

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: P799122

Luminaire Tested: **ARCH1-60-730-U-T2R-HSS**

Issue Date: 4/4/2024

### Test Information

Test Method: LM-79-08  
Report Number: P799122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-60-730-U-T2R-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

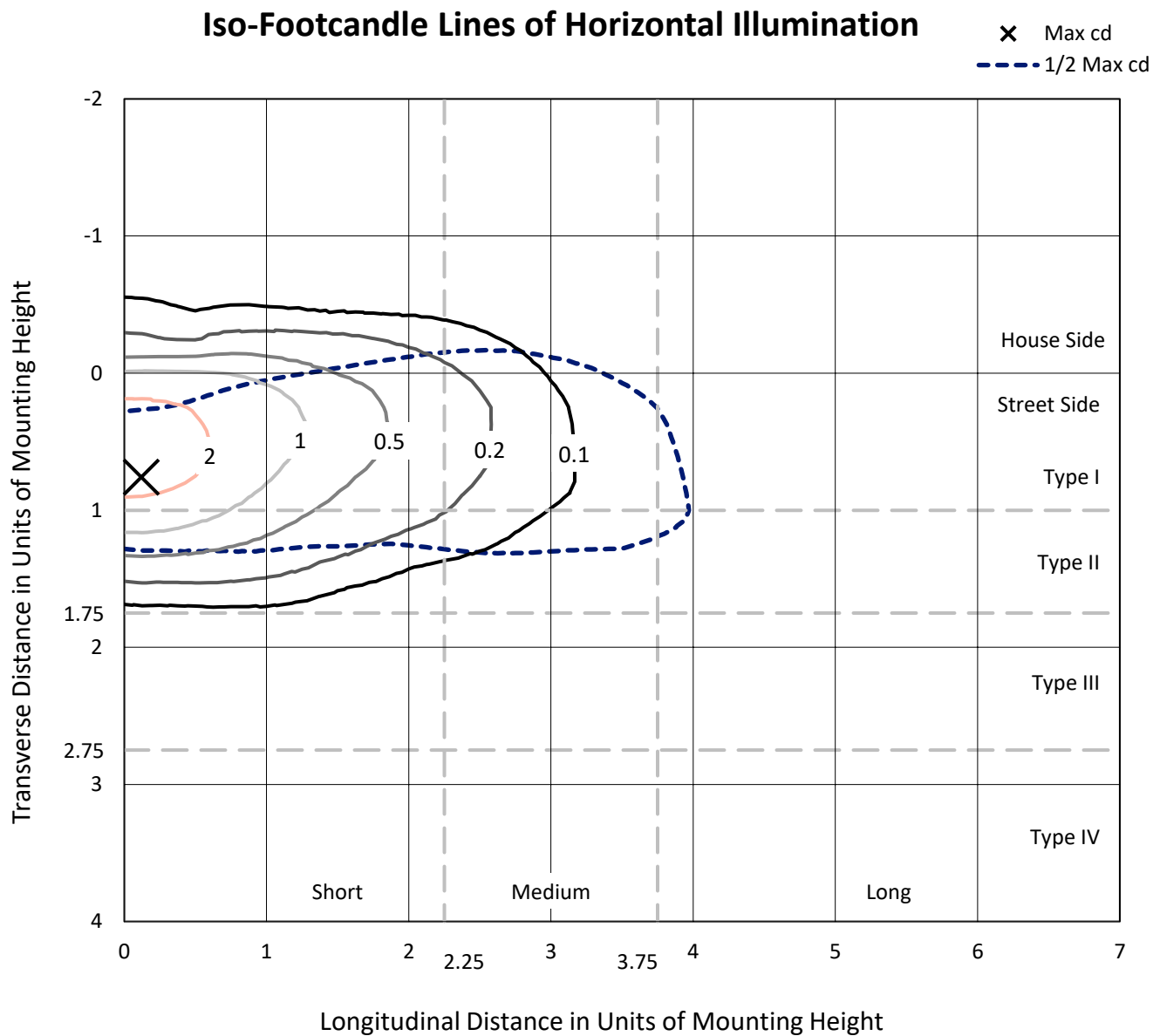
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5029 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 60  
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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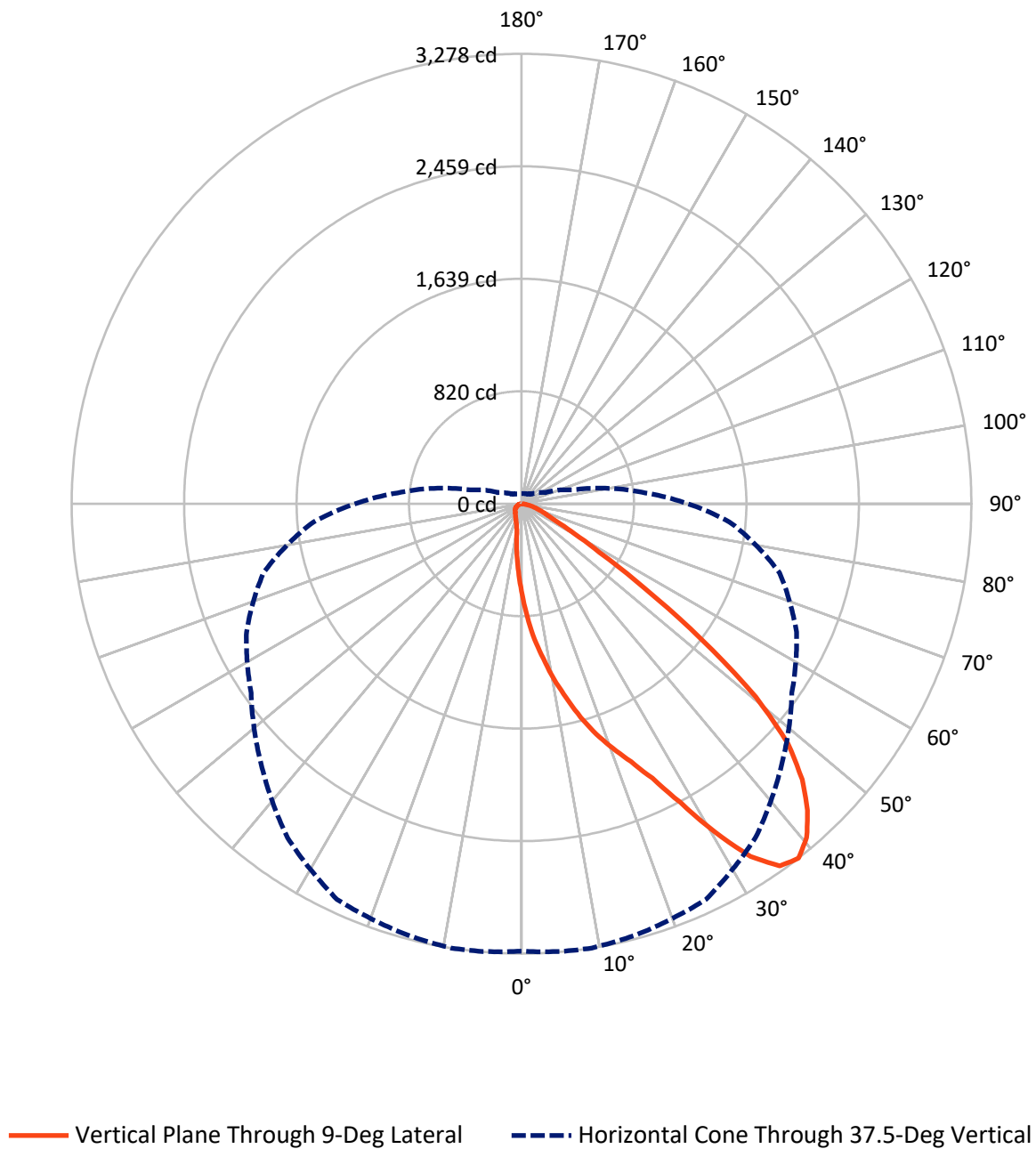


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 611.6    | 0.0    | 611.6  |
|                    | % Fixture | 12.2     | 0.0    | 12.2   |
| <b>Street Side</b> | Lumens    | 4417.4   | 0.0    | 4417.4 |
|                    | % Fixture | 87.8     | 0.0    | 87.8   |
| <b>Total</b>       | Lumens    | 5029.0   | 0.0    | 5029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.8   | 1.3       |
| 10°-20°   | 232.2  | 4.6       |
| 20°-30°   | 477.2  | 9.5       |
| 30°-40°   | 843.5  | 16.8      |
| 40°-50°   | 1120.5 | 22.3      |
| 50°-60°   | 1062.7 | 21.1      |
| 60°-70°   | 810.8  | 16.1      |
| 70°-80°   | 393.1  | 7.8       |
| 80°-90°   | 22.1   | 0.4       |
| 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°    | 5029.0 | 100.0     |
| 0°-180°   | 5029.0 | 100.0     |

**Coefficient of Utilization**



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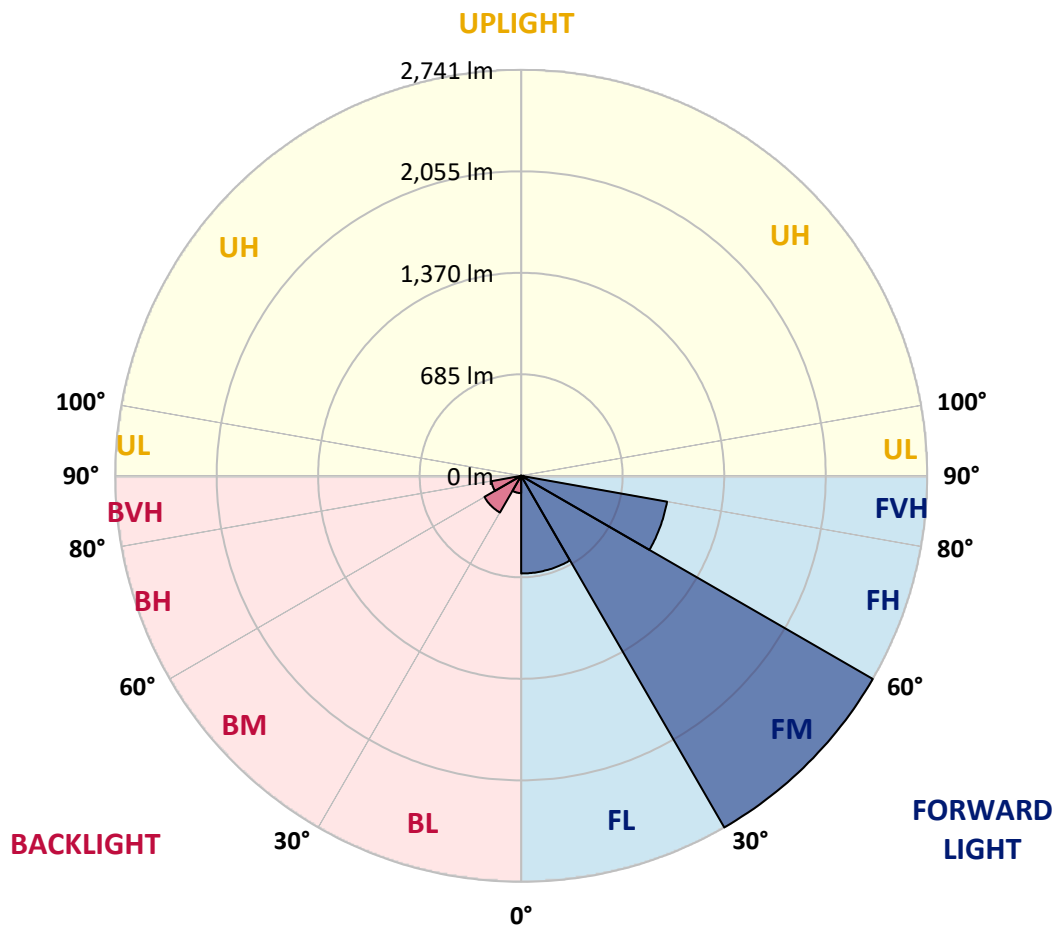
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 659.6  | 13.1      |                         |      |         |
