

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: P799513

Luminaire Tested: **ARCH2-30-730-U-T4W**

Issue Date: 4/4/2024

### Test Information

Test Method: LM-79-08  
Report Number: P799513  
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: ARCH2-30-730-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4922 lumens  
Efficiency: N/A  
Efficacy: 143.1 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

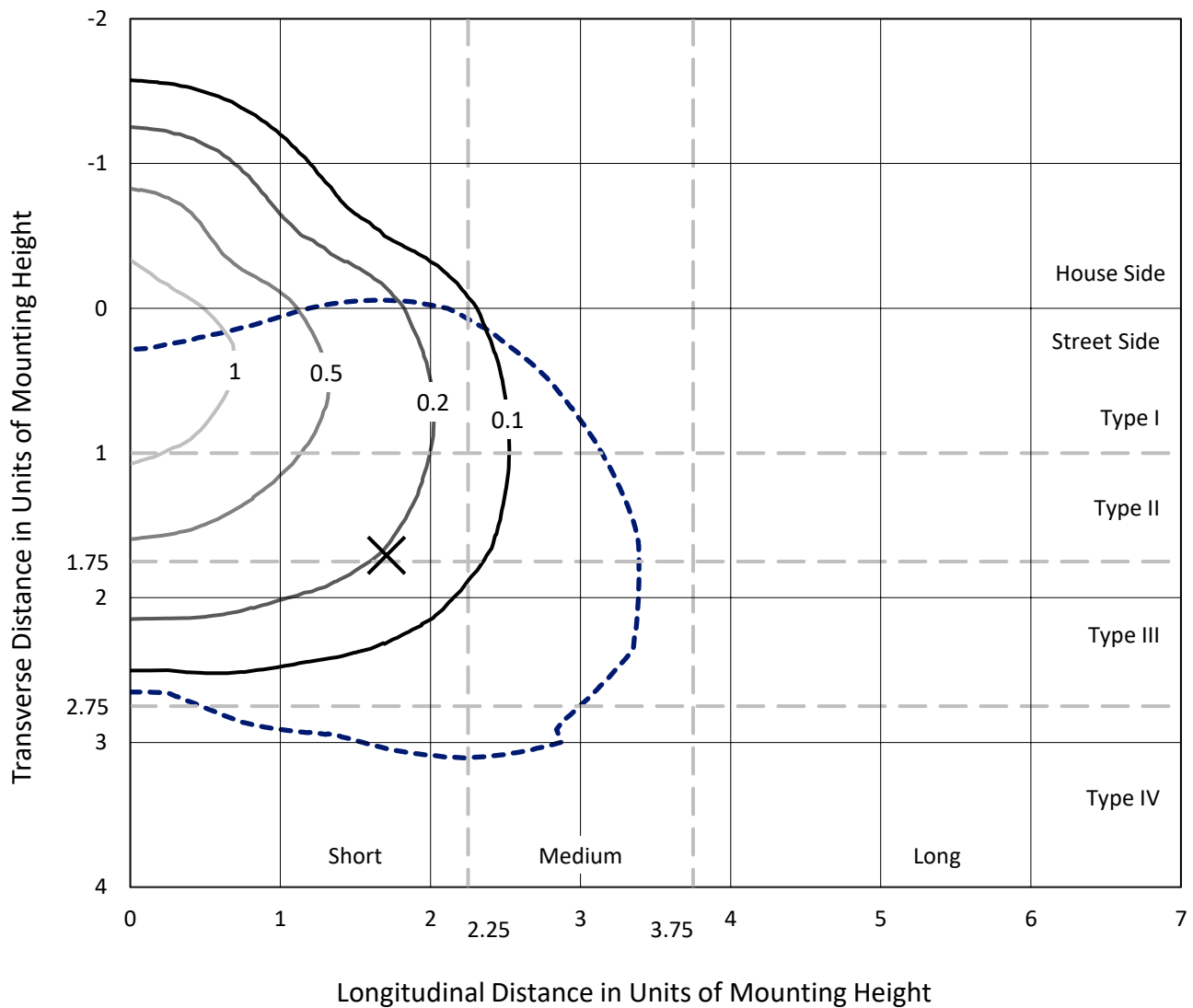


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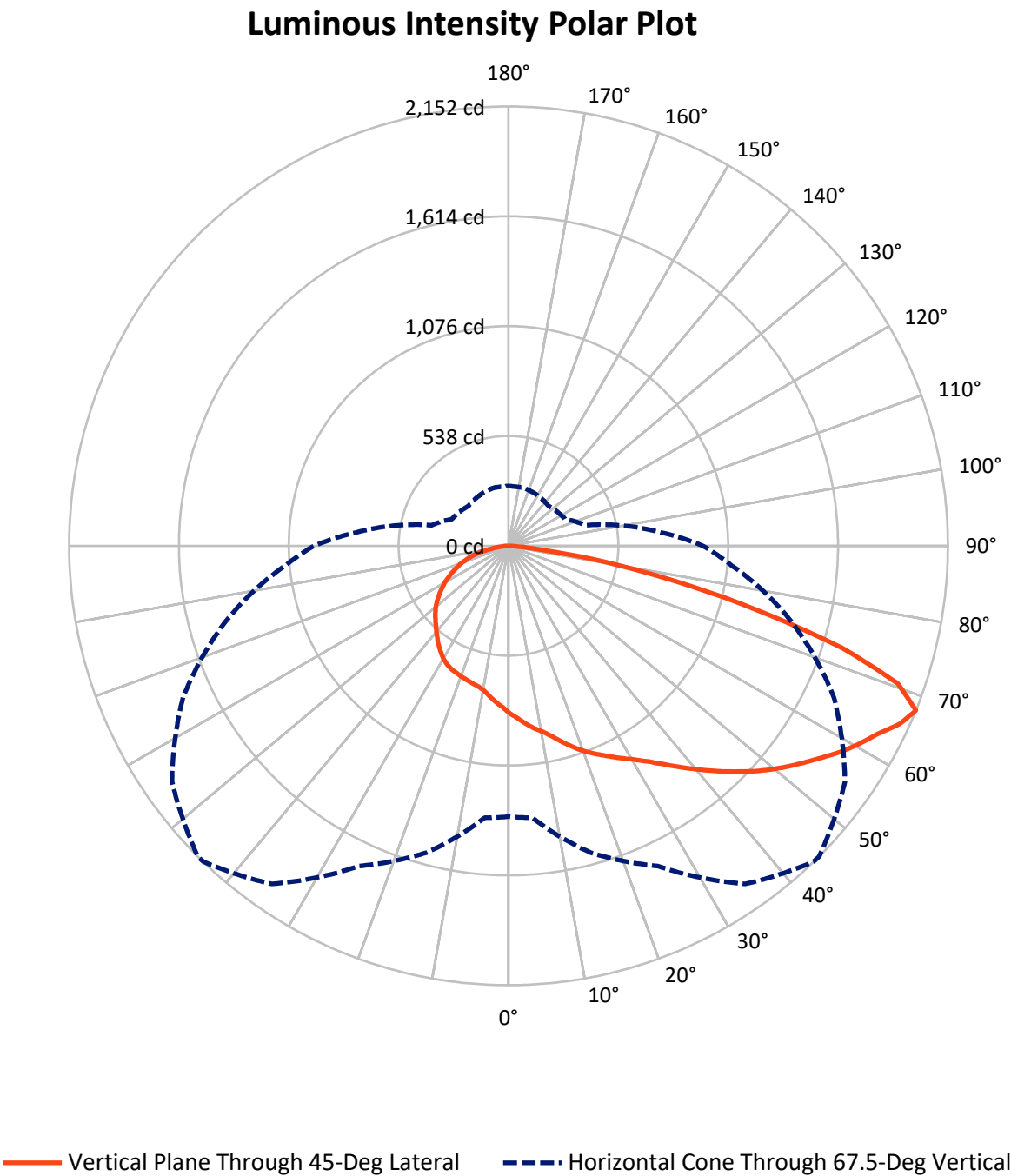
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
Type IV - Short - N/A

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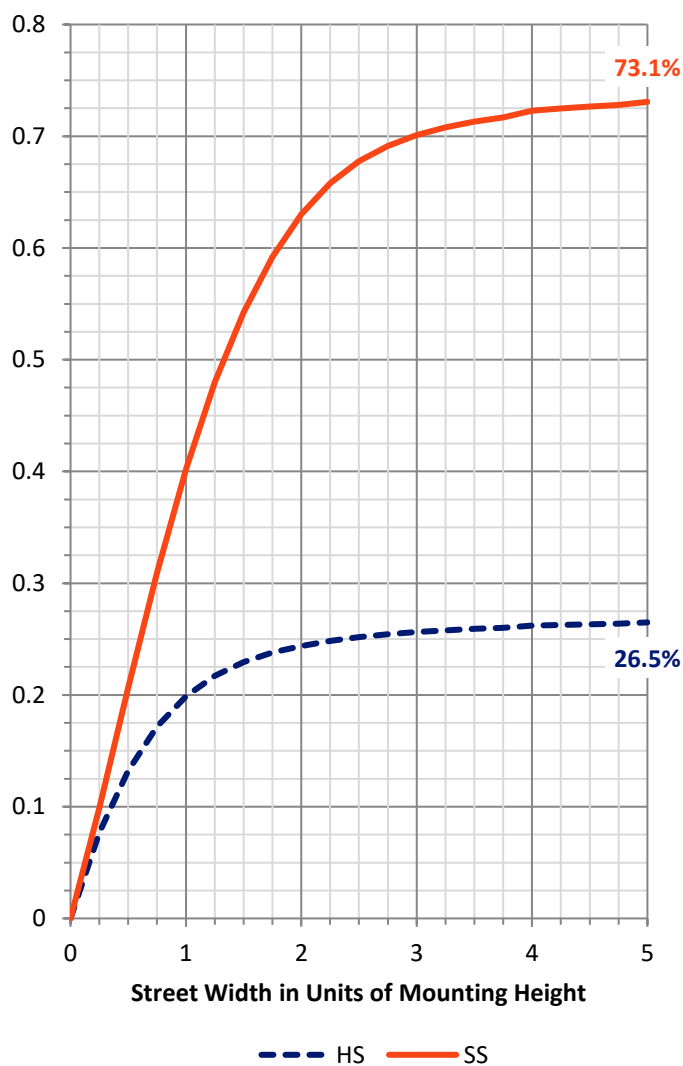
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1314.9   | 0.0    | 1314.9 |
|                    | % Fixture | 26.7     | 0.0    | 26.7   |
| <b>Street Side</b> | Lumens    | 3607.1   | 0.0    | 3607.1 |
|                    | % Fixture | 73.3     | 0.0    | 73.3   |
| <b>Total</b>       | Lumens    | 4922.0   | 0.0    | 4922.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.6   | 1.6       |
| 10°-20°   | 242.8  | 4.9       |
| 20°-30°   | 419.1  | 8.5       |
| 30°-40°   | 618.0  | 12.6      |
| 40°-50°   | 837.3  | 17.0      |
| 50°-60°   | 1023.4 | 20.8      |
| 60°-70°   | 1055.5 | 21.4      |
| 70°-80°   | 578.1  | 11.7      |
