

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: P477326

Luminaire Tested: **IFLD-L-SA7D-730-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477326  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

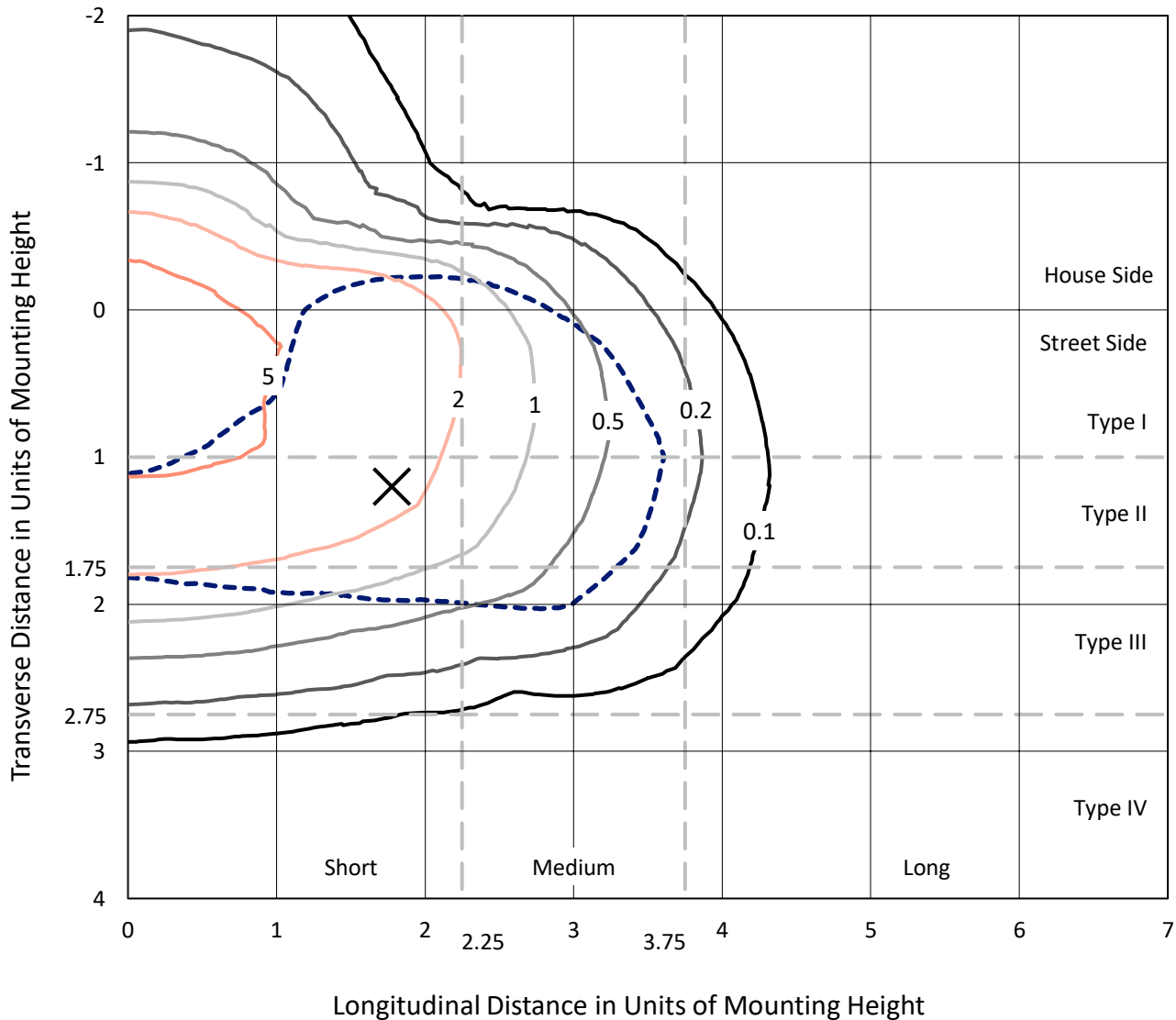
Lumens per Lamp: N/A  
Luminaire Lumens: 45240.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

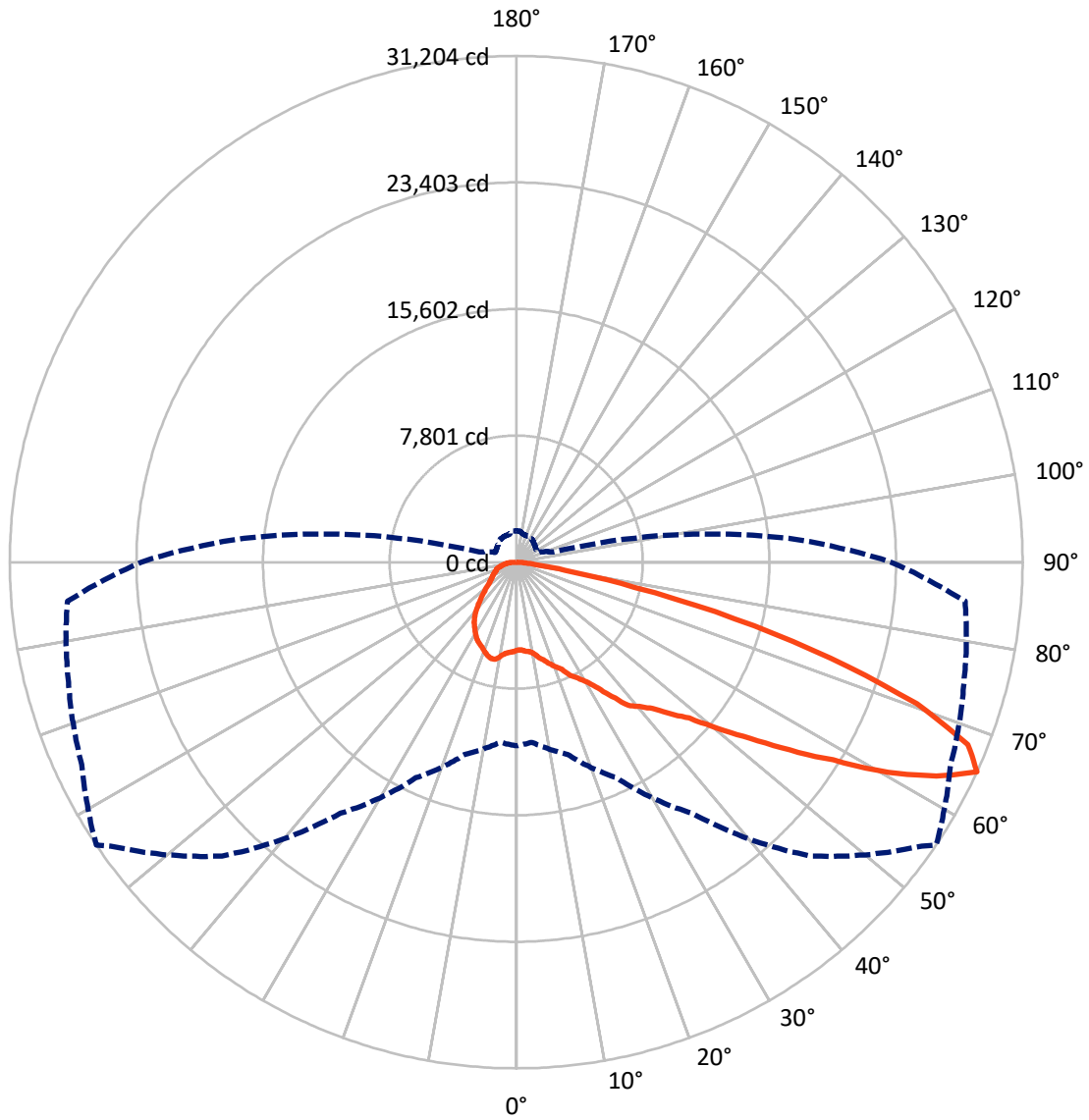
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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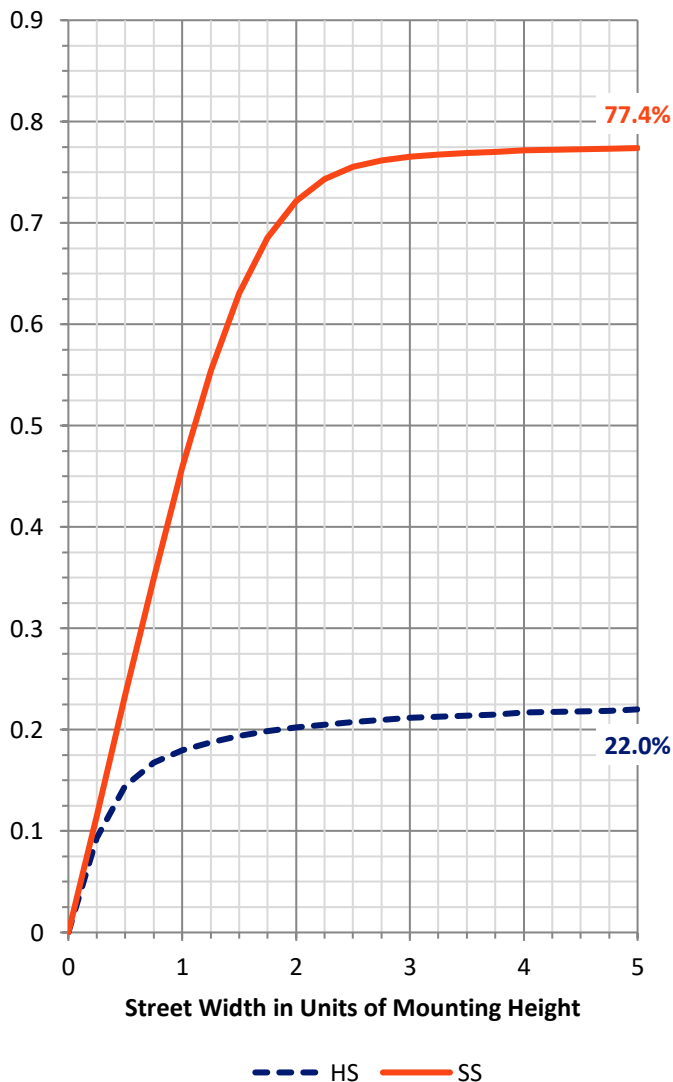
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10146.1  | 0.0    | 10146.1 |
|                    | % Fixture | 22.4     | 0.0    | 22.4    |
| <b>Street Side</b> | Lumens    | 35094.8  | 0.0    | 35094.8 |
|                    | % Fixture | 77.6     | 0.0    | 77.6    |
| <b>Total</b>       | Lumens    | 45240.9  | 0.0    | 45240.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 538.1   | 1.2       |
| 10°-20°   | 1747.3  | 3.9       |
| 20°-30°   | 3111.2  | 6.9       |
| 30°-40°   | 4659.0  | 10.3      |
| 40°-50°   | 6902.8  | 15.3      |
| 50°-60°   | 10636.3 | 23.5      |
| 60°-70°   | 12041.6 | 26.6      |
| 70°-80°   | 4997.4  | 11.0      |
| 80°-90°   | 607.1   | 1.3       |
| 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°    | 45240.9 | 100.0     |
| 0°-180°   | 45240.9 | 100.0     |

**Coefficient of Utilization**

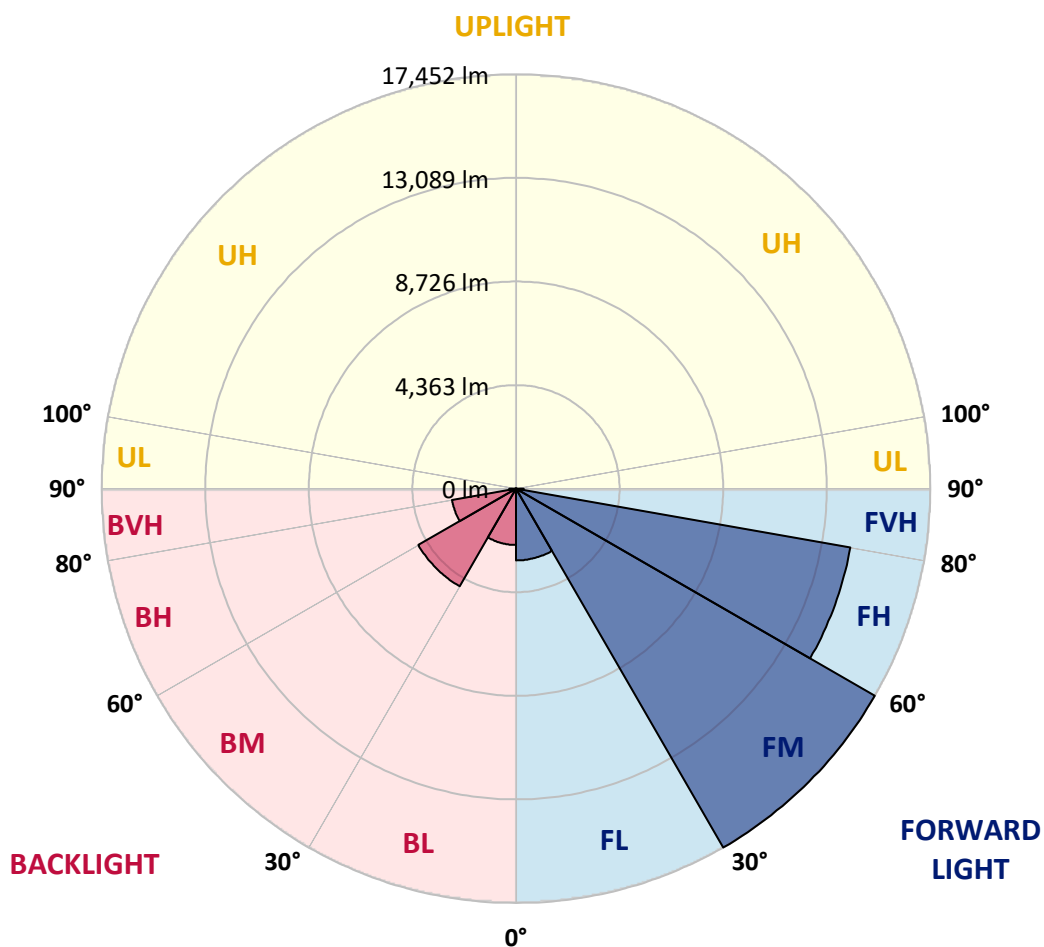


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3023.4  | 6.7       |                         |      |         |
