

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: P639044

Luminaire Tested: **USSL-M-C097-D-U-T4-BZ-7050-HSS**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639044  
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-C097-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: 47076 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 346  
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

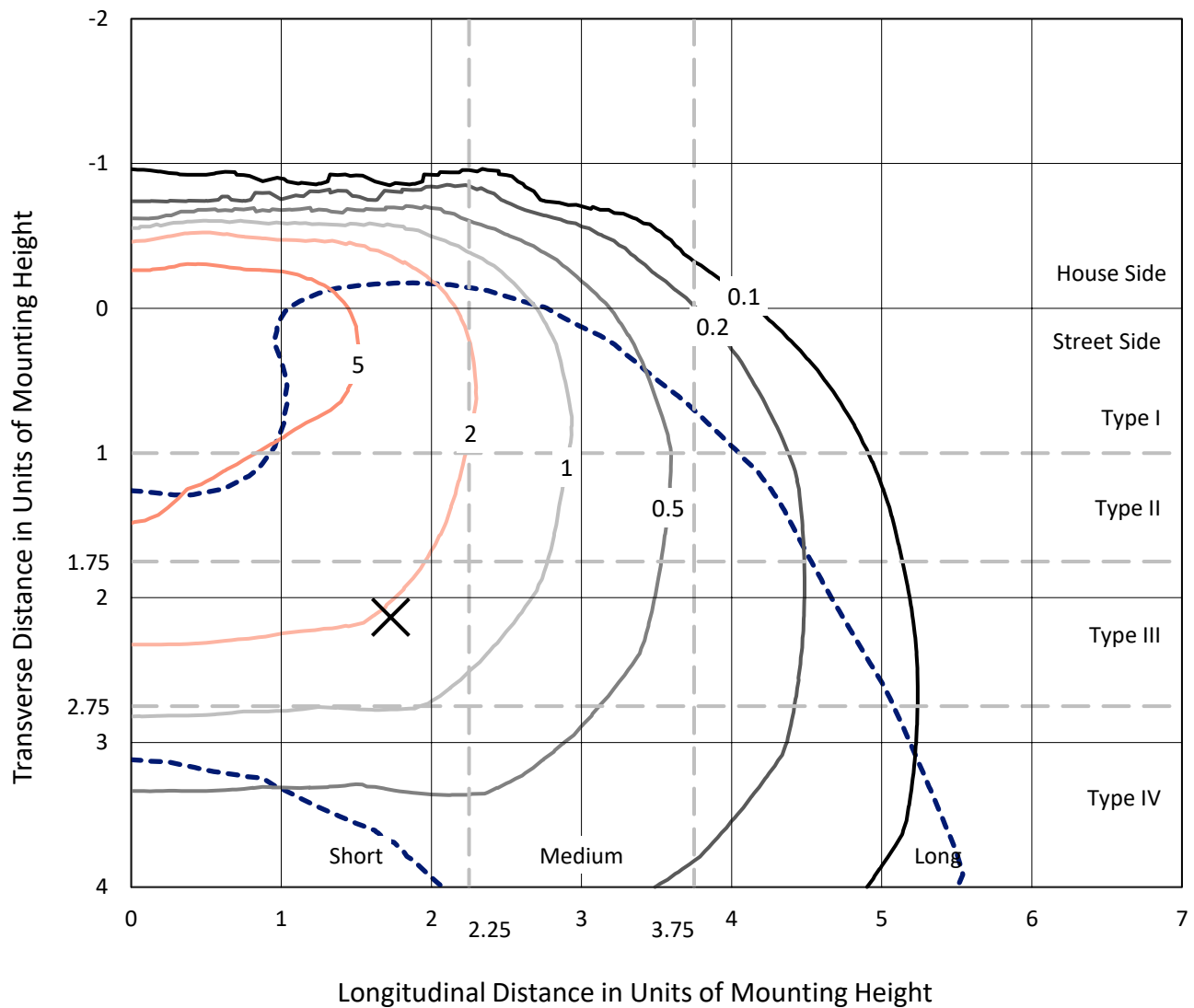


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

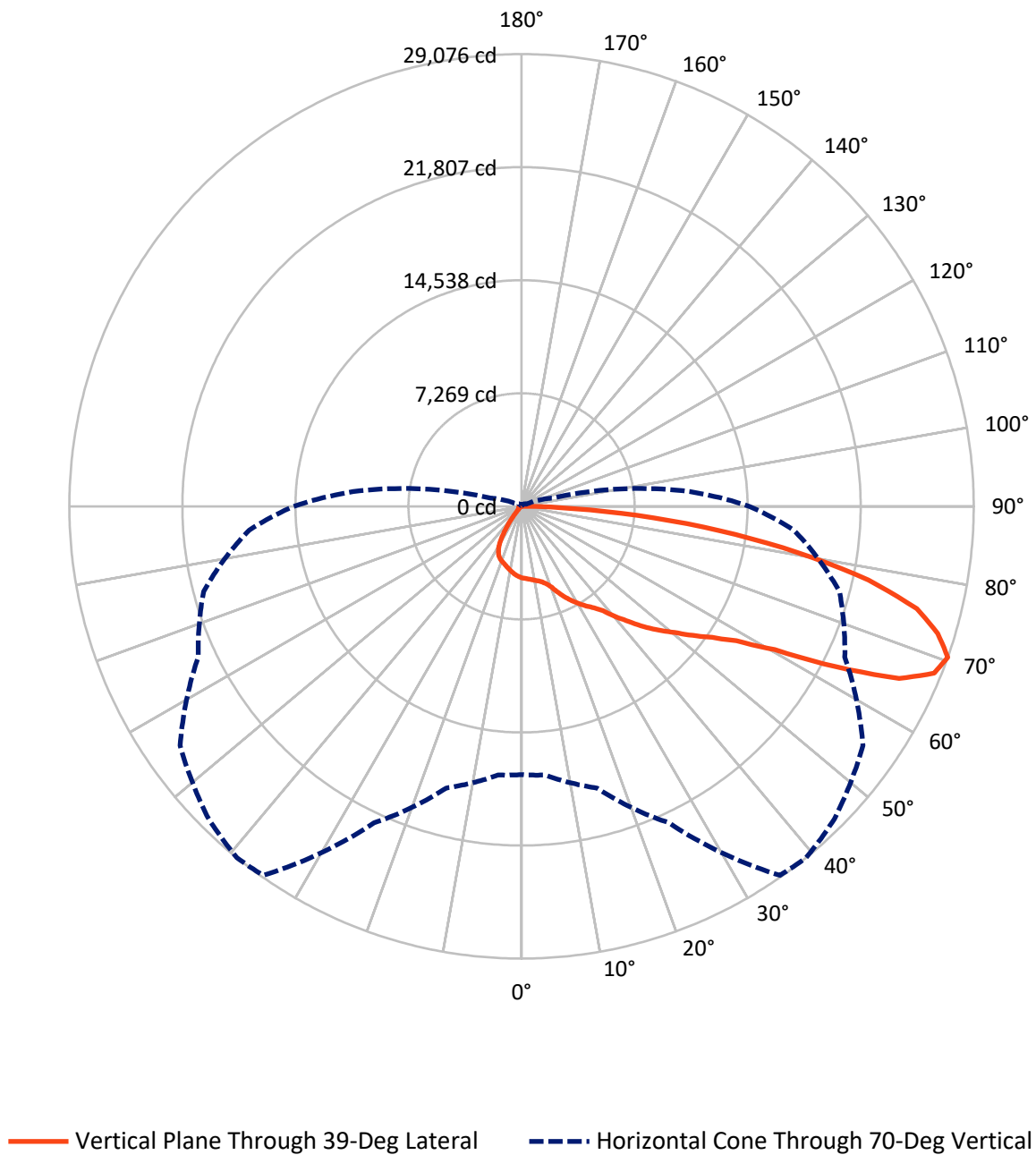


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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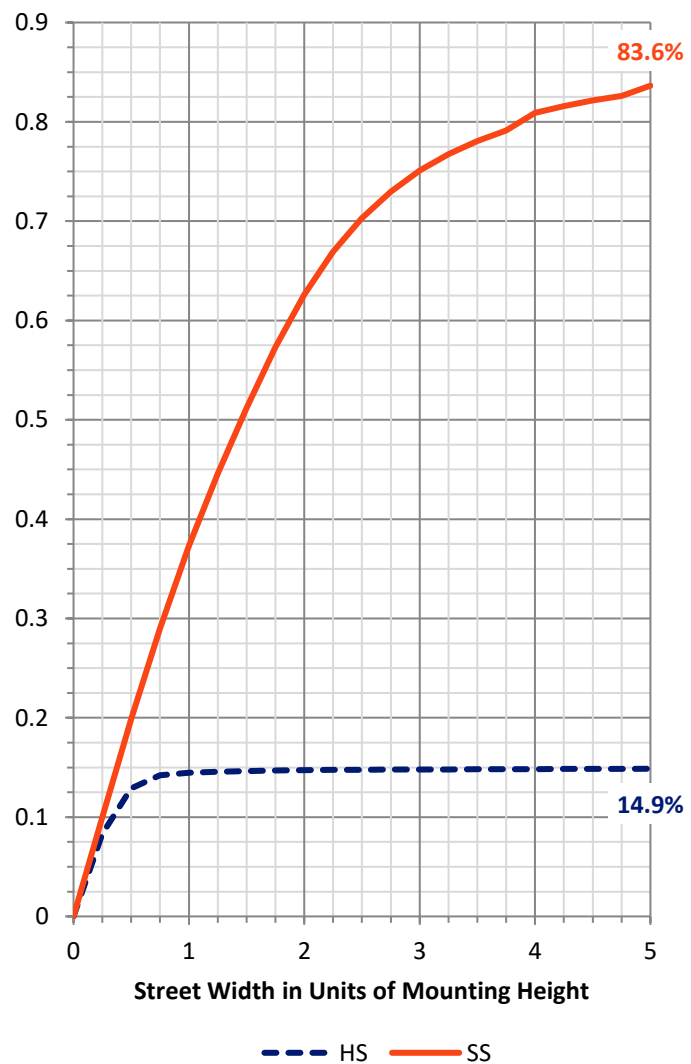
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7078.7   | 0.0    | 7078.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 39997.3  | 0.0    | 39997.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 47076.0  | 0.0    | 47076.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 437.1   | 0.9       |
| 10°-20°   | 1319.2  | 2.8       |
| 20°-30°   | 2433.0  | 5.2       |
| 30°-40°   | 3848.1  | 8.2       |
| 40°-50°   | 6032.4  | 12.8      |
| 50°-60°   | 8906.2  | 18.9      |
| 60°-70°   | 12212.4 | 25.9      |
| 70°-80°   | 9771.5  | 20.8      |
| 80°-90°   | 2116.1  | 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°    | 47076.0 | 100.0     |
| 0°-180°   | 47076.0 | 100.0     |

**Coefficient of Utilization**



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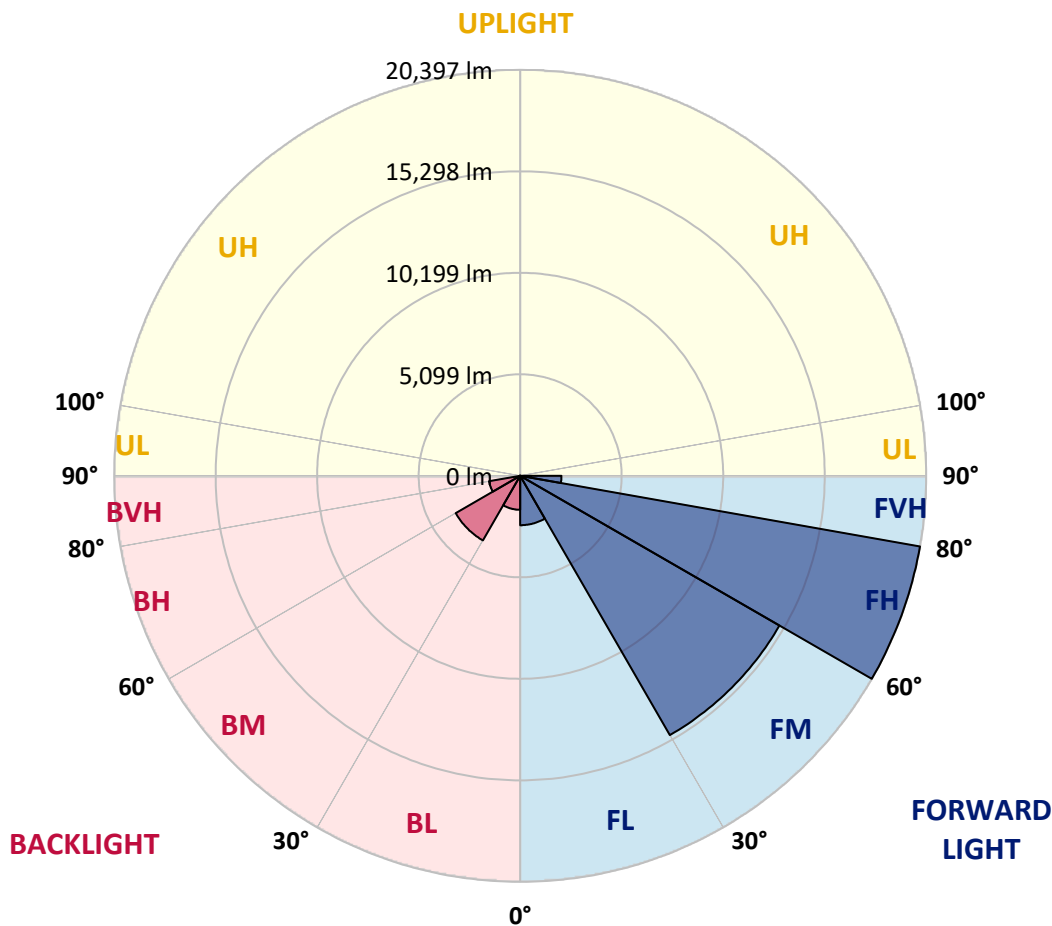
