

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: P639406

Luminaire Tested: **USSL-M-PA6D-730-U-T3-HSS**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-M-PA6D-730-U-T3-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE  
SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44818 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

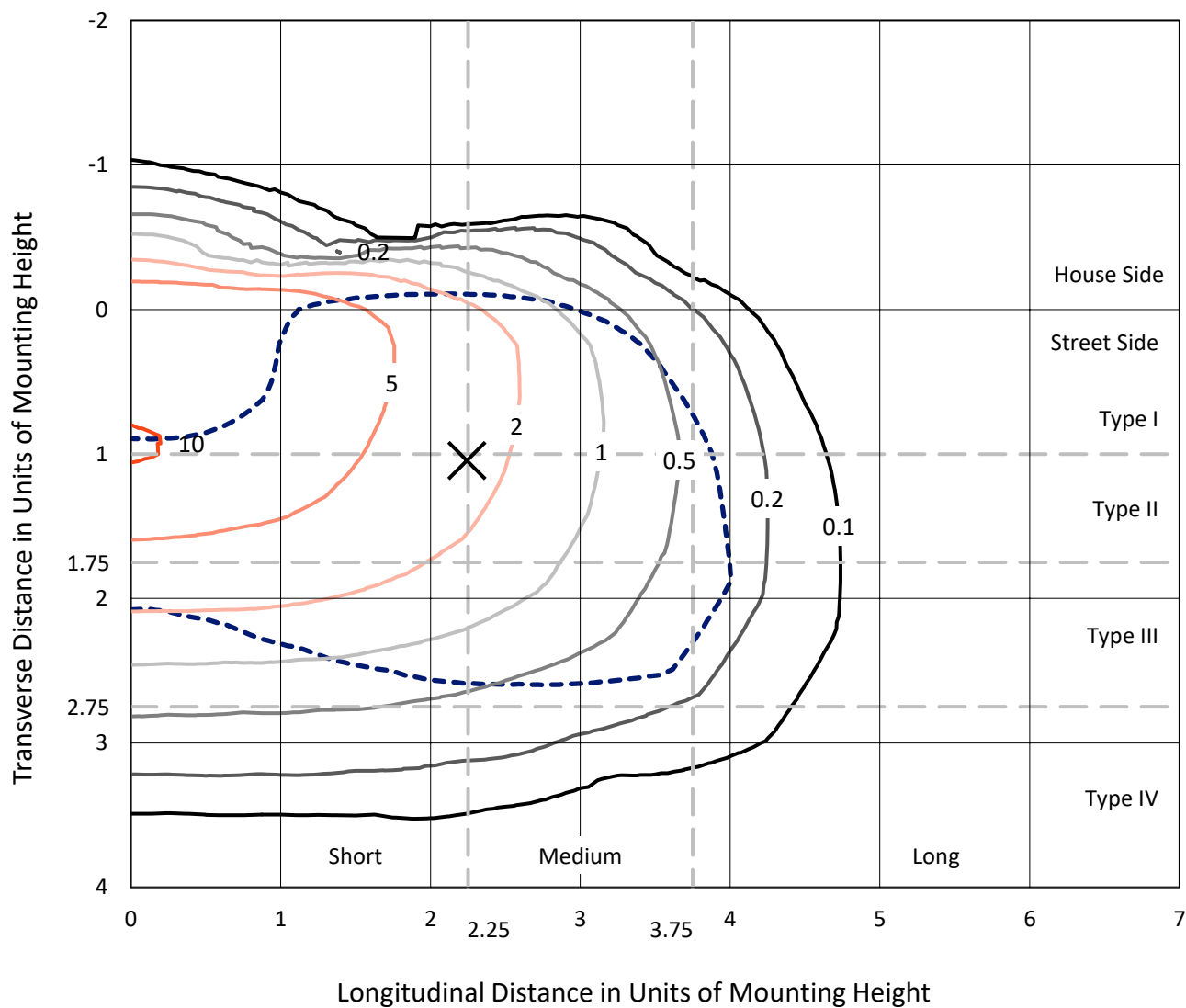
Input Watts (W): 544  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

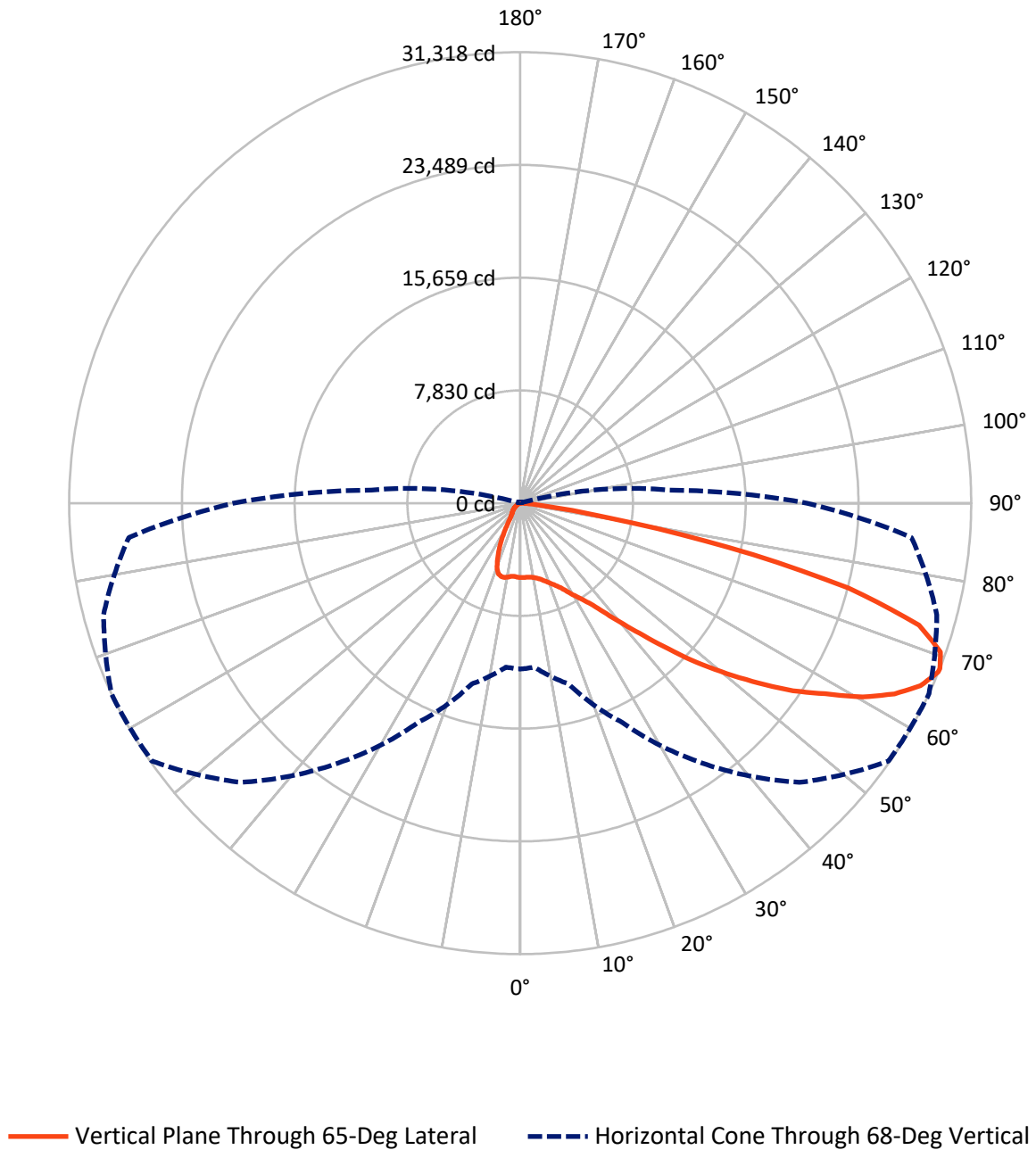
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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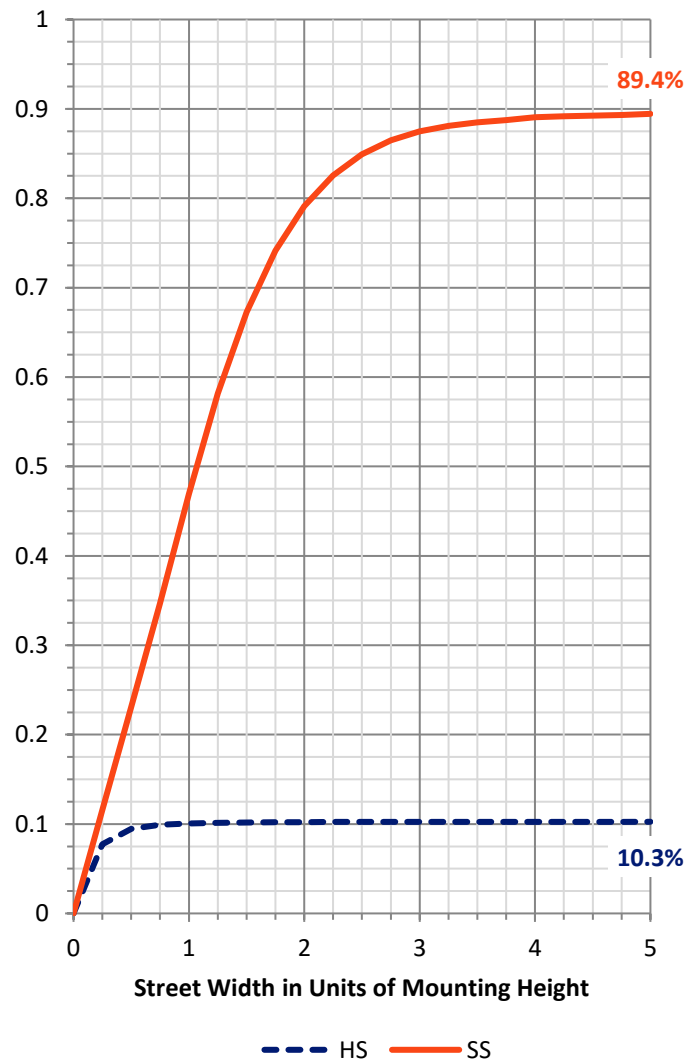
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4637.0   | 0.0    | 4637.0  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 40181.0  | 0.0    | 40181.0 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 44818.0  | 0.0    | 44818.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 481.1   | 1.1       |
| 10°-20°   | 1265.2  | 2.8       |
| 20°-30°   | 2002.7  | 4.5       |
| 30°-40°   | 3496.4  | 7.8       |
| 40°-50°   | 6783.7  | 15.1      |
| 50°-60°   | 10994.0 | 24.5      |
| 60°-70°   | 12779.1 | 28.5      |
| 70°-80°   | 6634.6  | 14.8      |
| 80°-90°   | 381.3   | 0.9       |
| 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°    | 44818.0 | 100.0     |
| 0°-180°   | 44818.0 | 100.0     |

**Coefficient of Utilization**



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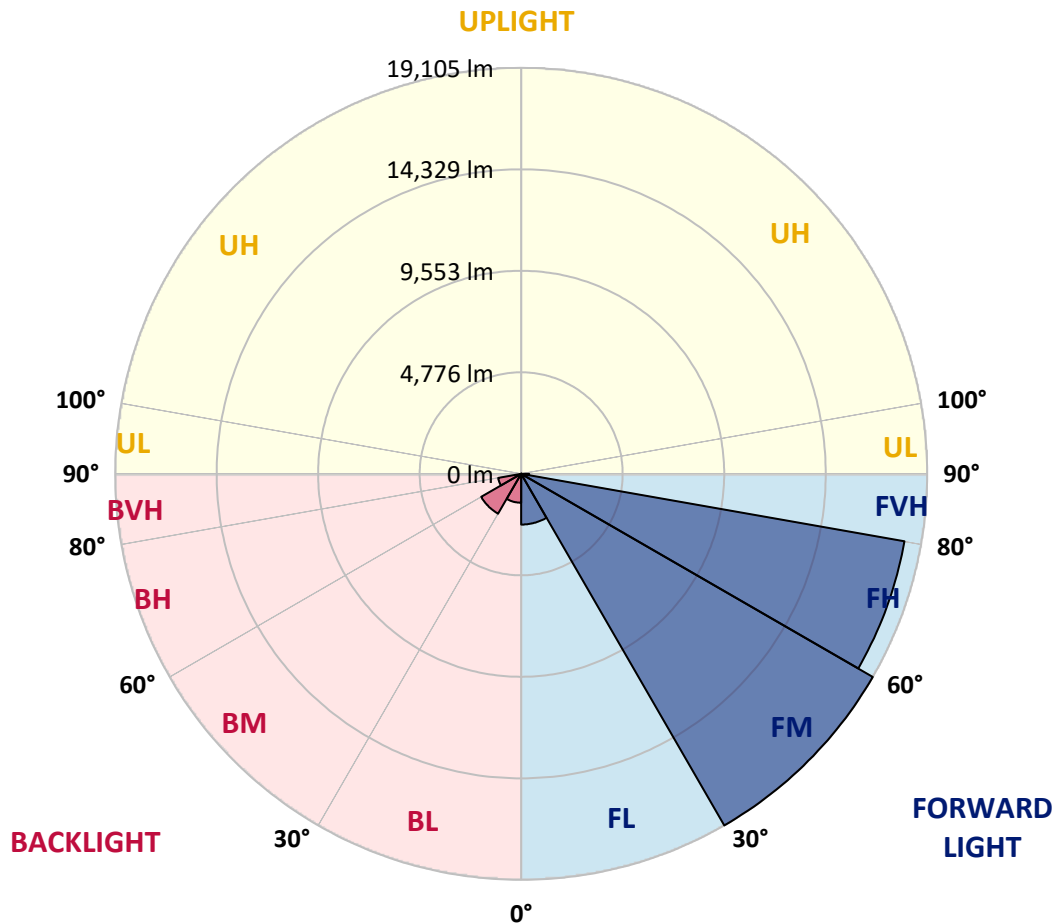
