

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: P799509

Luminaire Tested: **ARCH2-30-730-U-T2U**

Issue Date: 4/4/2024

### Test Information

Test Method: LM-79-08  
Report Number: P799509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-730-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5130 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
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



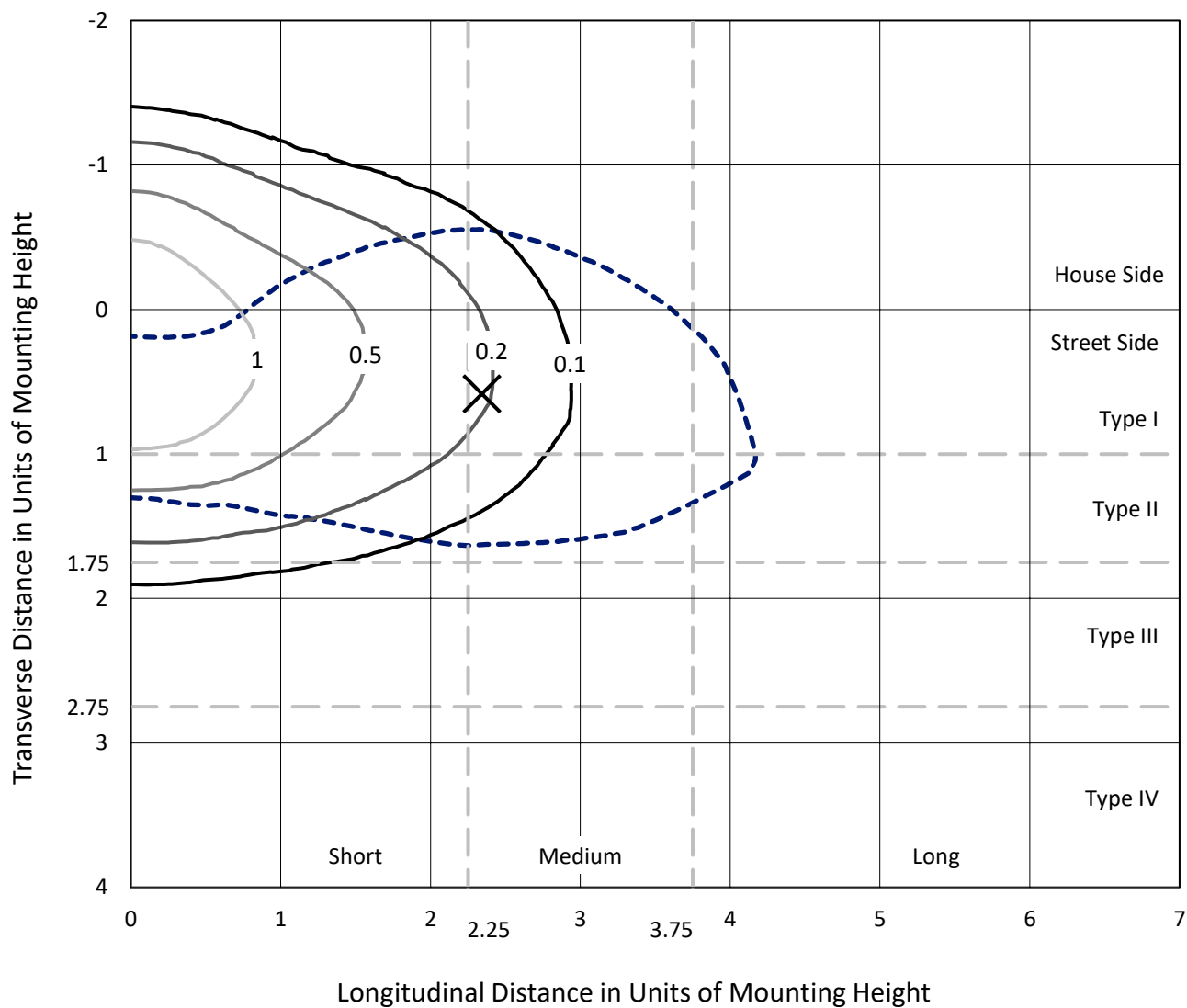
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

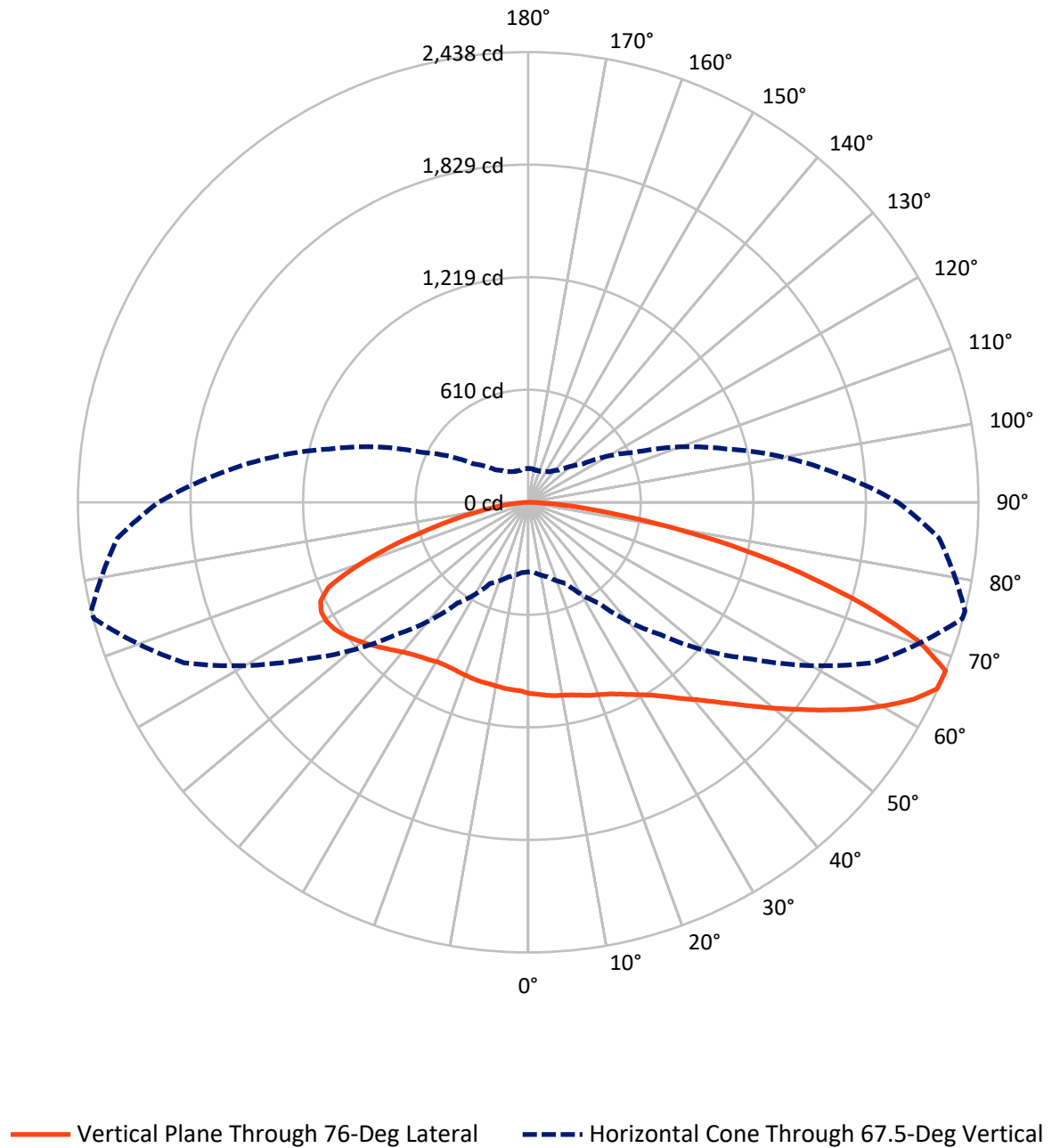


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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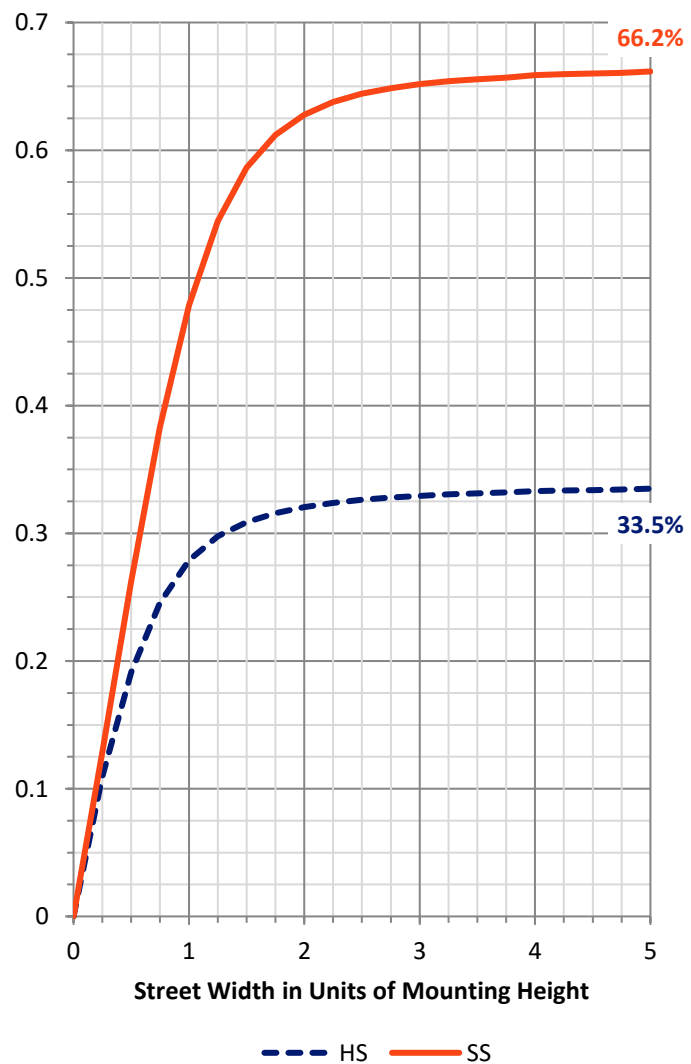
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1733.5   | 0.0    | 1733.5 |
|                    | % Fixture | 33.8     | 0.0    | 33.8   |
| <b>Street Side</b> | Lumens    | 3396.5   | 0.0    | 3396.5 |
|                    | % Fixture | 66.2     | 0.0    | 66.2   |
| <b>Total</b>       | Lumens    | 5130.0   | 0.0    | 5130.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.9   | 1.9       |
| 10°-20°   | 305.5  | 6.0       |
| 20°-30°   | 519.0  | 10.1      |
| 30°-40°   | 738.5  | 14.4      |
| 40°-50°   | 932.7  | 18.2      |
| 50°-60°   | 1009.8 | 19.7      |
| 60°-70°   | 939.2  | 18.3      |
| 70°-80°   | 504.5  | 9.8       |
| 80°-90°   | 80.8   | 1.6       |