| FM (30°-60°)   | 17451.9 | 38.6      |                         |      |         |
| FH (60°-80°)   | 14299.2 | 31.6      |                         |      | G5      |
| FVH (80°-90°)  | 320.2   | 0.7       |                         |      | G3/500  |
| BL (0°-30°)    | 2373.3  | 5.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 4746.1  | 10.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 2739.8  | 6.1       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 286.9   | 0.6       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5430.2  | 5430.2  | 5430.2  | 5430.2  | 5430.2  | 5430.2  | 5430.2  | 5430.2  | 5430.2  | 5430.2  |
| 2.5°  | 5288.2  | 5316.6  | 5297.6  | 5354.4  | 5401.8  | 5401.8  | 5439.7  | 5411.3  | 5449.1  | 5501.2  |
| 5°    | 5463.3  | 5349.7  | 5411.3  | 5439.7  | 5425.5  | 5449.1  | 5411.3  | 5505.9  | 5444.4  | 5543.8  |
| 7.5°  | 5505.9  | 5548.6  | 5600.6  | 5553.3  | 5595.9  | 5572.2  | 5577.0  | 5562.8  | 5529.6  | 5610.1  |
| 10°   | 5818.4  | 5756.9  | 5875.2  | 5804.2  | 5794.7  | 5785.3  | 5766.3  | 5695.3  | 5775.8  | 5780.5  |
| 12.5° | 6178.2  | 6121.4  | 6116.7  | 6059.9  | 6135.6  | 5998.3  | 6026.7  | 5988.8  | 6003.0  | 6022.0  |
| 15°   | 6438.6  | 6414.9  | 6523.8  | 6457.5  | 6358.1  | 6296.6  | 6362.8  | 6258.7  | 6310.8  | 6301.3  |
| 17.5° | 6954.6  | 6949.9  | 6869.4  | 6760.5  | 6703.7  | 6613.8  | 6599.6  | 6556.9  | 6594.8  | 6575.9  |
| 20°   | 7314.4  | 7366.5  | 7380.7  | 7252.9  | 7035.1  | 6935.7  | 6912.0  | 6878.9  | 6921.5  | 6907.3  |
