

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: P481074

Luminaire Tested: **IFLD-L-SA8C-830-U-SL4**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481074  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

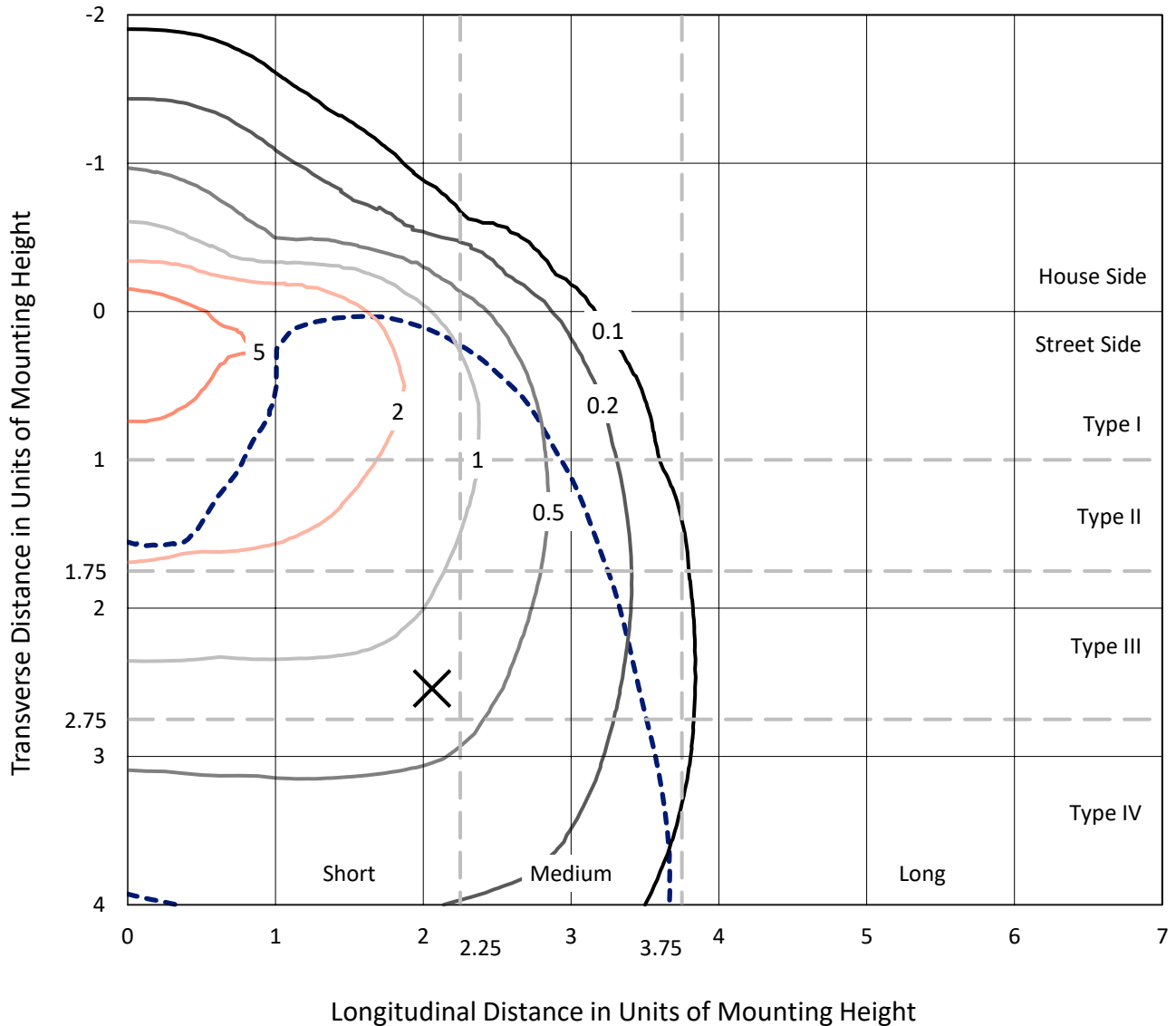
Lumens per Lamp: N/A  
Luminaire Lumens: 38940.4 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

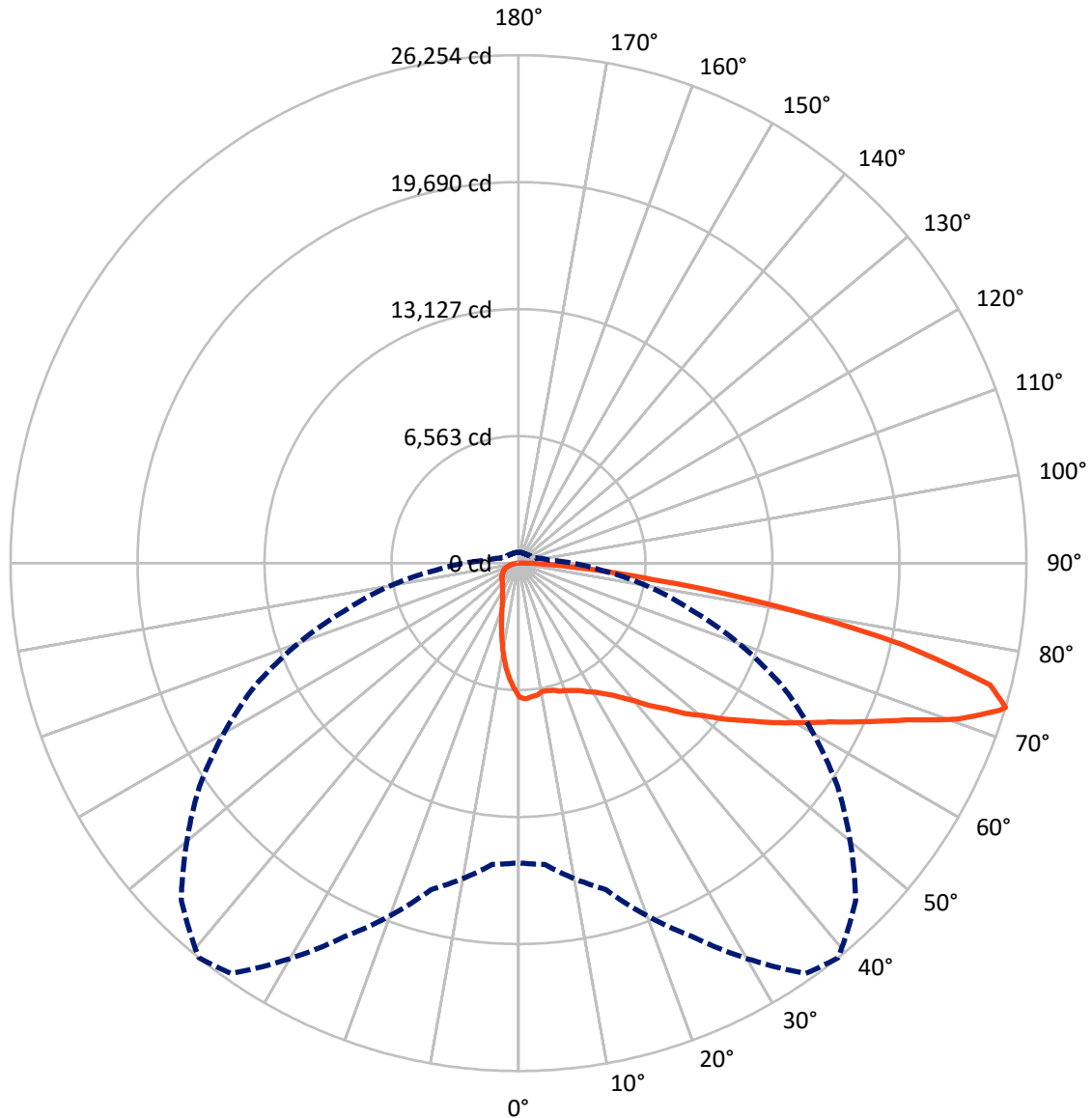
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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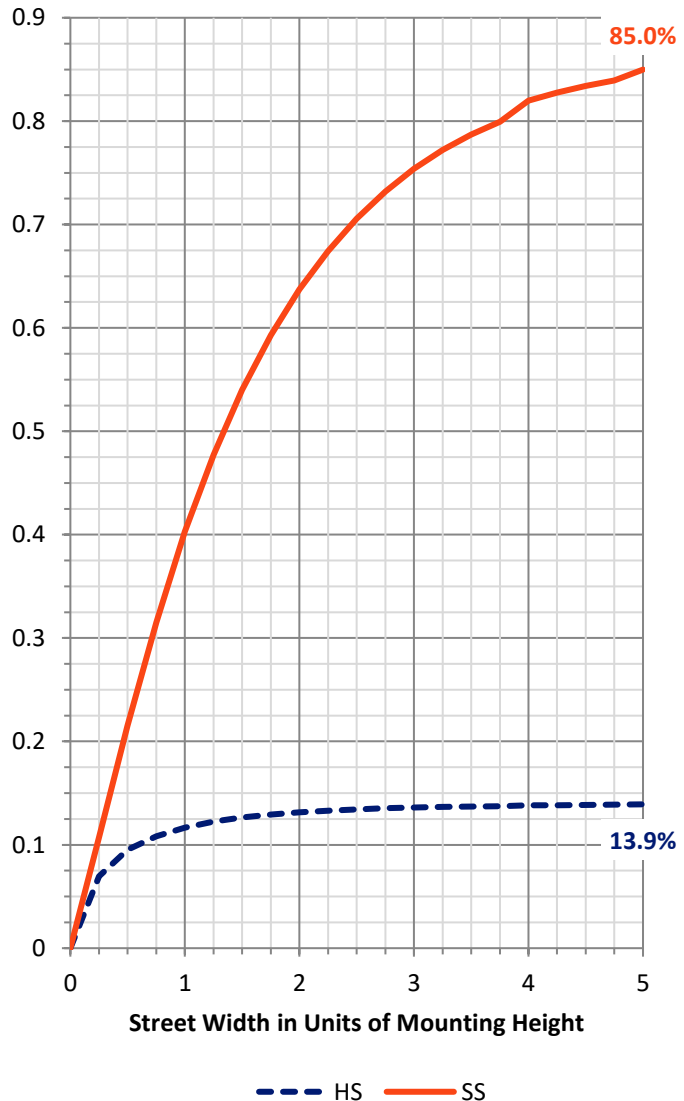
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5473.9   | 0.0    | 5473.9  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 33466.4  | 0.0    | 33466.4 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 38940.4  | 0.0    | 38940.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 601.7   | 1.5       |
| 10°-20°   | 1529.7  | 3.9       |
| 20°-30°   | 2337.5  | 6.0       |
| 30°-40°   | 3408.1  | 8.8       |
| 40°-50°   | 5150.0  | 13.2      |
| 50°-60°   | 7457.5  | 19.2      |
| 60°-70°   | 9475.2  | 24.3      |
| 70°-80°   | 7681.1  | 19.7      |
| 80°-90°   | 1299.6  | 3.3       |
| 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°    | 38940.4 | 100.0     |
| 0°-180°   | 38940.4 | 100.0     |

**Coefficient of Utilization**



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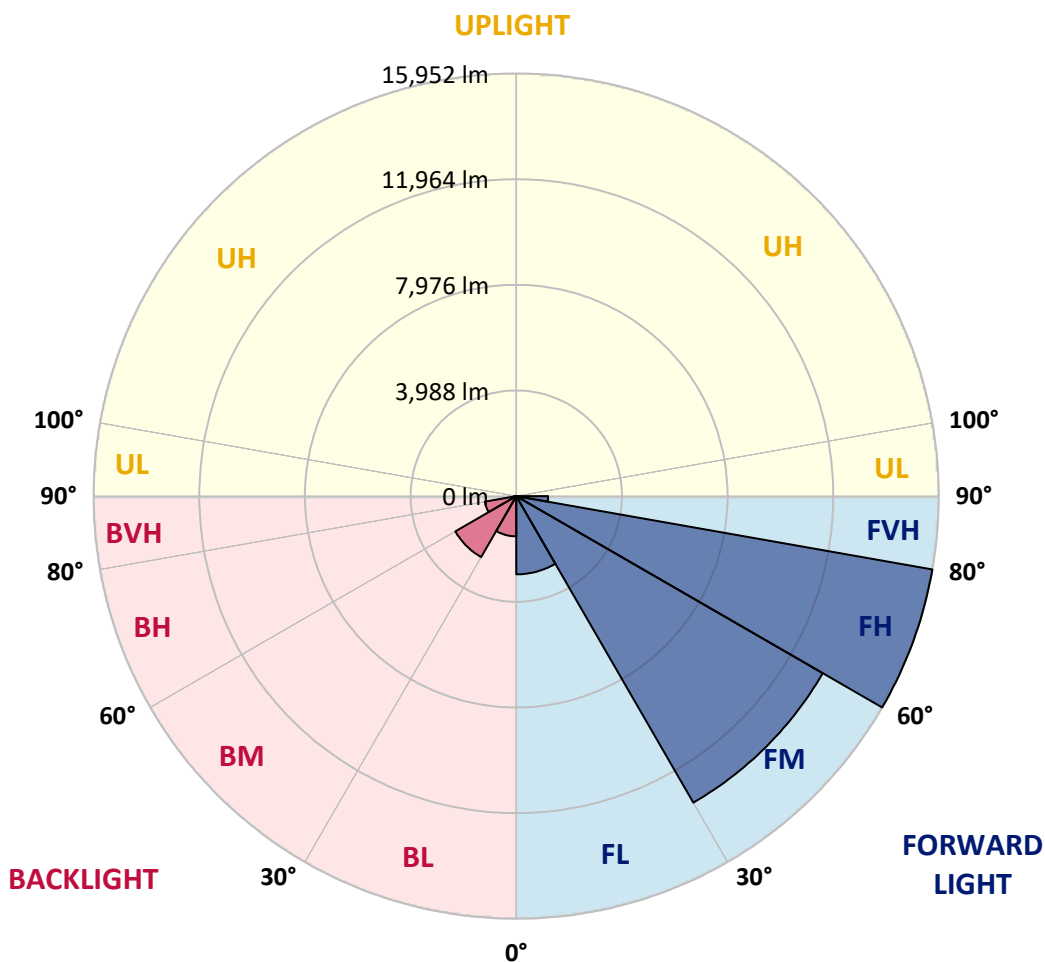
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2950.8  | 7.6       |                         |      |         |
