

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: P1211444

Luminaire Tested: **ARCH4-280-722-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-280-722-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 24277 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 279.7  
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



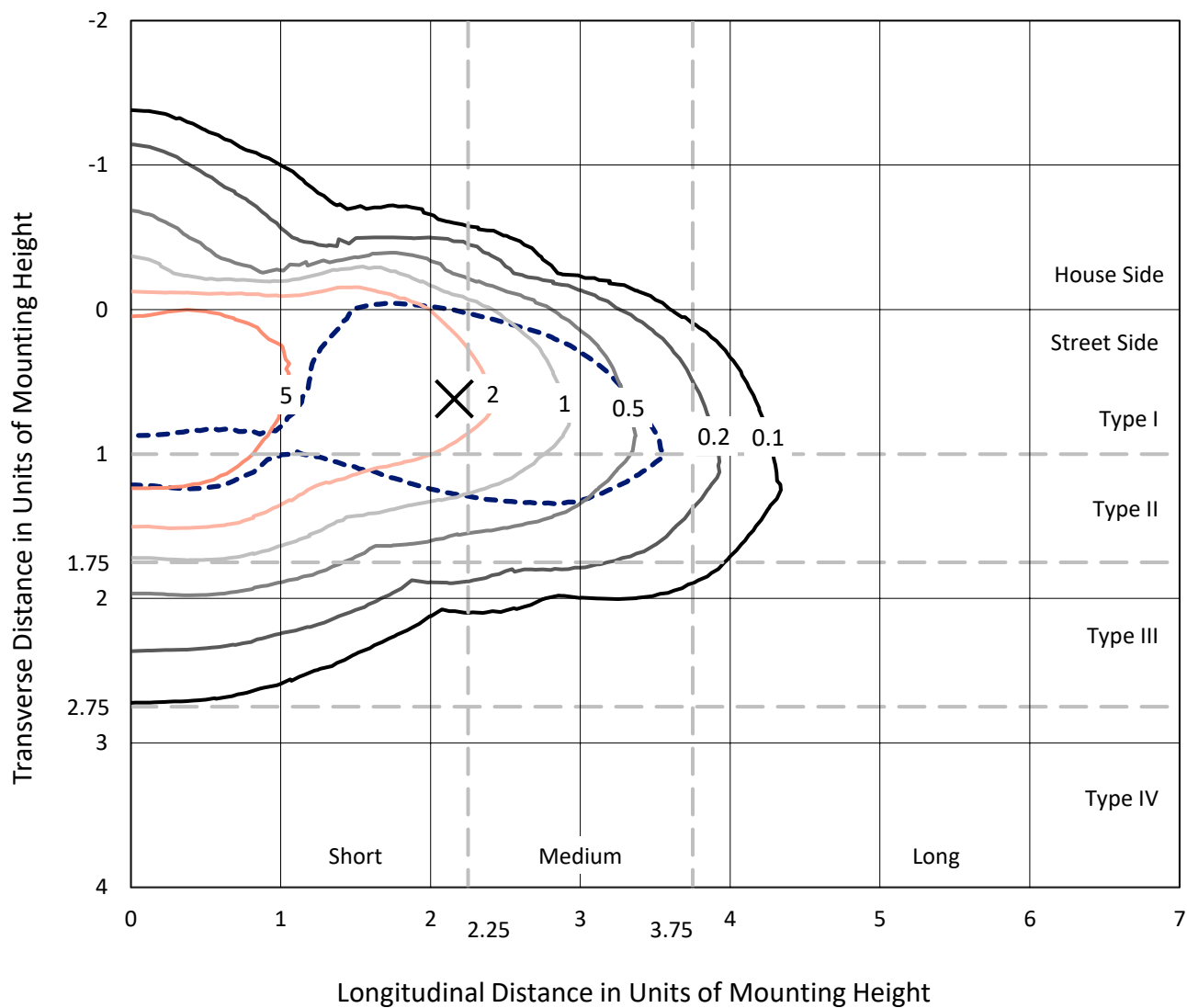
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

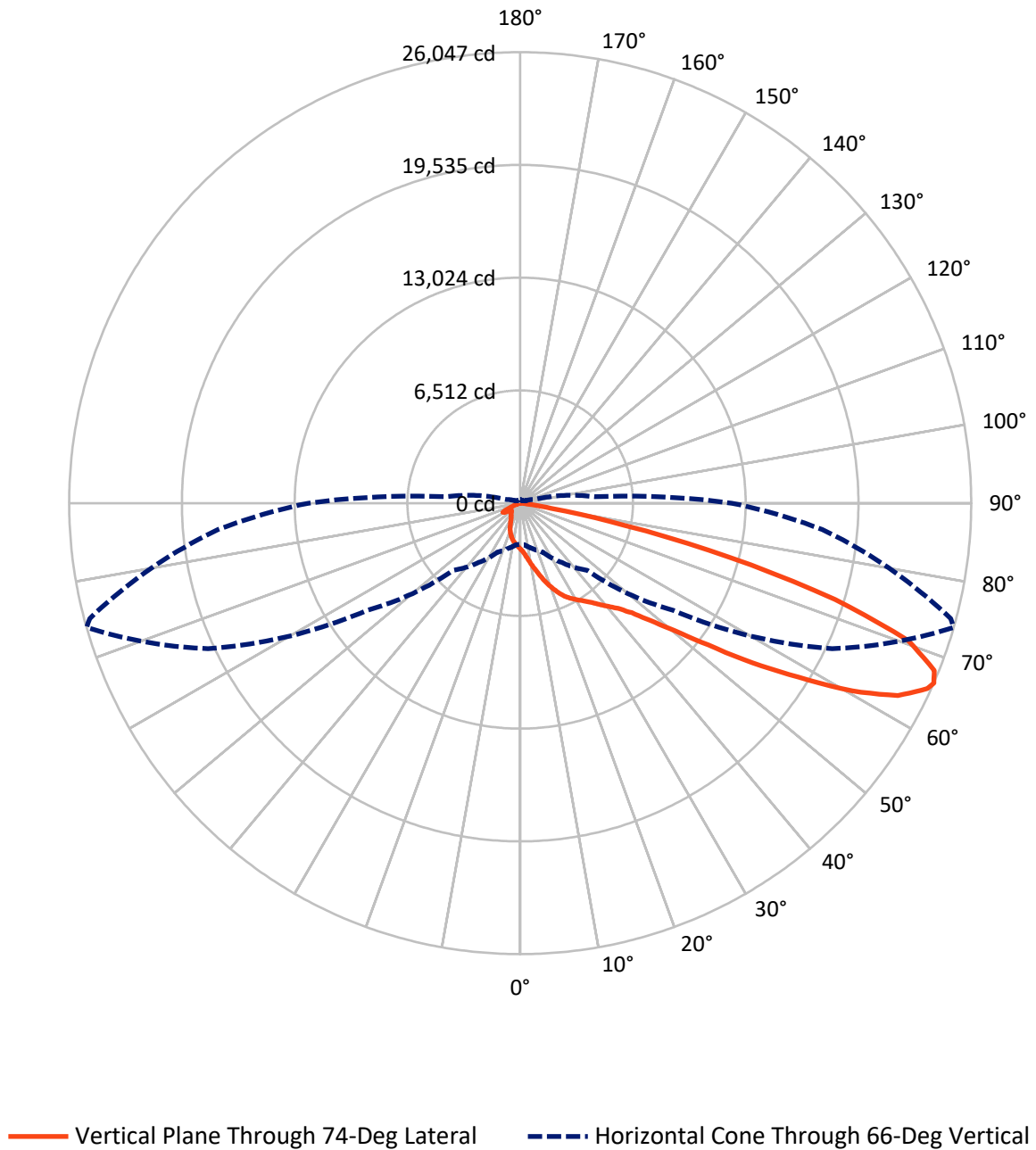
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
Type II - 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    | 2379.9   | 0.0    | 2379.9  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 21897.1  | 0.0    | 21897.1 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 24277.0  | 0.0    | 24277.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 258.7   | 1.1       |
| 10°-20°   | 829.2   | 3.4       |
| 20°-30°   | 1582.5  | 6.5       |
| 30°-40°   | 2773.8  | 11.4      |
| 40°-50°   | 4756.3  | 19.6      |
| 50°-60°   | 6185.9  | 25.5      |
| 60°-70°   | 5599.8  | 23.1      |
| 70°-80°   | 2160.7  | 8.9       |
| 80°-90°   | 130.0   | 0.5       |
| 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°    | 24277.0 | 100.0     |
| 0°-180°   | 24277.0 | 100.0     |

**Coefficient of Utilization**



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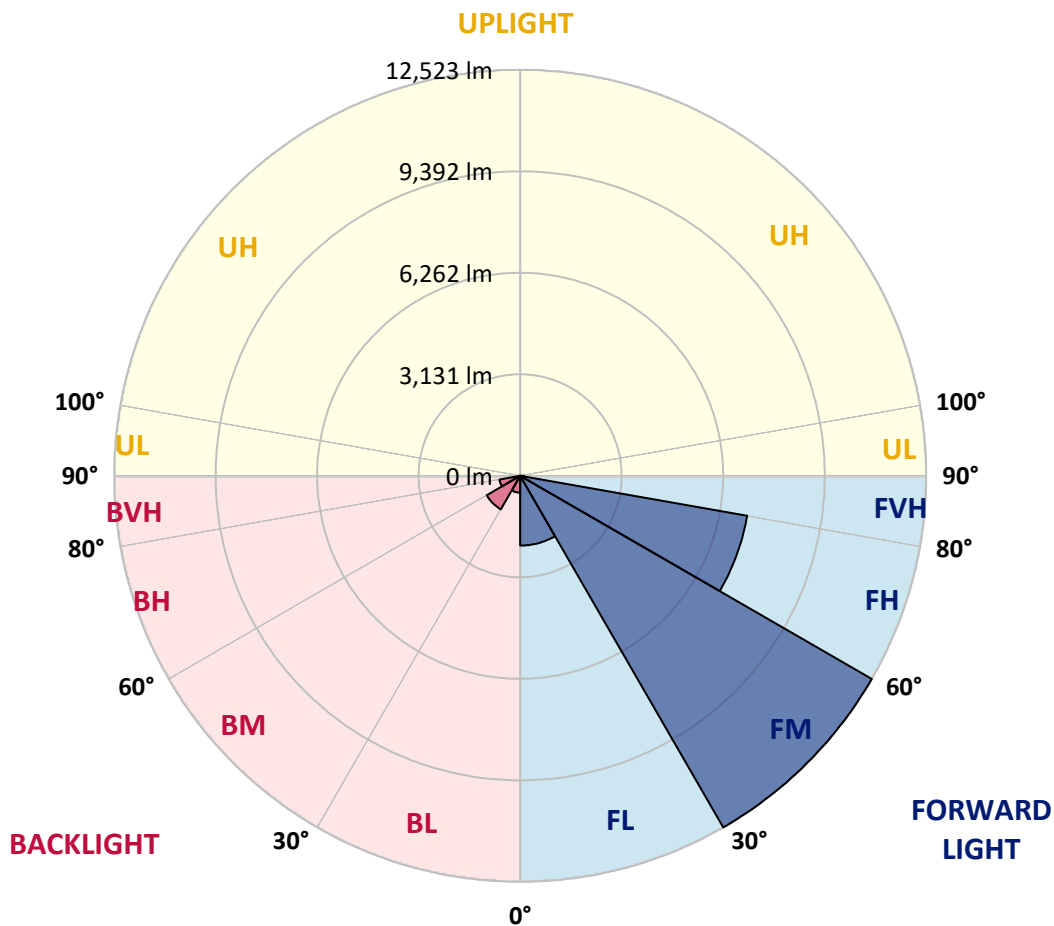