| 22.5° | 7863.6  | 7783.1  | 7844.7  | 7622.2  | 7541.7  | 7305.0  | 7219.7  | 7172.4  | 7376.0  | 7323.9  |
| 25°   | 8213.9  | 8299.2  | 8237.6  | 8161.9  | 7982.0  | 7688.4  | 7626.9  | 7731.0  | 7811.5  | 7754.7  |
| 27.5° | 9004.6  | 8919.3  | 8862.5  | 8635.3  | 8516.9  | 8209.2  | 8138.2  | 8100.3  | 8119.3  | 8152.4  |
| 30°   | 9605.8  | 9653.2  | 9525.3  | 9364.4  | 9066.1  | 8753.6  | 8587.9  | 8554.8  | 8488.5  | 8431.7  |
| 32.5° | 10462.7 | 10391.7 | 10315.9 | 10211.8 | 9956.1  | 9544.3  | 9383.3  | 9260.2  | 9061.4  | 8796.3  |
| 35°   | 10874.6 | 11078.2 | 11021.4 | 10742.0 | 10547.9 | 10391.7 | 10344.4 | 10155.0 | 9989.3  | 9572.7  |
| 37.5° | 11561.1 | 11646.3 | 11565.8 | 11475.8 | 11385.9 | 11220.2 | 11163.4 | 11215.5 | 10888.8 | 10202.3 |
| 40°   | 12006.1 | 12186.0 | 12351.7 | 12100.8 | 12081.8 | 12115.0 | 11764.6 | 11703.1 | 11030.8 | 10671.0 |
| 42.5° | 12915.1 | 12990.8 | 13023.9 | 13014.5 | 13123.4 | 13123.4 | 12455.8 | 12323.3 | 11845.1 | 11551.6 |
| 45°   | 14117.6 | 14179.1 | 14297.5 | 14382.7 | 14259.6 | 14321.1 | 13369.5 | 13317.5 | 12891.4 | 12834.6 |
| 47.5° | 15159.1 | 15305.9 | 15571.0 | 15821.9 | 15982.9 | 15774.6 | 14733.0 | 14363.7 | 14254.9 | 14595.7 |
| 50°   | 16068.1 | 15892.9 | 16513.1 | 16768.7 | 17474.1 | 17819.8 | 16238.5 | 16091.7 | 15916.6 | 16569.9 |
| 52.5° | 16158.0 | 16394.7 | 17270.6 | 17781.9 | 19235.3 | 19874.4 | 18084.9 | 18023.3 | 17810.3 | 18563.0 |
| 55°   | 16801.9 | 16773.5 | 17654.1 | 18761.9 | 20489.9 | 21564.5 | 20489.9 | 20452.0 | 19988.0 | 20702.9 |