| FM (30°-60°)   | 13359.1 | 34.3      |                         |      |         |
| FH (60°-80°)   | 15952.3 | 41.0      |                         |      | G5      |
| FVH (80°-90°)  | 1204.2  | 3.1       |                         |      | G5      |
| BL (0°-30°)    | 1518.0  | 3.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2656.6  | 6.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 1203.9  | 3.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 95.3    | 0.2       |                         |      | G1/100  |
| 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°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6931.6  | 6931.6  | 6931.6  | 6931.6  | 6931.6  | 6931.6  | 6931.6  | 6931.6  | 6931.6  | 6931.6  | 6931.6  |
| 2.5°  | 7097.2  | 7023.1  | 7036.2  | 7010.0  | 7036.2  | 7027.5  | 7014.4  | 6949.0  | 7014.4  | 6949.0  | 6931.6  |
| 5°    | 7001.3  | 7001.3  | 7044.9  | 6979.5  | 6988.3  | 6944.7  | 6988.3  | 6940.3  | 6896.8  | 6787.8  | 6757.4  |
| 7.5°  | 6970.8  | 6966.5  | 6970.8  | 6879.3  | 6922.9  | 6896.8  | 6853.2  | 6800.9  | 6713.8  | 6644.1  | 6543.9  |
| 10°   | 6761.7  | 6805.3  | 6757.4  | 6783.5  | 6818.3  | 6739.9  | 6735.6  | 6722.5  | 6683.3  | 6591.8  | 6530.8  |
| 12.5° | 6648.4  | 6722.5  | 6748.6  | 6726.9  | 6757.4  | 6766.1  | 6739.9  | 6722.5  | 6674.6  | 6613.6  | 6439.3  |
| 15°   | 6696.4  | 6609.2  | 6683.3  | 6827.1  | 6796.6  | 6818.3  | 6822.7  | 6805.3  | 6783.5  | 6670.2  | 6556.9  |
| 17.5° | 6709.4  | 6657.1  | 6814.0  | 6844.5  | 6883.7  | 6962.1  | 6909.8  | 6905.5  | 6822.7  | 6744.3  | 6578.7  |
