

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: P835952

Luminaire Tested: **ARCH3-120-722-U-T4W-HSS**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P835952  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-120-722-U-T4W-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10936 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 122.7  
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



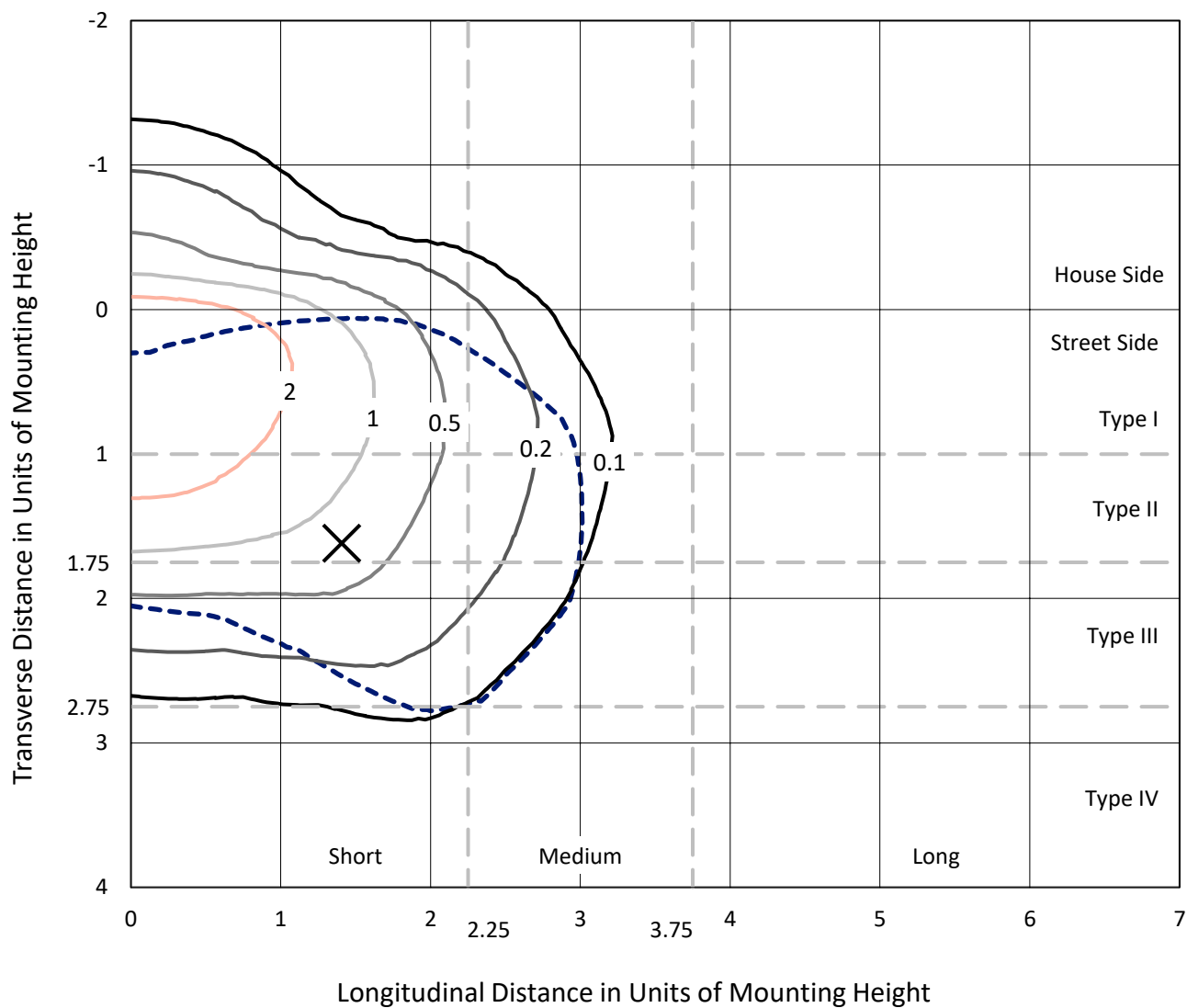
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## Iso-Footcandle Lines of Horizontal Illumination

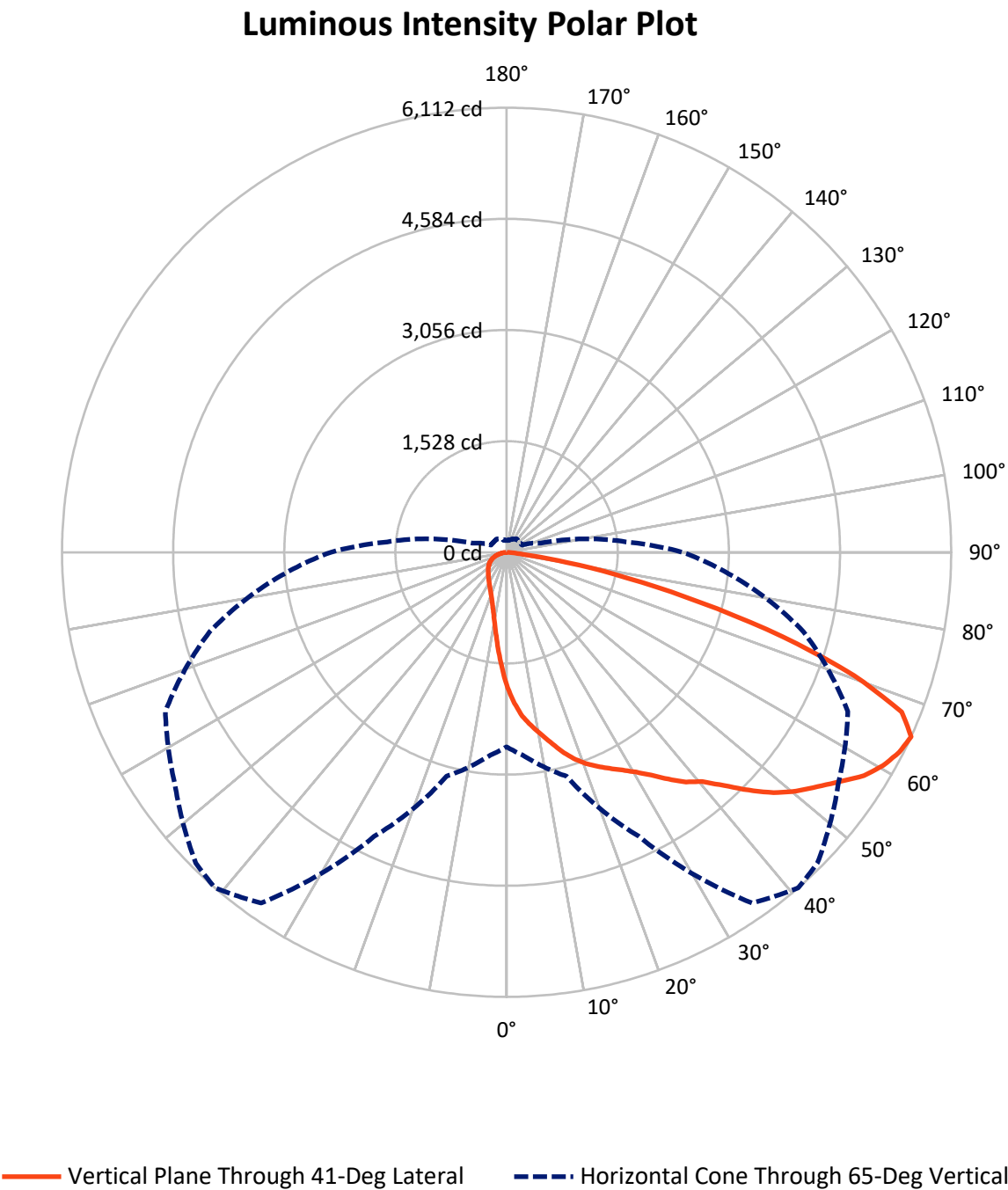
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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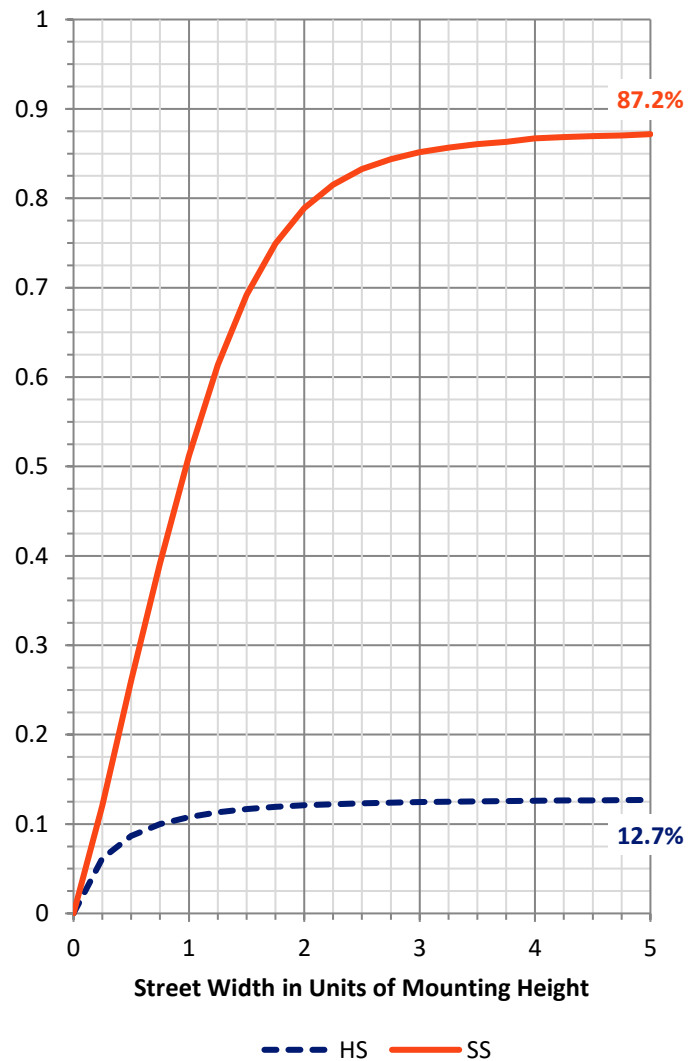
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1404.0   | 0.0    | 1404.0  |
|                    | % Fixture | 12.8     | 0.0    | 12.8    |
| <b>Street Side</b> | Lumens    | 9532.0   | 0.0    | 9532.0  |
|                    | % Fixture | 87.2     | 0.0    | 87.2    |
| <b>Total</b>       | Lumens    | 10936.0  | 0.0    | 10936.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 173.6   | 1.6       |
| 10°-20°   | 520.6   | 4.8       |
| 20°-30°   | 895.7   | 8.2       |
| 30°-40°   | 1358.4  | 12.4      |
| 40°-50°   | 1990.1  | 18.2      |
| 50°-60°   | 2513.1  | 23.0      |
| 60°-70°   | 2356.5  | 21.5      |
| 70°-80°   | 1050.3  | 9.6       |
| 80°-90°   | 77.8    | 0.7       |
