

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: P639128

Luminaire Tested: **USSL-M-C099-D-U-T4-BZ-7050-HSS**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-M-C099-D-U-T4-BZ-7050-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63997 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 486.6  
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: 24 FT

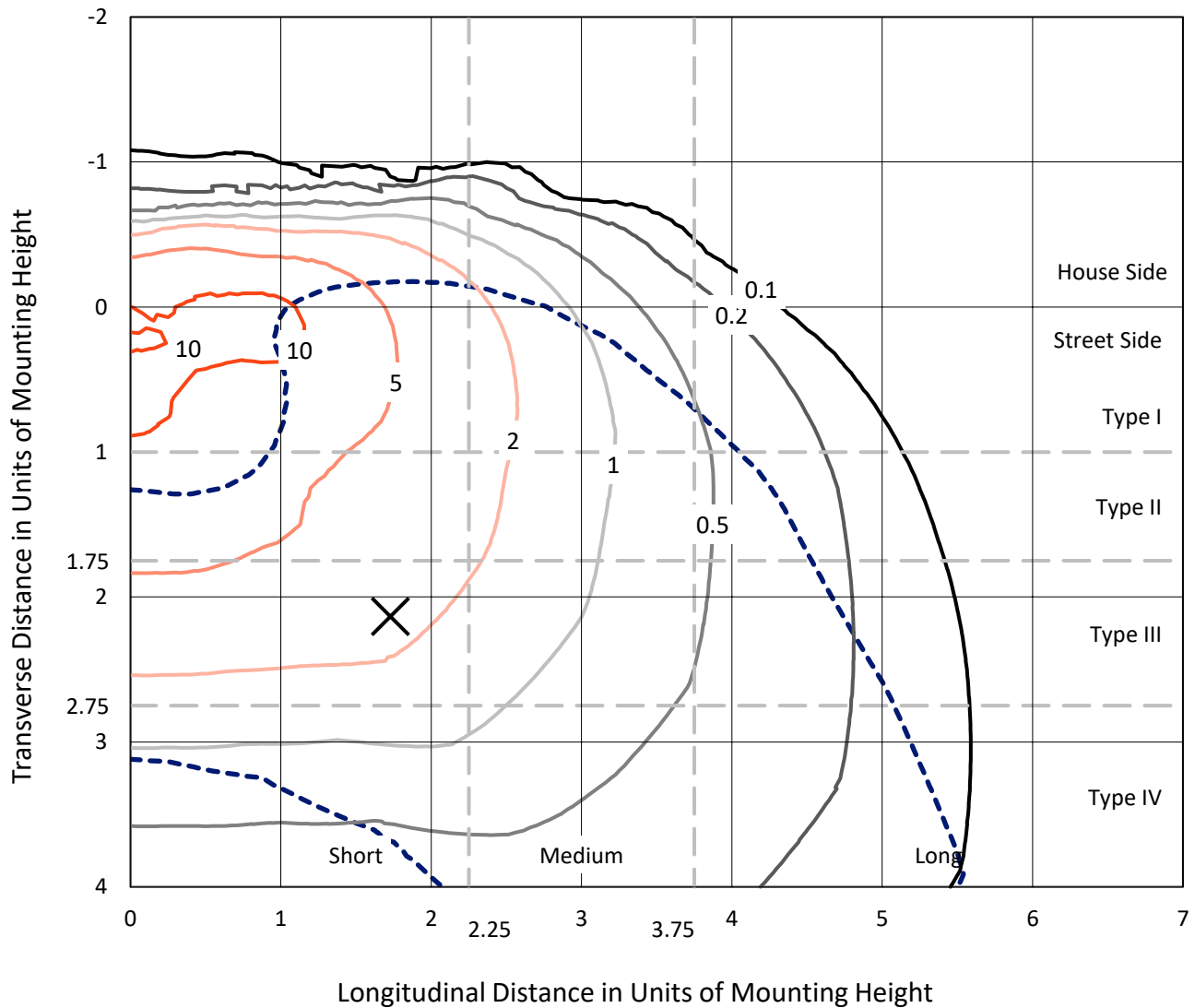


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

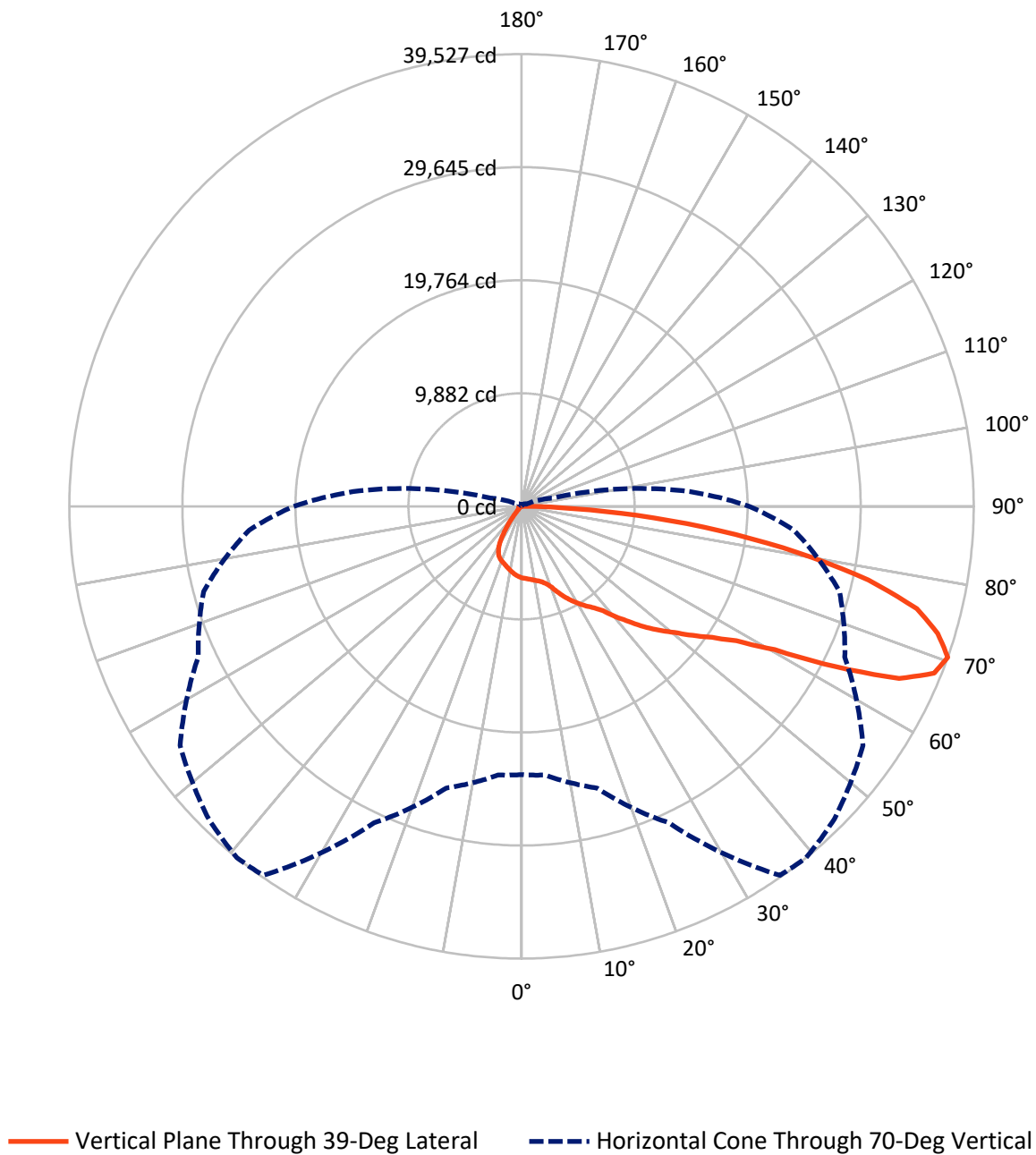


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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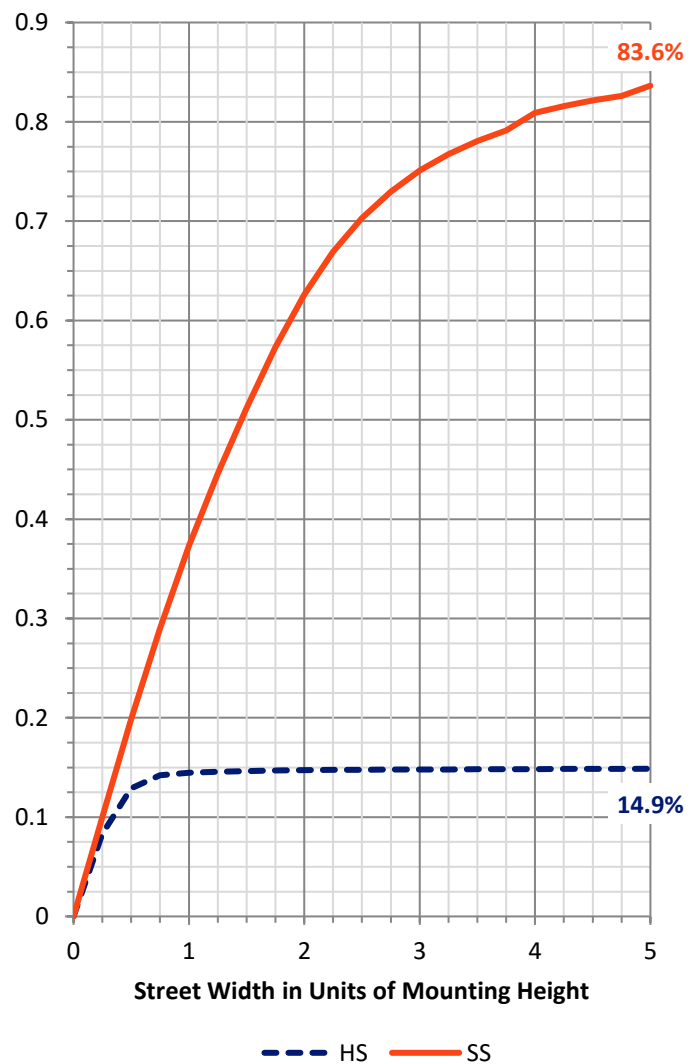
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9623.0   | 0.0    | 9623.0  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 54374.0  | 0.0    | 54374.0 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 63997.0  | 0.0    | 63997.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 594.2   | 0.9       |
| 10°-20°   | 1793.4  | 2.8       |
| 20°-30°   | 3307.5  | 5.2       |
| 30°-40°   | 5231.2  | 8.2       |
| 40°-50°   | 8200.8  | 12.8      |
| 50°-60°   | 12107.4 | 18.9      |
| 60°-70°   | 16602.0 | 25.9      |
| 70°-80°   | 13283.8 | 20.8      |
| 80°-90°   | 2876.7  | 4.5       |
| 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°    | 63997.0 | 100.0     |
| 0°-180°   | 63997.0 | 100.0     |

**Coefficient of Utilization**



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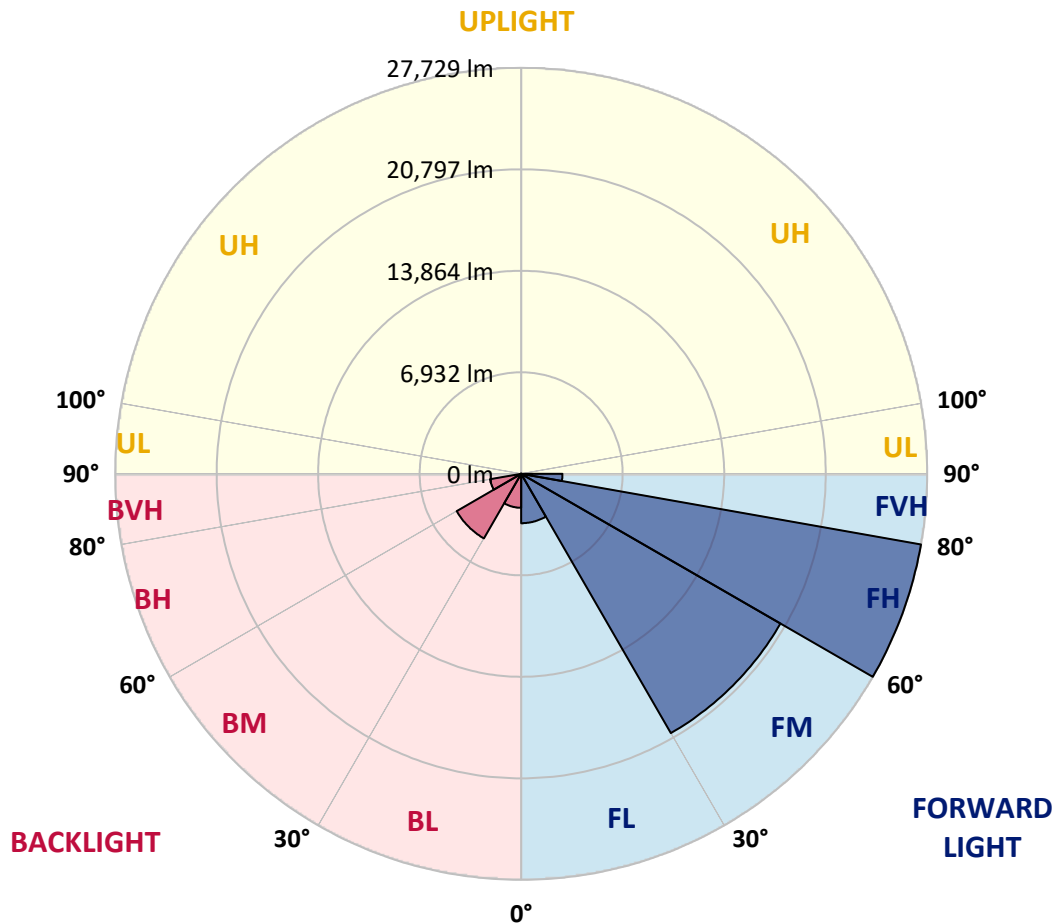
