

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: P285747

Luminaire Tested: **USSL-XL-C04-D-U-T2-BZ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C04-D-U-T2-BZ-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35840 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G4

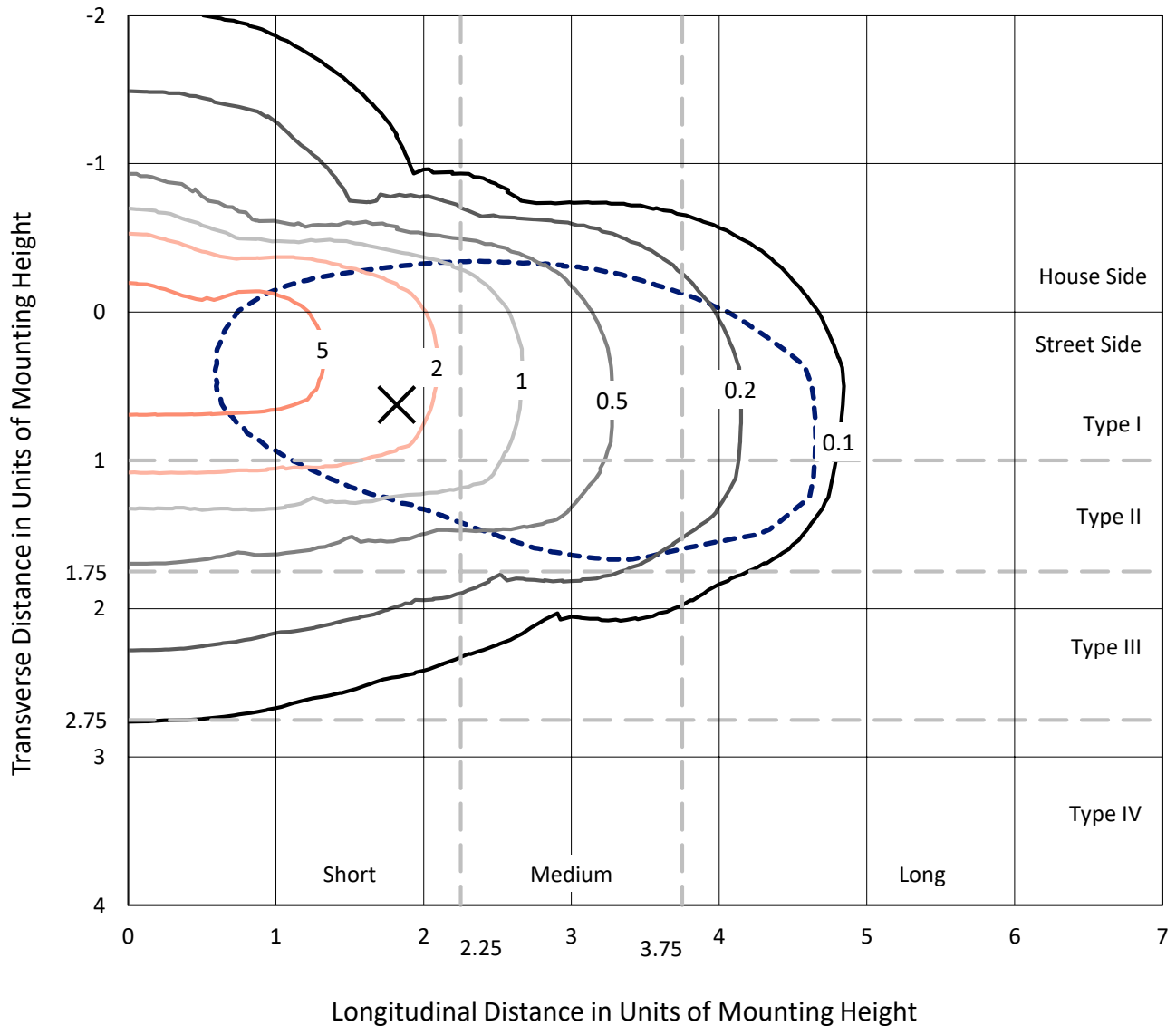
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

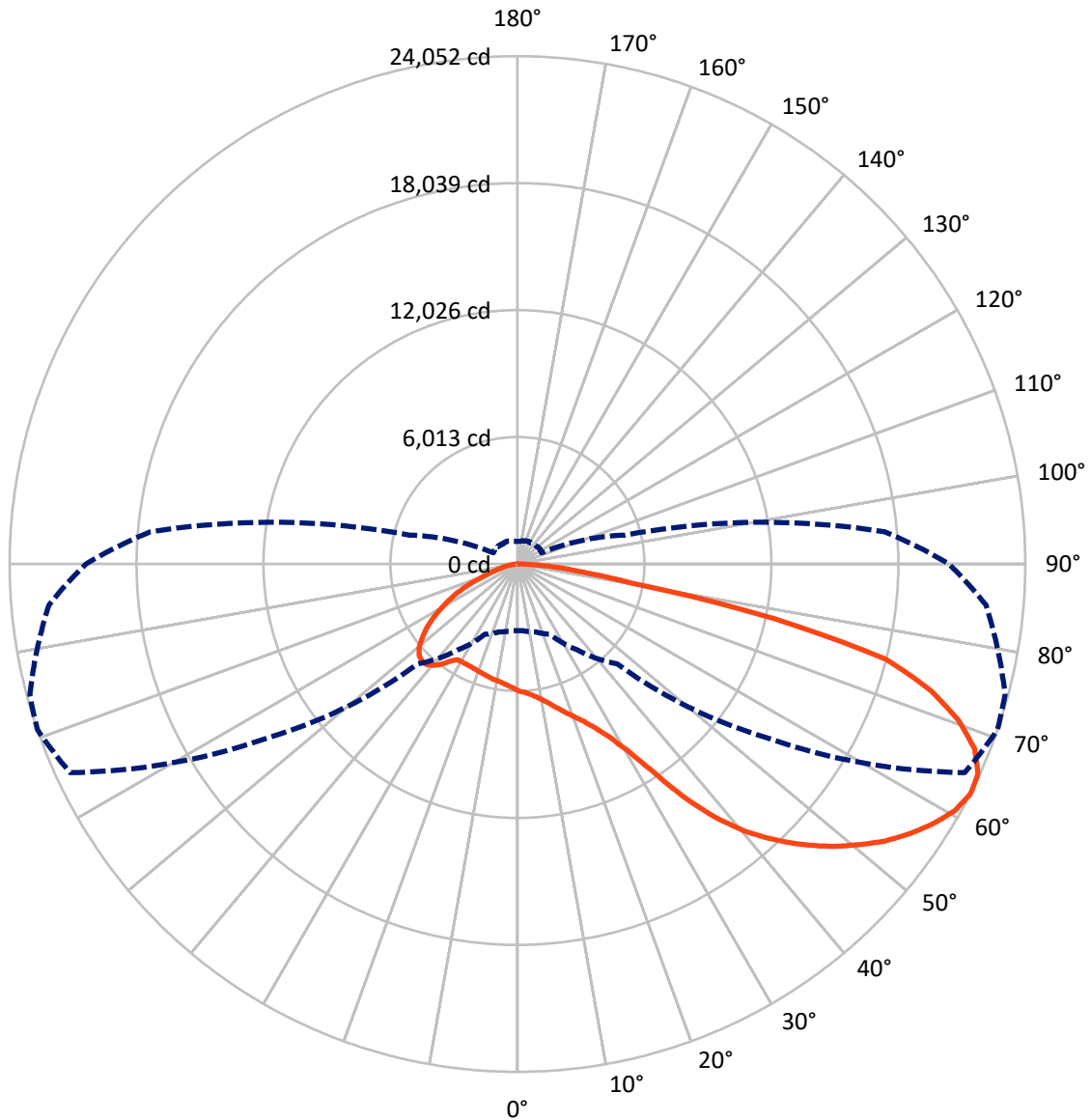
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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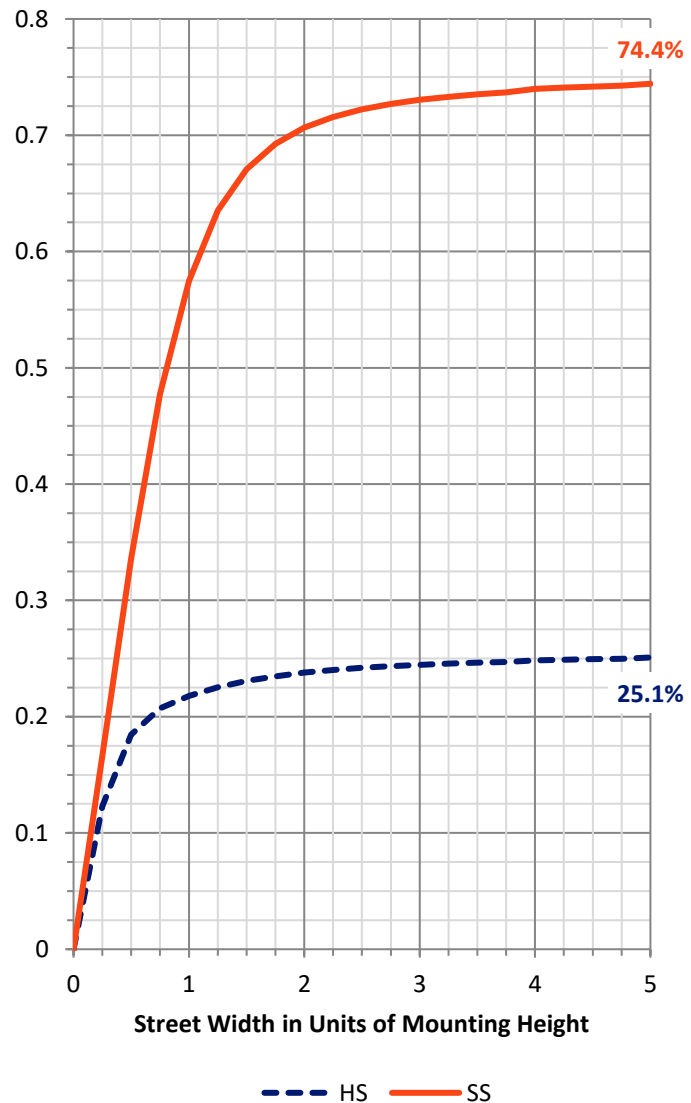
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9152.5   | 0.0    | 9152.5  |
|                    | % Fixture | 25.5     | 0.0    | 25.5    |
| <b>Street Side</b> | Lumens    | 26687.5  | 0.0    | 26687.5 |
|                    | % Fixture | 74.5     | 0.0    | 74.5    |
| <b>Total</b>       | Lumens    | 35840.0  | 0.0    | 35840.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 578.9   | 1.6       |
| 10°-20°   | 1771.7  | 4.9       |
| 20°-30°   | 3003.5  | 8.4       |
| 30°-40°   | 4526.9  | 12.6      |
| 40°-50°   | 6218.9  | 17.4      |
| 50°-60°   | 7230.1  | 20.2      |
| 60°-70°   | 7134.1  | 19.9      |
| 70°-80°   | 4561.7  | 12.7      |
| 80°-90°   | 814.3   | 2.3       |
| 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°    | 35840.0 | 100.0     |
| 0°-180°   | 35840.0 | 100.0     |

**Coefficient of Utilization**



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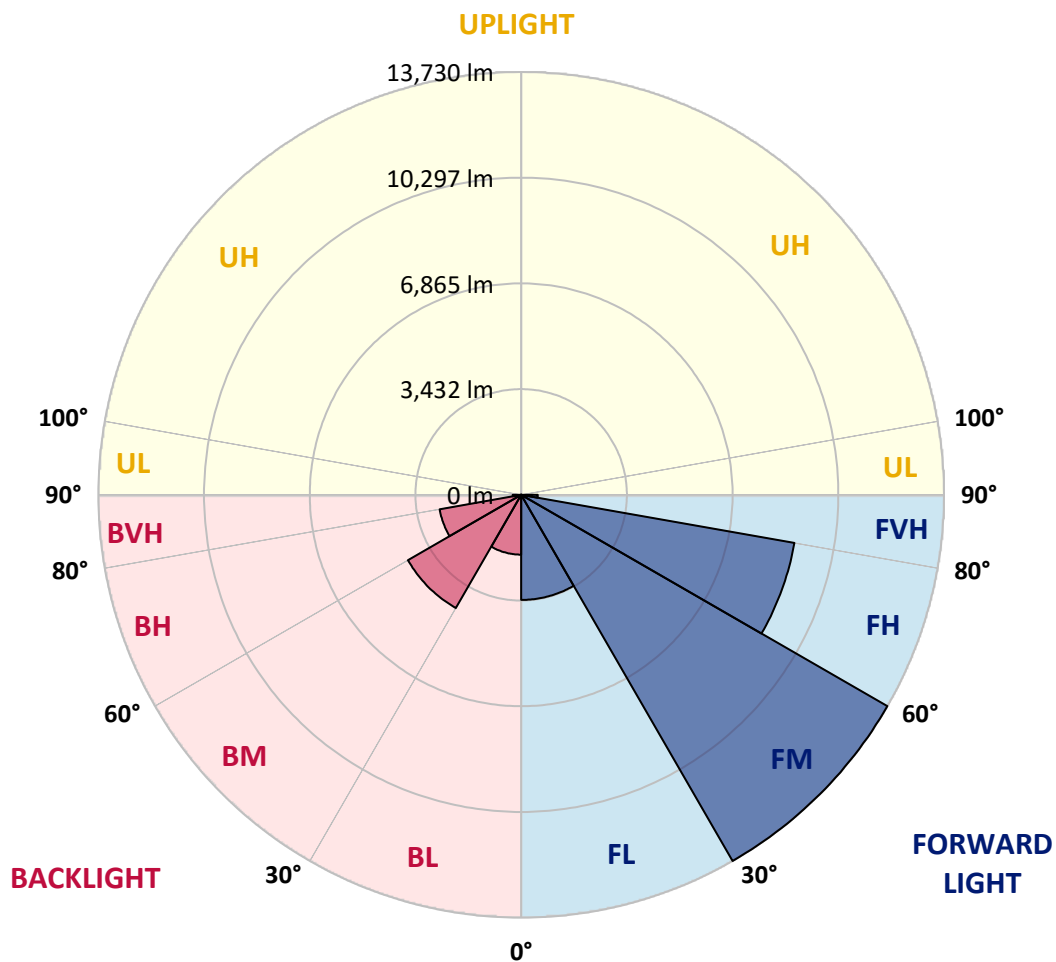
