

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: P477331

Luminaire Tested: **IFLD-L-SA8D-730-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477331  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-730-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

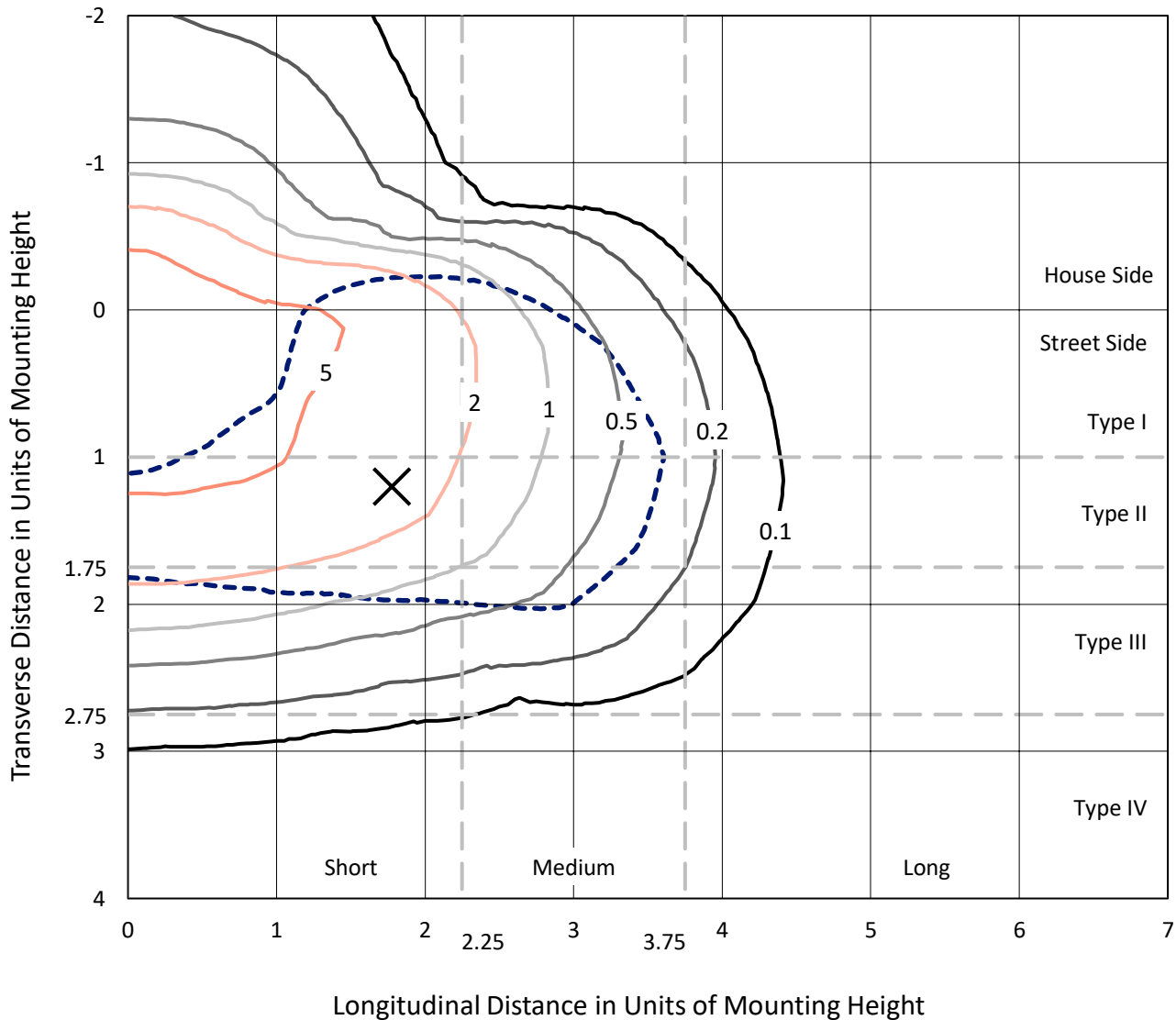
Lumens per Lamp: N/A  
Luminaire Lumens: 51704 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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

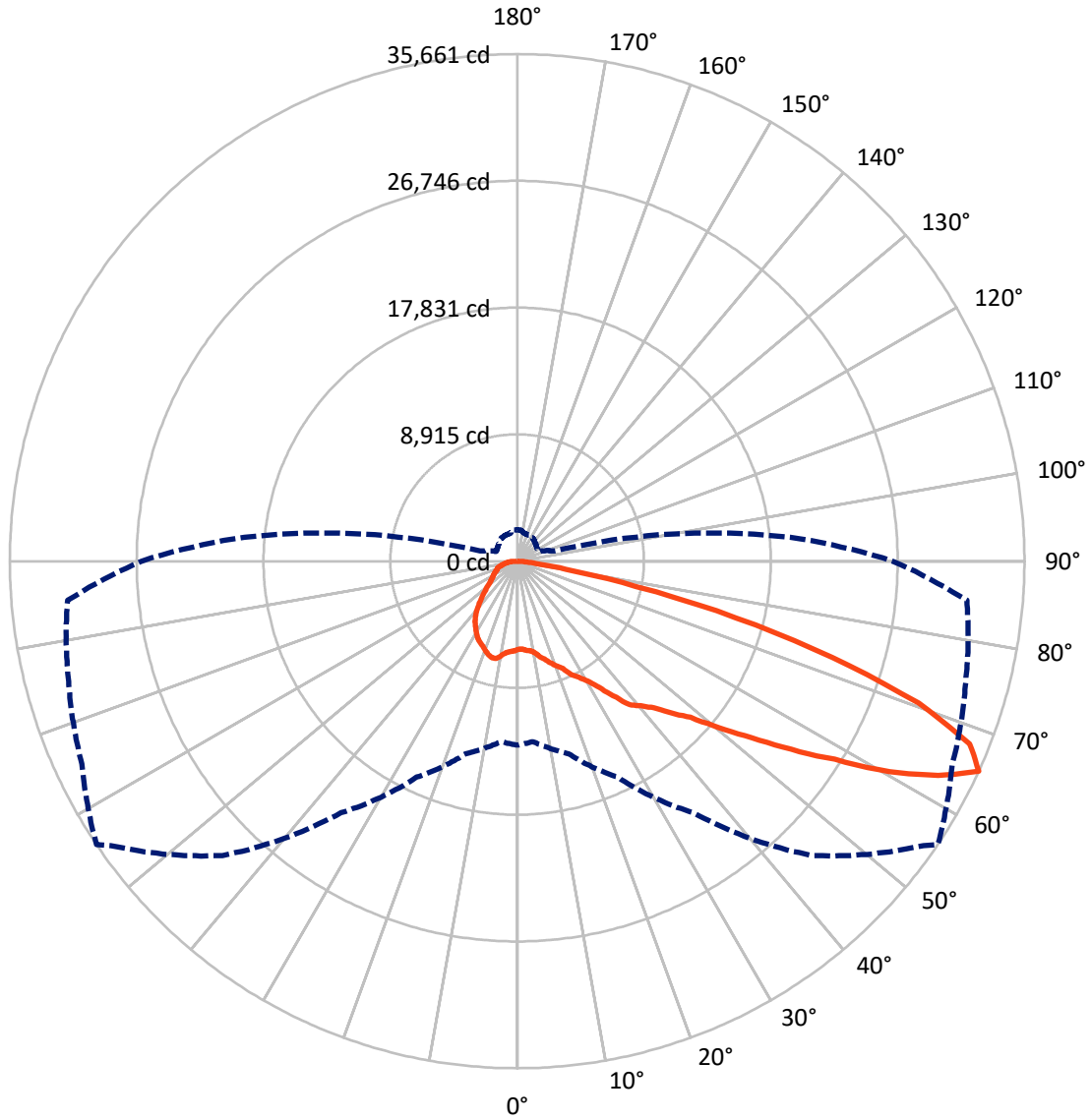
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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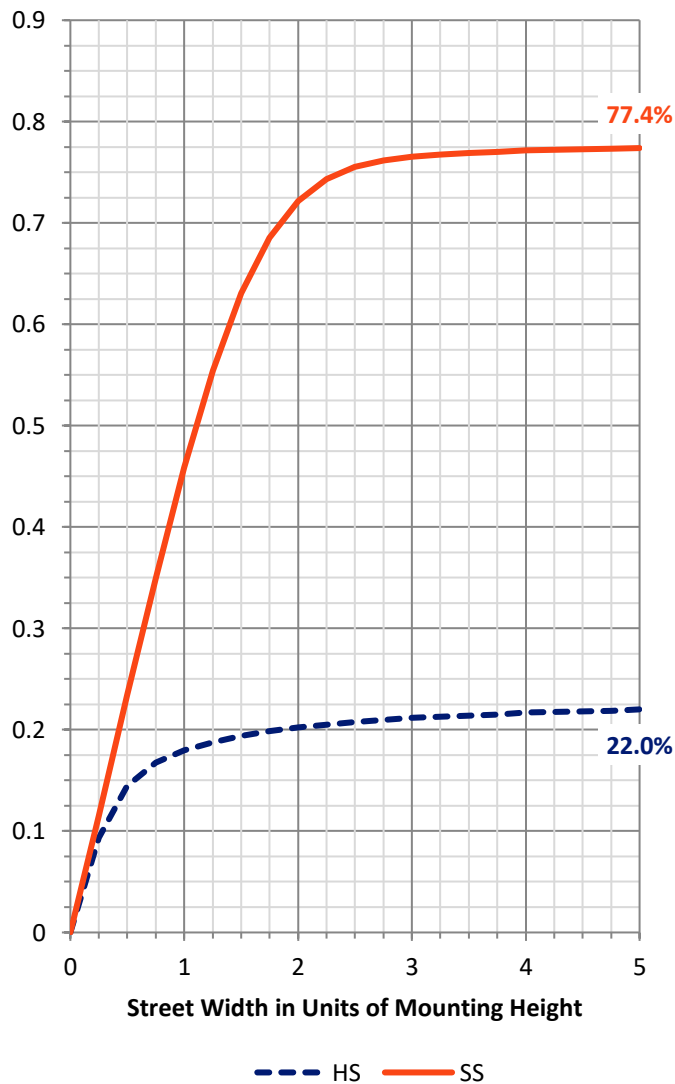
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11595.5  | 0.0    | 11595.5 |
|                    | % Fixture | 22.4     | 0.0    | 22.4    |
| <b>Street Side</b> | Lumens    | 40108.4  | 0.0    | 40108.4 |
|                    | % Fixture | 77.6     | 0.0    | 77.6    |
| <b>Total</b>       | Lumens    | 51704.0  | 0.0    | 51704.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 615.0   | 1.2       |
| 10°-20°   | 1997.0  | 3.9       |
| 20°-30°   | 3555.7  | 6.9       |
| 30°-40°   | 5324.5  | 10.3      |
| 40°-50°   | 7889.0  | 15.3      |
| 50°-60°   | 12155.8 | 23.5      |
| 60°-70°   | 13761.9 | 26.6      |
| 70°-80°   | 5711.3  | 11.0      |
| 80°-90°   | 693.9   | 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°    | 51704.0 | 100.0     |
| 0°-180°   | 51704.0 | 100.0     |

**Coefficient of Utilization**

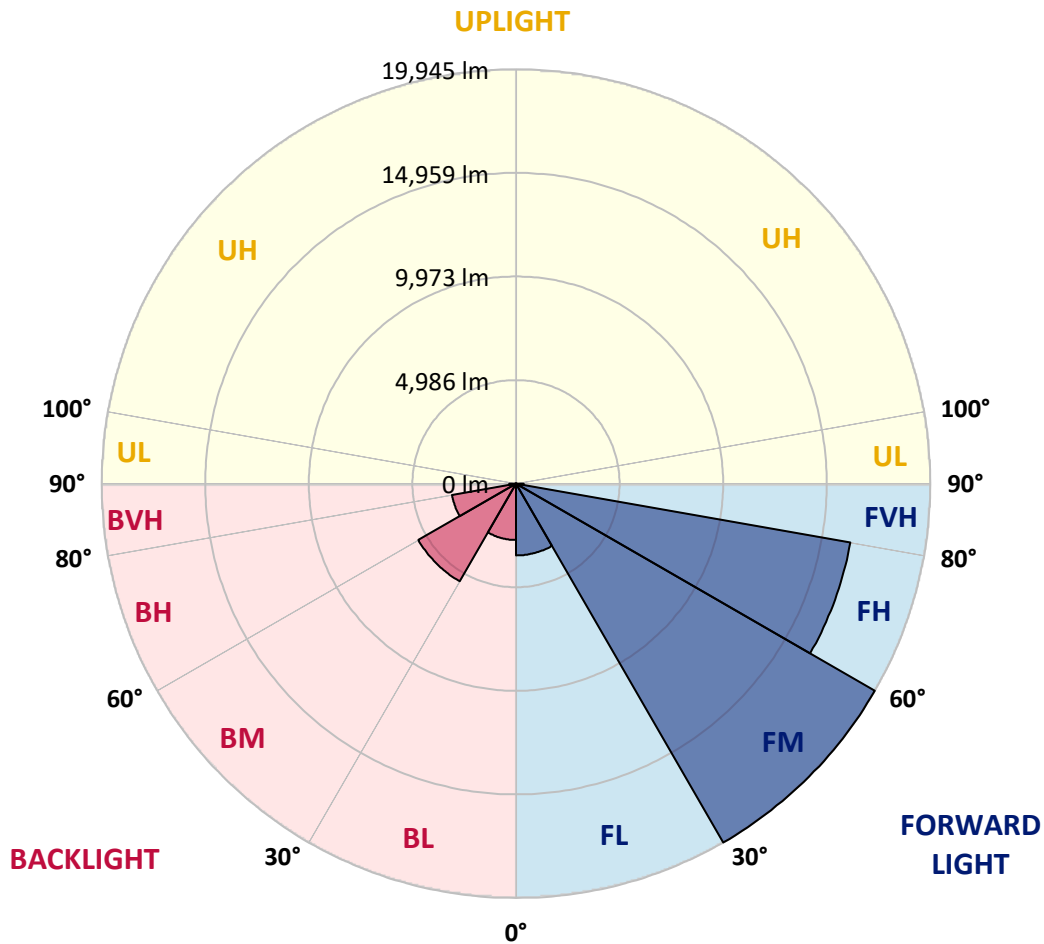