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3375.3  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 20449.8 | 32.0      |                         |      |         |
| FH   | (60°-80°)   | 27728.8 | 43.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 2820.1  | 4.4       |                         |      | G5      |
| BL   | (0°-30°)    | 2319.8  | 3.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5089.6  | 8.0       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2157.0  | 3.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 56.6    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6253.3  | 6253.3  | 6253.3  | 6253.3  | 6253.3  | 6253.3  | 6253.3  | 6253.3  | 6253.3  | 6253.3  | 6253.3  |
| 2.5°  | 6355.7  | 6346.0  | 6376.5  | 6340.5  | 6330.8  | 6299.0  | 6301.7  | 6317.0  | 6329.4  | 6303.1  | 6300.3  |
| 5°    | 6431.9  | 6429.1  | 6449.9  | 6415.2  | 6408.3  | 6382.0  | 6372.3  | 6387.6  | 6391.7  | 6351.6  | 6333.6  |
| 7.5°  | 6505.2  | 6502.5  | 6531.5  | 6491.4  | 6499.7  | 6467.9  | 6455.4  | 6467.9  | 6473.4  | 6424.9  | 6405.6  |
| 10°   | 6553.7  | 6550.9  | 6582.8  | 6563.4  | 6598.0  | 6578.6  | 6574.4  | 6595.2  | 6611.8  | 6541.2  | 6510.8  |
| 12.5° | 6621.5  | 6620.1  | 6660.3  | 6652.0  | 6704.6  | 6693.5  | 6712.9  | 6754.4  | 6780.7  | 6715.7  | 6663.0  |
| 15°   | 6730.9  | 6743.3  | 6780.7  | 6787.6  | 6861.0  | 6867.9  | 6898.4  | 6966.2  | 7007.8  | 6941.3  | 6892.9  |
