

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: P799545

Luminaire Tested: **ARCH2-30-740-U-T4W**

Issue Date: 4/4/2024

### Test Information

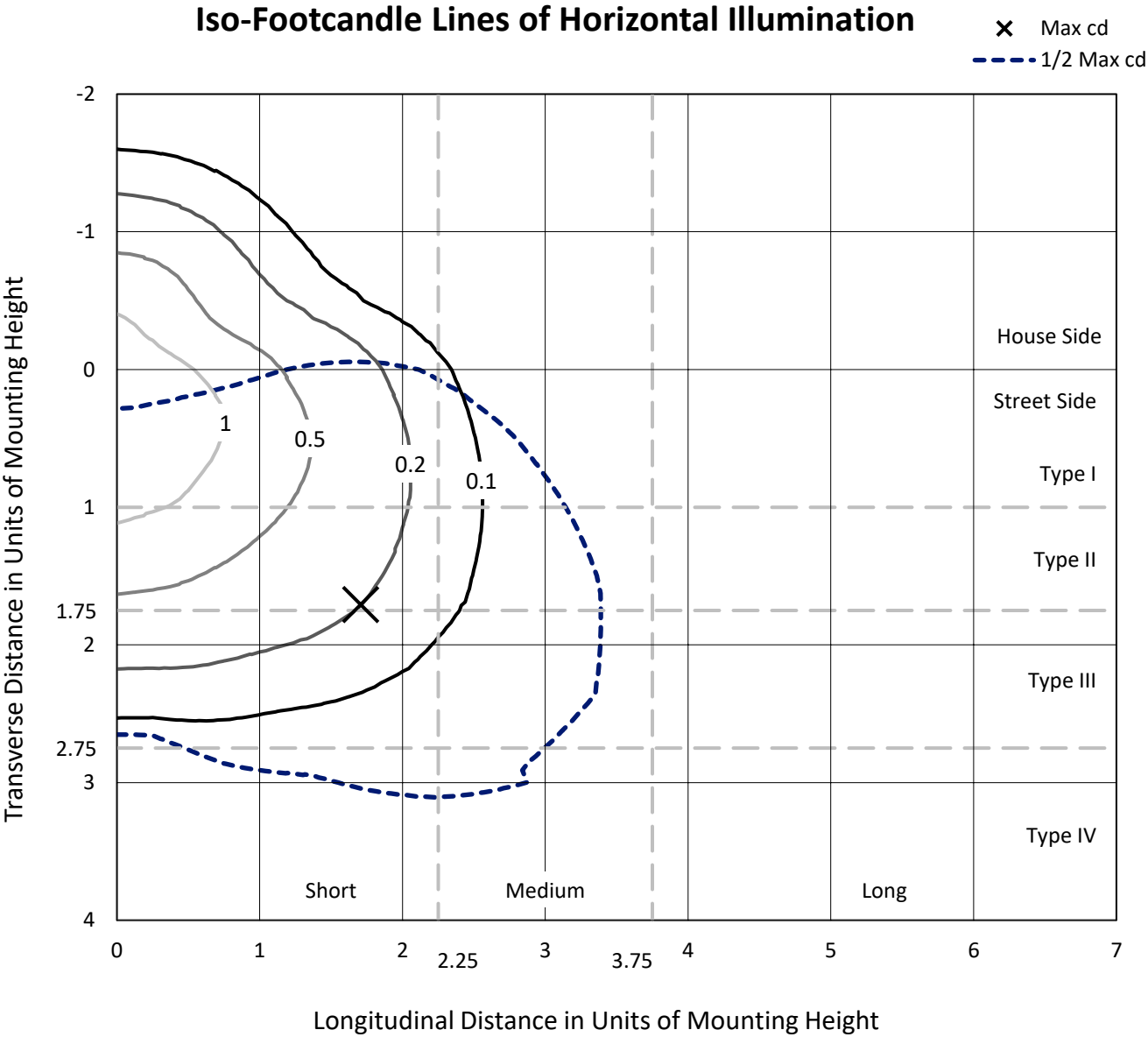
Test Method: LM-79-08  
Report Number: P799545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-740-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5168 lumens  
Efficiency: N/A  
Efficacy: 150.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.4  
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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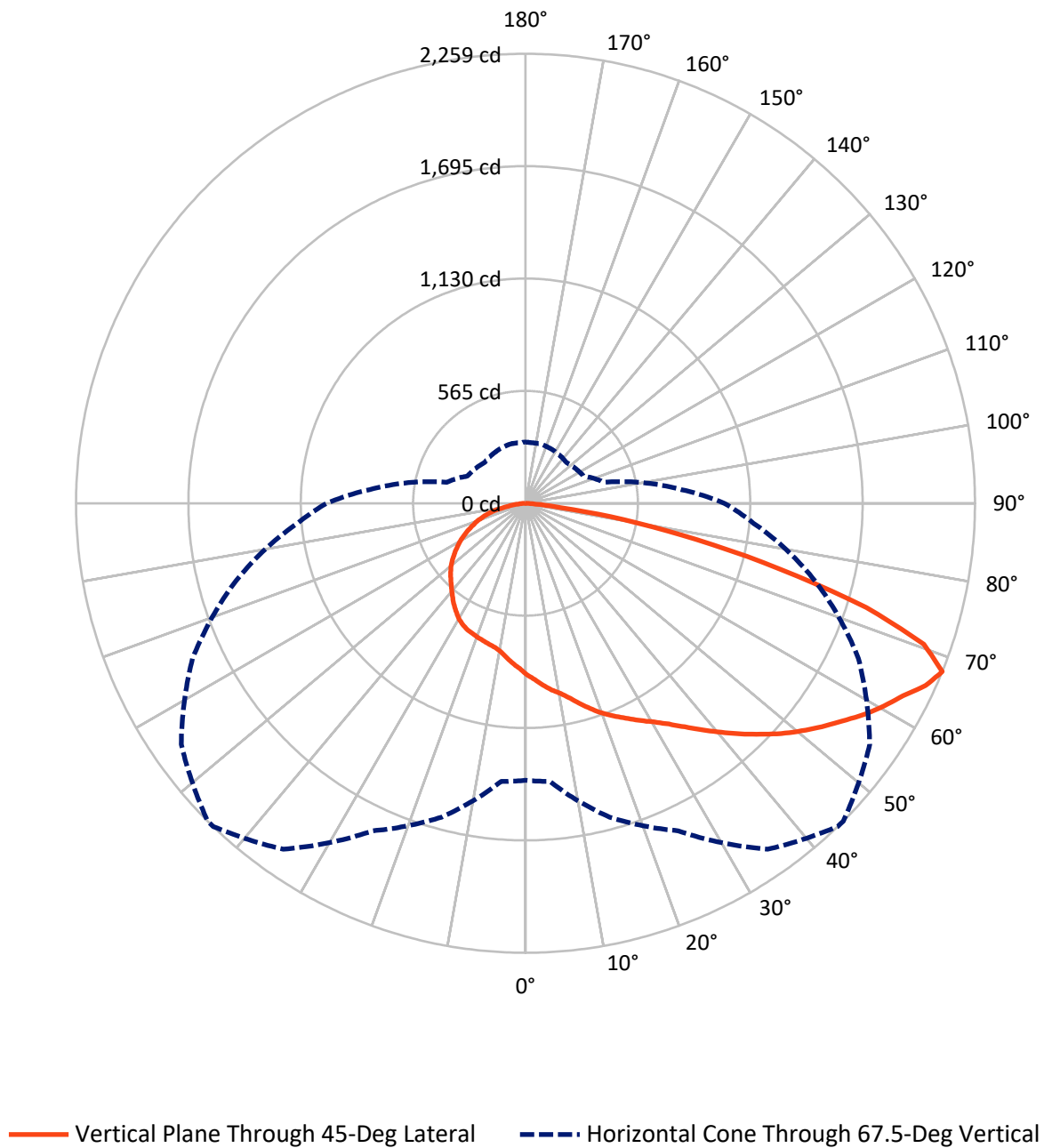


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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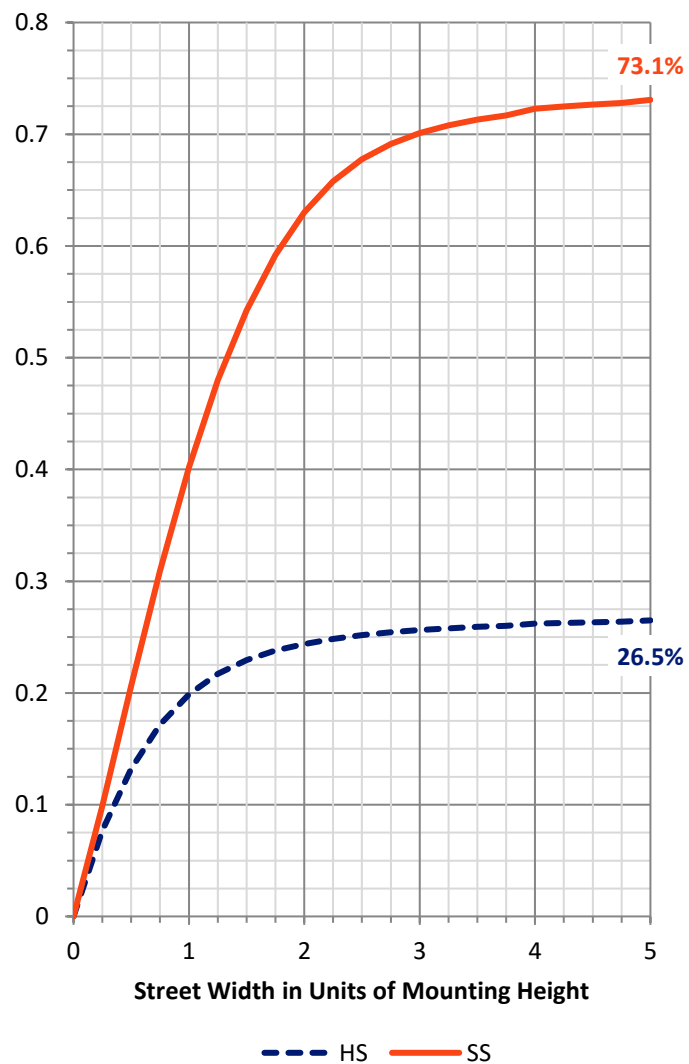
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1380.6   | 0.0    | 1380.6 |
|                    | % Fixture | 26.7     | 0.0    | 26.7   |
| <b>Street Side</b> | Lumens    | 3787.4   | 0.0    | 3787.4 |
|                    | % Fixture | 73.3     | 0.0    | 73.3   |
| <b>Total</b>       | Lumens    | 5168.0   | 0.0    | 5168.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.5   | 1.6       |
| 10°-20°   | 254.9  | 4.9       |
| 20°-30°   | 440.0  | 8.5       |
| 30°-40°   | 648.9  | 12.6      |
| 40°-50°   | 879.1  | 17.0      |
| 50°-60°   | 1074.5 | 20.8      |
| 60°-70°   | 1108.2 | 21.4      |
| 70°-80°   | 607.0  | 11.7      |
