

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: P476496

Luminaire Tested: **IFLD-S-SA6C-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476496  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

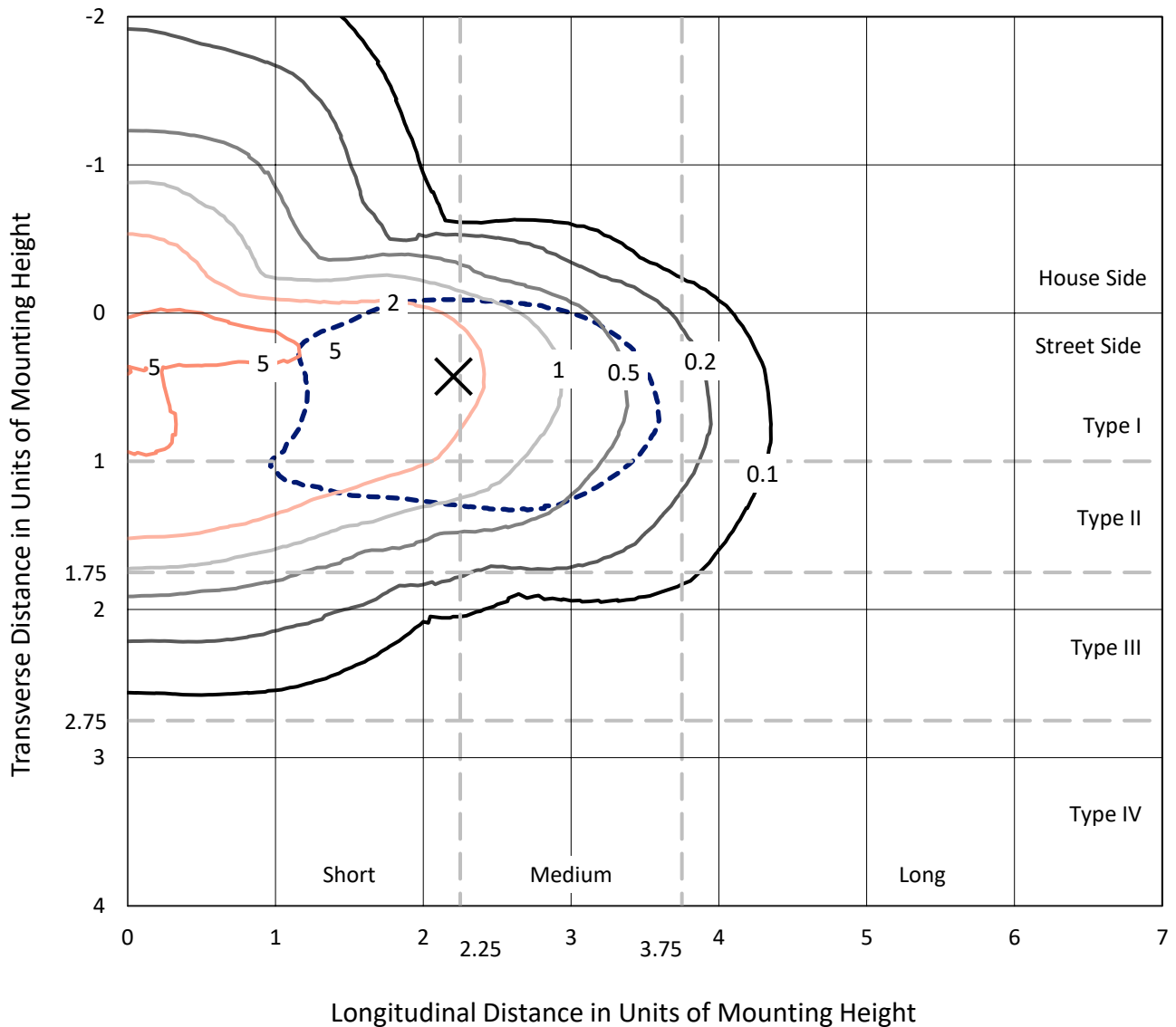
Lumens per Lamp: N/A  
Luminaire Lumens: 34707.8 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5  
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

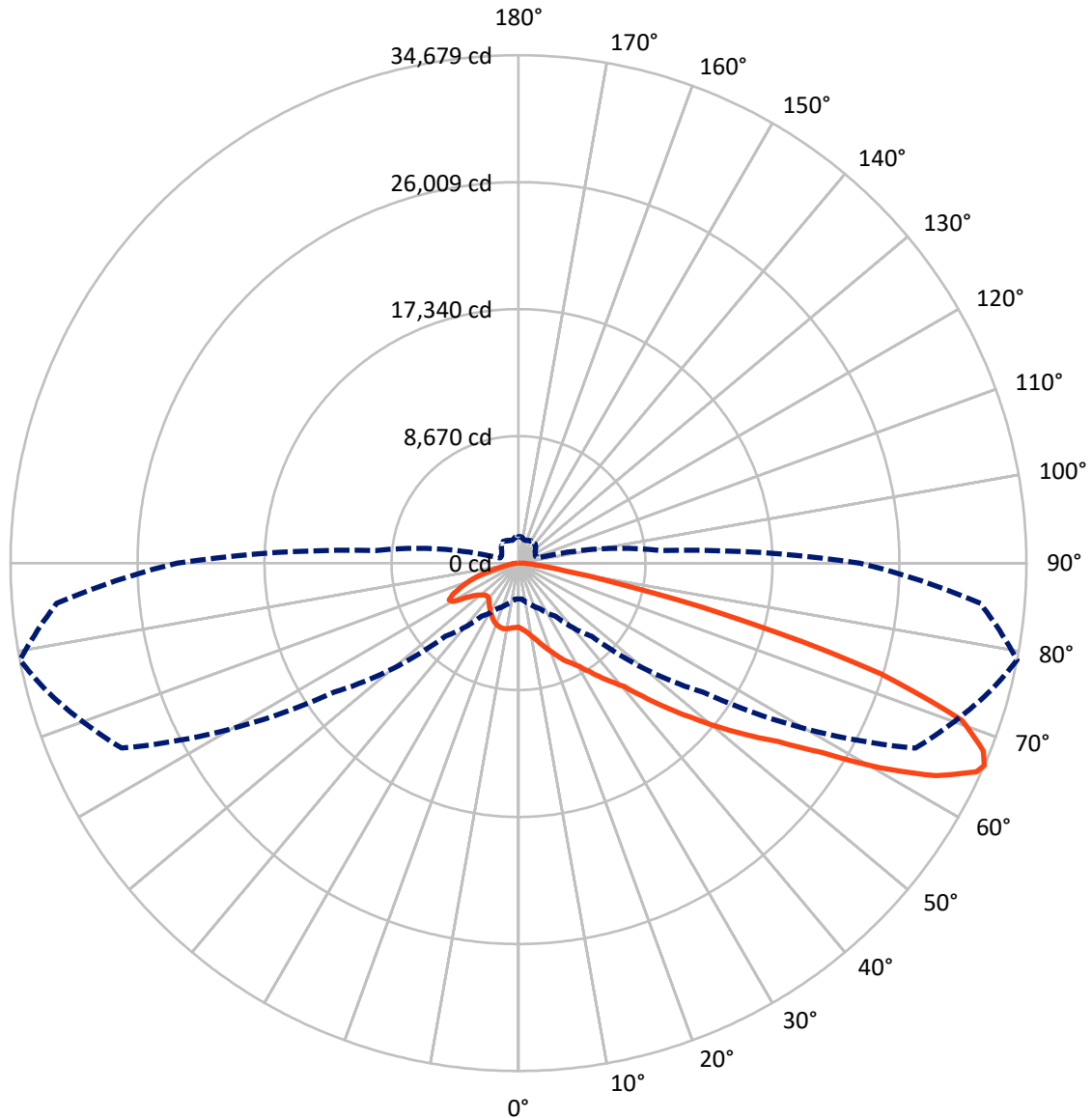
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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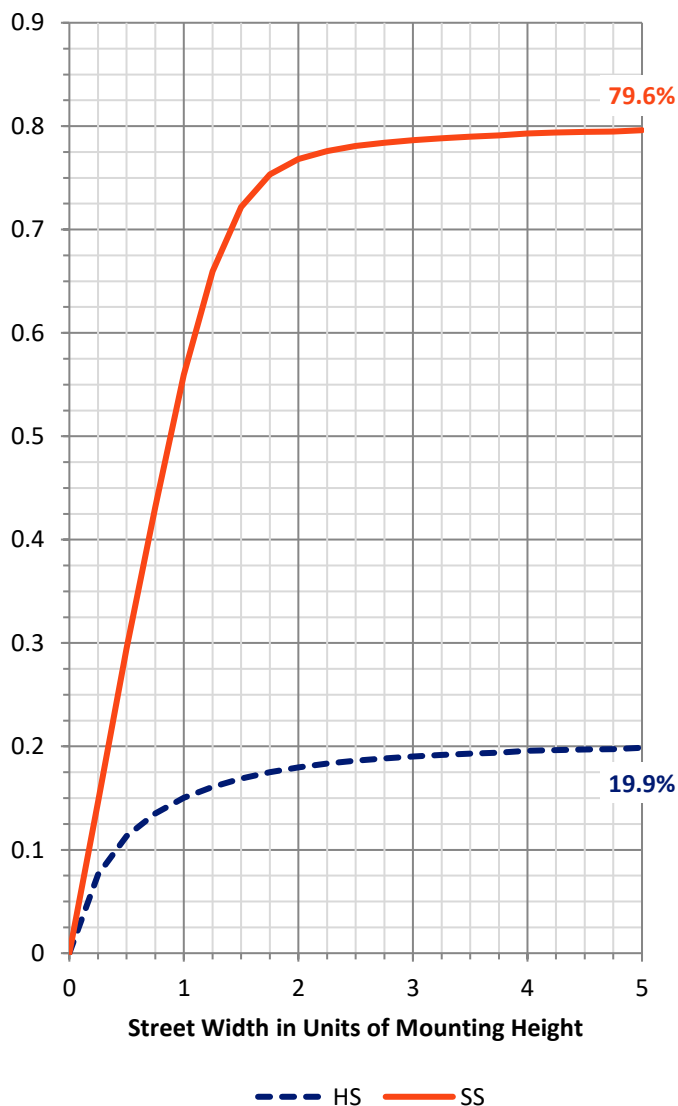
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7008.8   | 0.0    | 7008.8  |
|                    | % Fixture | 20.2     | 0.0    | 20.2    |
| <b>Street Side</b> | Lumens    | 27699.1  | 0.0    | 27699.1 |
|                    | % Fixture | 79.8     | 0.0    | 79.8    |
| <b>Total</b>       | Lumens    | 34707.8  | 0.0    | 34707.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 430.9   | 1.2       |
| 10°-20°   | 1330.7  | 3.8       |
| 20°-30°   | 2284.2  | 6.6       |
| 30°-40°   | 3528.7  | 10.2      |
| 40°-50°   | 5652.1  | 16.3      |
| 50°-60°   | 8439.0  | 24.3      |
| 60°-70°   | 8671.0  | 25.0      |
| 70°-80°   | 3843.7  | 11.1      |
| 80°-90°   | 527.4   | 1.5       |
| 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°    | 34707.8 | 100.0     |
| 0°-180°   | 34707.8 | 100.0     |

**Coefficient of Utilization**



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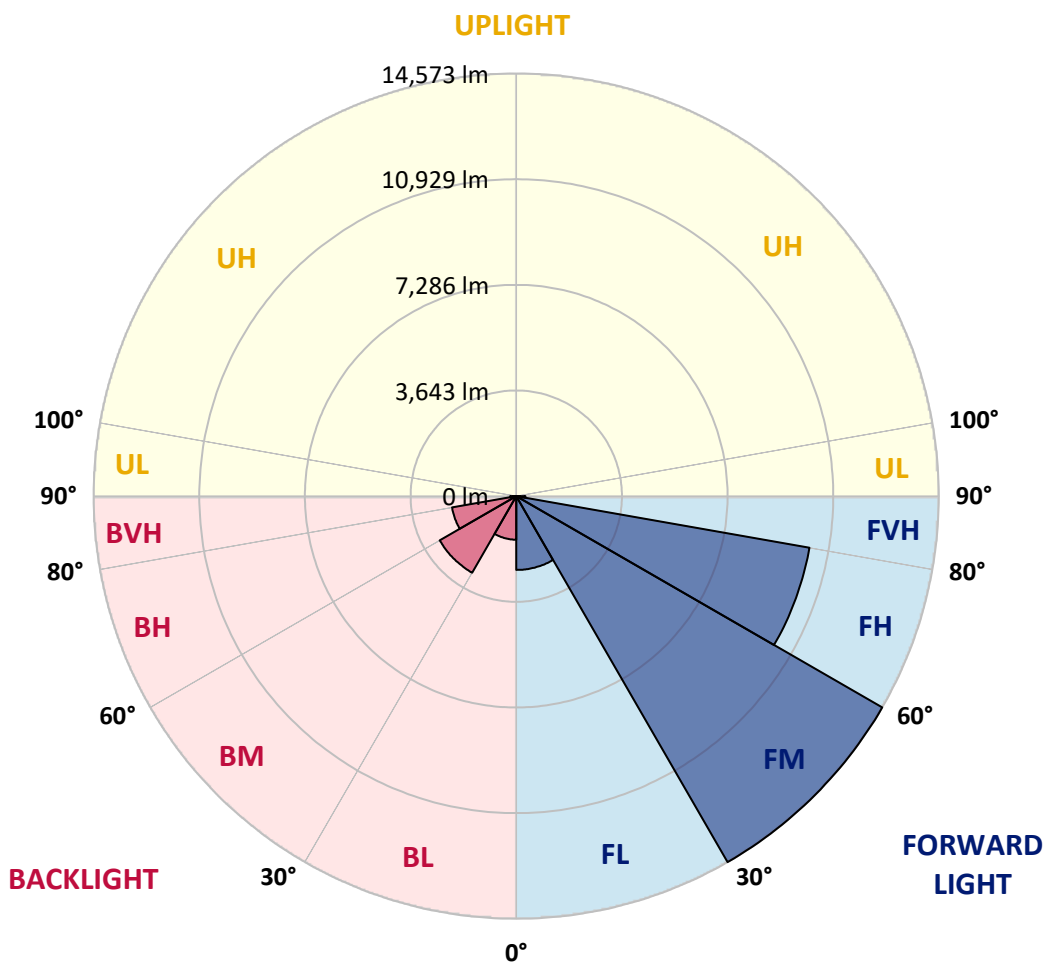