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3455.3  | 6.7       |                         |      |         |
| FM (30°-60°)   | 19945.1 | 38.6      |                         |      |         |
| FH (60°-80°)   | 16342.0 | 31.6      |                         |      | G5      |
| FVH (80°-90°)  | 366.0   | 0.7       |                         |      | G3/500  |
| BL (0°-30°)    | 2712.3  | 5.2       | B4/5000                 |      |         |
| BM (30°-60°)   | 5424.2  | 10.5      | B4/8500                 |      |         |
| BH (60°-80°)   | 3131.2  | 6.1       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 327.9   | 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°    | 6206.0  | 6206.0  | 6206.0  | 6206.0  | 6206.0  | 6206.0  | 6206.0  | 6206.0  | 6206.0  | 6206.0  |
| 2.5°  | 6043.6  | 6076.1  | 6054.5  | 6119.4  | 6173.5  | 6173.5  | 6216.8  | 6184.3  | 6227.6  | 6287.1  |
| 5°    | 6243.8  | 6114.0  | 6184.3  | 6216.8  | 6200.5  | 6227.6  | 6184.3  | 6292.5  | 6222.2  | 6335.8  |
| 7.5°  | 6292.5  | 6341.2  | 6400.7  | 6346.6  | 6395.3  | 6368.3  | 6373.7  | 6357.4  | 6319.6  | 6411.6  |
| 10°   | 6649.6  | 6579.3  | 6714.5  | 6633.4  | 6622.6  | 6611.7  | 6590.1  | 6508.9  | 6600.9  | 6606.3  |
| 12.5° | 7060.8  | 6995.9  | 6990.5  | 6925.6  | 7012.1  | 6855.2  | 6887.7  | 6844.4  | 6860.6  | 6882.3  |
| 15°   | 7358.4  | 7331.4  | 7455.8  | 7380.1  | 7266.4  | 7196.1  | 7271.8  | 7152.8  | 7212.3  | 7201.5  |
| 17.5° | 7948.2  | 7942.8  | 7850.8  | 7726.3  | 7661.4  | 7558.6  | 7542.4  | 7493.7  | 7537.0  | 7515.3  |