| 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°    | 10936.0 | 100.0     |
| 0°-180°   | 10936.0 | 100.0     |

**Coefficient of Utilization**



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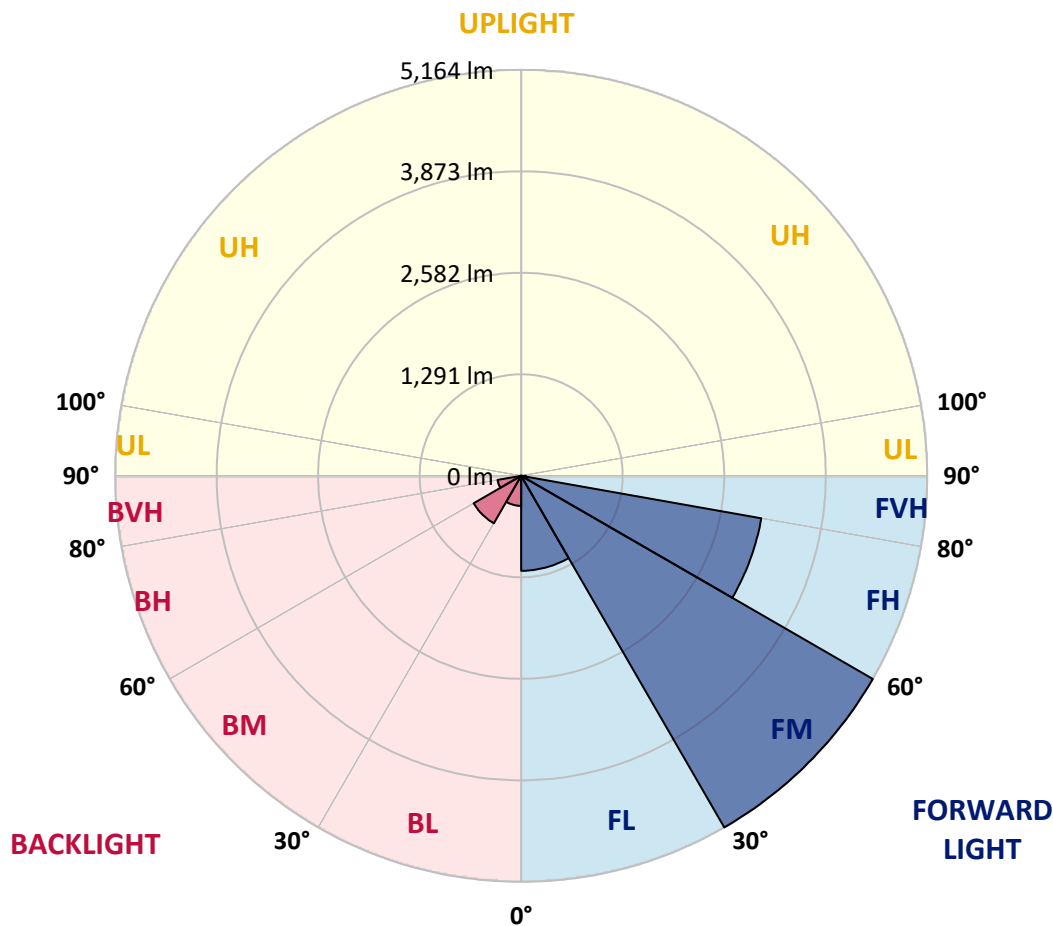
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1207.7 | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 5164.4 | 47.2      |                         |      |         |
| FH   | (60°-80°)   | 3101.7 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 58.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 382.2  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 697.2  | 6.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 305.0  | 2.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 19.7   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 41°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 |
| 2.5°  | 2149.4 | 2142.5 | 2137.9 | 2112.5 | 2112.5 | 2077.9 | 2080.2 | 2047.9 | 2008.7 | 1946.5 | 1879.6 |
| 5°    | 2352.4 | 2343.1 | 2331.6 | 2306.2 | 2297.0 | 2262.4 | 2257.8 | 2211.7 | 2144.8 | 2036.4 | 1916.5 |
| 7.5°  | 2529.9 | 2520.7 | 2504.6 | 2467.7 | 2442.3 | 2400.8 | 2389.3 | 2329.3 | 2255.5 | 2121.7 | 1953.4 |
| 10°   | 2691.4 | 2684.5 | 2663.7 | 2617.6 | 2583.0 | 2532.2 | 2511.5 | 2430.8 | 2338.5 | 2190.9 | 1983.4 |
| 12.5° | 2855.1 | 2845.9 | 2818.2 | 2779.0 | 2737.5 | 2677.5 | 2652.2 | 2548.4 | 2430.8 | 2267.0 | 2027.2 |