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2544.3  | 7.3       |                         |      |          |
| FM (30°-60°)   | 14572.7 | 42.0      |                         |      |          |
| FH (60°-80°)   | 10265.8 | 29.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 316.3   | 0.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1501.6  | 4.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 3047.1  | 8.8       | B3/5000                 |      |          |
| BH (60°-80°)   | 2249.0  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 211.1   | 0.6       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4382.6  | 4382.6  | 4382.6  | 4382.6  | 4382.6  | 4382.6  | 4382.6  | 4382.6  | 4382.6  | 4382.6  | 4382.6  |
| 2.5°  | 4661.3  | 4665.1  | 4665.1  | 4649.9  | 4653.7  | 4665.1  | 4623.1  | 4531.5  | 4531.5  | 4516.3  | 4489.5  |
| 5°    | 4947.6  | 4928.6  | 4901.8  | 4905.7  | 4890.4  | 4890.4  | 4844.6  | 4756.8  | 4680.4  | 4649.9  | 4569.7  |
| 7.5°  | 4985.8  | 5004.9  | 5001.1  | 5046.9  | 5069.8  | 5069.8  | 5092.7  | 5020.2  | 4905.7  | 4833.1  | 4752.9  |
| 10°   | 5062.2  | 5012.5  | 5008.7  | 5115.6  | 5150.0  | 5230.2  | 5321.8  | 5283.6  | 5188.2  | 5085.1  | 4978.2  |
| 12.5° | 5108.0  | 5138.5  | 5138.5  | 5192.0  | 5272.1  | 5390.5  | 5550.8  | 5623.4  | 5474.5  | 5367.6  | 5203.4  |
| 15°   | 5176.7  | 5134.7  | 5256.9  | 5302.7  | 5455.4  | 5539.4  | 5768.4  | 5955.5  | 5856.2  | 5726.4  | 5466.8  |
| 17.5° | 5207.2  | 5180.5  | 5249.2  | 5333.2  | 5592.8  | 5718.8  | 5997.5  | 6257.1  | 6173.1  | 6089.1  | 5821.9  |