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3411.1  | 9.5       |                         |      |          |
| FM   | (30°-60°)   | 13729.6 | 38.3      |                         |      |          |
| FH   | (60°-80°)   | 9008.6  | 25.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 538.1   | 1.5       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1943.0  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4246.2  | 11.8      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2687.1  | 7.5       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 276.2   | 0.8       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6008.6 | 6008.6 | 6008.6 | 6008.6 | 6008.6  | 6008.6  | 6008.6  | 6008.6  | 6008.6  | 6008.6  | 6008.6  |
| 2.5°  | 6405.7 | 6393.4 | 6378.4 | 6352.5 | 6322.5  | 6287.0  | 6250.1  | 6166.9  | 6080.9  | 6053.6  | 5995.0  |
| 5°    | 6757.8 | 6734.6 | 6715.5 | 6690.9 | 6633.6  | 6561.3  | 6464.4  | 6327.9  | 6194.2  | 6151.9  | 6030.4  |
| 7.5°  | 7068.9 | 7043.0 | 7008.9 | 6976.1 | 6913.4  | 6820.6  | 6689.6  | 6516.3  | 6355.2  | 6281.5  | 6083.7  |
| 10°   | 7346.0 | 7321.4 | 7303.7 | 7266.8 | 7216.3  | 7104.4  | 6948.9  | 6731.9  | 6544.9  | 6442.6  | 6168.3  |
| 12.5° | 7653.0 | 7632.5 | 7595.7 | 7553.4 | 7486.5  | 7378.7  | 7223.2  | 6987.1  | 6787.8  | 6663.6  | 6297.9  |
| 15°   | 7965.5 | 7951.9 | 7886.4 | 7861.8 | 7786.8  | 7662.6  | 7524.7  | 7281.8  | 7078.5  | 6924.3  | 6483.5  |
| 17.5° | 8242.6 | 8233.0 | 8192.1 | 8163.4 | 8102.0  | 7962.8  | 7820.9  | 7598.4  | 7391.0  | 7194.5  | 6689.6  |