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2482.8  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 15042.8 | 32.0      |                         |      |         |
| FH   | (60°-80°)   | 20397.2 | 43.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 2074.5  | 4.4       |                         |      | G5      |
| BL   | (0°-30°)    | 1706.5  | 3.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3743.9  | 8.0       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1586.7  | 3.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 41.6    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 4599.9  | 4599.9  | 4599.9  | 4599.9  | 4599.9  | 4599.9  | 4599.9  | 4599.9  | 4599.9  | 4599.9  | 4599.9  |
| 2.5°  | 4675.2  | 4668.1  | 4690.5  | 4664.0  | 4656.9  | 4633.5  | 4635.5  | 4646.7  | 4655.9  | 4636.5  | 4634.5  |
| 5°    | 4731.3  | 4729.2  | 4744.5  | 4719.0  | 4713.9  | 4694.6  | 4687.5  | 4698.7  | 4701.7  | 4672.2  | 4659.0  |
| 7.5°  | 4785.2  | 4783.2  | 4804.6  | 4775.0  | 4781.2  | 4757.7  | 4748.6  | 4757.7  | 4761.8  | 4726.2  | 4711.9  |
| 10°   | 4820.9  | 4818.8  | 4842.3  | 4828.0  | 4853.5  | 4839.2  | 4836.1  | 4851.4  | 4863.6  | 4811.7  | 4789.3  |
| 12.5° | 4870.8  | 4869.8  | 4899.3  | 4893.2  | 4931.9  | 4923.7  | 4938.0  | 4968.5  | 4987.9  | 4940.0  | 4901.3  |
| 15°   | 4951.2  | 4960.4  | 4987.9  | 4993.0  | 5046.9  | 5052.0  | 5074.4  | 5124.3  | 5154.9  | 5106.0  | 5070.4  |