| 15°   | 3007.3 | 2993.5 | 2972.7 | 2931.2 | 2894.3 | 2836.7 | 2809.0 | 2686.8 | 2543.8 | 2352.4 | 2084.8 |
| 17.5° | 3106.5 | 3095.0 | 3076.5 | 3053.5 | 3023.5 | 2979.7 | 2952.0 | 2832.1 | 2656.8 | 2435.4 | 2144.8 |
| 20°   | 3166.5 | 3161.8 | 3154.9 | 3141.1 | 3127.3 | 3097.3 | 3076.5 | 2963.5 | 2779.0 | 2516.1 | 2202.5 |
| 22.5° | 3212.6 | 3208.0 | 3205.7 | 3205.7 | 3208.0 | 3196.4 | 3182.6 | 3085.7 | 2896.6 | 2601.4 | 2255.5 |
| 25°   | 3284.1 | 3281.8 | 3277.2 | 3272.5 | 3288.7 | 3291.0 | 3286.4 | 3219.5 | 3044.2 | 2714.4 | 2322.4 |
| 27.5° | 3383.2 | 3376.3 | 3367.1 | 3362.5 | 3378.6 | 3390.2 | 3399.4 | 3353.3 | 3201.1 | 2829.7 | 2398.5 |
| 30°   | 3535.5 | 3514.7 | 3491.6 | 3475.5 | 3487.0 | 3505.5 | 3526.2 | 3498.6 | 3362.5 | 2972.7 | 2476.9 |
| 32.5° | 3715.3 | 3690.0 | 3636.9 | 3607.0 | 3636.9 | 3650.8 | 3666.9 | 3653.1 | 3530.8 | 3127.3 | 2555.3 |
| 35°   | 3934.4 | 3904.5 | 3849.1 | 3805.3 | 3858.3 | 3828.3 | 3821.4 | 3807.6 | 3690.0 | 3279.5 | 2642.9 |
| 37.5° | 4298.8 | 4255.0 | 4167.4 | 4070.5 | 4070.5 | 4005.9 | 3980.6 | 3939.0 | 3833.0 | 3415.5 | 2728.3 |
| 40°   | 4720.9 | 4663.2 | 4550.2 | 4407.2 | 4275.8 | 4142.0 | 4125.9 | 4095.9 | 4001.3 | 3572.4 | 2825.1 |
| 42.5° | 5184.4 | 5073.7 | 4916.9 | 4743.9 | 4531.8 | 4379.5 | 4342.6 | 4257.3 | 4165.1 | 3731.5 | 2922.0 |
| 45°   | 5698.7 | 5468.1 | 5239.8 | 5152.1 | 4801.6 | 4663.2 | 4594.0 | 4439.5 | 4335.7 | 3897.5 | 3023.5 |
| 47.5° | 5781.7 | 5601.8 | 5449.6 | 5435.8 | 5053.0 | 4937.6 | 4859.2 | 4637.8 | 4520.2 | 4075.1 | 3129.6 |
