

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: P799476

Luminaire Tested: **ARCH2-30-722-U-T2U-HSS**

Issue Date: 4/4/2024

### Test Information

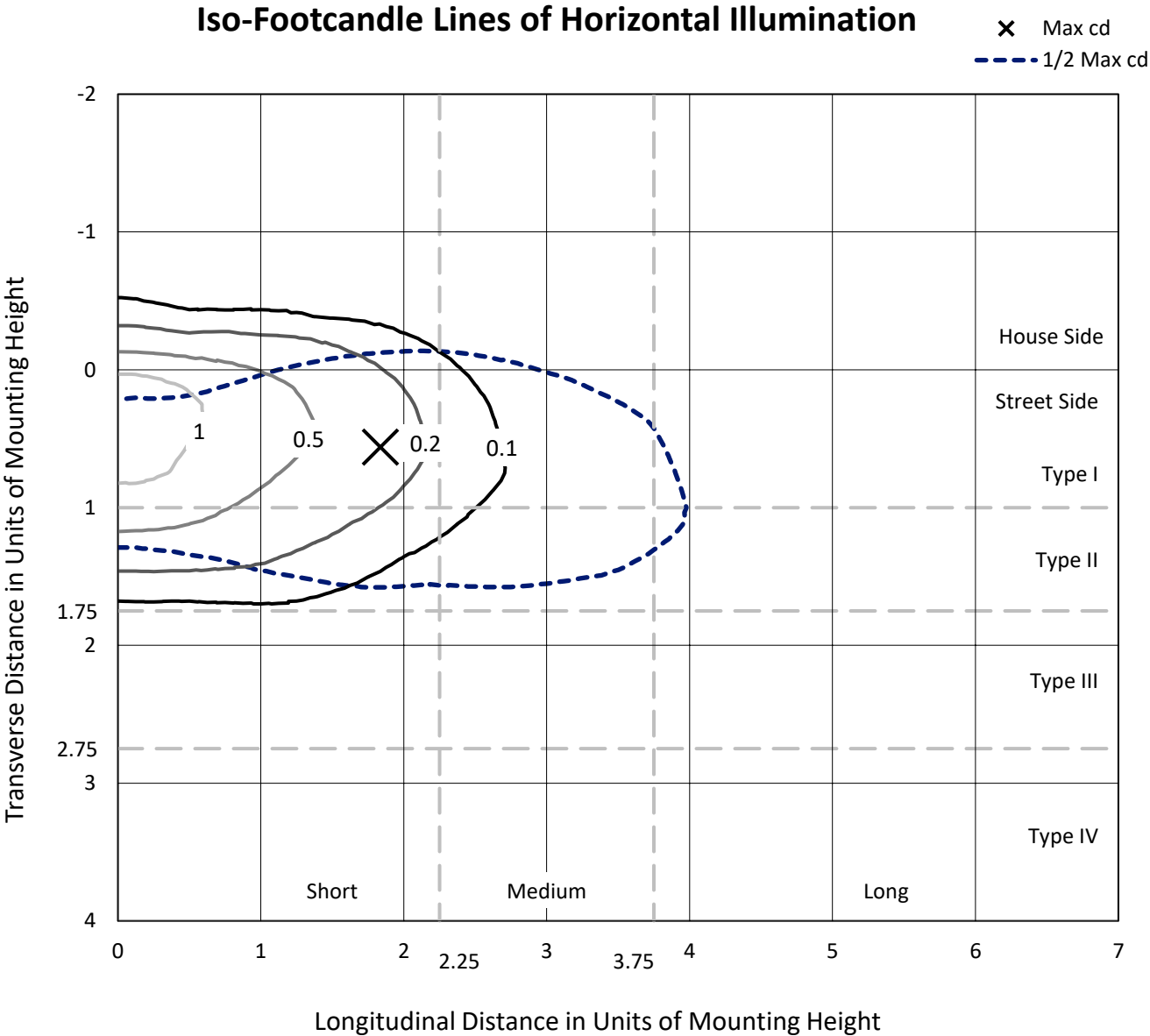
Test Method: LM-79-08  
Report Number: P799476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-722-U-T2U-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2992 lumens  
Efficiency: N/A  
Efficacy: 87.0 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): 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

