

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: P799892

Luminaire Tested: **ARCH2-60-730-U-T2U-HSS**

Issue Date: 4/4/2024

#### Test Information

Test Method: LM-79-08  
Report Number: P799892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-60-730-U-T2U-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5955 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.8  
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

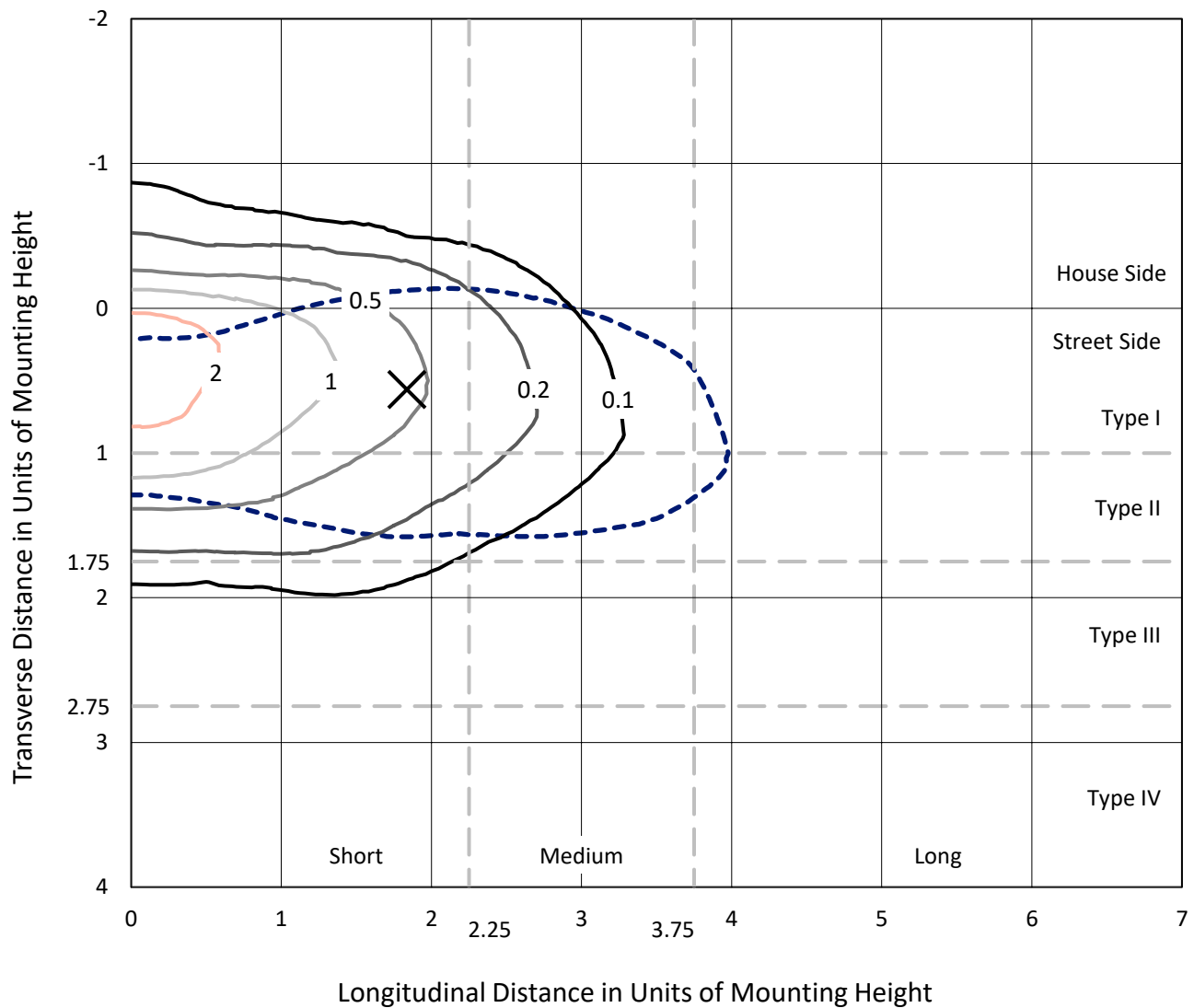


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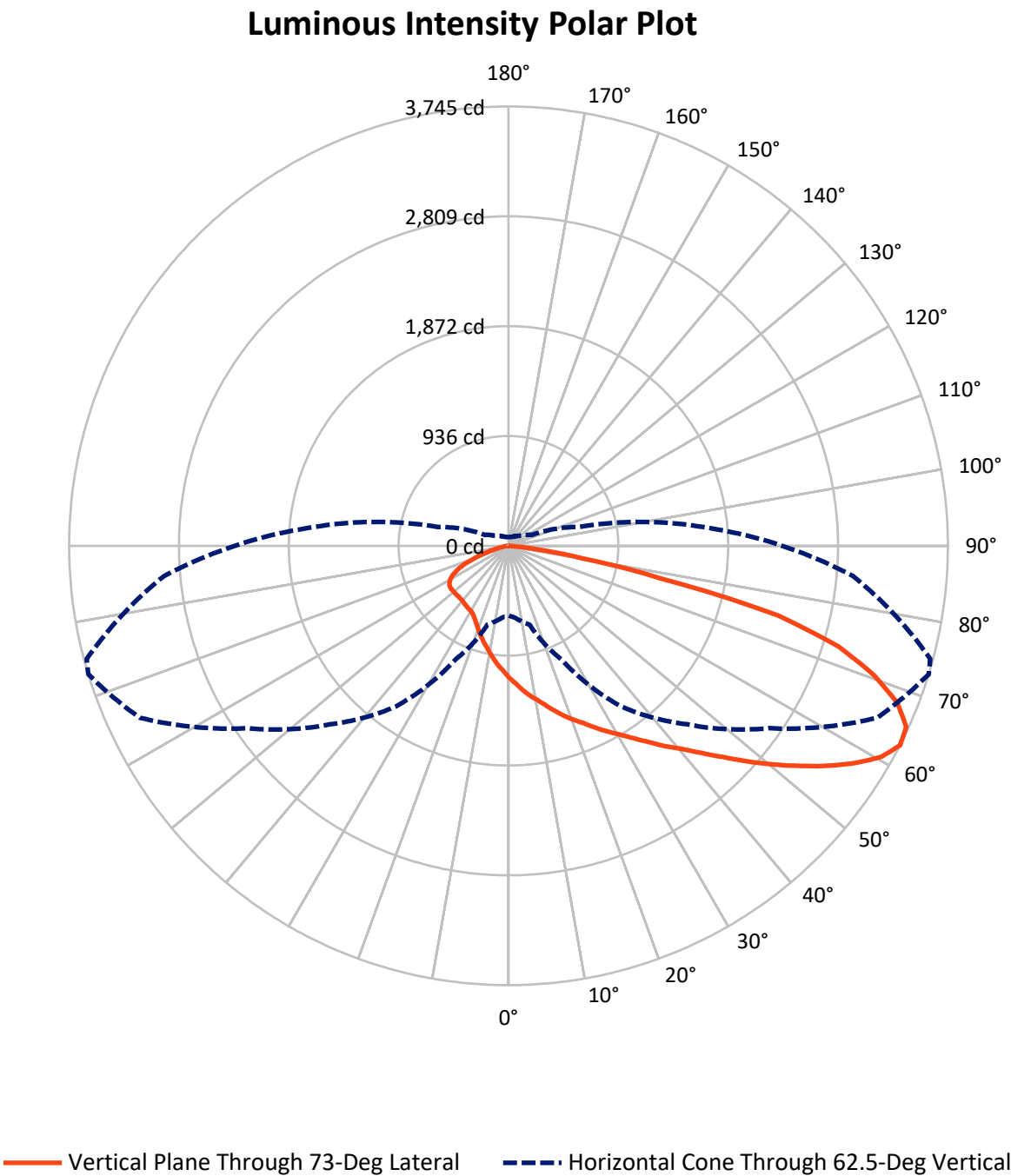
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
Type II - Short - N/A

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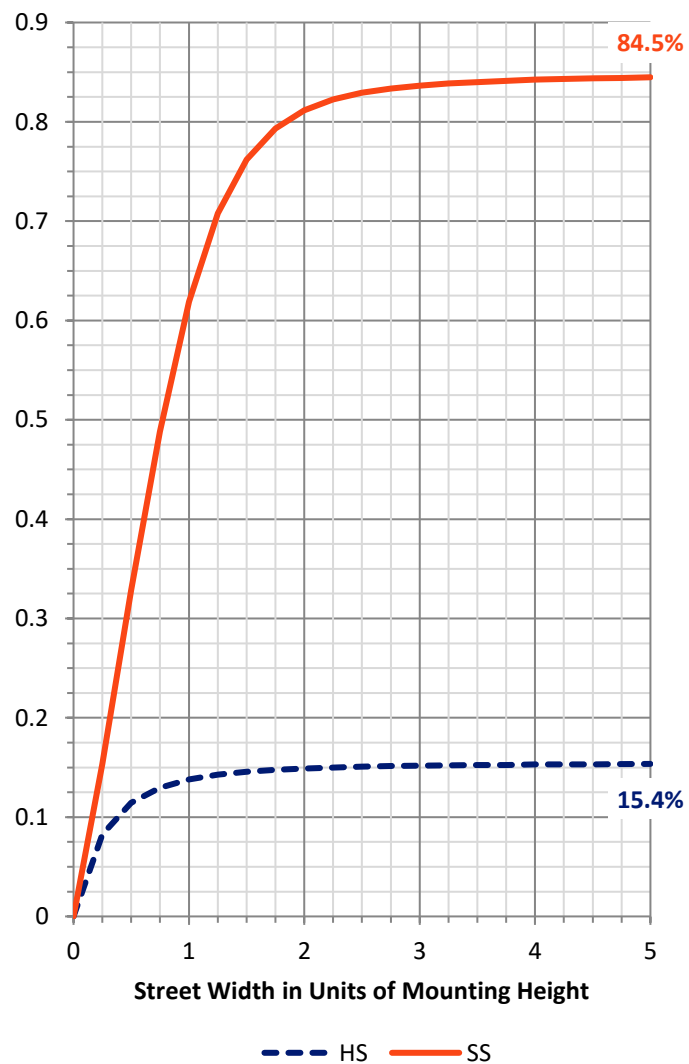
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 923.1    | 0.0    | 923.1  |
|                    | % Fixture | 15.5     | 0.0    | 15.5   |
| <b>Street Side</b> | Lumens    | 5031.9   | 0.0    | 5031.9 |
|                    | % Fixture | 84.5     | 0.0    | 84.5   |
| <b>Total</b>       | Lumens    | 5955.0   | 0.0    | 5955.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.9  | 1.8       |
| 10°-20°   | 328.7  | 5.5       |
| 20°-30°   | 547.1  | 9.2       |
| 30°-40°   | 825.6  | 13.9      |
| 40°-50°   | 1153.9 | 19.4      |
| 50°-60°   | 1274.6 | 21.4      |
| 60°-70°   | 1110.3 | 18.6      |
| 70°-80°   | 560.9  | 9.4       |
| 80°-90°   | 45.0   | 0.8       |
