2  | 2173.1  | 2545.4  | 2729.2  |
| 50°   | 1051.0  | 1058.4  | 1090.2  | 1144.1  | 1555.7  | 1403.8  | 1550.8  | 1798.2  | 1933.0  | 2212.3  |
| 52.5° | 882.0   | 894.2   | 815.8   | 742.3   | 1021.6  | 1097.6  | 1082.9  | 1335.2  | 1389.1  | 1734.5  |
| 55°   | 619.8   | 659.0   | 622.3   | 614.9   | 580.6   | 852.6   | 820.7   | 1026.5  | 1060.8  | 1318.0  |
| 57.5° | 63.7    | 73.5    | 127.4   | 458.1   | 379.7   | 482.6   | 585.5   | 752.1   | 786.4   | 972.6   |
| 60°   | 4.9     | 4.9     | 12.2    | 63.7    | 276.8   | 289.1   | 404.2   | 463.0   | 529.2   | 678.6   |
| 62.5° | 0.0     | 2.4     | 4.9     | 9.8     | 44.1    | 154.3   | 203.3   | 242.5   | 318.5   | 438.5   |
| 65°   | 0.0     | 0.0     | 2.4     | 7.3     | 9.8     | 58.8    | 78.4    | 127.4   | 173.9   | 271.9   |
| 67.5° | 0.0     | 0.0     | 2.4     | 4.9     | 7.3     | 14.7    | 26.9    | 46.5    | 93.1    | 154.3   |
| 70°   | 0.0     | 0.0     | 2.4     | 4.9     | 7.3     | 12.2    | 19.6    | 29.4    | 41.6    | 83.3    |
| 72.5° | 0.0     | 0.0     | 2.4     | 2.4     | 4.9     | 12.2    | 14.7    | 19.6    | 29.4    | 41.6    |
| 75°   | 0.0     | 0.0     | 2.4     | 2.4     | 7.3     | 14.7    | 12.2    | 14.7    | 19.6    | 26.9    |
| 77.5° | 0.0     | 0.0     | 2.4     | 4.9     | 7.3     | 14.7    | 12.2    | 14.7    | 14.7    | 17.1    |
| 80°   | 0.0     | 0.0     | 2.4     | 4.9     | 9.8     | 17.1    | 14.7    | 14.7    | 12.2    | 12.2    |
| 82.5° | 0.0     | 0.0     | 2.4     | 7.3     | 9.8     | 22.0    | 22.0    | 19.6    | 9.8     | 7.3     |
| 85°   | 0.0     | 0.0     | 4.9     | 9.8     | 14.7    | 24.5    | 24.5    | 19.6    | 7.3     | 4.9     |
| 87.5° | 0.0     | 0.0     | 4.9     | 7.3     | 12.2    | 17.1    | 24.5    | 19.6    | 7.3     | 2.4     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13239.2 | 0°    | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 | 13239.2 |
| 13197.6 | 2.5°  | 13263.7 | 13249.0 | 13298.0 | 13317.6 | 13344.6 | 13241.7 | 13178.0 | 13180.4 | 13062.8 |
| 13048.1 | 5°    | 13126.5 | 13129.0 | 13192.7 | 13187.8 | 13214.7 | 13158.4 | 13133.9 | 13092.2 | 12989.3 |
| 12859.5 | 7.5°  | 12952.6 | 12930.5 | 12991.8 | 13038.3 | 12969.7 | 13008.9 | 12952.6 | 12972.2 | 12910.9 |
| 12692.9 | 10°   | 12817.9 | 12766.4 | 12822.8 | 12854.6 | 12857.0 | 12817.9 | 12764.0 | 12712.5 | 12690.5 |
| 12433.2 | 12.5° | 12519.0 | 12452.8 | 12548.4 | 12592.5 | 12585.1 | 12509.2 | 12447.9 | 12460.2 | 12389.1 |
| 11977.5 | 15°   | 12107.4 | 12109.8 | 12178.4 | 12220.1 | 12180.9 | 12163.7 | 12168.6 | 12139.2 | 12078.0 |
| 11347.9 | 17.5° | 11477.8 | 11514.5 | 11695.8 | 11796.2 | 11818.3 | 11784.0 | 11766.8 | 11732.5 | 11671.3 |
| 10343.5 | 20°   | 10429.2 | 10649.7 | 10973.1 | 11284.2 | 11345.5 | 11335.7 | 11274.4 | 11259.7 | 11225.4 |
| 9348.8  | 22.5° | 9508.0  | 9672.2  | 10047.0 | 10532.1 | 10782.0 | 10806.5 | 10733.0 | 10710.9 | 10674.2 |
| 8459.5  | 25°   | 8555.0  | 8731.4  | 9069.5  | 9596.2  | 10113.2 | 10218.5 | 10206.3 | 10140.1 | 10100.9 |
| 7670.6  | 27.5° | 7751.5  | 7927.9  | 8234.1  | 8709.4  | 9263.1  | 9601.1  | 9633.0  | 9527.6  | 9525.2  |