| FM   | (30°-60°)   | 2740.6 | 54.5      |                         |      |         |
| FH   | (60°-80°)   | 999.8  | 19.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 17.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 116.7  | 2.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 286.2  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 204.1  | 4.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 4.6    | 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°     | 9°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 664.8  | 664.8  | 664.8  | 664.8  | 664.8  | 664.8  | 664.8  | 664.8  | 664.8  | 664.8  | 664.8  |
| 2.5°  | 823.7  | 809.3  | 825.8  | 823.7  | 809.3  | 800.0  | 771.1  | 761.8  | 727.7  | 703.0  | 681.3  |
| 5°    | 993.0  | 978.6  | 993.0  | 988.9  | 968.3  | 945.5  | 898.1  | 867.1  | 806.2  | 752.5  | 704.0  |
| 7.5°  | 1133.4 | 1133.4 | 1139.6 | 1140.6 | 1115.9 | 1080.8 | 1021.9 | 975.5  | 889.8  | 807.2  | 729.8  |
| 10°   | 1285.2 | 1286.2 | 1299.6 | 1290.3 | 1257.3 | 1209.8 | 1135.5 | 1076.6 | 973.4  | 865.0  | 754.6  |
| 12.5° | 1447.2 | 1448.3 | 1452.4 | 1448.3 | 1409.0 | 1348.1 | 1258.3 | 1180.9 | 1062.2 | 931.1  | 788.6  |
| 15°   | 1609.3 | 1610.3 | 1615.5 | 1608.3 | 1564.9 | 1493.7 | 1391.5 | 1296.5 | 1156.1 | 1005.4 | 829.9  |
| 17.5° | 1761.0 | 1763.1 | 1767.2 | 1757.9 | 1712.5 | 1627.9 | 1523.6 | 1409.0 | 1256.3 | 1084.9 | 876.4  |
| 20°   | 1897.3 | 1899.4 | 1902.4 | 1890.1 | 1844.6 | 1760.0 | 1647.5 | 1527.7 | 1358.4 | 1166.4 | 927.0  |
| 22.5° | 2034.6 | 2036.6 | 2041.8 | 2025.3 | 1974.7 | 1877.7 | 1767.2 | 1643.4 | 1466.8 | 1256.3 | 985.8  |