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2151.3  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 12523.3 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 7109.9  | 29.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 112.6   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 519.1   | 2.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1192.7  | 4.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 650.6   | 2.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 17.4    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2650.0  | 2650.0  | 2650.0  | 2650.0  | 2650.0  | 2650.0  | 2650.0  | 2650.0  | 2650.0  | 2650.0  | 2650.0  |
| 2.5°  | 3181.8  | 3155.6  | 3107.7  | 3103.3  | 3064.1  | 3016.2  | 2933.4  | 2846.2  | 2785.2  | 2776.4  | 2702.3  |
| 5°    | 3809.4  | 3796.4  | 3748.4  | 3717.9  | 3643.8  | 3530.5  | 3338.7  | 3146.9  | 2985.7  | 2968.2  | 2802.6  |
| 7.5°  | 3975.1  | 3983.8  | 3992.5  | 4023.0  | 3996.9  | 3944.6  | 3800.7  | 3530.5  | 3277.7  | 3238.5  | 2950.8  |
| 10°   | 4001.2  | 3992.5  | 3992.5  | 4031.7  | 4105.8  | 4179.9  | 4162.5  | 3931.5  | 3604.6  | 3556.6  | 3155.6  |
| 12.5° | 4284.5  | 4297.6  | 4267.1  | 4249.7  | 4236.6  | 4275.8  | 4406.6  | 4306.3  | 3948.9  | 3909.7  | 3404.1  |
| 15°   | 4650.7  | 4646.3  | 4602.7  | 4602.7  | 4563.5  | 4498.1  | 4580.9  | 4655.0  | 4363.0  | 4315.0  | 3687.4  |
| 17.5° | 4916.5  | 4934.0  | 4929.6  | 4955.8  | 4942.7  | 4855.5  | 4811.9  | 4964.5  | 4790.1  | 4729.1  | 4009.9  |
| 20°   | 5130.1  | 5178.0  | 5195.5  | 5278.3  | 5317.5  | 5256.5  | 5143.2  | 5239.1  | 5199.8  | 5143.2  | 4336.8  |
