

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: P1210204

Luminaire Tested: **ARCH2-50-730-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210204  
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: ARCH2-50-730-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5634 lumens  
Efficiency: N/A  
Efficacy: 104.3 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): 54  
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

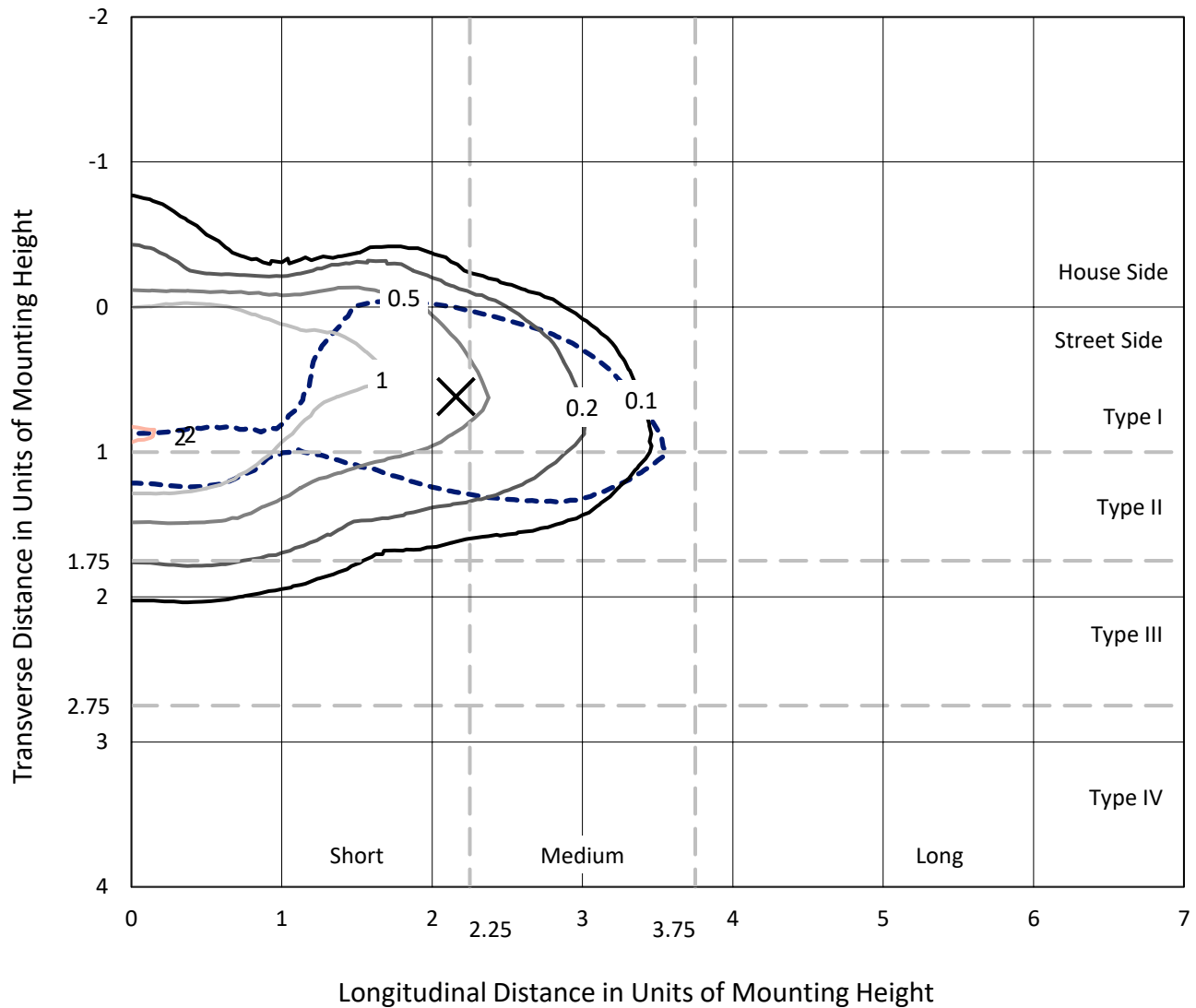


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## Iso-Footcandle Lines of Horizontal Illumination

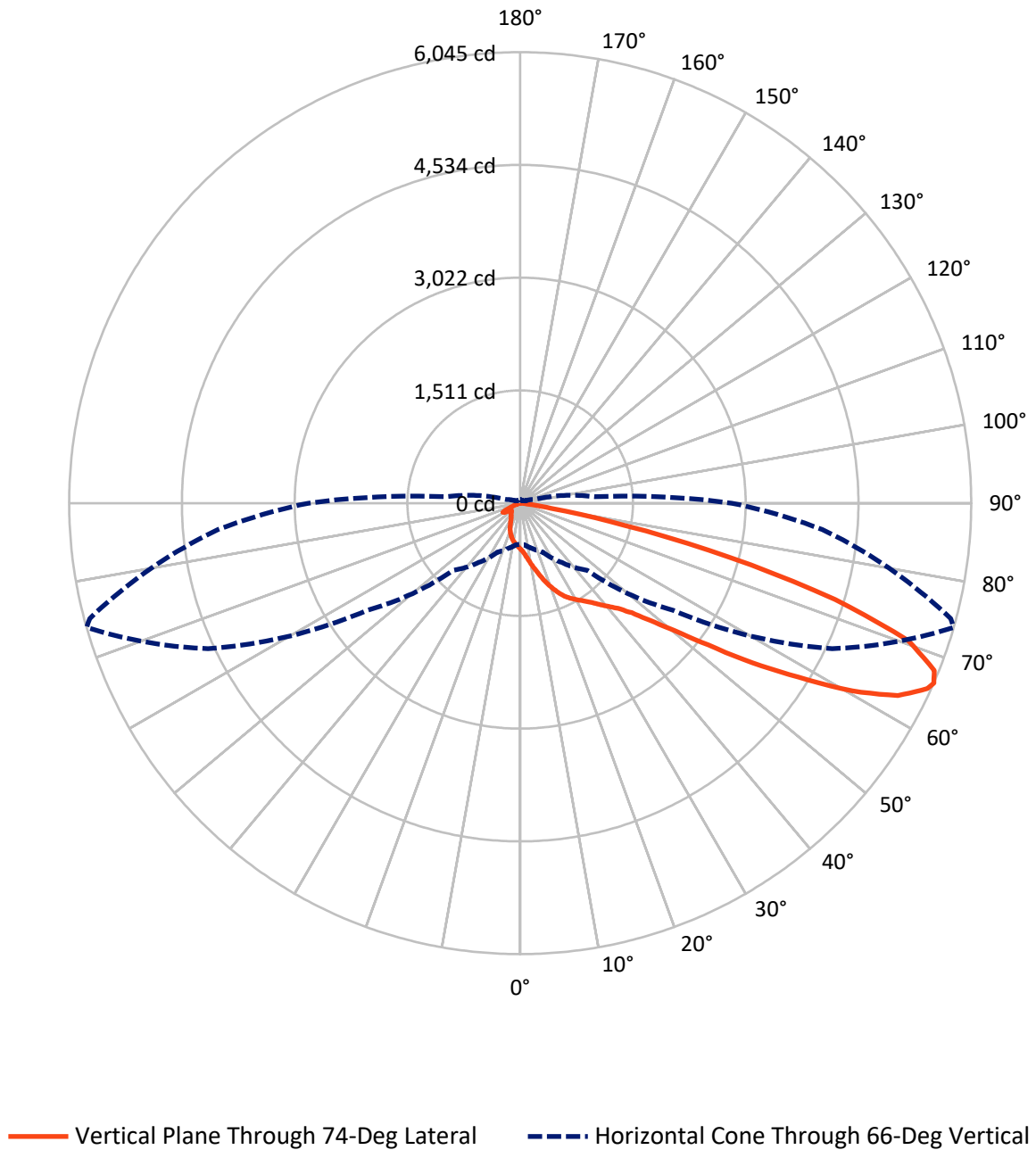
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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    | 552.3    | 0.0    | 552.3  |
|                    | % Fixture | 9.8      | 0.0    | 9.8    |
| <b>Street Side</b> | Lumens    | 5081.7   | 0.0    | 5081.7 |
|                    | % Fixture | 90.2     | 0.0    | 90.2   |
| <b>Total</b>       | Lumens    | 5634.0   | 0.0    | 5634.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.0   | 1.1       |
| 10°-20°   | 192.4  | 3.4       |
| 20°-30°   | 367.3  | 6.5       |
| 30°-40°   | 643.7  | 11.4      |
| 40°-50°   | 1103.8 | 19.6      |
| 50°-60°   | 1435.6 | 25.5      |
| 60°-70°   | 1299.6 | 23.1      |
| 70°-80°   | 501.4  | 8.9       |
| 80°-90°   | 30.2   | 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°    | 5634.0 | 100.0     |
| 0°-180°   | 5634.0 | 100.0     |

**Coefficient of Utilization**



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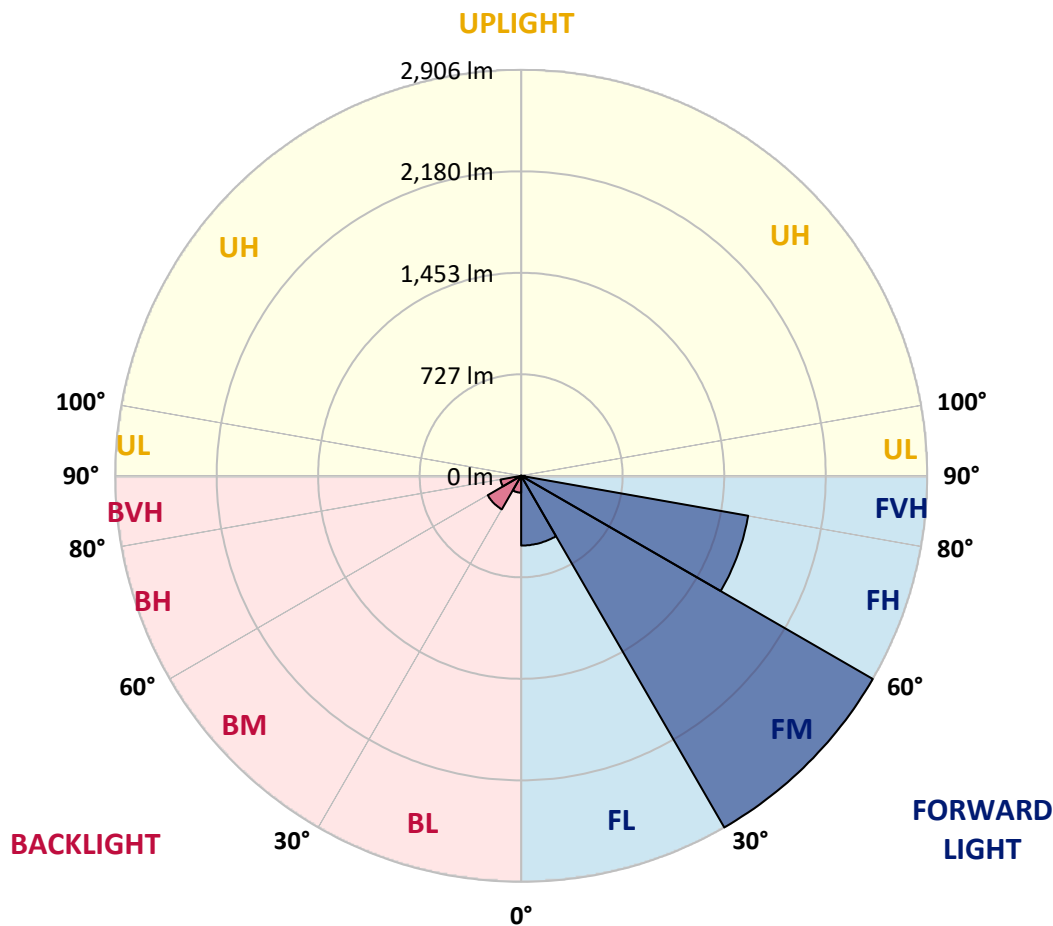