| 20°   | 5363.8  | 5360.0  | 5390.5  | 5459.2  | 5646.3  | 5894.4  | 6241.8  | 6600.7  | 6631.2  | 6478.5  | 6115.8  |
| 22.5° | 5745.5  | 5695.9  | 5695.9  | 5669.2  | 5749.3  | 6005.1  | 6474.7  | 6971.0  | 7108.4  | 6929.0  | 6448.0  |
| 25°   | 6096.8  | 6165.5  | 6123.5  | 6001.3  | 5970.8  | 6104.4  | 6642.7  | 7364.2  | 7547.5  | 7379.5  | 6898.5  |
| 27.5° | 6547.2  | 6570.1  | 6642.7  | 6478.5  | 6268.5  | 6310.5  | 6825.9  | 7585.6  | 7963.6  | 7738.3  | 7154.2  |
| 30°   | 7196.2  | 7154.2  | 7139.0  | 6955.7  | 6680.9  | 6623.6  | 7035.9  | 7910.1  | 8509.5  | 8192.6  | 7455.8  |
| 32.5° | 7635.3  | 7738.3  | 7734.5  | 7482.6  | 7150.4  | 7024.4  | 7295.5  | 8215.5  | 9093.6  | 8799.6  | 8013.2  |
| 35°   | 8505.7  | 8612.6  | 8528.6  | 8158.3  | 7768.9  | 7516.9  | 7669.6  | 8612.6  | 9761.7  | 9532.6  | 8486.6  |
| 37.5° | 9616.6  | 9868.6  | 9689.1  | 9005.8  | 8456.0  | 8181.2  | 8188.8  | 9044.0  | 10445.0 | 10258.0 | 8994.3  |
| 40°   | 10384.0 | 10723.7 | 10475.6 | 9834.2  | 9250.1  | 8990.5  | 8887.4  | 9555.5  | 11262.0 | 11063.5 | 9788.4  |
| 42.5° | 11334.5 | 11617.0 | 11487.2 | 10853.5 | 10170.2 | 9948.7  | 9742.6  | 10410.7 | 12510.4 | 12418.7 | 10807.7 |
| 45°   | 12372.9 | 12506.6 | 12464.6 | 12063.7 | 11304.0 | 11227.6 | 10773.3 | 11536.9 | 13980.2 | 14018.3 | 12082.8 |
| 47.5° | 13338.8 | 13411.3 | 13491.5 | 13201.4 | 12728.0 | 12792.9 | 11960.6 | 12743.2 | 15408.0 | 15659.9 | 13503.0 |