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2388.0  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 19105.0 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 18314.9 | 40.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 373.1   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1361.0  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2169.0  | 4.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1098.8  | 2.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 8.2     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5165.5  | 5165.5  | 5165.5  | 5165.5  | 5165.5  | 5165.5  | 5165.5  | 5165.5  | 5165.5  | 5165.5  | 5165.5  |
| 2.5°  | 5227.9  | 5183.3  | 5186.3  | 5181.8  | 5165.5  | 5177.4  | 5169.9  | 5167.0  | 5155.1  | 5150.6  | 5149.1  |
| 5°    | 5138.7  | 5097.1  | 5110.5  | 5122.4  | 5122.4  | 5152.1  | 5158.0  | 5161.0  | 5147.6  | 5140.2  | 5131.3  |
| 7.5°  | 4999.0  | 4964.9  | 4987.1  | 5028.8  | 5058.5  | 5125.3  | 5161.0  | 5187.8  | 5184.8  | 5186.3  | 5175.9  |
| 10°   | 4883.1  | 4850.4  | 4893.5  | 4955.9  | 5016.9  | 5114.9  | 5184.8  | 5251.7  | 5290.3  | 5317.0  | 5314.1  |
| 12.5° | 4844.5  | 4816.3  | 4856.4  | 4930.7  | 5009.4  | 5123.9  | 5229.4  | 5351.2  | 5443.4  | 5496.9  | 5489.4  |
| 15°   | 4850.4  | 4820.7  | 4860.8  | 4941.1  | 5027.3  | 5161.0  | 5315.6  | 5504.3  | 5641.0  | 5690.0  | 5699.0  |