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 499.3  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 2906.3 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 1650.0 | 29.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 26.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 120.5  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 276.8  | 4.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 151.0  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 4.0    | 0.1       |                         |      | G0/10   |
| 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°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 615.0  | 615.0  | 615.0  | 615.0  | 615.0  | 615.0  | 615.0  | 615.0  | 615.0  | 615.0  | 615.0  |
| 2.5°  | 738.4  | 732.3  | 721.2  | 720.2  | 711.1  | 700.0  | 680.7  | 660.5  | 646.4  | 644.3  | 627.1  |
| 5°    | 884.1  | 881.0  | 869.9  | 862.8  | 845.6  | 819.3  | 774.8  | 730.3  | 692.9  | 688.8  | 650.4  |
| 7.5°  | 922.5  | 924.5  | 926.5  | 933.6  | 927.6  | 915.4  | 882.0  | 819.3  | 760.7  | 751.6  | 684.8  |
| 10°   | 928.6  | 926.5  | 926.5  | 935.6  | 952.8  | 970.0  | 966.0  | 912.4  | 836.5  | 825.4  | 732.3  |
| 12.5° | 994.3  | 997.4  | 990.3  | 986.2  | 983.2  | 992.3  | 1022.6 | 999.4  | 916.4  | 907.3  | 790.0  |
| 15°   | 1079.3 | 1078.3 | 1068.2 | 1068.2 | 1059.1 | 1043.9 | 1063.1 | 1080.3 | 1012.5 | 1001.4 | 855.7  |
| 17.5° | 1141.0 | 1145.0 | 1144.0 | 1150.1 | 1147.1 | 1126.8 | 1116.7 | 1152.1 | 1111.7 | 1097.5 | 930.6  |
| 20°   | 1190.6 | 1201.7 | 1205.7 | 1224.9 | 1234.0 | 1219.9 | 1193.6 | 1215.8 | 1206.7 | 1193.6 | 1006.5 |
| 22.5° | 1243.1 | 1252.3 | 1259.3 | 1292.7 | 1318.0 | 1315.0 | 1281.6 | 1276.5 | 1298.8 | 1286.6 | 1081.3 |