| 57.5° | 16693.0 | 16981.8 | 17677.7 | 19225.8 | 21621.4 | 23377.8 | 23278.4 | 23018.0 | 22369.4 | 22951.7 |
| 60°   | 16323.7 | 16399.5 | 17246.9 | 19211.6 | 22279.4 | 25238.3 | 26289.3 | 26341.4 | 25015.8 | 25479.8 |
| 62.5° | 14231.2 | 14406.3 | 15481.0 | 17701.4 | 21810.7 | 26521.3 | 29229.3 | 29044.7 | 27984.2 | 27454.0 |
| 65°   | 11319.6 | 11144.4 | 12261.7 | 14662.0 | 18894.4 | 25612.3 | 30517.0 | 31203.5 | 29537.0 | 28566.5 |
| 67.5° | 6940.4  | 6897.8  | 7972.5  | 10088.7 | 14136.5 | 21796.5 | 29489.7 | 30024.7 | 29106.2 | 28329.8 |
| 70°   | 3574.4  | 3465.5  | 4137.7  | 5629.0  | 8886.2  | 15992.3 | 25664.4 | 26189.9 | 27065.8 | 25408.8 |
| 72.5° | 1666.5  | 1642.8  | 2002.6  | 2769.5  | 4526.0  | 9402.2  | 19874.4 | 20253.2 | 22099.5 | 21422.5 |
| 75°   | 980.0   | 994.2   | 1197.8  | 1448.7  | 2206.2  | 4431.3  | 13189.6 | 13923.5 | 15926.0 | 15438.4 |
| 77.5° | 733.8   | 733.8   | 852.2   | 1008.4  | 1287.7  | 1713.8  | 6509.6  | 7480.1  | 9312.3  | 8374.9  |
| 80°   | 539.7   | 549.2   | 653.3   | 757.5   | 894.8   | 885.3   | 2584.9  | 3029.9  | 4270.3  | 3650.1  |
| 82.5° | 421.3   | 435.6   | 506.6   | 563.4   | 629.7   | 535.0   | 1060.5  | 1141.0  | 1756.4  | 1396.6  |
| 85°   | 293.5   | 303.0   | 397.7   | 383.5   | 383.5   | 298.3   | 440.3   | 464.0   | 695.9   | 662.8   |
| 87.5° | 71.0    | 80.5    | 194.1   | 213.0   | 161.0   | 90.0    | 137.3   | 156.2   | 250.9   | 288.8   |