| 17.5° | 4898.0  | 4862.3  | 4893.5  | 4967.8  | 5070.4  | 5241.3  | 5458.2  | 5694.5  | 5866.9  | 5932.3  | 5930.8  |
| 20°   | 4961.9  | 4921.8  | 4950.0  | 5016.9  | 5137.2  | 5366.1  | 5639.5  | 5924.8  | 6126.9  | 6192.3  | 6183.4  |
| 22.5° | 5057.0  | 5012.4  | 5033.2  | 5098.6  | 5253.1  | 5542.9  | 5853.5  | 6183.4  | 6406.3  | 6470.2  | 6443.5  |
| 25°   | 5317.0  | 5247.2  | 5205.6  | 5216.0  | 5401.8  | 5761.4  | 6147.7  | 6497.0  | 6730.3  | 6754.0  | 6712.4  |
| 27.5° | 5981.3  | 5930.8  | 5721.3  | 5517.7  | 5583.0  | 5997.7  | 6525.2  | 6935.3  | 7146.4  | 7109.2  | 7052.7  |
| 30°   | 7349.9  | 7158.3  | 6828.3  | 6300.8  | 5990.2  | 6250.3  | 6889.3  | 7448.0  | 7639.7  | 7553.5  | 7445.1  |
| 32.5° | 8984.6  | 8758.7  | 8274.3  | 7510.4  | 6816.5  | 6679.7  | 7324.7  | 7991.9  | 8214.8  | 8048.4  | 7938.4  |
| 35°   | 10595.5 | 10509.3 | 10005.5 | 9076.7  | 8061.8  | 7455.5  | 7911.7  | 8697.8  | 9008.4  | 8858.3  | 8743.9  |
| 37.5° | 12427.7 | 12225.6 | 11796.2 | 10721.8 | 9576.0  | 8578.9  | 8715.6  | 9744.0  | 10173.4 | 9956.5  | 9776.7  |
| 40°   | 14267.5 | 14046.0 | 13615.1 | 12417.3 | 11316.2 | 10160.0 | 9877.7  | 11047.2 | 11635.7 | 11357.8 | 11057.6 |
| 42.5° | 16084.9 | 16059.6 | 15509.8 | 14405.7 | 13154.4 | 12124.6 | 11537.6 | 12557.0 | 13291.1 | 12974.6 | 12473.8 |
| 45°   | 18431.3 | 18198.0 | 17504.1 | 16512.9 | 15450.3 | 14347.7 | 13609.1 | 14445.8 | 15327.0 | 14667.2 | 13869.2 |
| 47.5° | 19875.8 | 19742.0 | 19184.8 | 18565.1 | 17949.9 | 16915.6 | 15909.5 | 16529.2 | 17278.2 | 16411.8 | 15260.1 |