| 25°   | 1295.7 | 1299.8 | 1321.0 | 1361.5 | 1402.0 | 1412.1 | 1377.7 | 1338.2 | 1381.7 | 1370.6 | 1148.1 |
| 27.5° | 1353.4 | 1355.4 | 1380.7 | 1430.3 | 1486.9 | 1508.2 | 1480.9 | 1408.0 | 1445.5 | 1445.5 | 1208.8 |
| 30°   | 1458.6 | 1478.8 | 1488.9 | 1533.5 | 1583.0 | 1612.4 | 1580.0 | 1481.9 | 1502.1 | 1511.2 | 1272.5 |
| 32.5° | 1685.2 | 1688.2 | 1685.2 | 1704.4 | 1714.5 | 1731.7 | 1694.3 | 1564.8 | 1559.8 | 1569.9 | 1335.2 |
| 35°   | 2031.1 | 2019.0 | 1986.6 | 1958.3 | 1899.6 | 1867.3 | 1818.7 | 1671.0 | 1630.6 | 1644.7 | 1396.9 |
| 37.5° | 2450.9 | 2433.7 | 2359.9 | 2272.9 | 2147.4 | 2018.0 | 1957.3 | 1800.5 | 1720.6 | 1738.8 | 1463.7 |
| 40°   | 2851.5 | 2840.3 | 2752.3 | 2645.1 | 2430.7 | 2209.1 | 2080.7 | 1909.7 | 1820.7 | 1827.8 | 1531.4 |
| 42.5° | 3181.2 | 3179.2 | 3105.3 | 2993.1 | 2717.9 | 2415.5 | 2226.3 | 2017.0 | 1925.9 | 1937.0 | 1602.2 |
| 45°   | 3431.1 | 3411.8 | 3357.2 | 3276.3 | 2996.1 | 2629.9 | 2402.3 | 2179.8 | 2094.8 | 2108.0 | 1708.4 |
| 47.5° | 3431.1 | 3434.1 | 3469.5 | 3461.4 | 3190.3 | 2831.2 | 2594.5 | 2385.1 | 2344.7 | 2356.8 | 1883.4 |
| 50°   | 3151.9 | 3180.2 | 3338.0 | 3470.5 | 3291.5 | 2988.0 | 2801.9 | 2642.1 | 2683.5 | 2701.8 | 2188.9 |
| 52.5° | 2599.6 | 2647.1 | 2921.2 | 3223.7 | 3216.6 | 3066.9 | 3016.3 | 2968.8 | 3154.9 | 3187.3 | 2640.0 |
| 55°   | 1975.5 | 2006.8 | 2363.9 | 2761.4 | 2890.9 | 3002.2 | 3203.5 | 3383.5 | 3779.0 | 3771.9 | 3098.3 |
| 57.5° | 1475.8 | 1505.1 | 1812.6 | 2253.7 | 2424.6 | 2722.0 | 3299.6 | 3857.9 | 4398.1 | 4425.4 | 3528.2 |
| 60°   | 1085.4 | 1107.6 | 1369.6 | 1731.7 | 1978.5 | 2293.1 | 3261.1 | 4325.2 | 5111.2 | 5079.8 | 3907.5 |