| 20°   | 8359.4  | 8418.9  | 8435.1  | 8289.0  | 8040.1  | 7926.5  | 7899.5  | 7861.6  | 7910.3  | 7894.1  |
| 22.5° | 8987.0  | 8895.0  | 8965.4  | 8711.1  | 8619.1  | 8348.5  | 8251.2  | 8197.1  | 8429.7  | 8370.2  |
| 25°   | 9387.4  | 9484.8  | 9414.4  | 9327.9  | 9122.3  | 8786.8  | 8716.5  | 8835.5  | 8927.5  | 8862.6  |
| 27.5° | 10291.0 | 10193.6 | 10128.6 | 9868.9  | 9733.7  | 9382.0  | 9300.8  | 9257.5  | 9279.2  | 9317.0  |
| 30°   | 10978.1 | 11032.2 | 10886.1 | 10702.2 | 10361.3 | 10004.2 | 9814.8  | 9776.9  | 9701.2  | 9636.3  |
| 32.5° | 11957.4 | 11876.3 | 11789.7 | 11670.7 | 11378.5 | 10907.8 | 10723.8 | 10583.1 | 10355.9 | 10052.9 |
| 35°   | 12428.1 | 12660.8 | 12595.9 | 12276.6 | 12054.8 | 11876.3 | 11822.2 | 11605.7 | 11416.4 | 10940.2 |
| 37.5° | 13212.7 | 13310.1 | 13218.1 | 13115.3 | 13012.5 | 12823.1 | 12758.2 | 12817.7 | 12444.4 | 11659.8 |
| 40°   | 13721.3 | 13926.9 | 14116.2 | 13829.5 | 13807.8 | 13845.7 | 13445.3 | 13375.0 | 12606.7 | 12195.5 |
| 42.5° | 14760.1 | 14846.7 | 14884.5 | 14873.7 | 14998.2 | 14998.2 | 14235.3 | 14083.8 | 13537.3 | 13201.9 |
| 45°   | 16134.4 | 16204.7 | 16340.0 | 16437.4 | 16296.7 | 16367.0 | 15279.5 | 15220.0 | 14733.1 | 14668.1 |
| 47.5° | 17324.7 | 17492.5 | 17795.4 | 18082.2 | 18266.2 | 18028.1 | 16837.8 | 16415.7 | 16291.3 | 16680.9 |
| 50°   | 18363.6 | 18163.4 | 18872.2 | 19164.3 | 19970.5 | 20365.5 | 18558.3 | 18390.6 | 18190.4 | 18937.1 |
| 52.5° | 18466.4 | 18736.9 | 19737.9 | 20322.2 | 21983.2 | 22713.7 | 20668.5 | 20598.1 | 20354.7 | 21214.9 |
| 55°   | 19202.2 | 19169.7 | 20176.1 | 21442.2 | 23417.1 | 24645.3 | 23417.1 | 23373.8 | 22843.5 | 23660.5 |
