

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: P478182

Luminaire Tested: **IFLD-L-SA7B-740-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478182  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

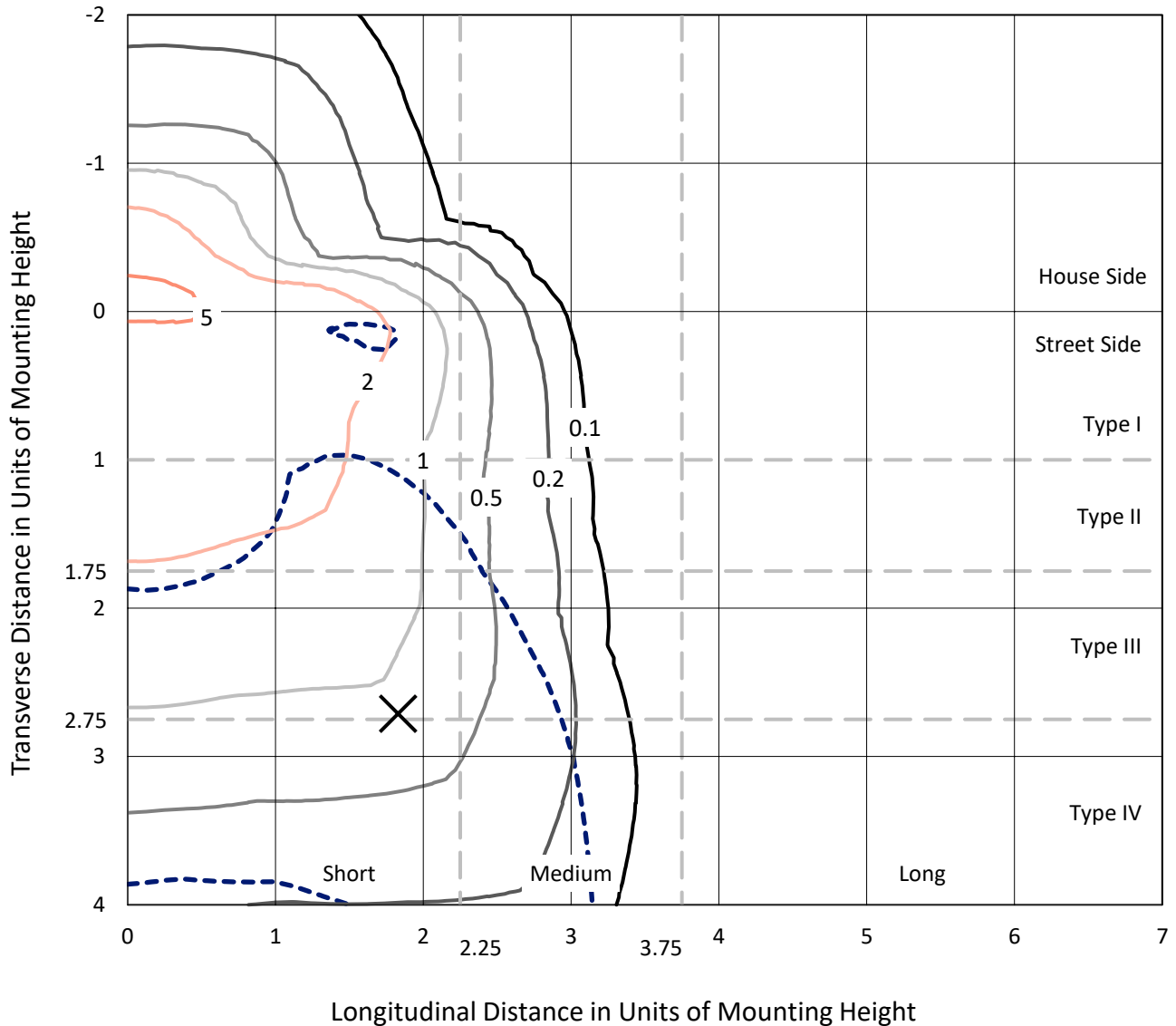
Lumens per Lamp: N/A  
Luminaire Lumens: 36484.3 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
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

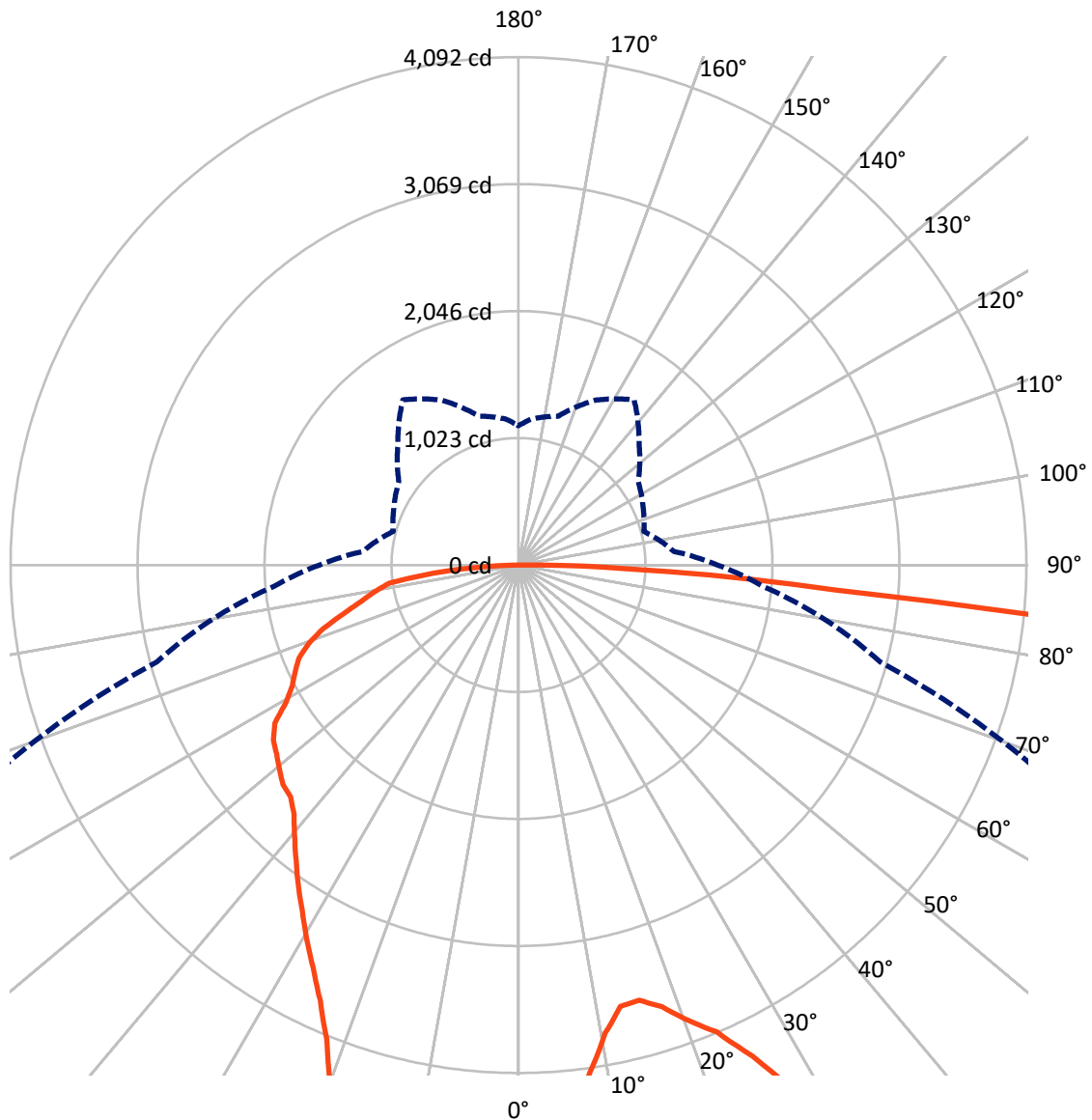
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7881.1   | 0.0    | 7881.1  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 28603.2  | 0.0    | 28603.2 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 36484.3  | 0.0    | 36484.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 482.8   | 1.3       |
| 10°-20°   | 1351.0  | 3.7       |
| 20°-30°   | 2223.6  | 6.1       |
| 30°-40°   | 3325.4  | 9.1       |
| 40°-50°   | 4929.8  | 13.5      |
| 50°-60°   | 7104.3  | 19.5      |
| 60°-70°   | 9066.0  | 24.8      |
| 70°-80°   | 7054.9  | 19.3      |
| 80°-90°   | 946.5   | 2.6       |
| 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°    | 36484.3 | 100.0     |
| 0°-180°   | 36484.3 | 100.0     |

**Coefficient of Utilization**



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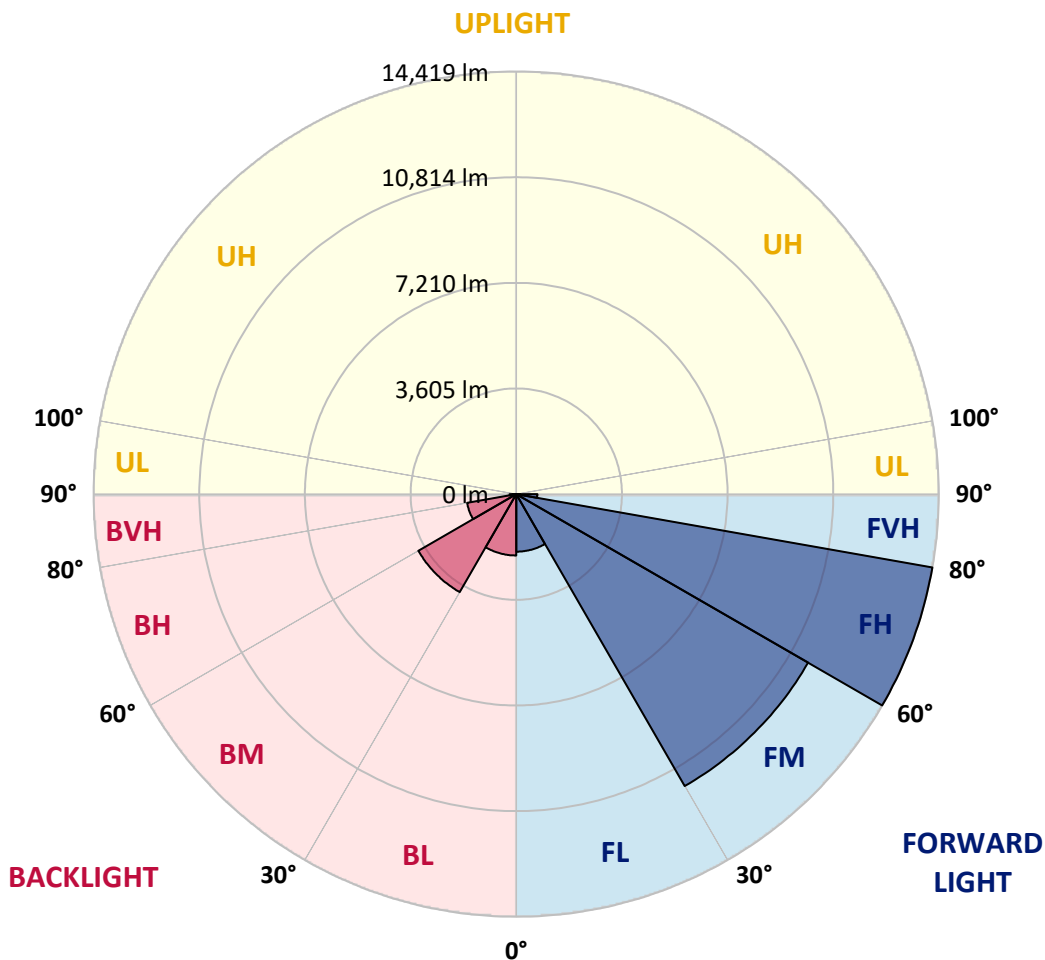
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1963.5  | 5.4       |                         |      |         |
| FM (30°-60°)   | 11500.1 | 31.5      |                         |      |         |