| 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°    | 5955.0 | 100.0     |
| 0°-180°   | 5955.0 | 100.0     |

**Coefficient of Utilization**



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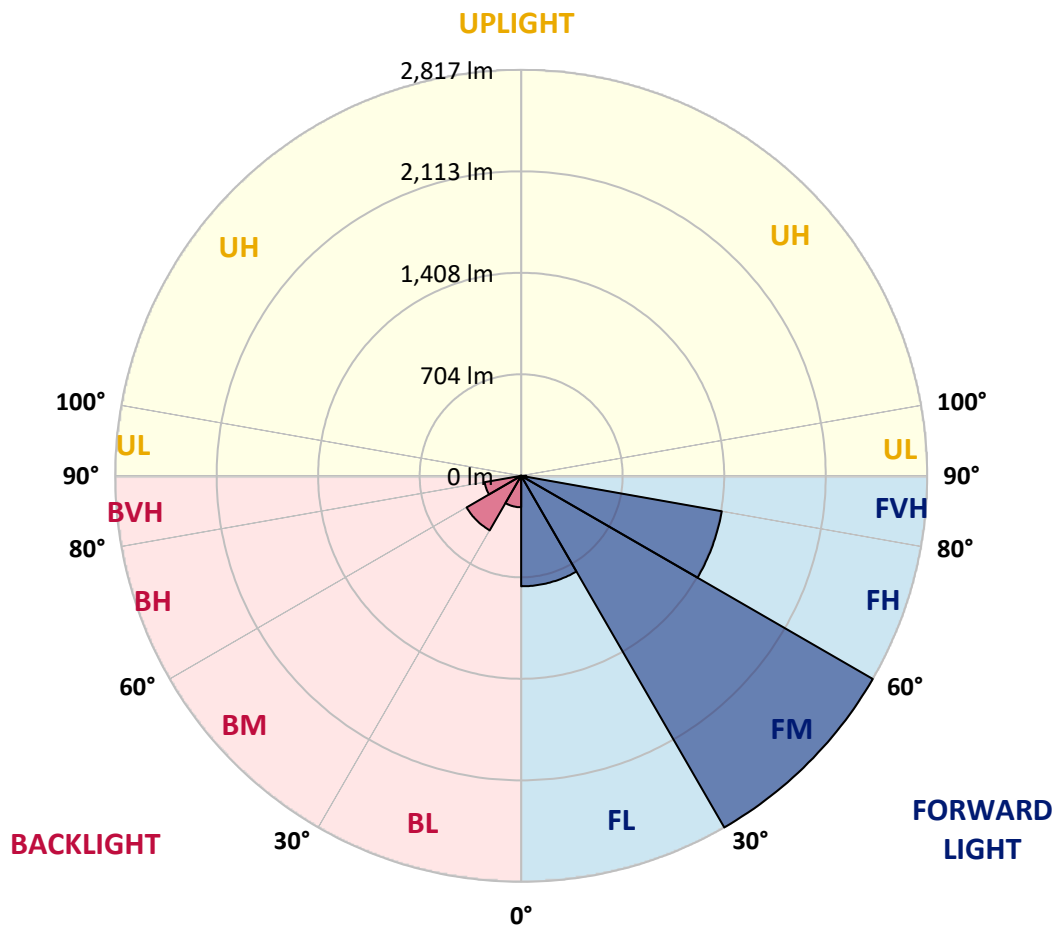
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 766.6  | 12.9      |                         |      |         |
| FM   | (30°-60°)   | 2816.9 | 47.3      |                         |      |         |
| FH   | (60°-80°)   | 1413.5 | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 34.8   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 218.2  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 437.1  | 7.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 257.7  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.2   | 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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 73°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 |
| 2.5°  | 1283.3 | 1297.6 | 1289.8 | 1295.0 | 1269.0 | 1252.2 | 1232.7 | 1195.1 | 1174.3 | 1171.7 | 1147.1 |
| 5°    | 1471.4 | 1487.0 | 1474.0 | 1470.2 | 1424.7 | 1385.8 | 1341.7 | 1275.5 | 1231.4 | 1223.6 | 1169.1 |
| 7.5°  | 1659.6 | 1673.9 | 1658.3 | 1646.6 | 1585.6 | 1516.9 | 1452.0 | 1354.7 | 1285.9 | 1272.9 | 1187.3 |
| 10°   | 1791.9 | 1804.9 | 1793.2 | 1781.6 | 1718.0 | 1647.9 | 1555.8 | 1428.6 | 1335.2 | 1314.4 | 1199.0 |
| 12.5° | 1891.9 | 1899.6 | 1894.5 | 1884.1 | 1824.4 | 1749.1 | 1660.9 | 1511.7 | 1391.0 | 1365.0 | 1217.1 |