| 62.5° | 803.1  | 815.3  | 1004.4 | 1240.1 | 1567.8 | 1868.3 | 3019.4 | 4644.9 | 5680.7 | 5616.9 | 4118.9 |
| 65°   | 621.1  | 625.1  | 723.2  | 848.7  | 1140.0 | 1452.5 | 2659.3 | 4693.4 | 5995.2 | 5927.5 | 4114.8 |
| 66°   | 553.3  | 556.3  | 628.1  | 725.3  | 970.0  | 1271.5 | 2501.5 | 4615.5 | 6044.8 | 5973.0 | 4064.3 |
| 67.5° | 464.3  | 462.3  | 504.7  | 568.5  | 728.3  | 981.2  | 2221.3 | 4387.9 | 5986.1 | 5949.7 | 3902.4 |
| 70°   | 343.9  | 344.9  | 366.2  | 381.3  | 425.8  | 543.2  | 1604.3 | 3806.3 | 5516.8 | 5514.8 | 3458.4 |
| 72.5° | 254.9  | 257.9  | 274.1  | 277.2  | 266.0  | 294.4  | 924.5  | 3027.5 | 4413.2 | 4414.2 | 2585.4 |
| 75°   | 191.2  | 196.2  | 201.3  | 203.3  | 193.2  | 186.1  | 417.8  | 2037.2 | 2903.0 | 2881.8 | 1463.7 |
| 77.5° | 145.7  | 147.7  | 151.7  | 148.7  | 146.7  | 128.5  | 174.0  | 993.3  | 1433.3 | 1305.9 | 474.4  |
| 80°   | 106.2  | 106.2  | 110.3  | 106.2  | 105.2  | 92.0   | 95.1   | 318.6  | 420.8  | 350.0  | 102.2  |
| 82.5° | 66.8   | 65.7   | 68.8   | 67.8   | 65.7   | 58.7   | 55.6   | 89.0   | 97.1   | 87.0   | 49.6   |
| 85°   | 37.4   | 36.4   | 35.4   | 34.4   | 31.4   | 26.3   | 30.3   | 33.4   | 44.5   | 45.5   | 35.4   |
| 87.5° | 13.1   | 13.1   | 12.1   | 11.1   | 9.1    | 9.1    | 11.1   | 11.1   | 16.2   | 16.2   | 18.2   |
| 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°    | 615.0  | 615.0  | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 |
| 2.5°  | 619.0  | 607.9  | 591.7 | 570.5 | 555.3 | 540.1 | 524.0 | 514.9 | 501.7 | 498.7 | 502.7 |
| 5°    | 630.2  | 609.9  | 569.5 | 525.0 | 486.5 | 452.1 | 419.8 | 400.6 | 381.3 | 374.3 | 377.3 |
| 7.5°  | 653.4  | 619.0  | 550.3 | 478.4 | 414.7 | 363.1 | 324.7 | 302.4 | 285.2 | 278.2 | 280.2 |