| 25°   | 2210.1 | 2212.1 | 2216.3 | 2192.5 | 2123.4 | 2009.8 | 1893.2 | 1766.2 | 1584.5 | 1357.4 | 1058.1 |
| 27.5° | 2467.1 | 2465.0 | 2465.0 | 2421.7 | 2303.0 | 2155.4 | 2020.1 | 1891.1 | 1711.5 | 1465.8 | 1137.5 |
| 30°   | 2785.0 | 2779.9 | 2776.8 | 2717.9 | 2548.6 | 2319.5 | 2150.2 | 2007.7 | 1833.3 | 1580.4 | 1223.2 |
| 32.5° | 3069.9 | 3069.9 | 3063.7 | 3001.8 | 2822.2 | 2540.4 | 2288.5 | 2121.3 | 1951.0 | 1696.0 | 1312.0 |
| 35°   | 3238.2 | 3245.4 | 3242.3 | 3195.9 | 3064.8 | 2777.8 | 2475.4 | 2257.5 | 2074.8 | 1816.8 | 1418.3 |
| 37.5° | 3260.9 | 3275.3 | 3278.4 | 3250.6 | 3181.4 | 2971.9 | 2682.8 | 2405.2 | 2211.1 | 1946.8 | 1521.5 |
| 40°   | 3169.0 | 3200.0 | 3200.0 | 3195.9 | 3171.1 | 3063.7 | 2857.3 | 2576.5 | 2351.5 | 2082.1 | 1625.8 |
| 42.5° | 3027.6 | 3059.6 | 3055.5 | 3071.0 | 3064.8 | 3042.1 | 2955.3 | 2736.5 | 2491.9 | 2221.4 | 1720.8 |
| 45°   | 2842.8 | 2875.9 | 2867.6 | 2895.5 | 2907.9 | 2932.6 | 2945.0 | 2848.0 | 2630.2 | 2373.2 | 1827.1 |
| 47.5° | 2546.6 | 2602.3 | 2614.7 | 2664.3 | 2715.9 | 2793.3 | 2852.1 | 2888.3 | 2759.2 | 2536.3 | 1942.7 |
| 50°   | 2108.9 | 2187.4 | 2212.1 | 2316.4 | 2457.8 | 2617.8 | 2712.8 | 2838.7 | 2850.1 | 2703.5 | 2067.6 |
| 52.5° | 1510.2 | 1601.0 | 1639.2 | 1810.6 | 2101.7 | 2380.4 | 2551.7 | 2729.3 | 2885.2 | 2863.5 | 2202.8 |
| 55°   | 976.5  | 1053.9 | 1091.1 | 1252.1 | 1639.2 | 2076.9 | 2361.8 | 2587.9 | 2865.5 | 3010.1 | 2357.7 |
| 57.5° | 601.8  | 646.2  | 671.0  | 809.3  | 1165.4 | 1687.7 | 2113.0 | 2457.8 | 2805.7 | 3137.0 | 2518.7 |
| 60°   | 405.7  | 431.5  | 443.9  | 508.9  | 791.7  | 1261.4 | 1771.4 | 2321.5 | 2727.2 | 3222.7 | 2665.3 |