| 15°   | 1973.6 | 1986.6 | 1980.1 | 1972.3 | 1915.2 | 1840.0 | 1755.6 | 1598.6 | 1455.9 | 1423.4 | 1244.4 |
| 17.5° | 2028.1 | 2037.2 | 2038.5 | 2038.5 | 1987.9 | 1913.9 | 1832.2 | 1677.8 | 1520.8 | 1479.2 | 1270.3 |
| 20°   | 2052.8 | 2063.1 | 2069.6 | 2080.0 | 2038.5 | 1974.9 | 1891.9 | 1745.2 | 1581.7 | 1535.0 | 1295.0 |
| 22.5° | 2064.4 | 2073.5 | 2090.4 | 2113.7 | 2080.0 | 2026.8 | 1950.3 | 1807.5 | 1642.7 | 1593.4 | 1323.5 |
| 25°   | 2073.5 | 2085.2 | 2109.9 | 2154.0 | 2130.6 | 2085.2 | 2019.0 | 1878.9 | 1715.4 | 1664.8 | 1365.0 |
| 27.5° | 2098.2 | 2112.5 | 2135.8 | 2189.0 | 2160.5 | 2138.4 | 2091.7 | 1955.4 | 1791.9 | 1740.0 | 1415.7 |
| 30°   | 2183.8 | 2195.5 | 2194.2 | 2227.9 | 2192.9 | 2186.4 | 2154.0 | 2029.4 | 1865.9 | 1814.0 | 1475.3 |
| 32.5° | 2339.5 | 2351.2 | 2322.7 | 2309.7 | 2233.1 | 2234.4 | 2221.4 | 2108.6 | 1954.1 | 1900.9 | 1544.1 |
| 35°   | 2506.9 | 2519.9 | 2482.3 | 2460.2 | 2331.7 | 2294.1 | 2300.6 | 2207.2 | 2052.8 | 1999.6 | 1629.8 |
| 37.5° | 2656.1 | 2671.7 | 2639.3 | 2606.8 | 2477.1 | 2390.1 | 2388.8 | 2317.5 | 2165.7 | 2111.2 | 1724.5 |
| 40°   | 2737.9 | 2756.0 | 2775.5 | 2757.3 | 2621.1 | 2525.1 | 2483.6 | 2430.4 | 2277.2 | 2221.4 | 1827.0 |
| 42.5° | 2776.8 | 2827.4 | 2862.4 | 2850.8 | 2739.2 | 2641.9 | 2592.6 | 2548.4 | 2413.5 | 2359.0 | 1949.0 |
| 45°   | 2667.8 | 2669.1 | 2743.1 | 2806.7 | 2785.9 | 2721.0 | 2711.9 | 2680.8 | 2569.2 | 2517.3 | 2086.5 |