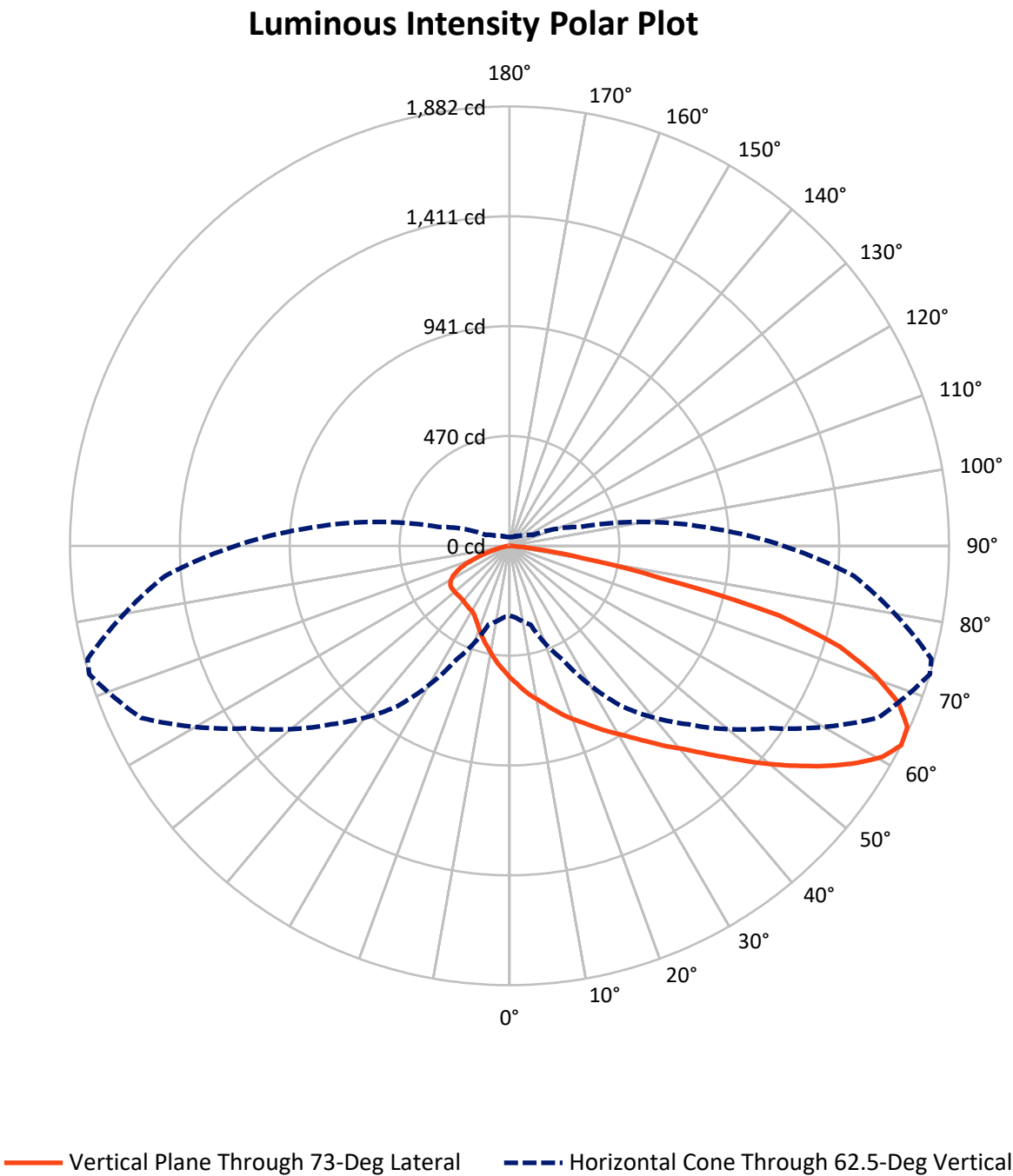


REPORT NUMBER: P799476  
CATALOG NUMBER: ARCH2-30-722-U-T2U-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
Type II - Short - N/A