| 20°   | 6739.9  | 6718.1  | 6844.5  | 7005.7  | 7010.0  | 7023.1  | 7049.3  | 6983.9  | 6940.3  | 6805.3  | 6552.6  |
| 22.5° | 6853.2  | 6927.3  | 7044.9  | 7114.6  | 7153.8  | 7162.5  | 7162.5  | 7031.8  | 6983.9  | 6875.0  | 6674.6  |
| 25°   | 7193.0  | 7114.6  | 7280.2  | 7362.9  | 7306.3  | 7293.2  | 7262.7  | 7145.1  | 7092.8  | 6997.0  | 6731.2  |
| 27.5° | 7441.4  | 7437.0  | 7532.9  | 7646.1  | 7493.6  | 7524.1  | 7415.2  | 7380.4  | 7262.7  | 7210.5  | 6831.4  |
| 30°   | 7781.2  | 7877.0  | 7872.7  | 7907.5  | 7707.1  | 7742.0  | 7602.6  | 7537.2  | 7471.9  | 7502.4  | 7127.7  |
| 32.5° | 8216.9  | 8182.0  | 8238.7  | 8212.5  | 8012.1  | 8042.6  | 7877.0  | 7776.8  | 7798.6  | 7890.1  | 7532.9  |
| 35°   | 8495.7  | 8460.8  | 8482.6  | 8482.6  | 8421.6  | 8386.8  | 8317.1  | 8186.4  | 8290.9  | 8460.8  | 7986.0  |
| 37.5° | 8796.3  | 8839.9  | 8966.2  | 8940.1  | 8861.7  | 8861.7  | 8853.0  | 8761.5  | 8896.5  | 9314.8  | 8709.2  |
| 40°   | 9062.1  | 9179.7  | 9258.1  | 9310.4  | 9401.9  | 9401.9  | 9476.0  | 9423.7  | 9667.7  | 10338.6 | 9593.6  |
| 42.5° | 9340.9  | 9345.3  | 9772.2  | 9811.4  | 10016.2 | 10103.4 | 10160.0 | 10203.6 | 10661.0 | 11410.4 | 10539.0 |
| 45°   | 9698.2  | 9720.0  | 10094.6 | 10395.3 | 10713.3 | 10743.8 | 10957.3 | 11101.1 | 11663.1 | 12582.4 | 11567.2 |
| 47.5° | 10168.7 | 10142.6 | 10543.4 | 11022.6 | 11419.1 | 11628.2 | 11885.3 | 12042.1 | 12734.8 | 13854.5 | 12691.3 |