| FH (60°-80°)   | 14419.2 | 39.5      |                         |      | G5      |
| FVH (80°-90°)  | 720.4   | 2.0       |                         |      | G4/750  |
| BL (0°-30°)    | 2093.9  | 5.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 3859.4  | 10.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 1701.7  | 4.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 226.0   | 0.6       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5230.6  | 5230.6  | 5230.6  | 5230.6  | 5230.6  | 5230.6  | 5230.6  | 5230.6  | 5230.6  | 5230.6  | 5230.6  |
| 2.5°  | 4686.7  | 4702.1  | 4752.3  | 4763.9  | 4817.9  | 4787.0  | 4852.6  | 4968.3  | 5033.9  | 5130.3  | 5246.0  |
| 5°    | 4316.4  | 4250.8  | 4281.7  | 4401.3  | 4463.0  | 4478.4  | 4547.8  | 4744.6  | 4868.0  | 5010.7  | 5226.7  |
| 7.5°  | 3880.5  | 3868.9  | 3930.7  | 4007.8  | 4131.2  | 4142.8  | 4297.1  | 4470.7  | 4725.3  | 5041.6  | 5296.2  |
| 10°   | 3583.5  | 3633.6  | 3668.4  | 3749.4  | 3834.2  | 3834.2  | 4031.0  | 4331.8  | 4621.1  | 4925.9  | 5311.6  |
| 12.5° | 3568.1  | 3537.2  | 3544.9  | 3587.4  | 3649.1  | 3726.2  | 3911.4  | 4181.4  | 4547.8  | 4902.7  | 5377.2  |
| 15°   | 3618.2  | 3629.8  | 3560.4  | 3614.4  | 3637.5  | 3664.5  | 3868.9  | 4173.7  | 4501.6  | 4983.7  | 5489.0  |
| 17.5° | 3884.4  | 3818.8  | 3710.8  | 3660.6  | 3741.6  | 3741.6  | 3880.5  | 4119.7  | 4509.3  | 5026.2  | 5651.0  |
| 20°   | 4092.7  | 4092.7  | 3915.2  | 3861.2  | 3919.1  | 3907.5  | 4003.9  | 4181.4  | 4547.8  | 5111.0  | 5832.3  |