| 17.5° | 5178.3  | 5162.0  | 5200.7  | 5203.8  | 5227.2  | 5242.5  | 5259.8  | 5339.2  | 5384.0  | 5355.5  | 5330.0  |
| 20°   | 5616.2  | 5613.1  | 5612.1  | 5589.7  | 5577.5  | 5555.1  | 5561.2  | 5604.0  | 5672.2  | 5676.3  | 5682.4  |
| 22.5° | 6166.1  | 6189.5  | 6179.3  | 6111.1  | 6030.7  | 6008.3  | 5979.8  | 5973.6  | 6017.4  | 6042.9  | 6078.5  |
| 25°   | 6703.8  | 6687.5  | 6709.9  | 6568.4  | 6480.8  | 6450.2  | 6436.0  | 6454.3  | 6474.7  | 6504.2  | 6561.2  |
| 27.5° | 7102.0  | 7082.6  | 7064.3  | 6968.6  | 6893.2  | 6860.6  | 6871.8  | 6940.1  | 7016.4  | 7032.7  | 7124.4  |
| 30°   | 7445.2  | 7409.5  | 7387.1  | 7338.2  | 7286.3  | 7247.6  | 7258.8  | 7417.7  | 7616.2  | 7686.5  | 7853.5  |
| 32.5° | 8046.0  | 8025.6  | 7909.5  | 7660.0  | 7640.7  | 7634.6  | 7645.8  | 7906.5  | 8215.0  | 8415.6  | 8684.5  |
| 35°   | 8738.5  | 8717.1  | 8606.1  | 8357.6  | 8039.9  | 8004.2  | 8053.1  | 8347.4  | 8853.5  | 9368.8  | 9796.5  |
| 37.5° | 9493.1  | 9503.2  | 9405.5  | 9092.8  | 8701.8  | 8517.5  | 8462.5  | 8852.5  | 9503.2  | 10582.7 | 11005.3 |
| 40°   | 10514.5 | 10461.5 | 10245.6 | 9814.9  | 9498.2  | 9326.0  | 9053.1  | 9373.9  | 10304.7 | 11881.1 | 12397.4 |
| 42.5° | 11307.8 | 11309.8 | 11072.5 | 10645.8 | 10221.2 | 10122.4 | 9941.1  | 10060.3 | 11269.1 | 13363.8 | 13664.2 |
| 45°   | 11941.2 | 11997.2 | 11853.6 | 11449.3 | 11162.1 | 11034.8 | 10891.3 | 11145.8 | 12423.9 | 14822.1 | 14851.6 |
| 47.5° | 12527.7 | 12566.4 | 12425.9 | 12164.2 | 11962.6 | 11889.2 | 11952.4 | 12451.4 | 13646.9 | 16115.4 | 15854.7 |