| 62.5° | 269.4  | 277.7  | 290.1  | 330.3  | 522.3  | 885.7  | 1360.5 | 2077.9 | 2668.4 | 3227.9 | 2773.7 |
| 65°   | 208.5  | 212.6  | 217.8  | 235.4  | 322.1  | 619.4  | 956.9  | 1683.6 | 2580.6 | 3118.4 | 2807.7 |
| 67.5° | 164.1  | 168.3  | 174.5  | 183.7  | 233.3  | 420.1  | 651.4  | 1233.5 | 2401.0 | 2947.1 | 2752.0 |
| 70°   | 129.0  | 132.1  | 136.3  | 144.5  | 181.7  | 304.5  | 430.5  | 819.6  | 2038.7 | 2784.0 | 2576.5 |
| 72.5° | 102.2  | 105.3  | 109.4  | 117.7  | 147.6  | 223.0  | 295.2  | 511.0  | 1572.1 | 2584.8 | 2239.0 |
| 75°   | 80.5   | 82.6   | 85.7   | 93.9   | 118.7  | 173.4  | 200.3  | 305.5  | 1068.4 | 2220.4 | 1744.5 |
| 77.5° | 40.3   | 49.5   | 56.8   | 65.0   | 86.7   | 119.7  | 133.2  | 169.3  | 451.1  | 1139.6 | 832.0  |
| 80°   | 23.7   | 28.9   | 31.0   | 36.1   | 56.8   | 72.3   | 72.3   | 68.1   | 142.5  | 437.7  | 339.6  |
| 82.5° | 13.4   | 18.6   | 19.6   | 20.6   | 34.1   | 41.3   | 33.0   | 24.8   | 28.9   | 146.6  | 99.1   |
| 85°   | 4.1    | 6.2    | 7.2    | 8.3    | 11.4   | 12.4   | 11.4   | 10.3   | 8.3    | 14.5   | 9.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 2.1    | 2.1    | 2.1    | 3.1    | 3.1    | 3.1    |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 664.8  | 664.8  | 664.8 | 664.8 | 664.8 | 664.8 | 664.8 | 664.8 | 664.8 | 664.8 | 664.8 |
| 2.5°  | 668.9  | 655.5  | 629.7 | 605.9 | 583.2 | 566.7 | 551.2 | 536.8 | 526.5 | 518.2 | 517.2 |
| 5°    | 678.2  | 651.4  | 601.8 | 555.4 | 513.0 | 477.9 | 448.0 | 424.3 | 406.7 | 394.3 | 393.3 |
| 7.5°  | 690.6  | 649.3  | 573.9 | 504.8 | 441.8 | 391.2 | 347.9 | 315.9 | 293.2 | 283.9 | 276.6 |