| 17.5° | 7039.6  | 7017.5  | 7070.1  | 7074.2  | 7106.1  | 7126.8  | 7150.4  | 7258.3  | 7319.2  | 7280.5  | 7245.9  |
| 20°   | 7634.9  | 7630.7  | 7629.4  | 7598.9  | 7582.3  | 7551.8  | 7560.1  | 7618.3  | 7711.0  | 7716.6  | 7724.9  |
| 22.5° | 8382.5  | 8414.3  | 8400.5  | 8307.7  | 8198.3  | 8167.9  | 8129.1  | 8120.8  | 8180.3  | 8214.9  | 8263.4  |
| 25°   | 9113.4  | 9091.3  | 9121.7  | 8929.3  | 8810.2  | 8768.7  | 8749.3  | 8774.2  | 8801.9  | 8842.1  | 8919.6  |
| 27.5° | 9654.7  | 9628.4  | 9603.5  | 9473.4  | 9370.9  | 9326.6  | 9341.8  | 9434.6  | 9538.4  | 9560.6  | 9685.2  |
| 30°   | 10121.2 | 10072.8 | 10042.3 | 9975.9  | 9905.3  | 9852.7  | 9867.9  | 10083.9 | 10353.8 | 10449.3 | 10676.4 |
| 32.5° | 10938.0 | 10910.3 | 10752.5 | 10413.4 | 10387.0 | 10378.7 | 10394.0 | 10748.4 | 11167.8 | 11440.6 | 11806.0 |
| 35°   | 11879.4 | 11850.3 | 11699.4 | 11361.7 | 10929.7 | 10881.3 | 10947.7 | 11347.8 | 12035.9 | 12736.4 | 13317.8 |
| 37.5° | 12905.2 | 12919.1 | 12786.2 | 12361.2 | 11829.6 | 11579.0 | 11504.2 | 12034.5 | 12919.1 | 14386.5 | 14961.1 |
| 40°   | 14293.8 | 14221.8 | 13928.3 | 13342.7 | 12912.2 | 12678.2 | 12307.2 | 12743.3 | 14008.6 | 16151.6 | 16853.5 |
| 42.5° | 15372.2 | 15375.0 | 15052.4 | 14472.4 | 13895.1 | 13760.8 | 13514.4 | 13676.3 | 15319.6 | 18167.3 | 18575.7 |
| 45°   | 16233.3 | 16309.4 | 16114.3 | 15564.7 | 15174.3 | 15001.2 | 14806.0 | 15152.1 | 16889.5 | 20149.7 | 20189.9 |
| 47.5° | 17030.7 | 17083.3 | 16892.3 | 16536.5 | 16262.4 | 16162.7 | 16248.5 | 16926.9 | 18552.2 | 21907.9 | 21553.5 |