| 80°-90°   | 69.3   | 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°    | 4922.0 | 100.0     |
| 0°-180°   | 4922.0 | 100.0     |

**Coefficient of Utilization**



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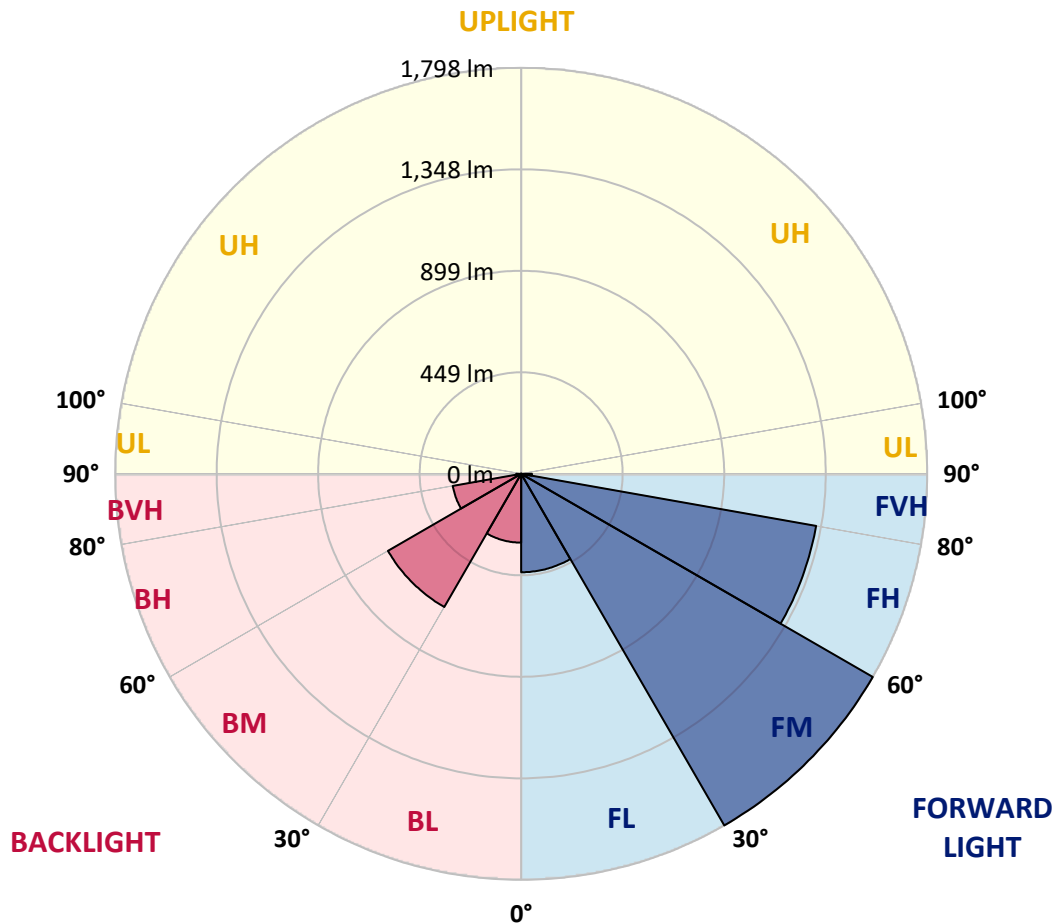
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 435.7  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 1797.6 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 1326.1 | 26.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 47.7   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 304.8  | 6.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 681.1  | 13.8      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 307.5  | 6.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 21.6   | 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°    | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  |
| 2.5°  | 856.8  | 856.1  | 857.6  | 852.4  | 845.6  | 844.9  | 844.9  | 840.4  | 835.1  | 824.6  | 816.4  |
| 5°    | 897.3  | 895.8  | 896.5  | 889.1  | 880.1  | 875.6  | 874.8  | 865.1  | 853.1  | 836.6  | 821.6  |
| 7.5°  | 934.7  | 933.2  | 932.5  | 924.3  | 910.8  | 903.3  | 902.5  | 888.3  | 874.1  | 848.6  | 826.9  |
| 10°   | 969.9  | 968.4  | 966.9  | 955.7  | 939.2  | 928.0  | 926.5  | 908.5  | 890.6  | 859.1  | 831.4  |
| 12.5° | 1014.9 | 1011.9 | 1010.4 | 996.9  | 972.9  | 961.0  | 958.7  | 934.7  | 912.3  | 874.1  | 840.4  |