| 10°   | 700.9  | 647.2  | 546.1 | 454.2 | 371.6 | 307.6 | 256.0 | 224.0 | 207.5 | 201.3 | 198.2 |
| 12.5° | 718.5  | 649.3  | 522.3 | 407.7 | 310.7 | 235.4 | 196.1 | 178.6 | 171.4 | 166.2 | 165.2 |
| 15°   | 744.3  | 658.6  | 499.6 | 362.3 | 248.8 | 189.9 | 167.2 | 155.9 | 148.6 | 147.6 | 146.6 |
| 17.5° | 770.1  | 666.8  | 479.0 | 315.9 | 206.5 | 165.2 | 149.7 | 140.4 | 135.2 | 134.2 | 134.2 |
| 20°   | 800.0  | 677.2  | 456.3 | 271.5 | 176.5 | 148.6 | 136.3 | 129.0 | 122.8 | 121.8 | 121.8 |
| 22.5° | 835.1  | 691.6  | 434.6 | 232.3 | 156.9 | 136.3 | 125.9 | 117.7 | 112.5 | 111.5 | 111.5 |
| 25°   | 882.6  | 713.3  | 417.0 | 203.4 | 143.5 | 125.9 | 116.6 | 109.4 | 105.3 | 103.2 | 103.2 |
| 27.5° | 935.2  | 743.2  | 404.6 | 185.8 | 134.2 | 117.7 | 108.4 | 102.2 | 98.1  | 96.0  | 96.0  |
| 30°   | 994.1  | 776.3  | 396.4 | 178.6 | 129.0 | 110.5 | 102.2 | 96.0  | 90.8  | 89.8  | 89.8  |
| 32.5° | 1059.1 | 814.5  | 391.2 | 179.6 | 128.0 | 105.3 | 96.0  | 89.8  | 85.7  | 83.6  | 83.6  |
| 35°   | 1131.4 | 856.8  | 388.1 | 185.8 | 130.1 | 101.2 | 90.8  | 84.6  | 80.5  | 78.5  | 78.5  |
| 37.5° | 1211.9 | 906.3  | 388.1 | 192.0 | 135.2 | 100.1 | 85.7  | 79.5  | 76.4  | 74.3  | 74.3  |
| 40°   | 1287.2 | 959.0  | 392.3 | 199.2 | 140.4 | 100.1 | 81.5  | 76.4  | 72.3  | 70.2  | 70.2  |
| 42.5° | 1346.1 | 988.9  | 395.4 | 206.5 | 143.5 | 99.1  | 77.4  | 72.3  | 69.2  | 67.1  | 67.1  |
| 45°   | 1413.2 | 1020.9 | 389.2 | 209.5 | 143.5 | 97.0  | 74.3  | 69.2  | 66.1  | 64.0  | 64.0  |
| 47.5° | 1487.5 | 1060.1 | 388.1 | 211.6 | 140.4 | 92.9  | 71.2  | 66.1  | 64.0  | 61.9  | 61.9  |