| 10°   | 687.8  | 635.2  | 532.1 | 425.8 | 343.9 | 289.3 | 256.9 | 242.8 | 232.6 | 228.6 | 229.6 |
| 12.5° | 729.3  | 658.5  | 508.8 | 373.2 | 283.2 | 235.7 | 220.5 | 217.5 | 215.5 | 213.4 | 214.4 |
| 15°   | 775.8  | 678.7  | 481.5 | 321.7 | 235.7 | 209.4 | 204.3 | 203.3 | 202.3 | 202.3 | 202.3 |
| 17.5° | 824.4  | 696.9  | 451.1 | 273.1 | 205.3 | 193.2 | 190.2 | 190.2 | 190.2 | 191.2 | 191.2 |
| 20°   | 869.9  | 711.1  | 415.7 | 229.6 | 188.1 | 178.0 | 176.0 | 176.0 | 177.0 | 178.0 | 178.0 |
| 22.5° | 914.4  | 717.2  | 374.3 | 199.3 | 174.0 | 164.9 | 161.8 | 161.8 | 161.8 | 162.9 | 162.9 |
| 25°   | 952.8  | 717.2  | 332.8 | 180.0 | 161.8 | 152.7 | 148.7 | 147.7 | 148.7 | 148.7 | 148.7 |
| 27.5° | 985.2  | 714.1  | 292.3 | 166.9 | 149.7 | 140.6 | 136.6 | 135.5 | 137.6 | 138.6 | 138.6 |
| 30°   | 1019.6 | 710.1  | 260.0 | 154.8 | 139.6 | 130.5 | 126.4 | 126.4 | 129.5 | 133.5 | 133.5 |
| 32.5° | 1053.0 | 713.1  | 234.7 | 144.6 | 129.5 | 122.4 | 118.3 | 119.4 | 125.4 | 131.5 | 131.5 |
| 35°   | 1088.4 | 719.2  | 219.5 | 137.6 | 122.4 | 115.3 | 112.3 | 115.3 | 121.4 | 127.5 | 127.5 |
| 37.5° | 1123.8 | 726.3  | 210.4 | 131.5 | 116.3 | 109.2 | 107.2 | 111.3 | 118.3 | 124.4 | 125.4 |
| 40°   | 1161.2 | 732.3  | 200.3 | 125.4 | 112.3 | 104.2 | 103.2 | 107.2 | 116.3 | 122.4 | 123.4 |
| 42.5° | 1207.7 | 744.5  | 188.1 | 120.4 | 108.2 | 98.1  | 99.1  | 102.2 | 111.3 | 120.4 | 121.4 |
| 45°   | 1298.8 | 782.9  | 176.0 | 115.3 | 103.2 | 95.1  | 93.1  | 95.1  | 105.2 | 115.3 | 117.3 |
| 47.5° | 1469.7 | 869.9  | 162.9 | 110.3 | 98.1  | 93.1  | 85.0  | 87.0  | 96.1  | 107.2 | 108.2 |
| 50°   | 1797.5 | 1055.0 | 155.8 | 105.2 | 94.1  | 86.0  | 76.9  | 76.9  | 84.0  | 94.1  | 94.1  |