| 15°   | 1062.1 | 1059.8 | 1057.6 | 1044.8 | 1017.9 | 1002.2 | 998.4  | 968.4  | 937.7  | 893.5  | 853.9  |
| 17.5° | 1097.3 | 1095.0 | 1095.0 | 1083.8 | 1059.1 | 1041.1 | 1038.1 | 1002.2 | 964.0  | 911.5  | 864.3  |
| 20°   | 1119.0 | 1116.7 | 1119.0 | 1112.3 | 1093.5 | 1078.5 | 1075.6 | 1035.9 | 990.2  | 928.0  | 873.3  |
| 22.5° | 1134.7 | 1132.5 | 1136.2 | 1133.2 | 1119.7 | 1110.8 | 1108.5 | 1069.6 | 1017.1 | 945.2  | 882.3  |
| 25°   | 1162.4 | 1162.4 | 1162.4 | 1157.2 | 1144.5 | 1141.5 | 1141.5 | 1107.8 | 1051.6 | 967.7  | 895.8  |
| 27.5° | 1217.9 | 1214.9 | 1211.1 | 1196.1 | 1174.4 | 1173.7 | 1178.2 | 1146.7 | 1091.3 | 996.9  | 912.3  |
| 30°   | 1299.5 | 1298.0 | 1283.8 | 1252.3 | 1215.6 | 1211.9 | 1214.9 | 1188.7 | 1134.0 | 1027.6 | 931.0  |
| 32.5° | 1405.1 | 1399.9 | 1370.7 | 1323.5 | 1271.0 | 1253.8 | 1259.8 | 1232.1 | 1178.9 | 1059.1 | 949.0  |
| 35°   | 1480.0 | 1481.5 | 1460.5 | 1417.8 | 1355.7 | 1310.0 | 1314.5 | 1280.8 | 1227.6 | 1094.3 | 971.4  |
| 37.5° | 1566.1 | 1571.4 | 1539.9 | 1507.7 | 1450.1 | 1372.2 | 1376.6 | 1331.0 | 1276.3 | 1138.5 | 995.4  |
| 40°   | 1685.2 | 1674.7 | 1621.6 | 1583.4 | 1519.7 | 1437.3 | 1441.1 | 1387.1 | 1332.5 | 1180.4 | 1023.1 |
| 42.5° | 1784.9 | 1766.1 | 1701.7 | 1653.0 | 1576.6 | 1506.2 | 1510.0 | 1447.8 | 1389.4 | 1226.9 | 1053.8 |