| 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°    | 5130.0 | 100.0     |
| 0°-180°   | 5130.0 | 100.0     |

**Coefficient of Utilization**



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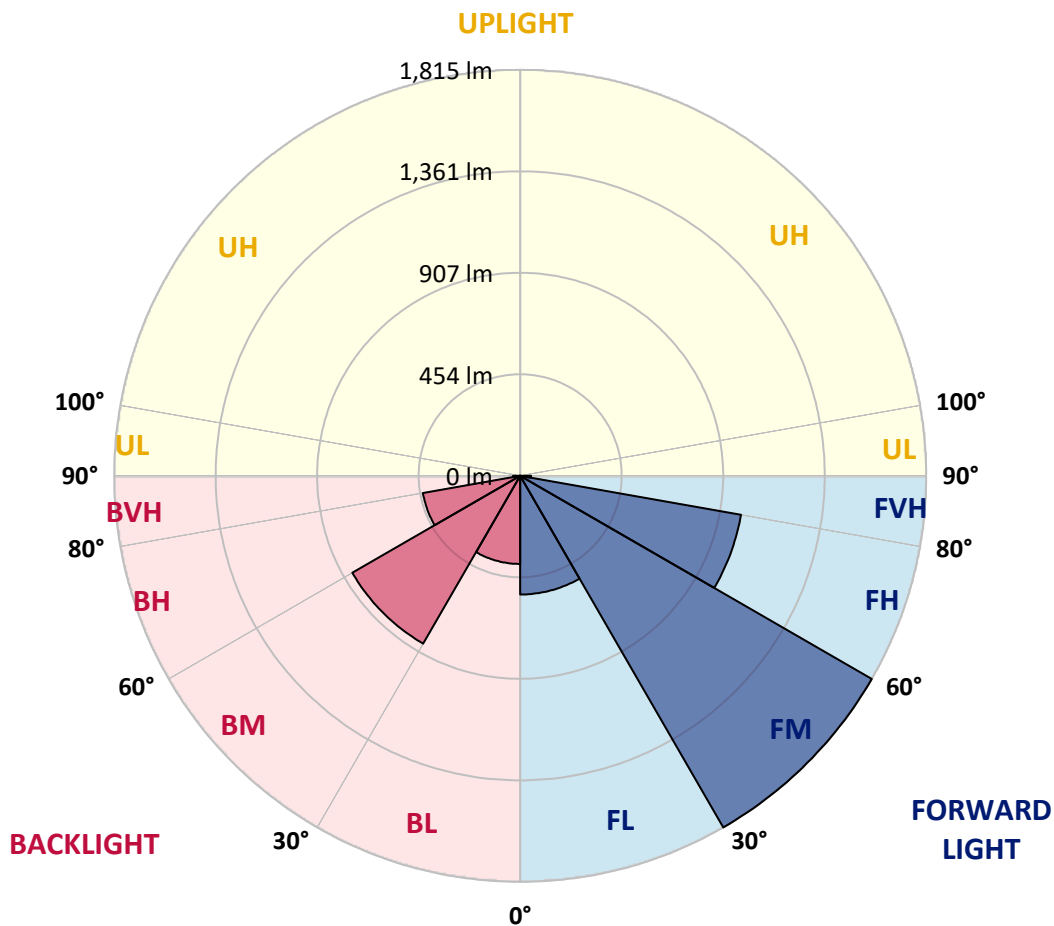
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 530.5  | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 1814.8 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 1002.4 | 19.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 48.9   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 393.9  | 7.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 866.2  | 16.9      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 441.4  | 8.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 31.9   | 0.6       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 |
| 2.5°  | 1067.7 | 1065.8 | 1058.2 | 1059.1 | 1059.1 | 1058.2 | 1046.7 | 1042.0 | 1042.0 | 1041.0 | 1030.5 |
| 5°    | 1105.8 | 1102.9 | 1094.3 | 1092.4 | 1088.6 | 1083.9 | 1065.8 | 1055.3 | 1050.5 | 1049.6 | 1035.3 |
| 7.5°  | 1150.5 | 1146.7 | 1136.3 | 1130.5 | 1121.0 | 1108.6 | 1085.8 | 1069.6 | 1058.2 | 1057.2 | 1037.2 |
| 10°   | 1195.3 | 1191.5 | 1179.1 | 1168.6 | 1155.3 | 1135.3 | 1105.8 | 1082.0 | 1063.9 | 1062.0 | 1038.2 |
| 12.5° | 1248.6 | 1244.8 | 1229.6 | 1216.3 | 1196.3 | 1169.6 | 1130.5 | 1098.2 | 1073.4 | 1070.5 | 1041.0 |
| 15°   | 1304.8 | 1299.1 | 1283.9 | 1268.6 | 1243.9 | 1209.6 | 1162.9 | 1120.1 | 1088.6 | 1083.9 | 1049.6 |