| 52.5° | 2308.3 | 1386.8 | 159.8 | 101.2 | 89.0  | 78.9  | 69.8  | 68.8  | 72.8  | 79.9  | 79.9  |
| 55°   | 2859.5 | 1750.9 | 175.0 | 97.1  | 82.9  | 74.9  | 64.7  | 59.7  | 62.7  | 66.8  | 66.8  |
| 57.5° | 3296.5 | 1934.0 | 216.5 | 95.1  | 75.9  | 71.8  | 58.7  | 51.6  | 54.6  | 58.7  | 58.7  |
| 60°   | 3488.7 | 1826.8 | 263.0 | 97.1  | 70.8  | 66.8  | 52.6  | 45.5  | 50.6  | 54.6  | 55.6  |
| 62.5° | 3332.9 | 1504.1 | 282.2 | 92.0  | 63.7  | 59.7  | 51.6  | 42.5  | 48.6  | 51.6  | 52.6  |
| 65°   | 2996.1 | 1143.0 | 220.5 | 79.9  | 58.7  | 51.6  | 46.5  | 40.5  | 45.5  | 48.6  | 48.6  |
| 66°   | 2836.3 | 996.3  | 188.1 | 73.8  | 56.6  | 48.6  | 44.5  | 40.5  | 44.5  | 46.5  | 47.5  |
| 67.5° | 2588.5 | 785.9  | 139.6 | 64.7  | 52.6  | 44.5  | 41.5  | 38.4  | 42.5  | 44.5  | 44.5  |
| 70°   | 2024.0 | 468.3  | 84.0  | 50.6  | 45.5  | 39.4  | 37.4  | 35.4  | 38.4  | 39.4  | 39.4  |
| 72.5° | 1267.4 | 222.5  | 53.6  | 37.4  | 38.4  | 37.4  | 31.4  | 33.4  | 34.4  | 35.4  | 35.4  |
| 75°   | 614.0  | 88.0   | 36.4  | 27.3  | 31.4  | 35.4  | 25.3  | 29.3  | 30.3  | 32.4  | 31.4  |
| 77.5° | 170.9  | 42.5   | 23.3  | 20.2  | 27.3  | 27.3  | 19.2  | 23.3  | 27.3  | 34.4  | 31.4  |
| 80°   | 49.6   | 27.3   | 15.2  | 15.2  | 19.2  | 19.2  | 13.1  | 16.2  | 18.2  | 20.2  | 21.2  |
| 82.5° | 34.4   | 18.2   | 10.1  | 11.1  | 11.1  | 12.1  | 8.1   | 8.1   | 10.1  | 10.1  | 11.1  |
| 85°   | 27.3   | 8.1    | 6.1   | 7.1   | 5.1   | 6.1   | 4.0   | 4.0   | 5.1   | 4.0   | 4.0   |
| 87.5° | 11.1   | 4.0    | 4.0   | 4.0   | 3.0   | 3.0   | 2.0   | 1.0   | 1.0   | 1.0   | 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)