| 50°   | 18318.2 | 18249.0 | 17570.6 | 17315.9 | 17239.8 | 17321.4 | 17668.9 | 18649.1 | 20818.4 | 23450.1 | 22872.8 |
| 52.5° | 20537.4 | 20109.6 | 18894.1 | 18478.8 | 18524.5 | 18739.0 | 19126.7 | 20248.0 | 23026.5 | 24889.9 | 23891.7 |
| 55°   | 23588.6 | 22976.7 | 21452.4 | 20220.3 | 19962.8 | 20205.1 | 20645.3 | 21787.5 | 25017.2 | 26116.4 | 24718.2 |
| 57.5° | 25663.7 | 25543.3 | 24877.4 | 23398.9 | 21873.3 | 22158.5 | 22468.6 | 23475.0 | 26570.5 | 27301.5 | 25422.9 |
| 60°   | 27635.1 | 27725.1 | 28234.5 | 27469.0 | 25914.3 | 25443.6 | 24649.0 | 25229.0 | 28042.1 | 28288.5 | 25890.8 |
| 62.5° | 29191.2 | 29339.3 | 30748.6 | 30805.4 | 31702.4 | 30889.8 | 28713.5 | 27208.7 | 29361.4 | 28939.2 | 26050.0 |
| 65°   | 29103.9 | 29177.3 | 31259.4 | 32722.7 | 35970.5 | 36268.1 | 34810.4 | 29933.2 | 30705.7 | 29264.5 | 25889.4 |
| 67.5° | 26641.1 | 26902.8 | 28800.8 | 32510.9 | 38490.1 | 38905.4 | 38156.4 | 34462.9 | 31474.0 | 29221.6 | 25252.6 |
| 70°   | 23457.0 | 23571.9 | 25487.9 | 30524.3 | 39371.9 | 39527.0 | 38665.9 | 36434.3 | 31179.1 | 28768.9 | 23897.3 |
| 72.5° | 19256.8 | 19519.8 | 21376.3 | 26551.1 | 38137.1 | 38042.9 | 37552.9 | 36016.2 | 30612.9 | 27525.7 | 20929.1 |
| 75°   | 14963.8 | 15139.6 | 16845.2 | 21690.6 | 34899.0 | 35683.9 | 35321.2 | 34608.3 | 28911.5 | 24338.9 | 15582.6 |
| 77.5° | 10137.9 | 10614.1 | 12260.1 | 16749.7 | 29001.5 | 31006.1 | 32127.4 | 31557.1 | 24891.3 | 18437.3 | 9016.5  |
| 80°   | 5752.1  | 5606.8  | 7724.9  | 11687.0 | 22248.5 | 24542.4 | 26123.4 | 25326.0 | 17738.1 | 9865.1  | 2377.0  |