| 80°-90°   | 72.8   | 1.4       |
| 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°    | 5168.0 | 100.0     |
| 0°-180°   | 5168.0 | 100.0     |

**Coefficient of Utilization**



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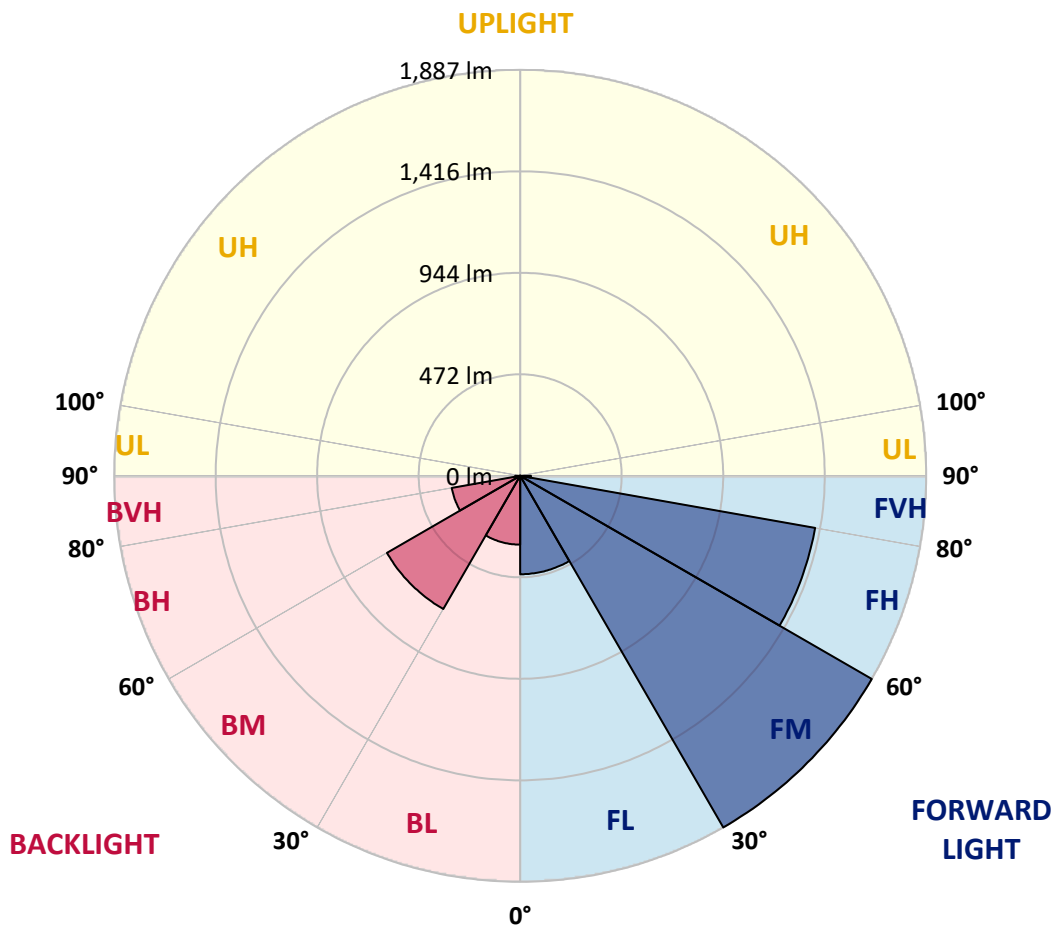
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 457.5  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 1887.4 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 1392.3 | 26.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 50.1   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 320.0  | 6.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 715.2  | 13.8      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 322.9  | 6.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 22.6   | 0.4       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 861.9  | 861.9  | 861.9  | 861.9  | 861.9  | 861.9  | 861.9  | 861.9  | 861.9  | 861.9  | 861.9  |
| 2.5°  | 899.7  | 898.9  | 900.5  | 895.0  | 887.9  | 887.1  | 887.1  | 882.4  | 876.9  | 865.9  | 857.2  |
| 5°    | 942.1  | 940.6  | 941.4  | 933.5  | 924.1  | 919.3  | 918.5  | 908.3  | 895.7  | 878.4  | 862.7  |
| 7.5°  | 981.5  | 979.9  | 979.1  | 970.5  | 956.3  | 948.4  | 947.6  | 932.7  | 917.8  | 891.0  | 868.2  |
| 10°   | 1018.4 | 1016.9 | 1015.3 | 1003.5 | 986.2  | 974.4  | 972.8  | 953.9  | 935.1  | 902.0  | 872.9  |