| 50°   | 5735.6 | 5627.2 | 5643.4 | 5588.0 | 5237.5 | 5161.4 | 5101.4 | 4850.0 | 4702.4 | 4245.8 | 3226.4 |
| 52.5° | 5541.9 | 5601.8 | 5694.1 | 5592.6 | 5412.7 | 5350.5 | 5320.5 | 5078.3 | 4873.1 | 4402.6 | 3314.1 |
| 55°   | 5311.3 | 5352.8 | 5551.1 | 5675.6 | 5615.7 | 5560.3 | 5532.7 | 5343.5 | 5041.4 | 4534.1 | 3394.8 |
| 57.5° | 4974.5 | 4956.1 | 5175.2 | 5661.8 | 5827.9 | 5795.6 | 5765.6 | 5604.1 | 5198.3 | 4628.6 | 3445.5 |
| 60°   | 4469.5 | 4430.3 | 4707.0 | 5385.1 | 5897.0 | 5947.8 | 5933.9 | 5777.1 | 5318.2 | 4626.3 | 3424.8 |
| 62.5° | 3595.4 | 3692.3 | 4075.1 | 4933.0 | 5927.0 | 6056.2 | 6030.8 | 5791.0 | 5357.4 | 4492.5 | 3293.3 |
| 65°   | 2672.9 | 2811.3 | 3187.2 | 4310.4 | 5885.5 | 6111.5 | 6042.3 | 5564.9 | 5175.2 | 4227.3 | 3005.0 |
| 67.5° | 1925.7 | 2047.9 | 2322.4 | 3547.0 | 5486.5 | 5857.8 | 5777.1 | 5195.9 | 4755.5 | 3851.4 | 2606.0 |
| 70°   | 1316.9 | 1404.5 | 1591.3 | 2583.0 | 4684.0 | 5064.5 | 5013.8 | 4644.8 | 4093.6 | 3404.0 | 2117.1 |
| 72.5° | 929.4  | 966.3  | 1086.2 | 1704.3 | 3558.5 | 3973.6 | 3913.7 | 3821.4 | 3288.7 | 2829.7 | 1646.7 |
| 75°   | 696.5  | 719.5  | 784.1  | 1102.4 | 2400.8 | 2753.6 | 2698.3 | 2751.3 | 2456.1 | 2142.5 | 1199.2 |
| 77.5° | 262.9  | 286.0  | 445.1  | 703.4  | 1420.6 | 1690.5 | 1635.1 | 1667.4 | 1365.3 | 1081.6 | 597.3  |
| 80°   | 71.5   | 76.1   | 147.6  | 334.4  | 645.7  | 841.8  | 765.7  | 657.3  | 507.4  | 498.1  | 316.0  |