| 22.5° | 5356.8  | 5396.0  | 5426.5  | 5570.3  | 5679.3  | 5666.2  | 5522.4  | 5500.6  | 5596.5  | 5544.2  | 4659.4  |
| 25°   | 5583.4  | 5600.8  | 5692.4  | 5866.7  | 6041.1  | 6084.6  | 5936.4  | 5766.5  | 5953.9  | 5905.9  | 4947.0  |
| 27.5° | 5831.8  | 5840.6  | 5949.5  | 6163.1  | 6407.2  | 6498.7  | 6381.0  | 6067.2  | 6228.5  | 6228.5  | 5208.6  |
| 30°   | 6285.1  | 6372.3  | 6415.9  | 6607.7  | 6821.2  | 6947.6  | 6808.2  | 6385.4  | 6472.6  | 6511.8  | 5483.2  |
| 32.5° | 7261.5  | 7274.5  | 7261.5  | 7344.3  | 7387.9  | 7462.0  | 7300.7  | 6742.8  | 6721.0  | 6764.6  | 5753.4  |
| 35°   | 8752.1  | 8699.8  | 8560.3  | 8438.3  | 8185.5  | 8046.0  | 7836.8  | 7200.4  | 7026.1  | 7087.1  | 6019.3  |
| 37.5° | 10561.0 | 10486.9 | 10168.7 | 9793.8  | 9253.4  | 8695.5  | 8433.9  | 7758.4  | 7414.0  | 7492.5  | 6306.9  |
| 40°   | 12287.0 | 12239.0 | 11859.8 | 11397.8 | 10473.8 | 9519.2  | 8965.7  | 8229.1  | 7845.5  | 7876.0  | 6599.0  |
| 42.5° | 13707.9 | 13699.2 | 13381.0 | 12897.2 | 11711.6 | 10408.4 | 9593.3  | 8691.1  | 8298.8  | 8346.8  | 6904.1  |
| 45°   | 14784.5 | 14701.6 | 14466.3 | 14117.6 | 12910.2 | 11332.4 | 10351.7 | 9392.8  | 9026.7  | 9083.4  | 7361.7  |
| 47.5° | 14784.5 | 14797.5 | 14950.1 | 14915.2 | 13747.1 | 12199.8 | 11179.9 | 10277.6 | 10103.3 | 10155.6 | 8115.8  |
| 50°   | 13581.5 | 13703.5 | 14383.5 | 14954.4 | 14183.0 | 12875.4 | 12073.4 | 11384.7 | 11563.4 | 11641.9 | 9432.1  |