| 12.5° | 1065.6 | 1062.5 | 1060.9 | 1046.7 | 1021.6 | 1009.0 | 1006.6 | 981.5  | 957.9  | 917.8  | 882.4  |
| 15°   | 1115.2 | 1112.8 | 1110.4 | 1097.1 | 1068.8 | 1052.2 | 1048.3 | 1016.9 | 984.6  | 938.2  | 896.5  |
| 17.5° | 1152.1 | 1149.8 | 1149.8 | 1138.0 | 1112.0 | 1093.1 | 1090.0 | 1052.2 | 1012.1 | 957.1  | 907.5  |
| 20°   | 1174.9 | 1172.6 | 1174.9 | 1167.8 | 1148.2 | 1132.5 | 1129.3 | 1087.6 | 1039.7 | 974.4  | 917.0  |
| 22.5° | 1191.4 | 1189.1 | 1193.0 | 1189.9 | 1175.7 | 1166.3 | 1163.9 | 1123.0 | 1068.0 | 992.5  | 926.4  |
| 25°   | 1220.5 | 1220.5 | 1220.5 | 1215.0 | 1201.7 | 1198.5 | 1198.5 | 1163.1 | 1104.1 | 1016.1 | 940.6  |
| 27.5° | 1278.7 | 1275.6 | 1271.7 | 1255.9 | 1233.1 | 1232.3 | 1237.1 | 1204.0 | 1145.8 | 1046.7 | 957.9  |
| 30°   | 1364.5 | 1362.9 | 1347.9 | 1314.9 | 1276.4 | 1272.4 | 1275.6 | 1248.1 | 1190.7 | 1079.0 | 977.5  |
| 32.5° | 1475.3 | 1469.8 | 1439.2 | 1389.6 | 1334.6 | 1316.5 | 1322.8 | 1293.7 | 1237.8 | 1112.0 | 996.4  |
| 35°   | 1554.0 | 1555.6 | 1533.5 | 1488.7 | 1423.4 | 1375.5 | 1380.2 | 1344.8 | 1289.0 | 1149.0 | 1020.0 |
| 37.5° | 1644.4 | 1649.9 | 1616.9 | 1583.1 | 1522.5 | 1440.7 | 1445.5 | 1397.5 | 1340.1 | 1195.4 | 1045.2 |
| 40°   | 1769.5 | 1758.5 | 1702.6 | 1662.5 | 1595.7 | 1509.2 | 1513.1 | 1456.5 | 1399.1 | 1239.4 | 1074.3 |
| 42.5° | 1874.1 | 1854.4 | 1786.8 | 1735.6 | 1655.4 | 1581.5 | 1585.4 | 1520.2 | 1458.8 | 1288.2 | 1106.5 |