| 82.5° | 30.0   | 34.6   | 66.9   | 179.9  | 230.6  | 230.6  | 193.7  | 239.8  | 193.7  | 232.9  | 152.2  |
| 85°   | 11.5   | 13.8   | 16.1   | 46.1   | 30.0   | 32.3   | 34.6   | 46.1   | 39.2   | 48.4   | 34.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 2.3    | 2.3    | 4.6    | 2.3    | 4.6    | 6.9    | 6.9    | 6.9    |
| 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°    | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 | 1863.4 |
| 2.5°  | 1851.9 | 1826.5 | 1789.6 | 1729.7 | 1667.4 | 1632.8 | 1589.0 | 1582.1 | 1536.0 | 1531.3 | 1512.9 |
| 5°    | 1863.4 | 1810.4 | 1715.8 | 1600.5 | 1487.5 | 1399.9 | 1335.3 | 1300.7 | 1233.8 | 1233.8 | 1215.4 |
| 7.5°  | 1872.7 | 1789.6 | 1637.4 | 1466.8 | 1312.2 | 1194.6 | 1107.0 | 1070.1 | 1010.1 | 1005.5 | 991.7  |
| 10°   | 1875.0 | 1764.3 | 1552.1 | 1330.7 | 1141.6 | 1021.7 | 936.3  | 894.8  | 841.8  | 837.2  | 827.9  |
| 12.5° | 1893.4 | 1750.4 | 1476.0 | 1213.1 | 1019.4 | 890.2  | 807.2  | 772.6  | 731.1  | 726.5  | 717.2  |
| 15°   | 1923.4 | 1750.4 | 1411.4 | 1113.9 | 911.0  | 791.0  | 719.5  | 687.3  | 657.3  | 652.7  | 648.1  |
| 17.5° | 1953.4 | 1745.8 | 1346.8 | 1021.7 | 821.0  | 712.6  | 650.4  | 625.0  | 601.9  | 599.6  | 595.0  |
| 20°   | 1981.1 | 1743.5 | 1282.3 | 943.2  | 751.8  | 648.1  | 599.6  | 576.6  | 558.1  | 558.1  | 555.8  |
| 22.5° | 2008.7 | 1738.9 | 1220.0 | 869.5  | 691.9  | 599.6  | 558.1  | 532.7  | 518.9  | 518.9  | 516.6  |