| 50°   | 10787.4 | 10708.9 | 10939.9 | 11693.6 | 12159.7 | 12390.7 | 12848.1 | 13109.5 | 13919.9 | 15070.1 | 13462.4 |
| 52.5° | 11541.1 | 11410.4 | 11593.4 | 12416.8 | 12939.6 | 13405.8 | 13841.5 | 14133.4 | 14978.6 | 16011.1 | 14033.2 |
| 55°   | 12338.4 | 12068.3 | 12120.5 | 13183.6 | 13937.3 | 14377.3 | 14974.2 | 15279.2 | 16141.8 | 16856.3 | 14603.9 |
| 57.5° | 13126.9 | 12957.0 | 12852.5 | 13919.9 | 15126.7 | 15549.3 | 16098.3 | 16494.7 | 17226.7 | 17605.7 | 15087.5 |
| 60°   | 13789.2 | 13745.6 | 13575.7 | 15061.4 | 16385.8 | 16747.4 | 17322.5 | 17566.5 | 18119.8 | 18298.4 | 15096.2 |
| 62.5° | 14333.8 | 14185.6 | 14455.8 | 15980.6 | 17666.7 | 18076.2 | 18708.0 | 18729.8 | 19121.9 | 18729.8 | 14651.8 |
| 65°   | 14760.7 | 14769.5 | 15200.8 | 17091.6 | 19148.0 | 19753.6 | 20263.3 | 20206.7 | 19954.0 | 18472.7 | 13601.8 |
| 67.5° | 15148.5 | 15314.0 | 15945.8 | 18311.5 | 21051.9 | 21622.7 | 22189.0 | 21439.7 | 20180.6 | 17270.2 | 11549.8 |
| 70°   | 15453.5 | 15619.0 | 16952.2 | 19797.2 | 23295.7 | 24132.2 | 24258.5 | 21927.6 | 19139.3 | 14630.0 | 8713.5  |
| 72.5° | 15418.6 | 15719.2 | 17522.9 | 20982.2 | 25286.7 | 26009.9 | 24990.4 | 20555.2 | 15945.8 | 10199.2 | 5084.4  |
| 73°   | 15492.7 | 15640.8 | 17475.0 | 21313.3 | 25892.3 | 26253.9 | 24650.6 | 20123.9 | 15039.6 | 9149.2  | 4300.1  |
| 75°   | 14063.7 | 14564.7 | 16608.0 | 20773.1 | 25243.1 | 25177.8 | 22698.8 | 16769.2 | 10691.5 | 4805.5  | 2082.5  |
| 77.5° | 10404.0 | 10722.0 | 13087.7 | 17082.9 | 20720.8 | 20302.5 | 17122.1 | 10717.7 | 5075.6  | 1781.9  | 1124.0  |