| 22.5° | 4443.7  | 4493.8  | 4200.7  | 4088.8  | 4085.0  | 4115.8  | 4200.7  | 4351.1  | 4655.8  | 5230.6  | 6005.9  |
| 25°   | 4949.0  | 4960.6  | 4621.1  | 4505.4  | 4382.0  | 4432.1  | 4447.5  | 4598.0  | 4752.3  | 5369.5  | 6202.7  |
| 27.5° | 5512.2  | 5504.5  | 5192.0  | 4902.7  | 4821.7  | 4833.3  | 4748.4  | 4848.7  | 4895.0  | 5411.9  | 6484.2  |
| 30°   | 6137.1  | 6067.6  | 5832.3  | 5423.5  | 5357.9  | 5284.6  | 5099.4  | 5095.6  | 5192.0  | 5651.0  | 6873.8  |
| 32.5° | 6546.0  | 6457.2  | 6295.2  | 6002.1  | 5820.8  | 5828.5  | 5535.3  | 5531.5  | 5446.6  | 5913.3  | 7213.3  |
| 35°   | 6947.1  | 6812.1  | 6769.7  | 6468.8  | 6287.5  | 6306.8  | 6071.5  | 6040.6  | 5886.3  | 6310.7  | 7772.6  |
| 37.5° | 7429.3  | 7309.7  | 7375.3  | 7147.7  | 6924.0  | 6831.4  | 6723.4  | 6684.8  | 6484.2  | 6870.0  | 8536.4  |
| 40°   | 7961.6  | 7923.0  | 7880.6  | 7768.7  | 7633.7  | 7641.4  | 7525.7  | 7487.2  | 7190.1  | 7545.0  | 9269.3  |
| 42.5° | 8679.1  | 8532.5  | 8312.6  | 8385.9  | 8455.4  | 8528.6  | 8490.1  | 8389.8  | 8081.2  | 8231.6  | 10087.0 |
| 45°   | 9346.4  | 9153.5  | 8748.5  | 8771.7  | 9057.1  | 9115.0  | 9581.7  | 9570.1  | 8949.1  | 9103.4  | 11016.6 |
| 47.5° | 9797.7  | 9709.0  | 9466.0  | 9439.0  | 9847.9  | 9844.0  | 10684.9 | 10684.9 | 9863.3  | 9971.3  | 12015.7 |
| 50°   | 10468.9 | 10237.5 | 10133.3 | 10268.3 | 10476.6 | 10619.3 | 11811.3 | 11884.6 | 10762.1 | 10877.8 | 13323.4 |
| 52.5° | 11255.8 | 10966.5 | 10704.2 | 11051.4 | 11421.7 | 11514.2 | 12926.0 | 12895.2 | 11452.5 | 11930.8 | 14854.7 |