| 20°   | 8420.0 | 8433.6 | 8425.4 | 8420.0 | 8415.9  | 8301.2  | 8160.7  | 7931.4  | 7722.6  | 7527.5  | 6910.6  |
| 22.5° | 8585.1 | 8590.5 | 8612.4 | 8662.9 | 8735.2  | 8684.7  | 8533.2  | 8321.7  | 8108.8  | 7875.5  | 7197.2  |
| 25°   | 8636.9 | 8641.0 | 8725.6 | 8878.5 | 9081.8  | 9103.7  | 8979.5  | 8837.5  | 8605.6  | 8376.3  | 7590.2  |
| 27.5° | 8679.2 | 8690.2 | 8796.6 | 9064.1 | 9421.6  | 9525.3  | 9480.3  | 9433.9  | 9270.1  | 9030.0  | 8118.4  |
| 30°   | 8667.0 | 8669.7 | 8845.7 | 9189.6 | 9691.8  | 9971.6  | 10039.8 | 10263.6 | 10222.7 | 10058.9 | 9002.7  |
| 32.5° | 8441.8 | 8421.3 | 8676.5 | 9192.4 | 9903.3  | 10419.2 | 10734.4 | 11371.7 | 11613.3 | 11656.9 | 10771.3 |
| 35°   | 7983.3 | 7983.3 | 8365.4 | 9085.9 | 10056.2 | 10861.3 | 11525.9 | 12720.0 | 13534.7 | 13556.5 | 12452.5 |
| 37.5° | 7601.2 | 7625.7 | 8054.2 | 8886.7 | 10127.2 | 11310.3 | 12433.4 | 14368.5 | 15228.3 | 15154.6 | 13856.8 |
| 40°   | 7220.4 | 7250.4 | 7689.9 | 8615.1 | 10084.8 | 11697.9 | 13313.6 | 15940.6 | 16655.7 | 16486.5 | 15053.6 |
| 42.5° | 6798.7 | 6821.9 | 7234.1 | 8228.9 | 9938.8  | 11980.4 | 14259.3 | 17282.1 | 17851.1 | 17645.1 | 16145.3 |
| 45°   | 6377.1 | 6416.6 | 6787.8 | 7710.3 | 9653.6  | 12149.6 | 15070.0 | 18499.3 | 18960.6 | 18723.2 | 17138.8 |
| 47.5° | 5756.1 | 5909.0 | 6341.6 | 7198.6 | 9136.4  | 12137.3 | 15789.1 | 19592.4 | 19984.1 | 19731.6 | 18034.0 |
| 50°   | 4493.8 | 4583.9 | 5537.8 | 6734.6 | 8454.1  | 11893.0 | 16356.8 | 20568.2 | 20903.9 | 20680.1 | 18938.8 |