| 82.5° | 1832.9  | 2037.8  | 3634.0  | 7089.4  | 15707.2 | 17472.3 | 18635.2 | 16568.3 | 8965.3  | 2570.8  | 488.7   |
| 85°   | 833.4   | 897.1   | 1502.1  | 3463.7  | 9199.2  | 10125.4 | 10198.8 | 7309.6  | 1442.5  | 510.8   | 304.6   |
| 87.5° | 348.9   | 348.9   | 711.6   | 1553.3  | 3967.6  | 3220.1  | 2035.0  | 2087.7  | 292.1   | 231.2   | 159.2   |
| 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°    | 6253.3  | 6253.3  | 6253.3  | 6253.3 | 6253.3 | 6253.3 | 6253.3 | 6253.3 | 6253.3 | 6253.3 | 6253.3 |
| 2.5°  | 6272.7  | 6269.9  | 6254.7  | 6206.2 | 6166.1 | 6155.0 | 6155.0 | 6127.3 | 6132.8 | 6137.0 | 6110.7 |
| 5°    | 6300.3  | 6292.0  | 6243.6  | 6163.3 | 6084.4 | 6034.5 | 6016.5 | 5969.5 | 5955.6 | 5934.9 | 5916.9 |
| 7.5°  | 6352.9  | 6329.4  | 6247.7  | 6131.4 | 6009.6 | 5921.0 | 5854.6 | 5767.4 | 5721.7 | 5706.4 | 5667.7 |
| 10°   | 6459.5  | 6418.0  | 6300.3  | 6130.1 | 5947.3 | 5784.0 | 5653.8 | 5526.5 | 5448.9 | 5389.4 | 5363.1 |
| 12.5° | 6606.3  | 6555.1  | 6405.6  | 6175.7 | 5907.2 | 5663.5 | 5451.7 | 5271.7 | 5152.7 | 5083.5 | 5065.5 |
| 15°   | 6827.8  | 6769.6  | 6575.8  | 6272.7 | 5900.3 | 5554.2 | 5252.4 | 4975.5 | 4806.6 | 4679.2 | 4654.3 |
| 17.5° | 7179.4  | 7133.7  | 6870.7  | 6451.2 | 5969.5 | 5493.2 | 5044.7 | 4632.2 | 4331.7 | 4191.9 | 4135.2 |
| 20°   | 7664.0  | 7604.4  | 7295.7  | 6726.7 | 6113.4 | 5466.9 | 4844.0 | 4268.1 | 3829.2 | 3537.1 | 3462.3 |