| 45°   | 1927.9 | 1876.2 | 1783.4 | 1759.4 | 1635.1 | 1573.6 | 1577.4 | 1512.2 | 1449.3 | 1276.3 | 1086.8 |
| 47.5° | 2011.0 | 1928.7 | 1869.5 | 1856.8 | 1699.5 | 1643.3 | 1647.8 | 1580.4 | 1513.7 | 1332.5 | 1121.2 |
| 50°   | 2005.8 | 1952.6 | 1935.4 | 1903.9 | 1756.4 | 1708.5 | 1712.9 | 1650.8 | 1578.9 | 1387.9 | 1154.2 |
| 52.5° | 1971.3 | 1981.1 | 1972.1 | 1919.7 | 1813.3 | 1771.4 | 1776.6 | 1720.4 | 1645.5 | 1439.6 | 1184.9 |
| 55°   | 2024.5 | 2031.3 | 2014.0 | 1945.1 | 1876.2 | 1834.3 | 1840.3 | 1793.8 | 1711.4 | 1485.3 | 1211.1 |
| 57.5° | 2088.2 | 2064.2 | 2047.0 | 1990.1 | 1941.4 | 1902.4 | 1909.2 | 1868.7 | 1768.4 | 1522.0 | 1231.3 |
| 60°   | 2085.2 | 2035.0 | 2052.2 | 1993.1 | 1985.6 | 1965.4 | 1971.3 | 1930.2 | 1811.8 | 1548.9 | 1239.6 |
| 62.5° | 1931.7 | 1904.7 | 1991.6 | 1971.3 | 2021.5 | 2021.5 | 2029.0 | 1967.6 | 1838.0 | 1560.2 | 1235.1 |
| 65°   | 1665.0 | 1666.5 | 1819.3 | 1903.2 | 2064.2 | 2098.7 | 2104.7 | 1990.8 | 1823.0 | 1527.2 | 1193.1 |
| 67.5° | 1326.5 | 1336.2 | 1555.7 | 1730.2 | 2021.5 | 2151.1 | 2151.9 | 2011.8 | 1758.6 | 1434.3 | 1095.8 |
| 70°   | 970.7  | 978.2  | 1237.3 | 1449.3 | 1820.1 | 2035.0 | 2023.0 | 1952.6 | 1618.6 | 1272.5 | 943.7  |
| 72.5° | 656.1  | 662.9  | 929.5  | 1113.0 | 1493.5 | 1733.2 | 1707.0 | 1725.7 | 1379.6 | 1045.6 | 758.7  |
| 75°   | 441.2  | 449.4  | 661.4  | 796.2  | 1098.8 | 1316.0 | 1257.6 | 1307.0 | 1067.3 | 791.7  | 553.5  |