| 50°   | 21106.2 | 20947.2 | 20551.9 | 20337.9 | 20308.2 | 19709.3 | 18386.8 | 18605.2 | 19238.3 | 18232.2 | 16596.1 |
| 52.5° | 21870.0 | 21721.4 | 21467.3 | 21770.5 | 22477.8 | 22627.9 | 20806.0 | 20757.0 | 21381.1 | 20048.2 | 17865.2 |
| 55°   | 21887.9 | 21547.6 | 21748.2 | 22627.9 | 24262.6 | 24900.1 | 23295.1 | 22995.0 | 23225.3 | 21978.5 | 19052.5 |
| 57.5° | 21124.0 | 21003.7 | 21596.6 | 23011.3 | 25418.7 | 26586.7 | 25610.4 | 24974.4 | 25151.2 | 23861.3 | 20083.8 |
| 60°   | 19562.2 | 19578.6 | 20881.8 | 22874.6 | 26114.2 | 27930.1 | 27763.7 | 27325.3 | 27081.6 | 25616.3 | 20883.3 |
| 62.5° | 17368.8 | 17480.3 | 19150.6 | 22046.9 | 25967.0 | 28628.5 | 29637.6 | 29166.5 | 28576.5 | 27081.6 | 21332.1 |
| 65°   | 14919.8 | 14873.8 | 16668.9 | 20296.3 | 24641.5 | 28636.0 | 30896.2 | 30555.9 | 29703.0 | 27851.3 | 21204.3 |
| 67.5° | 12120.1 | 12023.5 | 13653.7 | 17496.6 | 22562.5 | 27705.7 | 31227.6 | 31304.9 | 30009.1 | 27521.4 | 20247.3 |
| 68°   | 11518.3 | 11432.1 | 12995.4 | 16810.1 | 22029.0 | 27415.9 | 31217.2 | 31318.3 | 29948.1 | 27273.3 | 19927.8 |
| 70°   | 9005.4  | 8917.7  | 10194.2 | 13612.1 | 19336.3 | 25668.4 | 30725.3 | 30957.2 | 29157.6 | 25592.6 | 18102.9 |
| 72.5° | 5055.5  | 5214.5  | 6360.2  | 9219.4  | 14425.0 | 22011.2 | 28725.1 | 28957.0 | 26285.1 | 20531.1 | 13622.5 |
| 75°   | 1627.2  | 1609.4  | 2590.2  | 4440.3  | 8229.7  | 14891.6 | 23529.9 | 23543.3 | 19740.5 | 12435.2 | 7526.8  |