| 52.5° | 4081.7 | 4106.3 | 4414.7 | 6165.5 | 7698.1  | 11409.9 | 16777.1 | 21470.2 | 21797.7 | 21541.2 | 19757.6 |
| 55°   | 3870.2 | 3883.8 | 4035.3 | 5041.1 | 7056.7  | 10520.2 | 16968.2 | 22304.0 | 22551.0 | 22261.7 | 20450.8 |
| 57.5° | 3582.2 | 3624.5 | 3836.1 | 4297.3 | 6400.3  | 9262.0  | 16721.2 | 22959.1 | 23206.1 | 22892.2 | 21114.0 |
| 60°   | 3369.3 | 3395.3 | 3576.8 | 3934.3 | 5640.1  | 7790.9  | 15866.9 | 23432.6 | 23765.6 | 23476.3 | 21729.5 |
| 62.5° | 3159.2 | 3174.2 | 3327.0 | 3670.9 | 4986.5  | 6696.4  | 14271.6 | 23378.0 | 24052.2 | 23907.5 | 22275.4 |
| 63°   | 3115.5 | 3129.2 | 3282.0 | 3623.2 | 4889.6  | 6472.6  | 13935.9 | 23309.8 | 24052.2 | 23951.2 | 22343.6 |
| 65°   | 2921.7 | 2938.1 | 3089.6 | 3400.7 | 4484.3  | 5910.3  | 12437.5 | 22885.4 | 23966.2 | 24013.9 | 22440.5 |
| 67.5° | 2633.8 | 2661.1 | 2786.6 | 3058.2 | 3875.6  | 5225.3  | 10214.5 | 22441.9 | 23349.4 | 23451.7 | 21904.2 |
| 70°   | 2294.0 | 2299.5 | 2450.9 | 2678.8 | 3267.0  | 4444.7  | 7874.1  | 21096.3 | 22144.4 | 22189.4 | 20650.1 |
| 72.5° | 1932.4 | 1947.4 | 2083.8 | 2276.3 | 2710.2  | 3680.5  | 5629.2  | 18600.3 | 20460.4 | 20714.2 | 18549.8 |
| 75°   | 1686.7 | 1699.0 | 1813.6 | 1948.7 | 2250.3  | 2901.3  | 3765.1  | 13563.4 | 18038.1 | 18320.6 | 16045.7 |
| 77.5° | 1412.4 | 1420.6 | 1540.7 | 1633.5 | 1828.6  | 2188.9  | 2599.7  | 7156.3  | 12423.9 | 13927.7 | 12535.8 |
| 80°   | 1005.8 | 1007.1 | 1127.2 | 1199.5 | 1325.1  | 1345.6  | 1652.6  | 3808.8  | 5466.8  | 7064.9  | 8284.9  |