| 55°   | 11907.7 | 11761.1 | 11579.8 | 11780.4 | 12386.0 | 12501.7 | 14044.7 | 13759.2 | 12143.0 | 12802.6 | 15591.5 |
| 57.5° | 12667.6 | 12756.3 | 12794.9 | 12744.7 | 13466.1 | 13647.4 | 15321.5 | 14503.7 | 12737.0 | 13388.9 | 16023.5 |
| 60°   | 13813.2 | 13867.2 | 13917.4 | 14037.0 | 14800.7 | 15055.3 | 16332.1 | 15437.2 | 13111.2 | 13728.4 | 16058.2 |
| 62.5° | 15556.8 | 15348.5 | 15460.3 | 15873.1 | 16486.4 | 16775.7 | 17821.0 | 16092.9 | 13396.6 | 13932.8 | 14924.2 |
| 65°   | 17551.0 | 17269.4 | 17153.7 | 17686.0 | 19275.3 | 19043.8 | 19680.3 | 16582.8 | 12983.9 | 13169.1 | 12656.0 |
| 67.5° | 19572.3 | 19603.2 | 19306.1 | 20374.6 | 22322.6 | 22322.6 | 21408.4 | 16818.1 | 11865.3 | 10673.3 | 8875.8  |
| 70°   | 21177.0 | 21273.4 | 21435.4 | 23506.8 | 26592.7 | 27059.4 | 23549.2 | 15853.8 | 9585.6  | 7105.3  | 4852.6  |
| 72.5° | 21153.8 | 20864.5 | 21693.8 | 25508.8 | 30473.2 | 30083.6 | 23996.7 | 12536.5 | 5982.8  | 3479.3  | 2225.7  |
| 73°   | 20679.4 | 20436.3 | 21342.8 | 25489.5 | 30631.4 | 30264.9 | 23668.8 | 11556.7 | 5276.9  | 3016.5  | 1978.8  |
| 75°   | 16887.6 | 16447.8 | 17990.8 | 23086.4 | 28340.1 | 28621.7 | 20108.5 | 7537.3  | 2893.0  | 1859.3  | 1392.5  |
| 77.5° | 7699.3  | 7892.2  | 9901.9  | 15487.3 | 21840.4 | 22172.2 | 13219.2 | 3259.5  | 1585.4  | 1303.8  | 1026.1  |
| 80°   | 2472.6  | 2596.0  | 3853.5  | 7699.3  | 13689.8 | 14287.7 | 6110.1  | 1481.2  | 1130.2  | 999.1   | 767.6   |