| 77.5° | 856.0   | 863.4   | 1043.2  | 1807.0  | 3342.1  | 6549.0  | 14407.1 | 14814.3 | 10223.9 | 4719.7  | 2570.8  |
| 80°   | 533.5   | 542.4   | 646.4   | 1041.7  | 1820.4  | 2227.6  | 6297.8  | 6315.7  | 2952.8  | 1072.9  | 613.7   |
| 82.5° | 359.6   | 365.6   | 451.8   | 676.1   | 1211.1  | 910.9   | 1920.0  | 1899.2  | 836.6   | 338.8   | 205.1   |
| 85°   | 170.9   | 173.9   | 291.3   | 463.6   | 592.9   | 377.5   | 554.3   | 587.0   | 414.6   | 160.5   | 87.7    |
| 87.5° | 35.7    | 40.1    | 147.1   | 202.1   | 178.3   | 74.3    | 156.0   | 124.8   | 169.4   | 65.4    | 40.1    |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5165.5  | 5165.5 | 5165.5 | 5165.5 | 5165.5 | 5165.5 | 5165.5 | 5165.5 | 5165.5 | 5165.5 |
| 2.5°  | 5155.1  | 5159.5 | 5146.2 | 5122.4 | 5119.4 | 5113.5 | 5123.9 | 5120.9 | 5123.9 | 5089.7 |
| 5°    | 5134.3  | 5128.3 | 5103.1 | 5074.8 | 5068.9 | 5058.5 | 5062.9 | 5051.0 | 5052.5 | 5008.0 |
| 7.5°  | 5178.8  | 5161.0 | 5116.4 | 5058.5 | 4987.1 | 4898.0 | 4831.1 | 4759.8 | 4753.8 | 4700.3 |
| 10°   | 5318.5  | 5290.3 | 5210.1 | 5033.2 | 4804.4 | 4493.8 | 4207.0 | 3942.5 | 3872.6 | 3768.6 |
| 12.5° | 5487.9  | 5446.3 | 5272.5 | 4908.4 | 4349.6 | 3704.7 | 3138.5 | 2848.7 | 2723.9 | 2664.5 |
| 15°   | 5687.1  | 5605.3 | 5260.6 | 4533.9 | 3518.9 | 2664.5 | 2145.8 | 1838.2 | 1765.4 | 1714.9 |
| 17.5° | 5920.4  | 5756.9 | 5138.7 | 3819.1 | 2648.1 | 1860.5 | 1512.8 | 1423.6 | 1413.2 | 1411.7 |