| 50°   | 13586.9 | 13835.1 | 14022.2 | 14216.9 | 14319.9 | 14759.0 | 13270.1 | 14224.5 | 17049.5 | 17538.2 | 15083.5 |
| 52.5° | 13335.0 | 13315.9 | 13884.7 | 14495.5 | 15526.3 | 16446.3 | 15052.9 | 16064.6 | 18500.2 | 19466.1 | 16530.3 |
| 55°   | 12189.7 | 12151.5 | 13067.7 | 13877.1 | 15889.0 | 17385.5 | 17599.3 | 18515.5 | 20252.5 | 21508.5 | 18488.8 |
| 57.5° | 10185.4 | 9948.7  | 10949.0 | 12277.5 | 15102.5 | 17488.6 | 20157.1 | 22153.7 | 22947.8 | 24379.4 | 21478.0 |
| 60°   | 6845.0  | 6745.8  | 7704.0  | 9288.3  | 12262.2 | 16026.4 | 21688.0 | 26708.1 | 26746.3 | 28357.4 | 26116.4 |
| 62.5° | 4214.7  | 4233.8  | 4848.4  | 6035.7  | 8585.8  | 12705.1 | 21027.5 | 30346.3 | 30354.0 | 31968.8 | 29934.0 |
| 65°   | 2756.3  | 2767.8  | 3264.1  | 3920.7  | 5363.8  | 8616.4  | 17389.3 | 30632.7 | 32862.2 | 34362.5 | 31682.5 |
| 66°   | 2454.7  | 2458.6  | 2886.1  | 3420.6  | 4443.7  | 7051.2  | 15358.3 | 29888.2 | 33427.2 | 34679.3 | 31659.6 |
| 67.5° | 2069.2  | 2118.8  | 2462.4  | 2874.7  | 3466.4  | 5066.0  | 12185.9 | 27735.1 | 33137.0 | 34236.5 | 30941.9 |
| 70°   | 1618.7  | 1645.4  | 1916.4  | 2336.4  | 2599.8  | 2931.9  | 7242.0  | 22608.0 | 30331.1 | 32113.9 | 28330.6 |
| 72.5° | 1298.0  | 1320.9  | 1527.1  | 1897.4  | 2111.1  | 1931.7  | 3943.6  | 16404.4 | 23959.4 | 25860.6 | 22283.5 |
| 75°   | 1095.7  | 1099.5  | 1198.7  | 1492.7  | 1737.0  | 1450.7  | 2099.7  | 10529.0 | 15373.6 | 16259.3 | 13651.8 |
| 77.5° | 885.7   | 901.0   | 969.7   | 1137.7  | 1397.3  | 1141.5  | 1252.2  | 5898.2  | 7719.2  | 7784.1  | 6310.5  |