| 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):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5430.2  | 0°    | 5430.2  | 5430.2  | 5430.2 | 5430.2 | 5430.2 | 5430.2 | 5430.2 | 5430.2 | 5430.2 | 5430.2 |
| 5524.9  | 2.5°  | 5453.9  | 5472.8  | 5553.3 | 5510.7 | 5534.3 | 5434.9 | 5515.4 | 5449.1 | 5505.9 | 5477.5 |
| 5567.5  | 5°    | 5605.4  | 5562.8  | 5610.1 | 5577.0 | 5577.0 | 5614.8 | 5671.6 | 5629.0 | 5714.3 | 5676.4 |
| 5600.6  | 7.5°  | 5666.9  | 5671.6  | 5700.0 | 5704.8 | 5681.1 | 5799.5 | 5804.2 | 5790.0 | 5870.5 | 5851.5 |
| 5827.9  | 10°   | 5818.4  | 5823.1  | 5875.2 | 5903.6 | 5879.9 | 5922.6 | 5875.2 | 5837.3 | 5832.6 | 5813.7 |
| 6007.8  | 12.5° | 6059.9  | 6107.2  | 6097.7 | 6121.4 | 6126.1 | 5946.2 | 5837.3 | 5652.7 | 5629.0 | 5652.7 |
| 6272.9  | 15°   | 6282.4  | 6263.4  | 6272.9 | 6320.2 | 6121.4 | 5832.6 | 5638.5 | 5482.3 | 5491.7 | 5496.5 |
| 6618.5  | 17.5° | 6547.5  | 6561.7  | 6575.9 | 6358.1 | 5993.6 | 5652.7 | 5482.3 | 5482.3 | 5434.9 | 5453.9 |
| 6859.9  | 20°   | 6850.5  | 6793.7  | 6670.6 | 6362.8 | 5771.1 | 5444.4 | 5392.3 | 5392.3 | 5335.5 | 5297.6 |
| 7120.3  | 22.5° | 7087.2  | 6973.6  | 6788.9 | 6216.1 | 5572.2 | 5363.9 | 5236.1 | 5146.1 | 5079.9 | 5004.1 |
| 7409.1  | 25°   | 7238.7  | 7177.1  | 6817.3 | 6064.6 | 5425.5 | 5150.9 | 4961.5 | 4824.2 | 4739.0 | 4639.6 |
| 7636.4  | 27.5° | 7470.7  | 7352.3  | 6897.8 | 5889.4 | 5264.5 | 4937.8 | 4644.3 | 4431.3 | 4270.3 | 4166.1 |
| 7982.0  | 30°   | 7783.1  | 7612.7  | 6841.0 | 5638.5 | 5018.3 | 4568.6 | 4223.0 | 3948.4 | 3763.7 | 3678.5 |