| 25°   | 2050.2 | 1738.9 | 1162.3 | 807.2  | 643.4  | 562.7  | 521.2  | 502.8  | 491.2  | 488.9  | 488.9  |
| 27.5° | 2098.7 | 1752.7 | 1111.6 | 751.8  | 601.9  | 525.8  | 493.5  | 475.1  | 461.2  | 456.6  | 458.9  |
| 30°   | 2151.7 | 1764.3 | 1065.5 | 703.4  | 562.7  | 498.1  | 463.6  | 445.1  | 431.3  | 426.7  | 429.0  |
| 32.5° | 2204.8 | 1778.1 | 1024.0 | 659.6  | 523.5  | 472.8  | 438.2  | 417.4  | 403.6  | 401.3  | 401.3  |
| 35°   | 2262.4 | 1791.9 | 982.5  | 622.7  | 491.2  | 447.4  | 415.1  | 392.1  | 382.8  | 378.2  | 380.5  |
| 37.5° | 2320.1 | 1815.0 | 943.2  | 588.1  | 468.2  | 424.3  | 394.4  | 371.3  | 364.4  | 362.1  | 362.1  |
| 40°   | 2389.3 | 1849.6 | 927.1  | 565.0  | 447.4  | 403.6  | 378.2  | 355.2  | 348.2  | 348.2  | 348.2  |
| 42.5° | 2446.9 | 1877.3 | 913.3  | 539.7  | 431.3  | 385.1  | 362.1  | 343.6  | 339.0  | 336.7  | 339.0  |
| 45°   | 2504.6 | 1902.6 | 894.8  | 516.6  | 410.5  | 366.7  | 348.2  | 329.8  | 325.2  | 325.2  | 325.2  |
| 47.5° | 2562.2 | 1916.5 | 869.5  | 493.5  | 392.1  | 350.5  | 334.4  | 318.3  | 313.6  | 313.6  | 313.6  |
| 50°   | 2608.4 | 1928.0 | 832.6  | 468.2  | 371.3  | 336.7  | 320.6  | 304.4  | 299.8  | 299.8  | 299.8  |
| 52.5° | 2654.5 | 1930.3 | 793.3  | 438.2  | 350.5  | 320.6  | 306.7  | 290.6  | 286.0  | 283.7  | 283.7  |
| 55°   | 2696.0 | 1928.0 | 747.2  | 403.6  | 327.5  | 302.1  | 290.6  | 276.7  | 267.5  | 258.3  | 262.9  |