| 80°   | 721.5   | 729.2   | 771.2   | 828.4   | 1065.1  | 843.7   | 847.5   | 2878.5  | 3309.9  | 3233.5  | 2565.4  |
| 82.5° | 568.8   | 576.5   | 626.1   | 614.6   | 782.6   | 603.2   | 526.8   | 1385.8  | 1523.2  | 1492.7  | 1179.6  |
| 85°   | 320.7   | 320.7   | 492.5   | 492.5   | 496.3   | 381.8   | 320.7   | 652.8   | 805.5   | 752.1   | 553.6   |
| 87.5° | 103.1   | 106.9   | 148.9   | 156.5   | 248.1   | 171.8   | 156.5   | 244.3   | 381.8   | 336.0   | 198.5   |
| 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°    | 4382.6  | 4382.6  | 4382.6 | 4382.6 | 4382.6 | 4382.6 | 4382.6 | 4382.6 | 4382.6 | 4382.6 | 4382.6 |
| 2.5°  | 4474.3  | 4413.2  | 4386.5 | 4298.7 | 4275.7 | 4218.5 | 4191.8 | 4157.4 | 4145.9 | 4096.3 | 4142.1 |
| 5°    | 4508.6  | 4489.5  | 4382.6 | 4271.9 | 4187.9 | 4149.8 | 4092.5 | 4016.1 | 4008.5 | 3939.8 | 3932.2 |
| 7.5°  | 4653.7  | 4588.8  | 4401.7 | 4283.4 | 4115.4 | 4020.0 | 3894.0 | 3855.8 | 3806.2 | 3783.3 | 3832.9 |
| 10°   | 4878.9  | 4714.8  | 4436.1 | 4138.3 | 3932.2 | 3817.6 | 3726.0 | 3699.3 | 3703.1 | 3687.8 | 3664.9 |
| 12.5° | 5039.3  | 4882.7  | 4378.8 | 4016.1 | 3748.9 | 3638.2 | 3630.6 | 3657.3 | 3699.3 | 3680.2 | 3706.9 |
| 15°   | 5268.3  | 4974.4  | 4336.8 | 3813.8 | 3600.0 | 3569.5 | 3565.7 | 3645.8 | 3642.0 | 3642.0 | 3638.2 |
| 17.5° | 5482.1  | 5066.0  | 4184.1 | 3638.2 | 3443.5 | 3466.4 | 3493.1 | 3489.3 | 3527.5 | 3542.8 | 3569.5 |
| 20°   | 5753.2  | 5172.9  | 3970.3 | 3462.6 | 3325.2 | 3317.5 | 3313.7 | 3317.5 | 3355.7 | 3378.6 | 3359.5 |
| 22.5° | 5989.9  | 5195.8  | 3790.9 | 3294.6 | 3183.9 | 3153.4 | 3103.7 | 3153.4 | 3134.3 | 3141.9 | 3164.8 |