| 82.5° | 945.1   | 941.2   | 1616.2  | 3201.6  | 6488.1  | 6870.0  | 2233.4  | 902.6   | 840.9   | 736.8   | 543.9   |
| 85°   | 331.7   | 347.2   | 609.5   | 1265.2  | 2553.6  | 2673.2  | 775.3   | 501.5   | 582.5   | 493.7   | 312.4   |
| 87.5° | 115.7   | 119.6   | 216.0   | 459.0   | 879.5   | 929.6   | 216.0   | 200.6   | 289.3   | 285.4   | 158.2   |
| 90°   | 0.0     | 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°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5230.6  | 5230.6  | 5230.6 | 5230.6 | 5230.6 | 5230.6 | 5230.6 | 5230.6 | 5230.6 | 5230.6 | 5230.6 |
| 2.5°  | 5284.6  | 5319.3  | 5330.9 | 5469.7 | 5469.7 | 5469.7 | 5523.8 | 5523.8 | 5508.3 | 5469.7 | 5562.3 |
| 5°    | 5307.7  | 5369.5  | 5489.0 | 5608.6 | 5639.5 | 5666.5 | 5739.8 | 5678.0 | 5701.2 | 5662.6 | 5697.3 |
| 7.5°  | 5373.3  | 5458.2  | 5681.9 | 5755.2 | 5705.0 | 5762.9 | 5685.8 | 5643.3 | 5600.9 | 5616.3 | 5562.3 |
| 10°   | 5485.2  | 5593.2  | 5697.3 | 5832.3 | 5735.9 | 5678.0 | 5519.9 | 5481.3 | 5346.3 | 5300.0 | 5342.5 |
| 12.5° | 5624.0  | 5755.2  | 5932.6 | 5882.5 | 5697.3 | 5531.5 | 5361.7 | 5199.7 | 5118.7 | 5003.0 | 5033.9 |
| 15°   | 5762.9  | 5913.3  | 5940.3 | 5855.5 | 5624.0 | 5415.7 | 5107.2 | 4879.6 | 4798.6 | 4694.4 | 4748.4 |
| 17.5° | 5913.3  | 6056.1  | 6009.8 | 5789.9 | 5477.5 | 5161.2 | 4810.1 | 4586.4 | 4416.7 | 4351.1 | 4351.1 |
| 20°   | 6137.1  | 6206.5  | 6133.2 | 5681.9 | 5300.0 | 4883.4 | 4544.0 | 4289.4 | 4119.7 | 4092.7 | 4050.2 |
| 22.5° | 6310.7  | 6422.5  | 6094.6 | 5523.8 | 5041.6 | 4520.8 | 4131.2 | 4034.8 | 3984.7 | 3942.2 | 3888.2 |