| 6967.5  | 30°   | 7026.3  | 7268.8  | 7501.6  | 7888.7  | 8425.2  | 8932.3  | 8986.2  | 8912.7  | 8920.1  |
| 6323.2  | 32.5° | 6457.9  | 6658.8  | 6857.3  | 7116.9  | 7562.8  | 8153.3  | 8363.9  | 8295.3  | 8268.4  |
| 5786.7  | 35°   | 5877.3  | 6014.5  | 6217.8  | 6455.5  | 6759.3  | 7344.8  | 7709.8  | 7658.4  | 7631.4  |
| 5061.5  | 37.5° | 5215.8  | 5451.0  | 5598.0  | 5865.0  | 6102.7  | 6568.2  | 7082.6  | 7075.3  | 7018.9  |
| 4444.1  | 40°   | 4537.2  | 4784.6  | 5007.6  | 5277.1  | 5460.8  | 5830.8  | 6401.6  | 6399.1  | 6406.5  |
| 3804.7  | 42.5° | 3922.3  | 4150.1  | 4419.6  | 4713.6  | 4890.0  | 5159.5  | 5772.0  | 5806.3  | 5847.9  |
| 3278.0  | 45°   | 3366.2  | 3571.9  | 3821.8  | 4179.5  | 4392.7  | 4547.0  | 5090.9  | 5247.7  | 5245.2  |
| 2807.6  | 47.5° | 2866.4  | 3059.9  | 3270.6  | 3618.5  | 3890.4  | 4030.1  | 4480.9  | 4703.8  | 4689.1  |
| 2302.9  | 50°   | 2405.8  | 2577.3  | 2797.8  | 3050.1  | 3415.2  | 3537.6  | 3873.3  | 4167.3  | 4145.2  |
| 1835.0  | 52.5° | 1935.4  | 2173.1  | 2359.2  | 2589.5  | 2974.2  | 3094.2  | 3353.9  | 3640.5  | 3623.4  |
| 1376.8  | 55°   | 1509.1  | 1739.4  | 1964.8  | 2163.3  | 2486.6  | 2665.5  | 2851.7  | 3145.7  | 3140.8  |
| 1078.0  | 57.5° | 1141.7  | 1394.0  | 1607.1  | 1795.8  | 2053.0  | 2273.5  | 2422.9  | 2690.0  | 2724.3  |
| 737.4   | 60°   | 845.2   | 1038.8  | 1269.0  | 1479.7  | 1683.1  | 1910.9  | 2011.4  | 2273.5  | 2288.2  |
| 504.7   | 62.5° | 575.7   | 788.9   | 1014.3  | 1205.3  | 1357.2  | 1592.4  | 1683.1  | 1898.7  | 1925.6  |
| 323.4   | 65°   | 399.3   | 536.5   | 793.8   | 931.0   | 1117.2  | 1318.0  | 1408.7  | 1580.2  | 1634.1  |
| 186.2   | 67.5° | 264.6   | 382.2   | 619.8   | 744.8   | 928.5   | 1065.7  | 1180.8  | 1320.5  | 1379.3  |
| 117.6   | 70°   | 144.5   | 281.7   | 443.4   | 588.0   | 747.2   | 879.5   | 992.2   | 1104.9  | 1156.4  |
| 53.9    | 72.5° | 98.0    | 188.6   | 308.7   | 465.5   | 602.7   | 732.5   | 833.0   | 916.3   | 918.7   |
| 31.8    | 75°   | 49.0    | 127.4   | 235.2   | 360.1   | 470.4   | 597.8   | 688.4   | 737.4   | 678.6   |
| 19.6    | 77.5° | 29.4    | 93.1    | 191.1   | 289.1   | 382.2   | 482.6   | 534.1   | 561.0   | 465.5   |
| 14.7    | 80°   | 17.1    | 66.1    | 149.4   | 230.3   | 264.6   | 355.2   | 404.2   | 411.6   | 311.1   |
| 9.8     | 82.5° | 12.2    | 49.0    | 117.6   | 169.0   | 161.7   | 249.9   | 303.8   | 294.0   | 198.4   |
| 7.3     | 85°   | 7.3     | 34.3    | 73.5    | 105.3   | 98.0    | 164.1   | 176.4   | 181.3   | 115.1   |
| 4.9     | 87.5° | 4.9     | 19.6    | 39.2    | 56.3    | 46.5    | 71.0    | 71.0    | 85.7    | 56.3    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
13239.2  
*12910.9*  
12964.8  
12808.1  
12592.5  
12327.9  
12016.7  
11644.4  
11147.0  
10664.4  
10059.3  
9520.3  
8883.3  
8270.8  
7594.7  
7065.5  
6406.5  
5825.9  
5250.1  
4694.0  
4164.8  
3660.1  
3153.0  
2709.6  
2310.3  
1930.5  
1621.8  
1371.9  
1136.8  
896.7  
634.5  
448.3  
291.5  
183.7  
105.3  
49.0  
0.0

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