| 25°   | 6196.0  | 5199.6  | 3535.1 | 3168.6 | 3042.7 | 2973.9 | 2935.8 | 2931.9 | 2897.6 | 2893.8 | 2893.8 |
| 27.5° | 6367.8  | 5069.8  | 3309.9 | 2993.0 | 2874.7 | 2809.8 | 2806.0 | 2764.0 | 2676.2 | 2618.9 | 2626.5 |
| 30°   | 6501.4  | 4970.6  | 3153.4 | 2840.3 | 2725.8 | 2714.3 | 2680.0 | 2584.5 | 2470.0 | 2397.5 | 2397.5 |
| 32.5° | 6738.1  | 4772.0  | 2939.6 | 2683.8 | 2626.5 | 2611.3 | 2531.1 | 2447.1 | 2340.2 | 2271.5 | 2260.0 |
| 35°   | 6913.7  | 4588.8  | 2798.3 | 2550.2 | 2523.5 | 2492.9 | 2424.2 | 2332.6 | 2302.0 | 2286.8 | 2298.2 |
| 37.5° | 7112.2  | 4382.6  | 2626.5 | 2435.6 | 2462.4 | 2405.1 | 2324.9 | 2282.9 | 2389.8 | 2363.1 | 2374.6 |
| 40°   | 7429.1  | 4237.6  | 2458.6 | 2366.9 | 2393.7 | 2328.8 | 2225.7 | 2210.4 | 2344.0 | 2248.6 | 2225.7 |
| 42.5° | 8009.4  | 4233.8  | 2355.5 | 2263.9 | 2282.9 | 2233.3 | 2141.7 | 2134.1 | 2187.5 | 2073.0 | 2038.6 |
| 45°   | 8730.9  | 4367.4  | 2279.1 | 2187.5 | 2172.2 | 2164.6 | 2134.1 | 2099.7 | 2053.9 | 1905.0 | 1866.8 |
| 47.5° | 9593.7  | 4585.0  | 2263.9 | 2073.0 | 2092.1 | 2157.0 | 2118.8 | 2031.0 | 1912.6 | 1817.2 | 1798.1 |
| 50°   | 10639.7 | 5035.5  | 2225.7 | 1989.0 | 2023.3 | 2126.4 | 2095.9 | 1973.7 | 1866.8 | 1805.7 | 1794.3 |
| 52.5° | 11796.5 | 5604.3  | 2176.0 | 1859.2 | 1935.5 | 2099.7 | 2115.0 | 2000.4 | 1843.9 | 1790.5 | 1782.8 |
| 55°   | 13159.4 | 6444.2  | 2118.8 | 1717.9 | 1832.5 | 2073.0 | 2115.0 | 1924.1 | 1813.4 | 1813.4 | 1805.7 |
| 57.5° | 15850.8 | 7955.9  | 2000.4 | 1588.1 | 1740.8 | 2023.3 | 2053.9 | 1927.9 | 1817.2 | 1817.2 | 1801.9 |