| 20°   | 6161.1  | 5874.3 | 4798.4 | 3043.4 | 1888.8 | 1423.6 | 1355.3 | 1324.1 | 1310.7 | 1306.2 |
| 22.5° | 6400.4  | 5939.7 | 4205.5 | 2306.3 | 1422.1 | 1315.1 | 1266.1 | 1221.5 | 1200.7 | 1184.4 |
| 25°   | 6661.9  | 5930.8 | 3508.5 | 1667.3 | 1294.3 | 1229.0 | 1159.1 | 1096.7 | 1067.0 | 1046.2 |
| 27.5° | 6975.5  | 5785.2 | 2792.3 | 1318.1 | 1202.2 | 1120.5 | 1031.3 | 954.0  | 910.9  | 900.5  |
| 30°   | 7338.1  | 5441.9 | 2105.7 | 1166.5 | 1084.8 | 998.6  | 884.2  | 784.6  | 741.5  | 732.6  |
| 32.5° | 7789.8  | 4961.9 | 1490.5 | 1038.7 | 948.1  | 854.5  | 725.2  | 619.7  | 575.1  | 555.8  |
| 35°   | 8421.4  | 4401.6 | 1138.3 | 918.4  | 811.4  | 697.0  | 563.2  | 483.0  | 444.3  | 436.9  |
| 37.5° | 9188.2  | 3820.6 | 971.9  | 811.4  | 689.5  | 551.3  | 432.4  | 376.0  | 350.7  | 346.2  |
| 40°   | 10064.9 | 3232.1 | 867.8  | 711.8  | 575.1  | 428.0  | 335.8  | 291.3  | 280.9  | 279.4  |
| 42.5° | 10923.9 | 2584.2 | 787.6  | 621.2  | 466.6  | 331.4  | 257.1  | 231.8  | 228.9  | 230.3  |
| 45°   | 11635.7 | 1911.0 | 708.8  | 537.9  | 370.0  | 255.6  | 203.6  | 187.2  | 191.7  | 194.7  |
| 47.5° | 12203.4 | 1334.5 | 633.1  | 451.8  | 289.8  | 206.6  | 167.9  | 157.5  | 165.0  | 167.9  |
| 50°   | 12626.9 | 992.7  | 560.2  | 368.5  | 233.3  | 172.4  | 142.7  | 133.7  | 145.6  | 148.6  |
| 52.5° | 12895.8 | 820.3  | 478.5  | 295.7  | 194.7  | 148.6  | 120.4  | 112.9  | 127.8  | 132.3  |
| 55°   | 13040.0 | 710.3  | 405.7  | 242.2  | 167.9  | 127.8  | 101.1  | 96.6   | 112.9  | 117.4  |