| 47.5° | 2531.6 | 2521.2 | 2573.1 | 2686.0 | 2744.4 | 2761.2 | 2814.4 | 2827.4 | 2747.0 | 2695.1 | 2226.6 |
| 50°   | 2204.6 | 2211.1 | 2379.8 | 2541.9 | 2656.1 | 2765.1 | 2887.1 | 2977.9 | 2929.9 | 2880.6 | 2374.6 |
| 52.5° | 1793.2 | 1808.8 | 2002.2 | 2359.0 | 2539.4 | 2726.2 | 2929.9 | 3128.5 | 3116.8 | 3070.1 | 2522.5 |
| 55°   | 1437.7 | 1462.4 | 1667.4 | 2054.1 | 2390.1 | 2639.3 | 2948.1 | 3266.0 | 3310.1 | 3267.3 | 2667.8 |
| 57.5° | 1099.0 | 1125.0 | 1297.6 | 1694.6 | 2199.4 | 2497.8 | 2935.1 | 3386.7 | 3490.5 | 3463.2 | 2801.5 |
| 60°   | 827.9  | 853.8  | 964.1  | 1374.1 | 1960.6 | 2339.5 | 2870.2 | 3465.8 | 3652.7 | 3624.1 | 2898.8 |
| 62.5° | 593.0  | 613.8  | 695.5  | 1069.2 | 1670.0 | 2151.4 | 2710.6 | 3467.1 | 3744.8 | 3721.4 | 2945.5 |
| 65°   | 426.9  | 426.9  | 493.1  | 763.0  | 1397.5 | 1925.6 | 2469.3 | 3307.5 | 3725.3 | 3718.8 | 2913.1 |
| 67.5° | 307.5  | 310.1  | 363.3  | 533.3  | 1114.6 | 1651.8 | 2156.6 | 3023.3 | 3574.8 | 3607.3 | 2796.3 |
| 70°   | 218.0  | 224.5  | 249.1  | 372.4  | 842.1  | 1304.1 | 1821.8 | 2650.9 | 3303.6 | 3360.7 | 2570.5 |
| 72.5° | 168.7  | 172.6  | 189.4  | 259.5  | 615.1  | 969.3  | 1452.0 | 2235.7 | 2941.6 | 3006.5 | 2263.0 |
| 75°   | 129.8  | 133.7  | 146.6  | 190.7  | 441.2  | 679.9  | 1031.6 | 1734.9 | 2372.0 | 2487.4 | 1817.9 |
| 77.5° | 94.7   | 99.9   | 109.0  | 138.8  | 256.9  | 432.1  | 625.4  | 975.8  | 1309.3 | 1363.8 | 952.4  |
| 80°   | 44.1   | 50.6   | 63.6   | 89.5   | 138.8  | 203.7  | 221.9  | 376.3  | 629.3  | 657.9  | 516.4  |