| 52.5° | 11201.7 | 11406.5 | 12587.7 | 13890.9 | 13860.4 | 13215.4 | 12997.4 | 12792.6 | 13594.6 | 13734.0 | 11376.0 |
| 55°   | 8512.4  | 8647.5  | 10186.1 | 11899.0 | 12457.0 | 12936.4 | 13803.8 | 14579.6 | 16283.8 | 16253.3 | 13350.5 |
| 57.5° | 6359.2  | 6485.6  | 7810.7  | 9711.0  | 10447.6 | 11729.1 | 14217.8 | 16623.8 | 18951.3 | 19069.0 | 15202.9 |
| 60°   | 4676.8  | 4772.7  | 5901.6  | 7462.0  | 8525.5  | 9881.0  | 14052.2 | 18637.5 | 22024.1 | 21889.0 | 16837.4 |
| 62.5° | 3460.7  | 3513.1  | 4328.1  | 5343.7  | 6755.9  | 8050.4  | 13010.5 | 20014.8 | 24478.0 | 24203.4 | 17748.3 |
| 65°   | 2676.2  | 2693.6  | 3116.4  | 3656.9  | 4912.2  | 6259.0  | 11458.8 | 20224.0 | 25833.6 | 25541.5 | 17730.9 |
| 66°   | 2384.2  | 2397.2  | 2706.7  | 3125.1  | 4179.9  | 5478.8  | 10778.9 | 19888.4 | 26047.1 | 25737.7 | 17513.0 |
| 67.5° | 2000.6  | 1991.9  | 2175.0  | 2449.5  | 3138.2  | 4227.9  | 9571.5  | 18907.7 | 25794.3 | 25637.4 | 16815.6 |
| 70°   | 1481.9  | 1486.3  | 1577.8  | 1643.2  | 1835.0  | 2340.6  | 6912.8  | 16401.5 | 23771.9 | 23763.2 | 14902.1 |
| 72.5° | 1098.4  | 1111.4  | 1181.2  | 1194.3  | 1146.3  | 1268.4  | 3983.8  | 13045.4 | 19016.7 | 19021.0 | 11140.6 |
| 75°   | 823.8   | 845.6   | 867.4   | 876.1   | 832.5   | 802.0   | 1800.1  | 8778.3  | 12509.3 | 12417.7 | 6306.9  |
| 77.5° | 627.6   | 636.4   | 653.8   | 640.7   | 632.0   | 553.5   | 749.7   | 4280.2  | 6176.2  | 5627.0  | 2044.2  |
| 80°   | 457.7   | 457.7   | 475.1   | 457.7   | 453.3   | 396.6   | 409.7   | 1373.0  | 1813.2  | 1508.1  | 440.2   |