| 50°   | 13474.8 | 13423.9 | 12924.9 | 12737.5 | 12681.5 | 12741.6 | 12997.2 | 13718.2 | 15313.9 | 17249.8 | 16825.2 |
| 52.5° | 15107.2 | 14792.6 | 13898.4 | 13592.9 | 13626.5 | 13784.4 | 14069.5 | 14894.4 | 16938.2 | 18308.9 | 17574.7 |
| 55°   | 17351.7 | 16901.6 | 15780.4 | 14874.0 | 14684.6 | 14862.8 | 15186.7 | 16026.8 | 18402.6 | 19211.2 | 18182.6 |
| 57.5° | 18878.2 | 18789.6 | 18299.8 | 17212.2 | 16089.9 | 16299.7 | 16527.8 | 17268.2 | 19545.2 | 20082.9 | 18701.0 |
| 60°   | 20328.3 | 20394.5 | 20769.2 | 20206.1 | 19062.5 | 18716.3 | 18131.7 | 18558.4 | 20627.7 | 20809.0 | 19045.2 |
| 62.5° | 21472.9 | 21581.9 | 22618.6 | 22660.3 | 23320.2 | 22722.4 | 21121.6 | 20014.7 | 21598.2 | 21287.6 | 19162.3 |
| 65°   | 21408.8 | 21462.7 | 22994.3 | 24070.7 | 26459.8 | 26678.7 | 25606.4 | 22018.8 | 22587.0 | 21526.9 | 19044.2 |
| 67.5° | 19597.1 | 19789.6 | 21185.8 | 23914.9 | 28313.2 | 28618.7 | 28067.8 | 25350.8 | 23152.2 | 21495.3 | 18575.7 |
| 70°   | 17254.9 | 17339.4 | 18748.8 | 22453.6 | 28961.9 | 29075.9 | 28442.5 | 26800.9 | 22935.3 | 21162.3 | 17578.8 |
| 72.5° | 14165.2 | 14358.7 | 15724.3 | 19530.9 | 28053.5 | 27984.3 | 27623.8 | 26493.4 | 22518.8 | 20247.9 | 15395.4 |
| 75°   | 11007.3 | 11136.7 | 12391.3 | 15955.5 | 25671.6 | 26249.0 | 25982.2 | 25457.7 | 21267.2 | 17903.6 | 11462.5 |
| 77.5° | 7457.4  | 7807.7  | 9018.5  | 12321.0 | 21333.4 | 22808.0 | 23632.9 | 23213.3 | 18309.9 | 13562.4 | 6632.5  |