| 8308.6  | 32.5° | 8038.8  | 7816.3  | 6793.7 | 5411.3 | 4743.7 | 4194.6 | 3735.3 | 3456.0 | 3351.9 | 3243.0 |
| 8857.8  | 35°   | 8526.4  | 8086.1  | 6760.5 | 5283.4 | 4497.5 | 3820.5 | 3337.7 | 3096.2 | 2963.6 | 2802.7 |
| 9184.5  | 37.5° | 8900.4  | 8554.8  | 6680.0 | 5018.3 | 4180.4 | 3456.0 | 3034.7 | 2816.9 | 2618.0 | 2447.6 |
| 9941.9  | 40°   | 9487.5  | 9208.1  | 6684.8 | 4644.3 | 3806.3 | 3143.5 | 2797.9 | 2570.7 | 2319.8 | 2173.0 |
| 11064.0 | 42.5° | 10590.5 | 9852.0  | 6713.2 | 4346.0 | 3385.0 | 2887.9 | 2584.9 | 2315.1 | 2064.1 | 1941.0 |
| 12342.2 | 45°   | 11944.5 | 10737.3 | 6538.0 | 4076.2 | 2954.2 | 2646.5 | 2329.3 | 2059.4 | 1898.4 | 1808.5 |
| 14079.7 | 47.5° | 13502.1 | 11603.7 | 6301.3 | 3569.6 | 2594.4 | 2390.8 | 2092.5 | 1936.3 | 1818.0 | 1765.9 |
| 16319.0 | 50°   | 15244.3 | 12844.0 | 6235.0 | 3105.7 | 2315.1 | 2173.0 | 1978.9 | 1860.6 | 1780.1 | 1718.5 |
| 18842.4 | 52.5° | 17488.4 | 14288.0 | 6102.5 | 2627.5 | 2073.6 | 1997.9 | 1936.3 | 1855.8 | 1784.8 | 1732.7 |
| 21195.3 | 55°   | 19633.0 | 15888.2 | 5960.4 | 2234.6 | 1903.2 | 1912.6 | 1945.8 | 1874.8 | 1813.2 | 1732.7 |
| 23832.3 | 57.5° | 22047.4 | 17521.5 | 5434.9 | 1945.8 | 1775.3 | 1870.0 | 1936.3 | 1855.8 | 1794.3 | 1732.7 |
| 26530.8 | 60°   | 23538.7 | 18439.9 | 4407.6 | 1694.9 | 1661.7 | 1789.5 | 1879.5 | 1794.3 | 1728.0 | 1751.7 |
| 27771.2 | 62.5° | 24144.7 | 17957.0 | 3323.4 | 1538.6 | 1581.2 | 1680.7 | 1789.5 | 1756.4 | 1709.1 | 1799.0 |
| 27757.0 | 65°   | 23112.7 | 16844.5 | 2376.6 | 1406.1 | 1472.4 | 1571.8 | 1709.1 | 1746.9 | 1761.1 | 1936.3 |