| 82.5° | 287.7   | 283.3   | 296.4   | 292.0   | 283.3   | 252.8   | 239.7   | 383.6   | 418.4   | 374.8   | 213.6   |
| 85°   | 161.3   | 156.9   | 152.6   | 148.2   | 135.1   | 113.3   | 130.8   | 143.8   | 191.8   | 196.1   | 152.6   |
| 87.5° | 56.7    | 56.7    | 52.3    | 47.9    | 39.2    | 39.2    | 47.9    | 47.9    | 69.7    | 69.7    | 78.5    |
| 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°    | 2650.0  | 2650.0 | 2650.0 | 2650.0 | 2650.0 | 2650.0 | 2650.0 | 2650.0 | 2650.0 | 2650.0 | 2650.0 |
| 2.5°  | 2667.5  | 2619.5 | 2549.8 | 2458.3 | 2392.9 | 2327.5 | 2257.8 | 2218.5 | 2161.9 | 2148.8 | 2166.2 |
| 5°    | 2715.4  | 2628.3 | 2453.9 | 2262.1 | 2096.5 | 1948.3 | 1808.8 | 1726.0 | 1643.2 | 1612.7 | 1625.8 |
| 7.5°  | 2815.7  | 2667.5 | 2371.1 | 2061.6 | 1787.0 | 1564.7 | 1399.1 | 1303.2 | 1229.1 | 1198.6 | 1207.3 |
| 10°   | 2963.9  | 2737.2 | 2292.6 | 1835.0 | 1481.9 | 1246.6 | 1107.1 | 1046.1 | 1002.5 | 985.0  | 989.4  |
| 12.5° | 3142.6  | 2837.5 | 2192.4 | 1608.3 | 1220.4 | 1015.6 | 950.2  | 937.1  | 928.4  | 919.7  | 924.0  |
| 15°   | 3343.1  | 2924.6 | 2074.7 | 1386.0 | 1015.6 | 902.2  | 880.4  | 876.1  | 871.7  | 871.7  | 871.7  |
| 17.5° | 3552.3  | 3003.1 | 1943.9 | 1176.8 | 884.8  | 832.5  | 819.4  | 819.4  | 819.4  | 823.8  | 823.8  |
| 20°   | 3748.4  | 3064.1 | 1791.4 | 989.4  | 810.7  | 767.1  | 758.4  | 758.4  | 762.8  | 767.1  | 767.1  |
| 22.5° | 3940.2  | 3090.3 | 1612.7 | 858.6  | 749.7  | 710.5  | 697.4  | 697.4  | 697.4  | 701.7  | 701.7  |