| 57.5° | 2726.0 | 1925.7 | 694.2  | 369.0  | 304.4  | 283.7  | 279.1  | 260.6  | 242.2  | 219.1  | 223.7  |
| 60°   | 2714.4 | 1900.3 | 636.5  | 325.2  | 279.1  | 265.2  | 265.2  | 239.8  | 207.6  | 196.0  | 198.3  |
| 62.5° | 2640.6 | 1828.8 | 576.6  | 279.1  | 253.7  | 246.8  | 244.5  | 216.8  | 191.4  | 179.9  | 182.2  |
| 65°   | 2419.2 | 1649.0 | 488.9  | 237.5  | 228.3  | 226.0  | 226.0  | 200.6  | 177.6  | 163.7  | 166.0  |
| 67.5° | 2082.5 | 1383.7 | 399.0  | 200.6  | 202.9  | 207.6  | 207.6  | 184.5  | 161.4  | 147.6  | 149.9  |
| 70°   | 1669.7 | 1081.6 | 318.3  | 173.0  | 175.3  | 182.2  | 186.8  | 166.0  | 145.3  | 131.5  | 131.5  |
| 72.5° | 1256.9 | 821.0  | 256.0  | 145.3  | 156.8  | 156.8  | 163.7  | 147.6  | 126.8  | 113.0  | 115.3  |
| 75°   | 911.0  | 588.1  | 202.9  | 122.2  | 136.1  | 133.8  | 133.8  | 124.5  | 108.4  | 99.2   | 99.2   |
| 77.5° | 431.3  | 309.0  | 161.4  | 87.6   | 106.1  | 103.8  | 106.1  | 99.2   | 92.2   | 83.0   | 85.3   |
| 80°   | 212.2  | 152.2  | 103.8  | 62.3   | 73.8   | 76.1   | 83.0   | 78.4   | 76.1   | 69.2   | 69.2   |
| 82.5° | 101.5  | 60.0   | 48.4   | 43.8   | 50.7   | 53.0   | 57.7   | 57.7   | 60.0   | 55.3   | 55.3   |
| 85°   | 27.7   | 16.1   | 20.8   | 27.7   | 32.3   | 34.6   | 39.2   | 41.5   | 41.5   | 39.2   | 41.5   |
| 87.5° | 6.9    | 6.9    | 9.2    | 13.8   | 16.1   | 18.4   | 20.8   | 20.8   | 9.2    | 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    | 0.0    |

(END OF REPORT)