| 45°   | 2024.3 | 1970.0 | 1872.5 | 1847.3 | 1716.8 | 1652.3 | 1656.2 | 1587.8 | 1521.7 | 1340.1 | 1141.1 |
| 47.5° | 2111.6 | 2025.1 | 1962.9 | 1949.6 | 1784.4 | 1725.4 | 1730.1 | 1659.4 | 1589.4 | 1399.1 | 1177.3 |
| 50°   | 2106.1 | 2050.2 | 2032.1 | 1999.1 | 1844.2 | 1793.8 | 1798.6 | 1733.3 | 1657.8 | 1457.2 | 1211.9 |
| 52.5° | 2069.9 | 2080.1 | 2070.7 | 2015.6 | 1903.9 | 1859.9 | 1865.4 | 1806.4 | 1727.8 | 1511.5 | 1244.1 |
| 55°   | 2125.7 | 2132.8 | 2114.7 | 2042.4 | 1970.0 | 1926.0 | 1932.3 | 1883.5 | 1797.0 | 1559.5 | 1271.7 |
| 57.5° | 2192.6 | 2167.4 | 2149.3 | 2089.5 | 2038.4 | 1997.5 | 2004.6 | 1962.1 | 1856.8 | 1598.0 | 1292.9 |
| 60°   | 2189.4 | 2136.7 | 2154.8 | 2092.7 | 2084.8 | 2063.6 | 2069.9 | 2026.6 | 1902.4 | 1626.3 | 1301.5 |
| 62.5° | 2028.2 | 1999.9 | 2091.1 | 2069.9 | 2122.6 | 2122.6 | 2130.4 | 2065.9 | 1929.9 | 1638.1 | 1296.8 |
| 65°   | 1748.2 | 1749.8 | 1910.2 | 1998.3 | 2167.4 | 2203.6 | 2209.9 | 2090.3 | 1914.2 | 1603.5 | 1252.8 |
| 67.5° | 1392.8 | 1403.0 | 1633.4 | 1816.6 | 2122.6 | 2258.6 | 2259.4 | 2112.3 | 1846.5 | 1506.0 | 1150.5 |
| 70°   | 1019.2 | 1027.1 | 1299.2 | 1521.7 | 1911.0 | 2136.7 | 2124.1 | 2050.2 | 1699.5 | 1336.1 | 990.9  |
| 72.5° | 688.9  | 696.0  | 976.0  | 1168.6 | 1568.1 | 1819.8 | 1792.3 | 1811.9 | 1448.6 | 1097.9 | 796.7  |
| 75°   | 463.2  | 471.9  | 694.4  | 836.0  | 1153.7 | 1381.8 | 1320.4 | 1372.3 | 1120.7 | 831.3  | 581.2  |