| 50°   | 1562.8 | 1103.5 | 390.2 | 210.6 | 136.3 | 86.7  | 67.1  | 64.0  | 60.9  | 58.8  | 58.8  |
| 52.5° | 1648.5 | 1148.9 | 394.3 | 208.5 | 127.0 | 79.5  | 64.0  | 60.9  | 57.8  | 55.7  | 54.7  |
| 55°   | 1743.5 | 1198.4 | 402.6 | 204.4 | 114.6 | 72.3  | 60.9  | 57.8  | 53.7  | 51.6  | 50.6  |
| 57.5° | 1852.9 | 1259.4 | 411.9 | 196.1 | 101.2 | 66.1  | 57.8  | 53.7  | 47.5  | 44.4  | 43.4  |
| 60°   | 1957.2 | 1328.5 | 422.2 | 176.5 | 87.7  | 59.9  | 54.7  | 48.5  | 42.3  | 40.3  | 39.2  |
| 62.5° | 2055.2 | 1396.6 | 427.4 | 141.4 | 74.3  | 54.7  | 51.6  | 44.4  | 38.2  | 36.1  | 35.1  |
| 65°   | 2118.2 | 1471.0 | 416.0 | 96.0  | 60.9  | 50.6  | 47.5  | 41.3  | 35.1  | 32.0  | 32.0  |
| 67.5° | 2122.3 | 1506.1 | 376.8 | 63.0  | 49.5  | 45.4  | 43.4  | 37.2  | 31.0  | 28.9  | 27.9  |
| 70°   | 2018.1 | 1453.4 | 288.0 | 49.5  | 41.3  | 39.2  | 39.2  | 33.0  | 26.8  | 24.8  | 23.7  |
| 72.5° | 1778.6 | 1287.2 | 183.7 | 40.3  | 35.1  | 33.0  | 33.0  | 27.9  | 23.7  | 20.6  | 19.6  |
| 75°   | 1403.9 | 993.0  | 98.1  | 33.0  | 28.9  | 27.9  | 25.8  | 22.7  | 19.6  | 17.5  | 16.5  |
| 77.5° | 645.2  | 437.7  | 45.4  | 23.7  | 21.7  | 21.7  | 19.6  | 16.5  | 15.5  | 13.4  | 13.4  |
| 80°   | 255.0  | 148.6  | 22.7  | 15.5  | 14.5  | 14.5  | 14.5  | 11.4  | 11.4  | 9.3   | 8.3   |
| 82.5° | 70.2   | 31.0   | 11.4  | 9.3   | 9.3   | 9.3   | 8.3   | 7.2   | 7.2   | 6.2   | 6.2   |
| 85°   | 7.2    | 5.2    | 5.2   | 5.2   | 5.2   | 4.1   | 4.1   | 3.1   | 2.1   | 2.1   | 2.1   |
| 87.5° | 3.1    | 3.1    | 3.1   | 3.1   | 3.1   | 2.1   | 1.0   | 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   | 0.0   |

(END OF REPORT)