| 77.5° | 277.9  | 283.1  | 420.2  | 522.0  | 750.5  | 895.8  | 837.4  | 838.1  | 614.9  | 426.2  | 297.4  |
| 80°   | 176.8  | 178.3  | 254.7  | 301.1  | 434.4  | 538.5  | 476.4  | 387.2  | 277.1  | 226.2  | 177.5  |
| 82.5° | 102.6  | 100.4  | 152.0  | 170.0  | 206.7  | 204.5  | 169.3  | 160.3  | 121.3  | 113.1  | 90.6   |
| 85°   | 41.2   | 38.2   | 66.7   | 62.2   | 62.9   | 66.7   | 49.4   | 49.4   | 39.7   | 30.7   | 22.5   |
| 87.5° | 8.2    | 8.2    | 9.0    | 8.2    | 8.2    | 9.0    | 6.7    | 6.7    | 6.0    | 6.0    | 6.0    |
| 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°    | 820.9  | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 |
| 2.5°  | 814.9  | 813.4 | 809.7 | 799.9 | 794.7 | 791.7 | 787.2 | 785.7 | 784.9 | 785.7 | 787.9 |
| 5°    | 817.2  | 811.9 | 801.4 | 785.7 | 775.2 | 768.5 | 761.0 | 758.0 | 755.7 | 755.7 | 758.0 |
| 7.5°  | 818.6  | 810.4 | 792.4 | 769.2 | 754.2 | 743.7 | 734.8 | 731.0 | 730.3 | 732.5 | 733.3 |
| 10°   | 819.4  | 807.4 | 781.9 | 752.7 | 733.3 | 719.8 | 710.8 | 708.5 | 710.8 | 715.3 | 716.0 |
| 12.5° | 824.6  | 808.2 | 776.0 | 741.5 | 718.3 | 704.8 | 698.1 | 698.1 | 704.1 | 712.3 | 713.0 |
| 15°   | 833.6  | 813.4 | 773.0 | 732.5 | 708.5 | 696.6 | 694.3 | 698.1 | 707.0 | 719.8 | 721.3 |
| 17.5° | 840.4  | 816.4 | 766.2 | 720.5 | 695.8 | 688.3 | 692.1 | 701.1 | 713.8 | 731.0 | 732.5 |