| 25494.0 | 67.5° | 20565.6 | 14666.7 | 1746.9 | 1297.2 | 1358.7 | 1505.5 | 1765.9 | 1827.4 | 1818.0 | 2035.7 |
| 21394.1 | 70°   | 16456.3 | 11471.1 | 1363.5 | 1207.2 | 1316.1 | 1557.6 | 1846.4 | 1846.4 | 1780.1 | 2035.7 |
| 16319.0 | 72.5° | 11972.9 | 8086.1  | 1174.1 | 1103.1 | 1207.2 | 1429.7 | 1836.9 | 1832.2 | 1746.9 | 1860.6 |
| 10391.7 | 75°   | 7248.2  | 4705.9  | 1036.8 | 998.9  | 1036.8 | 1226.2 | 1756.4 | 1728.0 | 1609.6 | 1600.2 |
| 4999.4  | 77.5° | 3612.2  | 2367.1  | 847.4  | 885.3  | 904.2  | 1027.3 | 1543.4 | 1586.0 | 1425.0 | 1387.1 |
| 1974.2  | 80°   | 1524.4  | 1032.1  | 705.4  | 762.2  | 762.2  | 866.4  | 1283.0 | 1311.4 | 1183.6 | 1112.6 |
| 781.2   | 82.5° | 695.9   | 591.8   | 601.3  | 662.8  | 620.2  | 672.3  | 1017.9 | 1051.0 | 961.1  | 842.7  |
| 331.4   | 85°   | 293.5   | 336.1   | 459.2  | 520.8  | 459.2  | 435.6  | 700.7  | 738.5  | 624.9  | 520.8  |
| 142.0   | 87.5° | 132.6   | 184.6   | 288.8  | 378.7  | 232.0  | 203.6  | 374.0  | 388.2  | 312.5  | 232.0  |
| 0.0     | 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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180°  
5430.2  
5425.5  
5624.3  
5823.1  
5813.7  
5662.2  
5562.8  
5458.6  
5240.8  
4961.5  
4658.5  
4213.5  
3725.9  
3238.2  
2788.5  
2452.3  
2187.2  
1950.5  
1827.4  
1756.4  
1728.0  
1728.0  
1728.0  
1728.0  
1732.7  
1775.3  
**1936.3**  
2049.9  
1993.1  
1794.3  
1581.2  
1363.5  
1088.9  
823.8  
525.5  
217.8  
0.0

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