| 57.5° | 19077.8 | 19407.8 | 20203.2 | 21972.4 | 24710.2 | 26717.5 | 26603.9 | 26306.3 | 25565.1 | 26230.6 |
| 60°   | 18655.7 | 18742.3 | 19710.8 | 21956.2 | 25462.3 | 28843.9 | 30045.0 | 30104.6 | 28589.6 | 29119.8 |
| 62.5° | 16264.2 | 16464.4 | 17692.6 | 20230.2 | 24926.6 | 30310.2 | 33405.0 | 33194.0 | 31982.0 | 31376.0 |
| 65°   | 12936.7 | 12736.5 | 14013.4 | 16756.6 | 21593.7 | 29271.3 | 34876.7 | 35661.2 | 33756.7 | 32647.5 |
| 67.5° | 7931.9  | 7883.2  | 9111.4  | 11530.0 | 16156.0 | 24910.4 | 33702.6 | 34314.0 | 33264.3 | 32377.0 |
| 70°   | 4085.0  | 3960.6  | 4728.9  | 6433.2  | 10155.7 | 18277.0 | 29330.8 | 29931.4 | 30932.4 | 29038.7 |
| 72.5° | 1904.5  | 1877.5  | 2288.7  | 3165.2  | 5172.5  | 10745.4 | 22713.7 | 23146.5 | 25256.7 | 24482.9 |
| 75°   | 1120.0  | 1136.2  | 1368.9  | 1655.6  | 2521.3  | 5064.3  | 15073.9 | 15912.6 | 18201.2 | 17644.0 |
| 77.5° | 838.6   | 838.6   | 973.9   | 1152.5  | 1471.7  | 1958.6  | 7439.6  | 8548.7  | 10642.6 | 9571.3  |
| 80°   | 616.8   | 627.6   | 746.7   | 865.7   | 1022.6  | 1011.8  | 2954.2  | 3462.8  | 4880.4  | 4171.6  |
| 82.5° | 481.5   | 497.8   | 578.9   | 643.9   | 719.6   | 611.4   | 1212.0  | 1304.0  | 2007.3  | 1596.1  |
| 85°   | 335.5   | 346.3   | 454.5   | 438.3   | 438.3   | 340.9   | 503.2   | 530.2   | 795.4   | 757.5   |
| 87.5° | 81.2    | 92.0    | 221.8   | 243.5   | 184.0   | 102.8   | 156.9   | 178.5   | 286.8   | 330.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6206.0  | 0°    | 6206.0  | 6206.0  | 6206.0 | 6206.0 | 6206.0 | 6206.0 | 6206.0 | 6206.0 | 6206.0 | 6206.0 |