| 17.5° | 1351.5 | 1343.9 | 1331.5 | 1316.3 | 1288.6 | 1248.6 | 1195.3 | 1142.0 | 1102.9 | 1099.1 | 1058.2 |
| 20°   | 1391.5 | 1385.8 | 1372.5 | 1358.2 | 1328.6 | 1284.8 | 1225.8 | 1163.9 | 1116.3 | 1111.5 | 1064.8 |
| 22.5° | 1429.6 | 1422.0 | 1414.4 | 1403.9 | 1371.5 | 1322.9 | 1261.0 | 1190.5 | 1133.4 | 1127.7 | 1073.4 |
| 25°   | 1473.4 | 1464.8 | 1462.0 | 1456.3 | 1418.2 | 1368.6 | 1303.9 | 1223.9 | 1157.2 | 1150.5 | 1088.6 |
| 27.5° | 1527.7 | 1518.2 | 1512.5 | 1512.5 | 1466.7 | 1415.3 | 1349.6 | 1262.9 | 1184.8 | 1179.1 | 1107.7 |
| 30°   | 1584.9 | 1573.4 | 1564.8 | 1564.8 | 1513.4 | 1462.0 | 1394.4 | 1302.0 | 1216.3 | 1209.6 | 1132.4 |
| 32.5° | 1635.3 | 1623.9 | 1614.4 | 1613.4 | 1560.1 | 1508.7 | 1441.0 | 1344.8 | 1254.4 | 1245.8 | 1162.9 |
| 35°   | 1674.4 | 1663.9 | 1655.3 | 1657.2 | 1606.8 | 1556.3 | 1493.4 | 1402.0 | 1302.0 | 1292.5 | 1202.9 |
| 37.5° | 1698.2 | 1694.4 | 1689.6 | 1696.3 | 1649.6 | 1602.0 | 1547.7 | 1457.2 | 1356.3 | 1347.7 | 1252.5 |
| 40°   | 1710.6 | 1707.7 | 1726.8 | 1735.3 | 1685.8 | 1642.9 | 1602.0 | 1514.4 | 1415.3 | 1405.8 | 1309.6 |
| 42.5° | 1728.7 | 1752.5 | 1760.1 | 1758.2 | 1712.5 | 1674.4 | 1651.5 | 1576.3 | 1484.8 | 1476.3 | 1378.2 |
| 45°   | 1663.9 | 1658.2 | 1700.1 | 1723.0 | 1714.4 | 1694.4 | 1698.2 | 1650.6 | 1565.8 | 1557.2 | 1457.2 |
| 47.5° | 1577.2 | 1569.6 | 1593.4 | 1649.6 | 1683.0 | 1702.0 | 1740.1 | 1727.7 | 1659.1 | 1651.5 | 1549.6 |