| 80°   | 5084.4  | 5332.7  | 6936.0  | 9863.7  | 13549.6 | 13584.4 | 10626.2 | 5576.7  | 2174.0  | 1006.4  | 766.8   |
| 82.5° | 2540.0  | 2688.1  | 3332.9  | 4335.0  | 6665.9  | 6983.9  | 5389.3  | 3171.7  | 1346.2  | 570.7   | 435.7   |
| 85°   | 1659.9  | 1764.5  | 2052.0  | 2121.7  | 2827.5  | 2984.4  | 2509.5  | 2474.6  | 875.7   | 309.3   | 352.9   |
| 87.5° | 1102.3  | 1119.7  | 1259.1  | 1071.8  | 1132.8  | 1089.2  | 1211.2  | 1559.7  | 257.0   | 130.7   | 95.8    |
| 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°    | 6931.6  | 6931.6 | 6931.6 | 6931.6 | 6931.6 | 6931.6 | 6931.6 | 6931.6 | 6931.6 | 6931.6 | 6931.6 |
| 2.5°  | 6909.8  | 6848.8 | 6783.5 | 6692.0 | 6626.6 | 6526.4 | 6434.9 | 6395.7 | 6387.0 | 6391.4 | 6347.8 |
| 5°    | 6731.2  | 6644.1 | 6513.4 | 6326.0 | 6217.1 | 6051.6 | 5912.1 | 5838.1 | 5759.7 | 5772.7 | 5737.9 |
| 7.5°  | 6482.9  | 6387.0 | 6186.6 | 5968.8 | 5698.7 | 5463.4 | 5332.7 | 5149.7 | 5045.1 | 4966.7 | 5010.3 |
| 10°   | 6404.5  | 6238.9 | 5938.3 | 5637.7 | 5219.4 | 4910.1 | 4609.5 | 4400.3 | 4256.6 | 4117.1 | 4178.1 |
| 12.5° | 6365.2  | 6199.7 | 5781.4 | 5337.0 | 4796.8 | 4326.3 | 3903.7 | 3646.6 | 3441.8 | 3319.9 | 3367.8 |
| 15°   | 6330.4  | 6125.6 | 5633.3 | 5005.9 | 4400.3 | 3781.7 | 3306.8 | 2967.0 | 2770.9 | 2653.3 | 2666.3 |
| 17.5° | 6378.3  | 6086.4 | 5415.5 | 4683.5 | 3964.7 | 3302.4 | 2775.3 | 2422.4 | 2222.0 | 2147.9 | 2130.5 |
| 20°   | 6330.4  | 6042.8 | 5202.0 | 4361.1 | 3529.0 | 2845.0 | 2339.6 | 2047.7 | 1908.3 | 1847.3 | 1834.2 |
| 22.5° | 6347.8  | 5938.3 | 4979.8 | 4003.9 | 3123.8 | 2461.6 | 2047.7 | 1825.5 | 1716.6 | 1686.1 | 1694.8 |