| 82.5° | 24.7   | 31.1   | 36.3   | 54.5   | 70.1   | 72.7   | 75.3   | 94.7   | 237.5  | 262.1  | 216.7  |
| 85°   | 11.7   | 15.6   | 16.9   | 23.4   | 23.4   | 20.8   | 24.7   | 18.2   | 38.9   | 46.7   | 45.4   |
| 87.5° | 0.0    | 1.3    | 2.6    | 6.5    | 5.2    | 3.9    | 3.9    | 3.9    | 3.9    | 5.2    | 3.9    |
| 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°    | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 | 1127.6 |
| 2.5°  | 1135.4 | 1118.5 | 1079.6 | 1045.8 | 1023.8 | 1004.3 | 978.4  | 966.7  | 945.9  | 949.8  | 938.1  |
| 5°    | 1141.9 | 1110.7 | 1042.0 | 978.4  | 931.7  | 890.1  | 844.7  | 818.8  | 790.2  | 787.6  | 778.5  |
| 7.5°  | 1145.8 | 1097.7 | 999.1  | 909.6  | 838.2  | 774.7  | 713.7  | 679.9  | 644.9  | 637.1  | 629.3  |
| 10°   | 1141.9 | 1078.3 | 955.0  | 838.2  | 743.5  | 664.4  | 595.6  | 552.8  | 516.4  | 507.4  | 499.6  |
| 12.5° | 1145.8 | 1067.9 | 913.5  | 772.1  | 659.2  | 569.6  | 491.8  | 447.7  | 413.9  | 404.8  | 399.7  |
| 15°   | 1154.8 | 1061.4 | 878.5  | 712.4  | 583.9  | 484.0  | 407.4  | 369.8  | 342.6  | 333.5  | 330.9  |
| 17.5° | 1162.6 | 1054.9 | 840.8  | 654.0  | 508.6  | 408.7  | 342.6  | 311.4  | 288.1  | 279.0  | 276.4  |
| 20°   | 1173.0 | 1045.8 | 803.2  | 598.2  | 442.5  | 349.0  | 290.7  | 263.4  | 245.2  | 238.8  | 237.5  |
| 22.5° | 1182.1 | 1039.4 | 768.2  | 542.4  | 381.5  | 301.0  | 251.7  | 229.7  | 216.7  | 210.2  | 210.2  |