| 50°   | 1394.4 | 1404.8 | 1493.4 | 1568.7 | 1634.4 | 1700.1 | 1775.3 | 1810.6 | 1762.0 | 1754.4 | 1648.7 |
| 52.5° | 1191.5 | 1202.0 | 1294.4 | 1467.7 | 1575.3 | 1685.8 | 1801.1 | 1893.4 | 1873.4 | 1864.9 | 1754.4 |
| 55°   | 1043.9 | 1066.7 | 1171.5 | 1297.2 | 1491.5 | 1641.0 | 1816.3 | 1978.2 | 1993.4 | 1985.8 | 1869.6 |
| 57.5° | 897.2  | 914.3  | 993.4  | 1104.8 | 1377.2 | 1562.9 | 1815.3 | 2057.3 | 2119.2 | 2111.5 | 1986.8 |
| 60°   | 724.8  | 746.7  | 809.6  | 929.6  | 1224.8 | 1469.6 | 1788.7 | 2119.2 | 2240.1 | 2234.4 | 2100.1 |
| 62.5° | 606.7  | 613.4  | 658.1  | 761.9  | 1028.6 | 1351.5 | 1728.7 | 2152.5 | 2349.7 | 2345.8 | 2202.0 |
| 65°   | 488.6  | 489.6  | 530.5  | 617.2  | 839.1  | 1204.8 | 1626.8 | 2140.1 | 2432.5 | 2434.4 | 2275.4 |
| 67.5° | 377.2  | 381.9  | 419.1  | 484.8  | 666.7  | 1014.3 | 1481.0 | 2056.3 | 2433.5 | 2438.2 | 2233.5 |
| 70°   | 261.0  | 264.8  | 321.0  | 384.8  | 515.3  | 808.6  | 1283.9 | 1834.4 | 2233.5 | 2237.3 | 2002.0 |
| 72.5° | 183.8  | 185.7  | 245.7  | 307.6  | 402.9  | 609.6  | 968.6  | 1517.2 | 1903.9 | 1906.8 | 1683.9 |
| 75°   | 137.2  | 139.1  | 173.3  | 233.3  | 308.6  | 421.9  | 661.9  | 1162.0 | 1521.0 | 1521.0 | 1329.6 |
| 77.5° | 97.1   | 98.1   | 112.4  | 161.0  | 205.7  | 284.8  | 398.1  | 761.0  | 1116.3 | 1118.2 | 968.6  |
| 80°   | 65.7   | 66.7   | 73.3   | 108.6  | 128.6  | 154.3  | 216.2  | 399.1  | 703.8  | 706.7  | 615.3  |