| 25°   | 6534.4  | 6530.5  | 6025.2 | 5377.2 | 4598.0 | 4088.8 | 3853.5 | 3845.8 | 3822.7 | 3807.2 | 3880.5 |
| 27.5° | 6746.5  | 6657.8  | 5944.2 | 5014.6 | 4139.0 | 3760.9 | 3633.6 | 3718.5 | 3753.2 | 3730.1 | 3760.9 |
| 30°   | 7082.1  | 6935.6  | 5828.5 | 4628.8 | 3733.9 | 3429.2 | 3452.3 | 3568.1 | 3625.9 | 3660.6 | 3614.4 |
| 32.5° | 7437.0  | 7213.3  | 5589.3 | 4227.7 | 3375.2 | 3220.9 | 3274.9 | 3394.5 | 3463.9 | 3502.5 | 3544.9 |
| 35°   | 7950.0  | 7429.3  | 5346.3 | 3703.1 | 3116.8 | 3093.6 | 3124.5 | 3190.0 | 3290.3 | 3317.3 | 3328.9 |
| 37.5° | 8582.6  | 7757.2  | 5018.4 | 3282.6 | 2916.2 | 2943.2 | 2974.0 | 2997.2 | 3001.0 | 3051.2 | 3031.9 |
| 40°   | 9215.3  | 8034.9  | 4540.1 | 2881.5 | 2707.9 | 2854.5 | 2839.0 | 2796.6 | 2761.9 | 2715.6 | 2704.0 |
| 42.5° | 9770.7  | 8277.9  | 4007.8 | 2542.0 | 2522.7 | 2761.9 | 2711.7 | 2603.7 | 2522.7 | 2488.0 | 2430.1 |
| 45°   | 10395.6 | 8621.2  | 3471.6 | 2329.9 | 2380.0 | 2650.0 | 2634.6 | 2468.7 | 2364.6 | 2241.1 | 2225.7 |
| 47.5° | 11205.7 | 8980.0  | 2958.6 | 2110.0 | 2245.0 | 2607.6 | 2615.3 | 2403.1 | 2252.7 | 2086.8 | 2063.7 |
| 50°   | 12243.3 | 9496.8  | 2569.0 | 2017.4 | 2164.0 | 2545.9 | 2557.4 | 2314.4 | 2117.7 | 1948.0 | 1932.5 |
| 52.5° | 13238.5 | 10025.3 | 2245.0 | 1874.7 | 2110.0 | 2472.6 | 2499.6 | 2233.4 | 2005.8 | 1793.7 | 1805.2 |
| 55°   | 13739.9 | 9832.4  | 1967.3 | 1770.5 | 1986.5 | 2353.0 | 2453.3 | 2175.6 | 1836.1 | 1689.5 | 1685.7 |
| 57.5° | 13851.8 | 9358.0  | 1747.4 | 1662.5 | 1882.4 | 2225.7 | 2376.1 | 2002.0 | 1759.0 | 1635.5 | 1620.1 |