| 20°   | 844.9  | 816.4 | 756.5 | 706.3 | 683.1 | 681.6 | 692.1 | 706.3 | 719.8 | 740.0 | 742.3 |
| 22.5° | 849.4  | 814.9 | 745.2 | 689.1 | 668.9 | 673.3 | 692.8 | 710.8 | 724.3 | 746.0 | 749.7 |
| 25°   | 857.6  | 817.2 | 734.0 | 671.8 | 653.9 | 666.6 | 692.1 | 713.8 | 728.0 | 750.5 | 756.5 |
| 27.5° | 868.8  | 822.4 | 725.8 | 656.1 | 638.9 | 656.1 | 686.8 | 713.0 | 728.0 | 749.7 | 756.5 |
| 30°   | 880.8  | 828.4 | 716.0 | 638.9 | 621.7 | 641.1 | 675.6 | 704.8 | 722.0 | 742.3 | 750.5 |
| 32.5° | 893.5  | 835.1 | 707.8 | 620.2 | 600.7 | 620.9 | 659.1 | 692.1 | 710.8 | 729.5 | 738.5 |
| 35°   | 910.8  | 847.1 | 703.3 | 605.2 | 582.0 | 599.9 | 638.1 | 675.6 | 695.8 | 713.0 | 723.5 |
| 37.5° | 931.7  | 862.1 | 701.1 | 590.2 | 561.7 | 576.7 | 615.7 | 655.4 | 677.1 | 691.3 | 701.1 |
| 40°   | 955.7  | 880.8 | 700.3 | 576.0 | 541.5 | 552.8 | 592.5 | 632.2 | 653.1 | 664.4 | 672.6 |
| 42.5° | 982.7  | 901.8 | 698.8 | 561.7 | 521.3 | 530.3 | 570.0 | 608.9 | 626.9 | 636.6 | 644.1 |
| 45°   | 1011.1 | 922.8 | 695.8 | 544.5 | 499.6 | 510.1 | 546.8 | 581.2 | 599.9 | 608.2 | 616.4 |
| 47.5° | 1039.6 | 943.7 | 689.8 | 525.0 | 480.1 | 489.8 | 522.0 | 552.0 | 567.0 | 574.5 | 582.7 |
| 50°   | 1067.3 | 962.5 | 675.6 | 502.6 | 459.9 | 468.9 | 493.6 | 513.8 | 525.0 | 531.0 | 539.3 |
| 52.5° | 1092.0 | 975.2 | 655.4 | 476.4 | 439.7 | 444.2 | 460.6 | 477.9 | 486.8 | 487.6 | 495.1 |