| 82.5° | 34.3   | 36.2   | 41.0   | 55.2   | 64.8   | 85.7   | 111.4  | 202.9  | 389.5  | 397.2  | 369.5  |
| 85°   | 13.3   | 13.3   | 15.2   | 18.1   | 23.8   | 33.3   | 51.4   | 77.1   | 176.2  | 181.9  | 162.9  |
| 87.5° | 4.8    | 4.8    | 5.7    | 5.7    | 6.7    | 7.6    | 8.6    | 11.4   | 20.0   | 20.0   | 19.0   |
| 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°    | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 | 1036.2 |
| 2.5°  | 1026.7 | 1026.7 | 1022.0 | 1023.9 | 1022.9 | 1021.0 | 1019.1 | 1022.0 | 1019.1 | 1012.4 | 1011.5 |
| 5°    | 1028.6 | 1026.7 | 1019.1 | 1018.2 | 1015.3 | 1011.5 | 1006.7 | 1008.6 | 1003.9 | 998.2  | 997.2  |
| 7.5°  | 1029.6 | 1025.8 | 1015.3 | 1011.5 | 1005.8 | 998.2  | 990.5  | 990.5  | 983.9  | 978.2  | 977.2  |
| 10°   | 1027.7 | 1022.9 | 1008.6 | 1001.0 | 990.5  | 979.1  | 968.6  | 965.8  | 958.1  | 951.5  | 951.5  |
| 12.5° | 1028.6 | 1022.0 | 1003.9 | 991.5  | 977.2  | 962.9  | 949.6  | 945.8  | 939.1  | 932.4  | 931.5  |
| 15°   | 1034.3 | 1024.8 | 1002.0 | 985.8  | 964.8  | 948.6  | 934.3  | 931.5  | 925.8  | 921.0  | 921.0  |
| 17.5° | 1040.1 | 1027.7 | 999.1  | 976.2  | 950.5  | 932.4  | 919.1  | 919.1  | 915.3  | 912.4  | 912.4  |
| 20°   | 1042.9 | 1028.6 | 993.4  | 962.9  | 933.4  | 914.3  | 902.0  | 903.9  | 902.9  | 902.0  | 902.0  |
| 22.5° | 1049.6 | 1030.5 | 988.6  | 950.5  | 915.3  | 895.3  | 883.9  | 886.7  | 885.8  | 885.8  | 886.7  |