| 82.5° | 218.3  | 313.9  | 472.2  | 593.6  | 664.6   | 559.5   | 813.3   | 2086.6  | 3020.0  | 3605.4  | 4491.1  |
| 85°   | 94.2   | 129.6  | 249.7  | 274.3  | 182.9   | 202.0   | 330.2   | 1112.2  | 1726.3  | 2055.2  | 2311.7  |
| 87.5° | 17.7   | 23.2   | 64.1   | 86.0   | 53.2    | 56.0    | 66.9    | 356.2   | 604.5   | 709.6   | 791.5   |
| 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°    | 6008.6  | 6008.6  | 6008.6 | 6008.6 | 6008.6 | 6008.6 | 6008.6 | 6008.6 | 6008.6 | 6008.6 | 6008.6 |
| 2.5°  | 5959.5  | 5943.1  | 5888.5 | 5851.7 | 5828.5 | 5798.4 | 5760.2 | 5709.7 | 5694.7 | 5659.2 | 5687.9 |
| 5°    | 5963.6  | 5919.9  | 5805.3 | 5722.0 | 5647.0 | 5581.5 | 5505.0 | 5432.7 | 5405.4 | 5357.7 | 5376.8 |
| 7.5°  | 5982.7  | 5909.0  | 5731.6 | 5604.7 | 5492.8 | 5404.1 | 5297.6 | 5208.9 | 5177.5 | 5122.9 | 5132.5 |
| 10°   | 6033.2  | 5918.5  | 5674.3 | 5520.1 | 5365.8 | 5236.2 | 5112.0 | 4990.6 | 4936.0 | 4888.2 | 4911.4 |
| 12.5° | 6121.9  | 5954.0  | 5648.3 | 5450.5 | 5245.8 | 5087.5 | 4906.0 | 4750.4 | 4674.0 | 4612.6 | 4633.0 |
| 15°   | 6255.6  | 6022.2  | 5618.3 | 5350.8 | 5103.8 | 4897.8 | 4675.3 | 4478.8 | 4392.8 | 4345.1 | 4368.3 |
| 17.5° | 6392.1  | 6121.9  | 5600.6 | 5229.4 | 4933.3 | 4665.8 | 4451.5 | 4265.9 | 4109.0 | 4073.5 | 4087.2 |
| 20°   | 6553.1  | 6224.2  | 5614.2 | 5101.1 | 4732.6 | 4416.0 | 4162.2 | 4038.0 | 3834.7 | 3763.7 | 3767.8 |
| 22.5° | 6766.0  | 6383.9  | 5626.5 | 4975.6 | 4493.8 | 4140.4 | 3844.3 | 3721.4 | 3526.3 | 3400.7 | 3406.2 |