| 25°   | 1205.4 | 1042.0 | 738.3  | 490.5  | 336.1  | 263.4  | 221.9  | 205.0  | 194.6  | 190.7  | 190.7  |
| 27.5° | 1232.7 | 1052.3 | 715.0  | 446.4  | 297.1  | 234.9  | 201.1  | 186.9  | 181.7  | 176.5  | 177.8  |
| 30°   | 1271.6 | 1073.1 | 699.4  | 410.0  | 268.6  | 212.8  | 184.3  | 173.9  | 168.7  | 167.4  | 167.4  |
| 32.5° | 1320.9 | 1106.8 | 698.1  | 386.7  | 247.8  | 195.9  | 172.6  | 163.5  | 160.9  | 159.6  | 159.6  |
| 35°   | 1379.3 | 1136.7 | 690.3  | 376.3  | 234.9  | 184.3  | 163.5  | 157.0  | 155.7  | 155.7  | 155.7  |
| 37.5° | 1449.4 | 1186.0 | 685.1  | 362.0  | 228.4  | 177.8  | 157.0  | 151.8  | 151.8  | 151.8  | 151.8  |
| 40°   | 1522.1 | 1226.2 | 677.3  | 349.0  | 225.8  | 173.9  | 153.1  | 146.6  | 146.6  | 146.6  | 146.6  |
| 42.5° | 1609.0 | 1284.6 | 674.7  | 342.6  | 221.9  | 171.3  | 147.9  | 140.1  | 141.4  | 141.4  | 142.7  |
| 45°   | 1714.1 | 1350.8 | 673.4  | 336.1  | 220.6  | 168.7  | 142.7  | 133.7  | 134.9  | 133.7  | 133.7  |
| 47.5° | 1820.5 | 1427.3 | 677.3  | 332.2  | 219.3  | 166.1  | 138.8  | 127.2  | 127.2  | 125.9  | 125.9  |
| 50°   | 1932.1 | 1497.4 | 679.9  | 328.3  | 216.7  | 160.9  | 132.4  | 122.0  | 119.4  | 116.8  | 118.1  |
| 52.5° | 2037.2 | 1562.3 | 681.2  | 321.8  | 208.9  | 153.1  | 127.2  | 115.5  | 111.6  | 107.7  | 109.0  |
| 55°   | 2142.3 | 1624.6 | 683.8  | 314.0  | 198.5  | 145.3  | 120.7  | 109.0  | 103.8  | 98.6   | 98.6   |