| 25°   | 1060.1 | 1035.3 | 984.8  | 939.1  | 898.1  | 876.2  | 863.9  | 865.8  | 865.8  | 865.8  | 865.8  |
| 27.5° | 1074.3 | 1044.8 | 983.9  | 928.6  | 881.0  | 856.2  | 841.0  | 841.0  | 837.2  | 838.1  | 839.1  |
| 30°   | 1096.3 | 1062.9 | 985.8  | 919.1  | 862.9  | 831.5  | 813.4  | 810.5  | 809.6  | 811.5  | 812.4  |
| 32.5° | 1122.9 | 1087.7 | 997.2  | 912.4  | 843.9  | 803.9  | 781.0  | 780.0  | 777.2  | 777.2  | 777.2  |
| 35°   | 1156.3 | 1111.5 | 1007.7 | 911.5  | 824.8  | 774.3  | 749.6  | 746.7  | 740.0  | 737.2  | 737.2  |
| 37.5° | 1199.1 | 1148.6 | 1020.1 | 904.8  | 808.6  | 745.8  | 716.2  | 706.7  | 699.1  | 698.1  | 698.1  |
| 40°   | 1251.5 | 1190.5 | 1038.2 | 897.2  | 791.5  | 716.2  | 677.2  | 661.0  | 661.9  | 665.8  | 665.8  |
| 42.5° | 1313.4 | 1242.0 | 1061.0 | 893.4  | 766.7  | 685.8  | 631.5  | 612.4  | 619.1  | 622.9  | 623.8  |
| 45°   | 1385.8 | 1302.9 | 1086.7 | 888.6  | 743.9  | 651.5  | 582.9  | 559.1  | 561.9  | 562.9  | 563.8  |
| 47.5° | 1469.6 | 1370.6 | 1113.4 | 884.8  | 718.1  | 608.6  | 529.6  | 498.1  | 497.2  | 491.5  | 493.4  |
| 50°   | 1557.2 | 1442.0 | 1141.0 | 878.1  | 686.7  | 558.1  | 473.4  | 436.2  | 428.6  | 420.0  | 421.0  |
| 52.5° | 1650.6 | 1515.3 | 1166.7 | 867.7  | 647.7  | 506.7  | 420.0  | 380.0  | 364.8  | 355.3  | 357.2  |
| 55°   | 1753.4 | 1590.6 | 1191.5 | 851.5  | 606.7  | 455.3  | 372.4  | 331.4  | 312.4  | 304.8  | 305.7  |