| 77.5° | 291.8  | 297.3  | 441.2  | 548.1  | 788.0  | 940.6  | 879.2  | 880.0  | 645.7  | 447.5  | 312.2  |
| 80°   | 185.6  | 187.2  | 267.4  | 316.1  | 456.1  | 565.4  | 500.2  | 406.6  | 291.0  | 237.5  | 186.4  |
| 82.5° | 107.7  | 105.4  | 159.6  | 178.5  | 217.1  | 214.7  | 177.7  | 168.3  | 127.4  | 118.8  | 95.2   |
| 85°   | 43.3   | 40.1   | 70.0   | 65.3   | 66.1   | 70.0   | 51.9   | 51.9   | 41.7   | 32.2   | 23.6   |
| 87.5° | 8.7    | 8.7    | 9.4    | 8.7    | 8.7    | 9.4    | 7.1    | 7.1    | 6.3    | 6.3    | 6.3    |
| 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°    | 861.9  | 861.9  | 861.9 | 861.9 | 861.9 | 861.9 | 861.9 | 861.9 | 861.9 | 861.9 | 861.9 |
| 2.5°  | 855.6  | 854.1  | 850.1 | 839.9 | 834.4 | 831.3 | 826.5 | 825.0 | 824.2 | 825.0 | 827.3 |
| 5°    | 858.0  | 852.5  | 841.5 | 825.0 | 814.0 | 806.9 | 799.0 | 795.9 | 793.5 | 793.5 | 795.9 |
| 7.5°  | 859.6  | 850.9  | 832.0 | 807.7 | 791.9 | 780.9 | 771.5 | 767.6 | 766.8 | 769.1 | 769.9 |
| 10°   | 860.4  | 847.8  | 821.0 | 790.4 | 769.9 | 755.8 | 746.3 | 744.0 | 746.3 | 751.0 | 751.8 |
| 12.5° | 865.9  | 848.6  | 814.7 | 778.6 | 754.2 | 740.0 | 733.0 | 733.0 | 739.2 | 747.9 | 748.7 |
| 15°   | 875.3  | 854.1  | 811.6 | 769.1 | 744.0 | 731.4 | 729.0 | 733.0 | 742.4 | 755.8 | 757.3 |
| 17.5° | 882.4  | 857.2  | 804.5 | 756.5 | 730.6 | 722.7 | 726.7 | 736.1 | 749.5 | 767.6 | 769.1 |