| 60°   | 13485.4 | 8528.6  | 1573.8 | 1546.8 | 1751.2 | 2094.6 | 2198.7 | 1909.4 | 1681.8 | 1581.5 | 1558.4 |
| 62.5° | 12582.7 | 7668.5  | 1454.2 | 1492.8 | 1639.4 | 1951.8 | 2086.8 | 1843.8 | 1608.5 | 1539.1 | 1488.9 |
| 65°   | 10318.5 | 6306.8  | 1357.8 | 1388.7 | 1523.7 | 1813.0 | 2017.4 | 1770.5 | 1542.9 | 1477.4 | 1473.5 |
| 67.5° | 7147.7  | 4347.3  | 1280.6 | 1338.5 | 1431.1 | 1712.7 | 1948.0 | 1689.5 | 1458.1 | 1434.9 | 1404.1 |
| 70°   | 3660.6  | 2318.3  | 1180.4 | 1226.6 | 1330.8 | 1585.4 | 1824.5 | 1604.7 | 1369.4 | 1365.5 | 1326.9 |
| 72.5° | 1855.4  | 1357.8  | 1064.6 | 1134.1 | 1207.4 | 1419.5 | 1670.2 | 1492.8 | 1257.5 | 1215.1 | 1153.4 |
| 73°   | 1604.7  | 1257.5  | 1045.3 | 1107.1 | 1176.5 | 1373.2 | 1624.0 | 1465.8 | 1242.1 | 1180.4 | 1122.5 |
| 75°   | 1168.8  | 991.3   | 937.3  | 999.1  | 1053.1 | 1238.2 | 1469.7 | 1342.4 | 1141.8 | 1076.2 | 1022.2 |
| 77.5° | 875.6   | 763.8   | 779.2  | 848.6  | 894.9  | 1068.5 | 1307.6 | 1215.1 | 1033.8 | 945.1  | 921.9  |
| 80°   | 644.2   | 582.5   | 644.2  | 709.8  | 744.5  | 941.2  | 1191.9 | 1053.1 | 871.8  | 771.5  | 752.2  |
| 82.5° | 459.0   | 424.3   | 497.6  | 540.0  | 555.5  | 779.2  | 1072.3 | 840.9  | 659.6  | 528.5  | 486.0  |
| 85°   | 262.3   | 258.4   | 335.6  | 331.7  | 343.3  | 455.2  | 705.9  | 559.3  | 424.3  | 324.0  | 316.3  |
| 87.5° | 115.7   | 127.3   | 169.7  | 135.0  | 142.7  | 216.0  | 300.9  | 208.3  | 173.6  | 96.4   | 73.3   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)