| 60°   | 19798.2 | 10315.2 | 1775.2 | 1488.9 | 1653.0 | 1954.6 | 2008.1 | 1870.6 | 1775.2 | 1798.1 | 1794.3 |
| 62.5° | 22886.7 | 11032.9 | 1584.3 | 1393.4 | 1565.2 | 1828.6 | 1947.0 | 1809.6 | 1725.6 | 1809.6 | 1817.2 |
| 65°   | 23547.1 | 10307.6 | 1389.6 | 1290.4 | 1443.1 | 1706.5 | 1859.2 | 1721.8 | 1653.0 | 1817.2 | 1824.8 |
| 66°   | 23310.4 | 9742.6  | 1320.9 | 1259.8 | 1389.6 | 1645.4 | 1805.7 | 1691.2 | 1614.9 | 1809.6 | 1813.4 |
| 67.5° | 22256.8 | 8895.1  | 1244.5 | 1194.9 | 1317.1 | 1557.6 | 1744.7 | 1649.2 | 1553.8 | 1786.7 | 1752.3 |
| 70°   | 19966.2 | 7543.6  | 1114.7 | 1080.4 | 1214.0 | 1412.5 | 1603.4 | 1542.3 | 1458.3 | 1645.4 | 1584.3 |
| 72.5° | 15377.4 | 6028.0  | 977.3  | 981.1  | 1095.7 | 1263.6 | 1462.2 | 1420.2 | 1347.6 | 1443.1 | 1404.9 |
| 75°   | 9364.6  | 3852.0  | 851.3  | 859.0  | 954.4  | 1122.4 | 1328.5 | 1298.0 | 1210.2 | 1263.6 | 1244.5 |
| 77.5° | 4149.8  | 1908.8  | 717.7  | 733.0  | 809.3  | 988.8  | 1156.7 | 1107.1 | 1015.5 | 1026.9 | 1019.3 |
| 80°   | 1611.0  | 904.8   | 584.1  | 603.2  | 652.8  | 790.2  | 958.2  | 912.4  | 832.2  | 817.0  | 809.3  |
| 82.5° | 775.0   | 503.9   | 450.5  | 458.1  | 477.2  | 629.9  | 824.6  | 767.3  | 660.4  | 591.7  | 591.7  |
| 85°   | 389.4   | 313.0   | 316.9  | 290.1  | 316.9  | 427.6  | 557.4  | 465.8  | 385.6  | 343.6  | 351.2  |
| 87.5° | 156.5   | 156.5   | 156.5  | 133.6  | 141.3  | 202.3  | 259.6  | 175.6  | 160.3  | 95.4   | 95.4   |
| 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)