| 20°   | 887.1  | 857.2  | 794.3 | 741.6 | 717.2 | 715.6 | 726.7 | 741.6 | 755.8 | 777.0 | 779.3 |
| 22.5° | 891.8  | 855.6  | 782.5 | 723.5 | 702.3 | 707.0 | 727.4 | 746.3 | 760.5 | 783.3 | 787.2 |
| 25°   | 900.5  | 858.0  | 770.7 | 705.4 | 686.6 | 699.9 | 726.7 | 749.5 | 764.4 | 788.0 | 794.3 |
| 27.5° | 912.3  | 863.5  | 762.0 | 688.9 | 670.8 | 688.9 | 721.2 | 748.7 | 764.4 | 787.2 | 794.3 |
| 30°   | 924.8  | 869.8  | 751.8 | 670.8 | 652.7 | 673.2 | 709.4 | 740.0 | 758.1 | 779.3 | 788.0 |
| 32.5° | 938.2  | 876.9  | 743.2 | 651.2 | 630.7 | 651.9 | 692.1 | 726.7 | 746.3 | 766.0 | 775.4 |
| 35°   | 956.3  | 889.4  | 738.5 | 635.4 | 611.1 | 629.9 | 670.0 | 709.4 | 730.6 | 748.7 | 759.7 |
| 37.5° | 978.3  | 905.2  | 736.1 | 619.7 | 589.8 | 605.5 | 646.4 | 688.1 | 710.9 | 725.9 | 736.1 |
| 40°   | 1003.5 | 924.8  | 735.3 | 604.8 | 568.6 | 580.4 | 622.1 | 663.7 | 685.8 | 697.6 | 706.2 |
| 42.5° | 1031.8 | 946.9  | 733.7 | 589.8 | 547.4 | 556.8 | 598.5 | 639.4 | 658.2 | 668.5 | 676.3 |
| 45°   | 1061.7 | 968.9  | 730.6 | 571.7 | 524.5 | 535.6 | 574.1 | 610.3 | 629.9 | 638.6 | 647.2 |
| 47.5° | 1091.6 | 990.9  | 724.3 | 551.3 | 504.1 | 514.3 | 548.1 | 579.6 | 595.3 | 603.2 | 611.8 |
| 50°   | 1120.7 | 1010.6 | 709.4 | 527.7 | 482.9 | 492.3 | 518.3 | 539.5 | 551.3 | 557.6 | 566.2 |
| 52.5° | 1146.6 | 1023.9 | 688.1 | 500.2 | 461.6 | 466.4 | 483.7 | 501.7 | 511.2 | 512.0 | 519.8 |