| 57.5° | 1847.7 | 1663.0 | 1209.6 | 831.5  | 561.9  | 408.6  | 330.5  | 290.5  | 278.1  | 277.2  | 278.1  |
| 60°   | 1939.2 | 1723.9 | 1217.2 | 803.9  | 516.2  | 365.7  | 291.4  | 261.0  | 252.4  | 257.2  | 258.1  |
| 62.5° | 2016.3 | 1763.0 | 1213.4 | 766.7  | 469.6  | 324.8  | 260.0  | 238.1  | 232.4  | 241.9  | 242.9  |
| 65°   | 2061.1 | 1775.3 | 1186.7 | 713.4  | 419.1  | 284.8  | 230.5  | 206.7  | 203.8  | 209.5  | 212.4  |
| 67.5° | 2002.0 | 1698.2 | 1114.3 | 640.0  | 362.9  | 247.6  | 201.9  | 182.9  | 178.1  | 182.9  | 182.9  |
| 70°   | 1774.4 | 1471.5 | 942.9  | 523.8  | 301.0  | 211.4  | 175.2  | 161.9  | 158.1  | 161.9  | 161.0  |
| 72.5° | 1478.2 | 1223.9 | 742.9  | 408.6  | 237.2  | 178.1  | 152.4  | 140.0  | 136.2  | 132.4  | 130.5  |
| 75°   | 1146.7 | 929.6  | 539.1  | 300.0  | 179.1  | 142.9  | 127.6  | 116.2  | 106.7  | 110.5  | 108.6  |
| 77.5° | 840.0  | 652.4  | 381.9  | 207.6  | 128.6  | 110.5  | 100.0  | 91.4   | 84.8   | 92.4   | 91.4   |
| 80°   | 541.0  | 421.9  | 255.3  | 139.1  | 88.6   | 77.1   | 73.3   | 68.6   | 75.2   | 98.1   | 100.0  |
| 82.5° | 330.5  | 267.6  | 152.4  | 90.5   | 58.1   | 51.4   | 47.6   | 47.6   | 77.1   | 84.8   | 85.7   |
| 85°   | 147.6  | 141.9  | 82.9   | 46.7   | 32.4   | 29.5   | 26.7   | 34.3   | 31.4   | 22.9   | 23.8   |
| 87.5° | 23.8   | 24.8   | 18.1   | 16.2   | 12.4   | 12.4   | 9.5    | 6.7    | 4.8    | 2.9    | 2.9    |
| 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)