| 25°   | 7071.7  | 6581.8  | 5655.2 | 4859.6 | 4259.1 | 3837.4 | 3494.9 | 3290.2 | 3168.7 | 3009.1 | 3010.4 |
| 27.5° | 7490.6  | 6853.3  | 5712.5 | 4750.4 | 4009.4 | 3489.4 | 3070.5 | 2841.2 | 2734.8 | 2629.7 | 2616.1 |
| 30°   | 8205.7  | 7302.3  | 5797.1 | 4630.3 | 3713.2 | 3069.1 | 2622.9 | 2422.3 | 2332.2 | 2246.2 | 2236.7 |
| 32.5° | 9715.0  | 8392.7  | 5914.4 | 4478.8 | 3393.9 | 2591.5 | 2227.1 | 2068.8 | 1941.9 | 1857.3 | 1869.6 |
| 35°   | 11263.9 | 9758.7  | 6411.2 | 4298.7 | 3033.6 | 2173.9 | 1929.6 | 1733.1 | 1570.7 | 1505.2 | 1509.3 |
| 37.5° | 12590.4 | 10996.4 | 7157.6 | 4103.5 | 2635.2 | 1905.1 | 1630.8 | 1441.1 | 1311.4 | 1278.7 | 1319.6 |
| 40°   | 13694.4 | 12013.1 | 7756.7 | 3897.5 | 2216.2 | 1678.5 | 1329.2 | 1225.5 | 1142.2 | 1132.7 | 1169.5 |
| 42.5° | 14738.3 | 12931.5 | 8260.3 | 3660.0 | 1825.9 | 1386.5 | 1104.0 | 1128.6 | 1116.3 | 1114.9 | 1120.4 |
| 45°   | 15686.8 | 13783.1 | 8541.4 | 3306.6 | 1550.3 | 1135.4 | 1042.6 | 1135.4 | 1155.9 | 1153.1 | 1138.1 |
| 47.5° | 16550.6 | 14560.9 | 8732.5 | 2794.8 | 1312.8 | 1064.4 | 1076.7 | 1139.5 | 1177.7 | 1184.5 | 1168.1 |
| 50°   | 17447.2 | 15321.1 | 8762.5 | 2175.3 | 1218.6 | 1120.4 | 1106.7 | 1098.6 | 1168.1 | 1166.8 | 1168.1 |
| 52.5° | 18248.2 | 15973.4 | 8435.0 | 1690.8 | 1267.8 | 1179.1 | 1131.3 | 1083.5 | 1123.1 | 1124.5 | 1097.2 |
| 55°   | 18851.4 | 16508.3 | 7874.1 | 1482.0 | 1308.7 | 1228.2 | 1202.3 | 1106.7 | 1082.2 | 1065.8 | 1075.4 |
| 57.5° | 19473.7 | 16985.9 | 7112.6 | 1387.9 | 1321.0 | 1239.1 | 1265.0 | 1112.2 | 1075.4 | 1000.3 | 994.8  |