| 55°   | 1168.6 | 1031.0 | 657.5 | 471.9 | 438.8 | 439.6 | 449.1 | 463.2 | 467.1 | 464.0 | 469.5 |
| 57.5° | 1181.2 | 1027.1 | 623.6 | 442.8 | 415.2 | 412.1 | 419.2 | 426.2 | 427.0 | 419.2 | 424.7 |
| 60°   | 1184.4 | 1009.0 | 579.6 | 413.7 | 391.6 | 383.0 | 385.3 | 383.8 | 382.2 | 379.1 | 383.8 |
| 62.5° | 1168.6 | 970.5  | 530.8 | 385.3 | 366.5 | 353.1 | 352.3 | 351.5 | 353.9 | 354.7 | 355.5 |
| 65°   | 1111.2 | 898.1  | 472.6 | 356.3 | 339.7 | 321.6 | 320.9 | 330.3 | 333.4 | 328.7 | 330.3 |
| 67.5° | 1000.3 | 787.2  | 408.9 | 322.4 | 305.9 | 290.2 | 296.5 | 302.0 | 307.5 | 305.9 | 307.5 |
| 70°   | 843.1  | 646.4  | 350.7 | 284.7 | 269.0 | 260.3 | 267.4 | 272.1 | 272.9 | 271.3 | 272.9 |
| 72.5° | 663.0  | 504.9  | 296.5 | 246.2 | 232.0 | 228.1 | 236.7 | 240.6 | 247.7 | 250.9 | 251.7 |
| 75°   | 478.9  | 372.8  | 243.0 | 204.5 | 192.7 | 192.7 | 200.5 | 207.6 | 213.9 | 210.0 | 207.6 |
| 77.5° | 267.4  | 222.6  | 174.6 | 140.8 | 143.1 | 154.1 | 157.3 | 165.1 | 171.4 | 170.7 | 169.1 |
| 80°   | 162.0  | 139.2  | 118.0 | 91.2  | 90.4  | 99.1  | 119.5 | 132.9 | 136.1 | 129.0 | 128.2 |
| 82.5° | 84.1   | 73.1   | 62.9  | 51.1  | 56.6  | 66.1  | 69.2  | 83.4  | 92.0  | 88.9  | 92.8  |
| 85°   | 21.2   | 20.4   | 22.8  | 23.6  | 29.1  | 32.2  | 35.4  | 41.7  | 27.5  | 13.4  | 13.4  |
| 87.5° | 6.3    | 6.3    | 7.9   | 7.9   | 10.2  | 12.6  | 11.8  | 11.8  | 6.3   | 0.8   | 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)