| 57.5° | 2237.0 | 1679.1 | 677.3  | 294.5  | 186.9  | 137.5  | 114.2  | 101.2  | 93.4   | 88.2   | 88.2   |
| 60°   | 2301.9 | 1718.0 | 657.9  | 266.0  | 171.3  | 128.5  | 107.7  | 93.4   | 84.3   | 80.4   | 80.4   |
| 62.5° | 2333.0 | 1724.5 | 622.8  | 219.3  | 151.8  | 119.4  | 99.9   | 85.6   | 77.9   | 75.3   | 75.3   |
| 65°   | 2303.2 | 1695.9 | 568.3  | 164.8  | 131.1  | 109.0  | 92.1   | 79.2   | 71.4   | 64.9   | 64.9   |
| 67.5° | 2199.4 | 1615.5 | 493.1  | 124.6  | 111.6  | 98.6   | 84.3   | 72.7   | 63.6   | 58.4   | 58.4   |
| 70°   | 1990.5 | 1448.1 | 381.5  | 99.9   | 94.7   | 85.6   | 76.6   | 64.9   | 57.1   | 50.6   | 50.6   |
| 72.5° | 1716.7 | 1227.5 | 268.6  | 80.4   | 80.4   | 72.7   | 64.9   | 57.1   | 49.3   | 44.1   | 44.1   |
| 75°   | 1317.0 | 908.3  | 180.4  | 64.9   | 66.2   | 61.0   | 53.2   | 46.7   | 41.5   | 37.6   | 37.6   |
| 77.5° | 718.9  | 449.0  | 110.3  | 48.0   | 49.3   | 46.7   | 41.5   | 37.6   | 35.0   | 31.1   | 31.1   |
| 80°   | 349.0  | 197.2  | 63.6   | 33.7   | 35.0   | 33.7   | 31.1   | 27.2   | 27.2   | 24.7   | 24.7   |
| 82.5° | 146.6  | 74.0   | 33.7   | 23.4   | 23.4   | 20.8   | 19.5   | 19.5   | 19.5   | 18.2   | 18.2   |
| 85°   | 36.3   | 14.3   | 14.3   | 13.0   | 13.0   | 13.0   | 11.7   | 11.7   | 11.7   | 9.1    | 10.4   |
| 87.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 3.9    | 1.3    | 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    | 0.0    |

(END OF REPORT)