| 60°   | 20072.8 | 17372.1 | 6210.6 | 1325.1 | 1306.0 | 1233.7 | 1225.5 | 1154.5 | 1083.5 | 971.6  | 933.4  |
| 62.5° | 20437.2 | 17456.7 | 5288.1 | 1263.7 | 1277.3 | 1225.5 | 1181.8 | 1185.9 | 1136.8 | 1075.4 | 1067.2 |
| 63°   | 20479.5 | 17428.1 | 5112.0 | 1248.7 | 1270.5 | 1224.1 | 1181.8 | 1188.6 | 1136.8 | 1099.9 | 1101.3 |
| 65°   | 20426.2 | 17095.1 | 4421.5 | 1184.5 | 1245.9 | 1202.3 | 1164.1 | 1129.9 | 1045.3 | 1068.5 | 1095.8 |
| 67.5° | 19828.5 | 16006.1 | 3399.4 | 1080.8 | 1191.3 | 1166.8 | 1110.8 | 1026.2 | 949.8  | 934.8  | 951.2  |
| 70°   | 18214.1 | 14222.5 | 2408.6 | 921.1  | 1093.1 | 1121.8 | 1097.2 | 970.3  | 893.9  | 880.2  | 913.0  |
| 72.5° | 15973.4 | 12348.8 | 1654.0 | 736.9  | 915.7  | 1044.0 | 1037.1 | 934.8  | 866.6  | 827.0  | 843.4  |
| 75°   | 13446.0 | 9960.7  | 1155.9 | 620.9  | 705.5  | 940.3  | 983.9  | 904.8  | 852.9  | 816.1  | 810.6  |
| 77.5° | 10352.3 | 7523.4  | 908.9  | 530.9  | 582.7  | 761.5  | 904.8  | 897.9  | 962.1  | 1135.4 | 1097.2 |
| 80°   | 7052.6  | 5002.8  | 655.0  | 398.5  | 464.0  | 533.6  | 779.2  | 926.6  | 1217.3 | 715.1  | 701.4  |
| 82.5° | 4099.4  | 2939.5  | 409.4  | 264.7  | 277.0  | 363.0  | 488.5  | 978.5  | 814.7  | 322.1  | 406.7  |
| 85°   | 1980.1  | 1280.1  | 204.7  | 182.9  | 126.9  | 136.5  | 226.5  | 911.6  | 577.3  | 143.3  | 28.7   |
| 87.5° | 631.8   | 311.1   | 21.8   | 16.4   | 19.1   | 27.3   | 107.8  | 556.8  | 339.8  | 122.8  | 17.7   |
| 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)