| 80°   | 4231.2  | 4124.3  | 5682.4  | 8596.9  | 16365.9 | 18053.3 | 19216.3 | 18629.7 | 13048.1 | 7256.8  | 1748.5  |
| 82.5° | 1348.3  | 1499.0  | 2673.2  | 5215.0  | 11554.2 | 12852.6 | 13708.0 | 12187.6 | 6594.8  | 1891.1  | 359.5   |
| 85°   | 613.0   | 659.9   | 1104.9  | 2547.9  | 6766.9  | 7448.2  | 7502.2  | 5376.9  | 1061.1  | 375.8   | 224.0   |
| 87.5° | 256.6   | 256.6   | 523.4   | 1142.6  | 2918.6  | 2368.7  | 1497.0  | 1535.7  | 214.9   | 170.1   | 117.1   |
| 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°    | 4599.9  | 4599.9  | 4599.9 | 4599.9 | 4599.9 | 4599.9 | 4599.9 | 4599.9 | 4599.9 | 4599.9 | 4599.9 |
| 2.5°  | 4614.1  | 4612.1  | 4600.9 | 4565.3 | 4535.7 | 4527.6 | 4527.6 | 4507.2 | 4511.3 | 4514.3 | 4495.0 |
| 5°    | 4634.5  | 4628.4  | 4592.8 | 4533.7 | 4475.6 | 4439.0 | 4425.7 | 4391.1 | 4380.9 | 4365.7 | 4352.4 |
| 7.5°  | 4673.2  | 4655.9  | 4595.8 | 4510.3 | 4420.7 | 4355.5 | 4306.6 | 4242.4 | 4208.8 | 4197.6 | 4169.1 |
| 10°   | 4751.6  | 4721.1  | 4634.5 | 4509.3 | 4374.8 | 4254.7 | 4158.9 | 4065.3 | 4008.2 | 3964.4 | 3945.1 |
| 12.5° | 4859.6  | 4821.9  | 4711.9 | 4542.9 | 4345.3 | 4166.1 | 4010.3 | 3877.9 | 3790.3 | 3739.4 | 3726.1 |
| 15°   | 5022.5  | 4979.7  | 4837.2 | 4614.1 | 4340.2 | 4085.6 | 3863.6 | 3660.0 | 3535.7 | 3442.0 | 3423.7 |
| 17.5° | 5281.2  | 5247.6  | 5054.1 | 4745.5 | 4391.1 | 4040.8 | 3710.9 | 3407.4 | 3186.4 | 3083.6 | 3041.8 |
| 20°   | 5637.6  | 5593.8  | 5366.7 | 4948.2 | 4497.0 | 4021.5 | 3563.2 | 3139.6 | 2816.8 | 2601.9 | 2546.9 |