| 6314.2  | 2.5°  | 6233.0  | 6254.6  | 6346.6 | 6297.9 | 6325.0 | 6211.4 | 6303.3 | 6227.6 | 6292.5 | 6260.1 |
| 6362.9  | 5°    | 6406.1  | 6357.4  | 6411.6 | 6373.7 | 6373.7 | 6417.0 | 6481.9 | 6433.2 | 6530.6 | 6487.3 |
| 6400.7  | 7.5°  | 6476.5  | 6481.9  | 6514.4 | 6519.8 | 6492.7 | 6628.0 | 6633.4 | 6617.2 | 6709.1 | 6687.5 |
| 6660.4  | 10°   | 6649.6  | 6655.0  | 6714.5 | 6747.0 | 6720.0 | 6768.7 | 6714.5 | 6671.3 | 6665.9 | 6644.2 |
| 6866.0  | 12.5° | 6925.6  | 6979.7  | 6968.8 | 6995.9 | 7001.3 | 6795.7 | 6671.3 | 6460.3 | 6433.2 | 6460.3 |
| 7169.0  | 15°   | 7179.9  | 7158.2  | 7169.0 | 7223.1 | 6995.9 | 6665.9 | 6444.0 | 6265.5 | 6276.3 | 6281.7 |
| 7564.0  | 17.5° | 7482.9  | 7499.1  | 7515.3 | 7266.4 | 6849.8 | 6460.3 | 6265.5 | 6265.5 | 6211.4 | 6233.0 |
| 7840.0  | 20°   | 7829.1  | 7764.2  | 7623.5 | 7271.8 | 6595.5 | 6222.2 | 6162.7 | 6162.7 | 6097.7 | 6054.5 |
| 8137.5  | 22.5° | 8099.7  | 7969.8  | 7758.8 | 7104.1 | 6368.3 | 6130.2 | 5984.1 | 5881.3 | 5805.6 | 5719.0 |
| 8467.6  | 25°   | 8272.8  | 8202.5  | 7791.3 | 6931.0 | 6200.5 | 5886.7 | 5670.3 | 5513.4 | 5416.0 | 5302.4 |
| 8727.3  | 27.5° | 8537.9  | 8402.7  | 7883.2 | 6730.8 | 6016.6 | 5643.3 | 5307.8 | 5064.3 | 4880.4 | 4761.3 |
| 9122.3  | 30°   | 8895.0  | 8700.2  | 7818.3 | 6444.0 | 5735.2 | 5221.2 | 4826.3 | 4512.4 | 4301.4 | 4204.0 |
| 9495.6  | 32.5° | 9187.2  | 8932.9  | 7764.2 | 6184.3 | 5421.4 | 4793.8 | 4269.0 | 3949.7 | 3830.7 | 3706.3 |
| 10123.2 | 35°   | 9744.5  | 9241.3  | 7726.3 | 6038.2 | 5140.1 | 4366.4 | 3814.5 | 3538.5 | 3387.0 | 3203.1 |