| 22.5° | 8237.1  | 8148.5  | 7745.6  | 7025.8 | 6246.3 | 5426.8 | 4652.9 | 3905.4 | 3282.4 | 2813.1 | 2760.5 |
| 25°   | 8907.1  | 8806.1  | 8156.8  | 7263.9 | 6300.3 | 5324.3 | 4398.2 | 3490.0 | 2609.6 | 2111.2 | 2083.5 |
| 27.5° | 9650.6  | 9424.9  | 8565.2  | 7448.0 | 6258.8 | 5118.1 | 4024.4 | 2861.5 | 1882.8 | 1497.9 | 1432.8 |
| 30°   | 10522.7 | 10139.2 | 8951.4  | 7560.1 | 6135.6 | 4794.1 | 3490.0 | 2026.7 | 1248.7 | 966.3  | 958.0  |
| 32.5° | 11461.3 | 10929.7 | 9337.7  | 7582.3 | 5904.4 | 4347.0 | 2633.1 | 1281.9 | 711.6  | 556.5  | 563.4  |
| 35°   | 12797.3 | 11979.1 | 9758.5  | 7526.9 | 5533.4 | 3688.0 | 1736.0 | 731.0  | 394.5  | 350.2  | 332.3  |
| 37.5° | 14285.5 | 13272.1 | 10218.2 | 7322.0 | 4981.0 | 2778.5 | 1036.9 | 355.8  | 290.7  | 278.3  | 274.1  |
| 40°   | 16029.8 | 14700.8 | 10752.5 | 7014.7 | 4269.4 | 1907.7 | 487.3  | 279.6  | 265.8  | 258.9  | 258.9  |
| 42.5° | 17648.2 | 16166.9 | 11437.8 | 6604.9 | 3444.4 | 1111.7 | 323.9  | 268.6  | 239.5  | 236.7  | 238.1  |
| 45°   | 19111.4 | 17440.5 | 12060.8 | 6125.9 | 2590.2 | 560.7  | 312.9  | 239.5  | 213.2  | 213.2  | 213.2  |
| 47.5° | 20411.4 | 18495.4 | 12510.7 | 5522.3 | 1774.8 | 371.0  | 312.9  | 218.7  | 193.8  | 192.4  | 193.8  |
| 50°   | 21499.5 | 19382.8 | 12800.0 | 4862.0 | 1045.2 | 347.5  | 286.6  | 207.7  | 175.8  | 180.0  | 180.0  |
| 52.5° | 22339.8 | 20018.2 | 12837.4 | 4045.2 | 573.1  | 339.2  | 272.7  | 192.4  | 160.6  | 184.1  | 189.7  |
| 55°   | 23014.0 | 20434.9 | 12621.4 | 3106.6 | 419.5  | 318.4  | 267.2  | 178.6  | 159.2  | 209.0  | 218.7  |