| 22.5° | 6059.2  | 5994.0  | 5697.7 | 5168.1 | 4594.8 | 3991.9 | 3422.7 | 2872.8 | 2414.5 | 2069.3 | 2030.6 |
| 25°   | 6552.1  | 6477.7  | 6000.1 | 5343.3 | 4634.5 | 3916.6 | 3235.3 | 2567.3 | 1919.6 | 1553.0 | 1532.6 |
| 27.5° | 7098.9  | 6932.9  | 6300.5 | 5478.7 | 4604.0 | 3764.8 | 2960.3 | 2104.9 | 1385.0 | 1101.9 | 1054.0 |
| 30°   | 7740.5  | 7458.4  | 6584.7 | 5561.2 | 4513.3 | 3526.5 | 2567.3 | 1490.9 | 918.6  | 710.8  | 704.7  |
| 32.5° | 8430.9  | 8039.9  | 6868.8 | 5577.5 | 4343.3 | 3197.6 | 1936.9 | 943.0  | 523.4  | 409.4  | 414.5  |
| 35°   | 9413.6  | 8811.8  | 7178.3 | 5536.8 | 4070.3 | 2712.9 | 1277.0 | 537.7  | 290.2  | 257.6  | 244.4  |
| 37.5° | 10508.4 | 9762.9  | 7516.4 | 5386.1 | 3664.0 | 2043.8 | 762.7  | 261.7  | 213.9  | 204.7  | 201.6  |
| 40°   | 11791.5 | 10813.9 | 7909.5 | 5160.0 | 3140.6 | 1403.3 | 358.5  | 205.7  | 195.5  | 190.4  | 190.4  |
| 42.5° | 12981.9 | 11892.3 | 8413.6 | 4858.5 | 2533.7 | 817.7  | 238.3  | 197.6  | 176.2  | 174.1  | 175.2  |
| 45°   | 14058.3 | 12829.2 | 8871.9 | 4506.2 | 1905.3 | 412.4  | 230.1  | 176.2  | 156.8  | 156.8  | 156.8  |
| 47.5° | 15014.6 | 13605.2 | 9202.8 | 4062.2 | 1305.5 | 272.9  | 230.1  | 160.9  | 142.6  | 141.6  | 142.6  |
| 50°   | 15815.0 | 14257.9 | 9415.7 | 3576.4 | 768.9  | 255.6  | 210.8  | 152.8  | 129.3  | 132.4  | 132.4  |
| 52.5° | 16433.1 | 14725.3 | 9443.2 | 2975.6 | 421.6  | 249.5  | 200.6  | 141.6  | 118.1  | 135.4  | 139.5  |
| 55°   | 16929.1 | 15031.9 | 9284.3 | 2285.2 | 308.6  | 234.2  | 196.5  | 131.4  | 117.1  | 153.8  | 160.9  |