| 10496.6 | 37.5° | 10171.9 | 9776.9  | 7634.3 | 5735.2 | 4777.6 | 3949.7 | 3468.2 | 3219.3 | 2992.1 | 2797.3 |
| 11362.2 | 40°   | 10842.8 | 10523.6 | 7639.8 | 5307.8 | 4350.1 | 3592.6 | 3197.7 | 2938.0 | 2651.2 | 2483.5 |
| 12644.6 | 42.5° | 12103.5 | 11259.4 | 7672.2 | 4966.9 | 3868.6 | 3300.5 | 2954.2 | 2645.8 | 2359.0 | 2218.3 |
| 14105.4 | 45°   | 13650.9 | 12271.2 | 7472.0 | 4658.5 | 3376.2 | 3024.5 | 2662.0 | 2353.6 | 2169.6 | 2066.8 |
| 16091.1 | 47.5° | 15431.0 | 13261.4 | 7201.5 | 4079.6 | 2965.0 | 2732.4 | 2391.5 | 2212.9 | 2077.7 | 2018.2 |
| 18650.3 | 50°   | 17422.1 | 14678.9 | 7125.8 | 3549.4 | 2645.8 | 2483.5 | 2261.6 | 2126.4 | 2034.4 | 1964.0 |
| 21534.2 | 52.5° | 19986.7 | 16329.2 | 6974.3 | 3002.9 | 2369.8 | 2283.3 | 2212.9 | 2121.0 | 2039.8 | 1980.3 |
| 24223.2 | 55°   | 22437.7 | 18158.0 | 6811.9 | 2553.8 | 2175.1 | 2185.9 | 2223.8 | 2142.6 | 2072.3 | 1980.3 |
| 27236.9 | 57.5° | 25197.1 | 20024.6 | 6211.4 | 2223.8 | 2029.0 | 2137.2 | 2212.9 | 2121.0 | 2050.6 | 1980.3 |
| 30321.0 | 60°   | 26901.5 | 21074.3 | 5037.3 | 1937.0 | 1899.1 | 2045.2 | 2148.0 | 2050.6 | 1974.9 | 2001.9 |
| 31738.6 | 62.5° | 27594.0 | 20522.4 | 3798.2 | 1758.4 | 1807.1 | 1920.8 | 2045.2 | 2007.3 | 1953.2 | 2056.0 |
| 31722.3 | 65°   | 26414.5 | 19250.9 | 2716.1 | 1606.9 | 1682.7 | 1796.3 | 1953.2 | 1996.5 | 2012.7 | 2212.9 |
| 29136.1 | 67.5° | 23503.6 | 16762.0 | 1996.5 | 1482.5 | 1552.8 | 1720.6 | 2018.2 | 2088.5 | 2077.7 | 2326.6 |
| 24450.5 | 70°   | 18807.2 | 13109.9 | 1558.3 | 1379.7 | 1504.1 | 1780.1 | 2110.1 | 2110.1 | 2034.4 | 2326.6 |