| 57.5° | 13013.2 | 616.7  | 338.8  | 203.6  | 150.1  | 112.9  | 84.7   | 81.7   | 99.6   | 105.5  |
| 60°   | 12771.0 | 529.0  | 277.9  | 170.9  | 133.7  | 99.6   | 72.8   | 69.8   | 89.2   | 93.6   |
| 62.5° | 12341.6 | 436.9  | 224.4  | 145.6  | 120.4  | 89.2   | 62.4   | 59.4   | 75.8   | 80.2   |
| 65°   | 11616.4 | 338.8  | 175.4  | 126.3  | 108.5  | 78.8   | 53.5   | 46.1   | 60.9   | 63.9   |
| 67.5° | 10623.7 | 260.1  | 141.2  | 108.5  | 98.1   | 71.3   | 44.6   | 35.7   | 46.1   | 49.0   |
| 68°   | 10378.5 | 246.7  | 135.2  | 104.0  | 95.1   | 69.8   | 43.1   | 34.2   | 44.6   | 46.1   |
| 70°   | 9142.1  | 203.6  | 114.4  | 90.6   | 86.2   | 62.4   | 37.2   | 26.7   | 34.2   | 35.7   |
| 72.5° | 6250.3  | 162.0  | 93.6   | 75.8   | 71.3   | 53.5   | 29.7   | 19.3   | 25.3   | 25.3   |
| 75°   | 2058.2  | 123.3  | 72.8   | 55.0   | 52.0   | 40.1   | 20.8   | 13.4   | 16.3   | 16.3   |
| 77.5° | 451.8   | 81.7   | 47.6   | 34.2   | 31.2   | 25.3   | 13.4   | 5.9    | 8.9    | 8.9    |
| 80°   | 142.7   | 41.6   | 26.7   | 19.3   | 17.8   | 13.4   | 7.4    | 1.5    | 1.5    | 3.0    |
| 82.5° | 55.0    | 20.8   | 19.3   | 14.9   | 11.9   | 8.9    | 4.5    | 0.0    | 0.0    | 0.0    |
| 85°   | 28.2    | 14.9   | 14.9   | 11.9   | 8.9    | 5.9    | 3.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 16.3    | 13.4   | 13.4   | 10.4   | 7.4    | 3.0    | 0.0    | 0.0    | 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    |

(END OF REPORT)