| 57.5° | 17241.7 | 15169.3 | 8903.4 | 1550.9 | 286.2  | 214.9  | 183.3  | 120.2  | 111.0  | 136.5  | 141.6  |
| 60°   | 17400.5 | 15121.5 | 8330.1 | 971.5  | 280.0  | 209.8  | 169.0  | 115.1  | 98.8   | 98.8   | 99.8   |
| 62.5° | 17365.9 | 14856.7 | 7543.9 | 582.5  | 261.7  | 201.6  | 158.9  | 111.0  | 82.5   | 67.2   | 67.2   |
| 65°   | 16972.8 | 14267.1 | 6274.1 | 417.5  | 248.5  | 200.6  | 151.7  | 104.9  | 70.3   | 51.9   | 48.9   |
| 67.5° | 16171.4 | 13122.5 | 4383.0 | 364.6  | 254.6  | 200.6  | 151.7  | 100.8  | 66.2   | 41.8   | 37.7   |
| 70°   | 14655.1 | 10861.7 | 2047.9 | 334.0  | 263.8  | 208.8  | 154.8  | 99.8   | 59.1   | 32.6   | 29.5   |
| 72.5° | 11841.4 | 7522.6  | 499.0  | 270.9  | 265.8  | 208.8  | 167.0  | 98.8   | 53.0   | 25.5   | 22.4   |
| 75°   | 7614.2  | 3548.9  | 355.4  | 207.7  | 234.2  | 200.6  | 169.0  | 118.1  | 56.0   | 16.3   | 14.3   |
| 77.5° | 3043.8  | 682.3   | 314.7  | 145.6  | 220.0  | 223.0  | 183.3  | 125.3  | 69.2   | 8.1    | 4.1    |
| 80°   | 524.5   | 317.7   | 294.3  | 97.8   | 181.3  | 228.1  | 144.6  | 103.9  | 66.2   | 3.1    | 0.0    |
| 82.5° | 296.3   | 269.9   | 249.5  | 60.1   | 138.5  | 153.8  | 88.6   | 74.3   | 65.2   | 3.1    | 0.0    |
| 85°   | 223.0   | 224.0   | 109.0  | 45.8   | 66.2   | 95.7   | 34.6   | 21.4   | 59.1   | 2.0    | 0.0    |
| 87.5° | 129.3   | 70.3    | 35.6   | 27.5   | 27.5   | 37.7   | 13.2   | 9.2    | 8.1    | 2.0    | 1.0    |
| 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)