| 25°   | 6430.6  | 5877.3 | 4757.6 | 3611.8 | 2723.0 | 2178.4 | 1860.3 | 1690.4 | 1612.0 | 1581.5 | 1590.2 |
| 27.5° | 6491.6  | 5929.6 | 4557.2 | 3241.4 | 2383.2 | 1925.7 | 1703.5 | 1590.2 | 1537.9 | 1516.2 | 1511.8 |
| 30°   | 6644.1  | 5960.1 | 4361.1 | 2910.3 | 2104.3 | 1760.1 | 1594.6 | 1503.1 | 1468.2 | 1455.2 | 1450.8 |
| 32.5° | 6870.6  | 6016.7 | 4134.6 | 2605.3 | 1899.6 | 1603.3 | 1507.4 | 1429.0 | 1420.3 | 1407.2 | 1411.6 |
| 35°   | 7241.0  | 6212.8 | 3881.9 | 2343.9 | 1703.5 | 1498.7 | 1416.0 | 1363.7 | 1363.7 | 1363.7 | 1376.7 |
| 37.5° | 7772.5  | 6487.2 | 3655.3 | 2095.6 | 1577.2 | 1407.2 | 1337.5 | 1320.1 | 1311.4 | 1324.5 | 1333.2 |
| 40°   | 8456.5  | 6818.3 | 3472.3 | 1899.6 | 1468.2 | 1346.2 | 1285.2 | 1276.5 | 1272.2 | 1267.8 | 1276.5 |
| 42.5° | 9205.9  | 7241.0 | 3315.5 | 1747.1 | 1389.8 | 1280.9 | 1237.3 | 1228.6 | 1211.2 | 1219.9 | 1233.0 |
| 45°   | 9950.9  | 7763.8 | 3176.1 | 1625.1 | 1337.5 | 1246.0 | 1185.0 | 1180.7 | 1172.0 | 1167.6 | 1189.4 |
| 47.5° | 10778.6 | 8277.9 | 3132.5 | 1551.0 | 1298.3 | 1193.8 | 1150.2 | 1145.8 | 1119.7 | 1115.3 | 1132.8 |
| 50°   | 11423.5 | 8656.9 | 3180.4 | 1516.2 | 1241.7 | 1154.5 | 1124.0 | 1102.3 | 1080.5 | 1058.7 | 1058.7 |
| 52.5° | 11867.8 | 8918.3 | 3215.3 | 1490.0 | 1211.2 | 1102.3 | 1063.1 | 1054.3 | 1032.6 | 1010.8 | 1002.1 |
| 55°   | 12268.7 | 9075.2 | 3224.0 | 1494.4 | 1180.7 | 1041.3 | 1015.1 | 1010.8 | 997.7  | 962.8  | 954.1  |
| 57.5° | 12403.7 | 9009.8 | 3049.7 | 1455.2 | 1163.3 | 1002.1 | 967.2  | 975.9  | 958.5  | 928.0  | 923.6  |