| 18650.3 | 72.5° | 13683.4 | 9241.3  | 1341.8 | 1260.7 | 1379.7 | 1634.0 | 2099.3 | 2093.9 | 1996.5 | 2126.4 |
| 11876.3 | 75°   | 8283.6  | 5378.1  | 1184.9 | 1141.6 | 1184.9 | 1401.3 | 2007.3 | 1974.9 | 1839.6 | 1828.8 |
| 5713.6  | 77.5° | 4128.3  | 2705.3  | 968.5  | 1011.8 | 1033.4 | 1174.1 | 1763.9 | 1812.5 | 1628.6 | 1585.3 |
| 2256.2  | 80°   | 1742.2  | 1179.5  | 806.2  | 871.1  | 871.1  | 990.1  | 1466.3 | 1498.7 | 1352.6 | 1271.5 |
| 892.7   | 82.5° | 795.4   | 676.3   | 687.1  | 757.5  | 708.8  | 768.3  | 1163.3 | 1201.2 | 1098.4 | 963.1  |
| 378.7   | 85°   | 335.5   | 384.2   | 524.8  | 595.2  | 524.8  | 497.8  | 800.8  | 844.1  | 714.2  | 595.2  |
| 162.3   | 87.5° | 151.5   | 211.0   | 330.0  | 432.8  | 265.1  | 232.7  | 427.4  | 443.7  | 357.1  | 265.1  |
| 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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| <u>180°</u> |
|-------------|
| 6206.0      |
| 6200.5      |
| 6427.8      |
| 6655.0      |
| 6644.2      |
| 6471.1      |
| 6357.4      |
| 6238.4      |
| 5989.5      |
| 5670.3      |
| 5324.0      |
| 4815.4      |
| 4258.1      |
| 3700.8      |
| 3186.8      |
| 2802.7      |
| 2499.7      |
| 2229.2      |
| 2088.5      |
| 2007.3      |
| 1974.9      |
| 1974.9      |
| 1974.9      |
| 1974.9      |
| 1980.3      |
| 2029.0      |
| 2212.9      |
| 2342.8      |
| 2277.9      |
| 2050.6      |
| 1807.1      |
| 1558.3      |
| 1244.4      |
| 941.4       |
| 600.6       |
| 248.9       |
| 0.0         |

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