| 55°   | 1113.0 | 981.9 | 626.2 | 449.4 | 417.9 | 418.7 | 427.7 | 441.2 | 444.9 | 441.9 | 447.1 |
| 57.5° | 1125.0 | 978.2 | 594.0 | 421.7 | 395.5 | 392.5 | 399.2 | 406.0 | 406.7 | 399.2 | 404.5 |
| 60°   | 1128.0 | 961.0 | 552.0 | 394.0 | 373.0 | 364.8 | 367.0 | 365.5 | 364.0 | 361.0 | 365.5 |
| 62.5° | 1113.0 | 924.3 | 505.6 | 367.0 | 349.0 | 336.3 | 335.5 | 334.8 | 337.0 | 337.8 | 338.5 |
| 65°   | 1058.3 | 855.3 | 450.1 | 339.3 | 323.6 | 306.3 | 305.6 | 314.6 | 317.6 | 313.1 | 314.6 |
| 67.5° | 952.7  | 749.7 | 389.5 | 307.1 | 291.4 | 276.4 | 282.4 | 287.6 | 292.9 | 291.4 | 292.9 |
| 70°   | 802.9  | 615.7 | 334.1 | 271.1 | 256.2 | 247.9 | 254.7 | 259.2 | 259.9 | 258.4 | 259.9 |
| 72.5° | 631.4  | 480.9 | 282.4 | 234.4 | 221.0 | 217.2 | 225.4 | 229.2 | 235.9 | 238.9 | 239.7 |
| 75°   | 456.1  | 355.0 | 231.4 | 194.7 | 183.5 | 183.5 | 191.0 | 197.7 | 203.7 | 200.0 | 197.7 |
| 77.5° | 254.7  | 212.0 | 166.3 | 134.1 | 136.3 | 146.8 | 149.8 | 157.3 | 163.3 | 162.5 | 161.0 |
| 80°   | 154.3  | 132.6 | 112.3 | 86.9  | 86.1  | 94.4  | 113.8 | 126.6 | 129.6 | 122.8 | 122.1 |
| 82.5° | 80.1   | 69.7  | 59.9  | 48.7  | 53.9  | 62.9  | 65.9  | 79.4  | 87.6  | 84.6  | 88.4  |
| 85°   | 20.2   | 19.5  | 21.7  | 22.5  | 27.7  | 30.7  | 33.7  | 39.7  | 26.2  | 12.7  | 12.7  |
| 87.5° | 6.0    | 6.0   | 7.5   | 7.5   | 9.7   | 12.0  | 11.2  | 11.2  | 6.0   | 0.7   | 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)