| 60°   | 12390.7 | 8556.7 | 2653.3 | 1402.9 | 1124.0 | 958.5  | 914.9  | 941.1  | 941.1  | 906.2  | 901.9  |
| 62.5° | 11636.9 | 7511.1 | 2169.7 | 1302.7 | 1080.5 | 914.9  | 867.0  | 906.2  | 919.3  | 897.5  | 893.1  |
| 65°   | 10072.9 | 6116.9 | 1812.4 | 1202.5 | 1015.1 | 867.0  | 819.1  | 862.6  | 884.4  | 875.7  | 871.4  |
| 67.5° | 8334.5  | 4679.2 | 1507.4 | 1071.8 | 932.3  | 801.6  | 762.4  | 792.9  | 806.0  | 810.4  | 814.7  |
| 70°   | 5890.4  | 3115.1 | 1259.1 | 928.0  | 819.1  | 731.9  | 688.4  | 692.7  | 688.4  | 701.4  | 701.4  |
| 72.5° | 3202.2  | 1795.0 | 1023.8 | 788.6  | 705.8  | 636.1  | 605.6  | 583.8  | 583.8  | 579.5  | 579.5  |
| 73°   | 2740.4  | 1612.0 | 975.9  | 766.8  | 675.3  | 618.7  | 583.8  | 566.4  | 566.4  | 562.0  | 557.7  |
| 75°   | 1537.9  | 1180.7 | 836.5  | 657.9  | 583.8  | 540.2  | 514.1  | 488.0  | 483.6  | 483.6  | 483.6  |
| 77.5° | 1010.8  | 919.3  | 666.6  | 527.2  | 470.5  | 431.3  | 422.6  | 396.5  | 396.5  | 396.5  | 392.1  |
| 80°   | 758.1   | 723.2  | 514.1  | 400.8  | 361.6  | 331.1  | 322.4  | 305.0  | 300.6  | 283.2  | 287.5  |
| 82.5° | 505.4   | 570.7  | 374.7  | 283.2  | 244.0  | 226.6  | 226.6  | 222.2  | 209.1  | 187.3  | 187.3  |
| 85°   | 400.8   | 466.2  | 270.1  | 174.3  | 143.8  | 122.0  | 126.3  | 122.0  | 117.6  | 95.8   | 91.5   |
| 87.5° | 74.1    | 187.3  | 78.4   | 47.9   | 34.9   | 21.8   | 21.8   | 13.1   | 8.7    | 0.0    | 0.0    |
| 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)