| 25°   | 4105.8  | 3090.3 | 1434.0 | 775.8  | 697.4  | 658.2  | 640.7  | 636.4  | 640.7  | 640.7  | 640.7  |
| 27.5° | 4245.3  | 3077.2 | 1259.6 | 719.2  | 645.1  | 605.8  | 588.4  | 584.1  | 592.8  | 597.1  | 597.1  |
| 30°   | 4393.5  | 3059.8 | 1120.2 | 666.9  | 601.5  | 562.3  | 544.8  | 544.8  | 557.9  | 575.3  | 575.3  |
| 32.5° | 4537.3  | 3072.8 | 1011.2 | 623.3  | 557.9  | 527.4  | 510.0  | 514.3  | 540.5  | 566.6  | 566.6  |
| 35°   | 4689.9  | 3099.0 | 945.8  | 592.8  | 527.4  | 496.9  | 483.8  | 496.9  | 523.0  | 549.2  | 549.2  |
| 37.5° | 4842.4  | 3129.5 | 906.6  | 566.6  | 501.2  | 470.7  | 462.0  | 479.4  | 510.0  | 536.1  | 540.5  |
| 40°   | 5003.7  | 3155.6 | 863.0  | 540.5  | 483.8  | 448.9  | 444.6  | 462.0  | 501.2  | 527.4  | 531.8  |
| 42.5° | 5204.2  | 3207.9 | 810.7  | 518.7  | 466.4  | 422.8  | 427.1  | 440.2  | 479.4  | 518.7  | 523.0  |
| 45°   | 5596.5  | 3373.6 | 758.4  | 496.9  | 444.6  | 409.7  | 401.0  | 409.7  | 453.3  | 496.9  | 505.6  |
| 47.5° | 6333.1  | 3748.4 | 701.7  | 475.1  | 422.8  | 401.0  | 366.1  | 374.8  | 414.1  | 462.0  | 466.4  |
| 50°   | 7745.3  | 4546.0 | 671.2  | 453.3  | 405.4  | 370.5  | 331.3  | 331.3  | 361.8  | 405.4  | 405.4  |
| 52.5° | 9946.4  | 5975.7 | 688.7  | 435.9  | 383.6  | 340.0  | 300.7  | 296.4  | 313.8  | 344.3  | 344.3  |
| 55°   | 12321.8 | 7544.8 | 754.0  | 418.4  | 357.4  | 322.5  | 279.0  | 257.2  | 270.2  | 287.7  | 287.7  |
| 57.5° | 14204.8 | 8333.7 | 932.7  | 409.7  | 326.9  | 309.5  | 252.8  | 222.3  | 235.4  | 252.8  | 252.8  |