| 57.5° | 23439.0 | 20621.8 | 12103.7 | 2108.4 | 389.0  | 292.1  | 249.2  | 163.4  | 150.9  | 185.5  | 192.4  |
| 60°   | 23655.0 | 20556.7 | 11324.3 | 1320.7 | 380.7  | 285.2  | 229.8  | 156.4  | 134.3  | 134.3  | 135.7  |
| 62.5° | 23607.9 | 20196.8 | 10255.5 | 791.9  | 355.8  | 274.1  | 216.0  | 150.9  | 112.1  | 91.4   | 91.4   |
| 65°   | 23073.6 | 19395.2 | 8529.2  | 567.6  | 337.8  | 272.7  | 206.3  | 142.6  | 95.5   | 70.6   | 66.5   |
| 67.5° | 21984.0 | 17839.2 | 5958.4  | 495.6  | 346.1  | 272.7  | 206.3  | 137.1  | 90.0   | 56.8   | 51.2   |
| 70°   | 19922.7 | 14765.9 | 2784.0  | 454.1  | 358.6  | 283.8  | 210.4  | 135.7  | 80.3   | 44.3   | 40.1   |
| 72.5° | 16097.6 | 10226.5 | 678.3   | 368.2  | 361.3  | 283.8  | 227.0  | 134.3  | 72.0   | 34.6   | 30.5   |
| 75°   | 10351.1 | 4824.6  | 483.2   | 282.4  | 318.4  | 272.7  | 229.8  | 160.6  | 76.1   | 22.2   | 19.4   |
| 77.5° | 4137.9  | 927.5   | 427.8   | 198.0  | 299.0  | 303.2  | 249.2  | 170.3  | 94.1   | 11.1   | 5.5    |
| 80°   | 713.0   | 431.9   | 400.1   | 132.9  | 246.4  | 310.1  | 196.6  | 141.2  | 90.0   | 4.2    | 0.0    |
| 82.5° | 402.9   | 366.9   | 339.2   | 81.7   | 188.3  | 209.0  | 120.4  | 101.1  | 88.6   | 4.2    | 0.0    |
| 85°   | 303.2   | 304.6   | 148.1   | 62.3   | 90.0   | 130.1  | 47.1   | 29.1   | 80.3   | 2.8    | 0.0    |
| 87.5° | 175.8   | 95.5    | 48.5    | 37.4   | 37.4   | 51.2   | 18.0   | 12.5   | 11.1   | 2.8    | 1.4    |
| 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)