| 60°   | 15032.9 | 7871.7 | 1133.2 | 418.4  | 305.1  | 287.7  | 226.6  | 196.1  | 217.9  | 235.4  | 239.7  |
| 62.5° | 14361.7 | 6481.3 | 1216.1 | 396.6  | 274.6  | 257.2  | 222.3  | 183.1  | 209.2  | 222.3  | 226.6  |
| 65°   | 12910.2 | 4925.2 | 950.2  | 344.3  | 252.8  | 222.3  | 200.5  | 174.3  | 196.1  | 209.2  | 209.2  |
| 66°   | 12221.6 | 4293.2 | 810.7  | 318.2  | 244.1  | 209.2  | 191.8  | 174.3  | 191.8  | 200.5  | 204.9  |
| 67.5° | 11153.7 | 3386.7 | 601.5  | 279.0  | 226.6  | 191.8  | 178.7  | 165.6  | 183.1  | 191.8  | 191.8  |
| 70°   | 8721.6  | 2018.0 | 361.8  | 217.9  | 196.1  | 170.0  | 161.3  | 152.6  | 165.6  | 170.0  | 170.0  |
| 72.5° | 5461.4  | 958.9  | 231.0  | 161.3  | 165.6  | 161.3  | 135.1  | 143.8  | 148.2  | 152.6  | 152.6  |
| 75°   | 2645.7  | 379.2  | 156.9  | 117.7  | 135.1  | 152.6  | 109.0  | 126.4  | 130.8  | 139.5  | 135.1  |
| 77.5° | 736.6   | 183.1  | 100.2  | 87.2   | 117.7  | 117.7  | 82.8   | 100.2  | 117.7  | 148.2  | 135.1  |
| 80°   | 213.6   | 117.7  | 65.4   | 65.4   | 82.8   | 82.8   | 56.7   | 69.7   | 78.5   | 87.2   | 91.5   |
| 82.5° | 148.2   | 78.5   | 43.6   | 47.9   | 47.9   | 52.3   | 34.9   | 34.9   | 43.6   | 43.6   | 47.9   |
| 85°   | 117.7   | 34.9   | 26.2   | 30.5   | 21.8   | 26.2   | 17.4   | 17.4   | 21.8   | 17.4   | 17.4   |
| 87.5° | 47.9    | 17.4   | 17.4   | 17.4   | 13.1   | 13.1   | 8.7    | 4.4    | 4.4    | 4.4    | 4.4    |
| 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)