REPORT NUMBER: P799476  
CATALOG NUMBER: ARCH2-30-722-U-T2U-HSS



REPORT NUMBER: P799476

CATALOG NUMBER: ARCH2-30-722-U-T2U-HSS

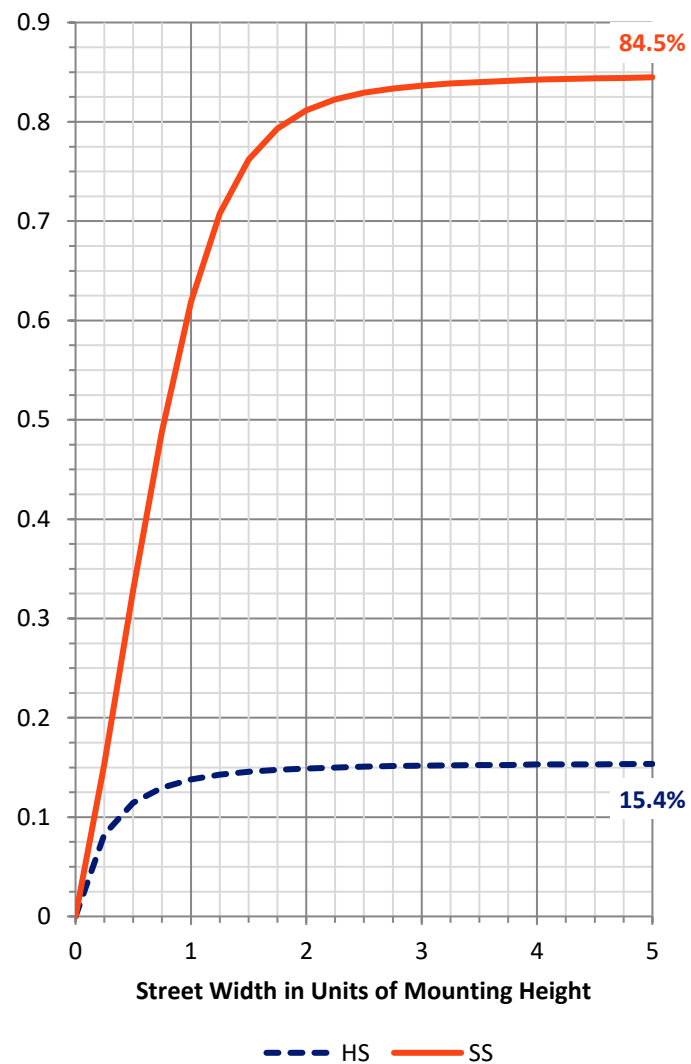
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 463.8    | 0.0    | 463.8  |
|                    | % Fixture | 15.5     | 0.0    | 15.5   |
| <b>Street Side</b> | Lumens    | 2528.2   | 0.0    | 2528.2 |
|                    | % Fixture | 84.5     | 0.0    | 84.5   |
| <b>Total</b>       | Lumens    | 2992.0   | 0.0    | 2992.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.7   | 1.8       |
| 10°-20°   | 165.2  | 5.5       |
| 20°-30°   | 274.9  | 9.2       |
| 30°-40°   | 414.8  | 13.9      |
| 40°-50°   | 579.8  | 19.4      |
| 50°-60°   | 640.4  | 21.4      |
| 60°-70°   | 557.9  | 18.6      |
| 70°-80°   | 281.8  | 9.4       |
| 80°-90°   | 22.6   | 0.8       |
| 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°    | 2992.0 | 100.0     |
| 0°-180°   | 2992.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P799476

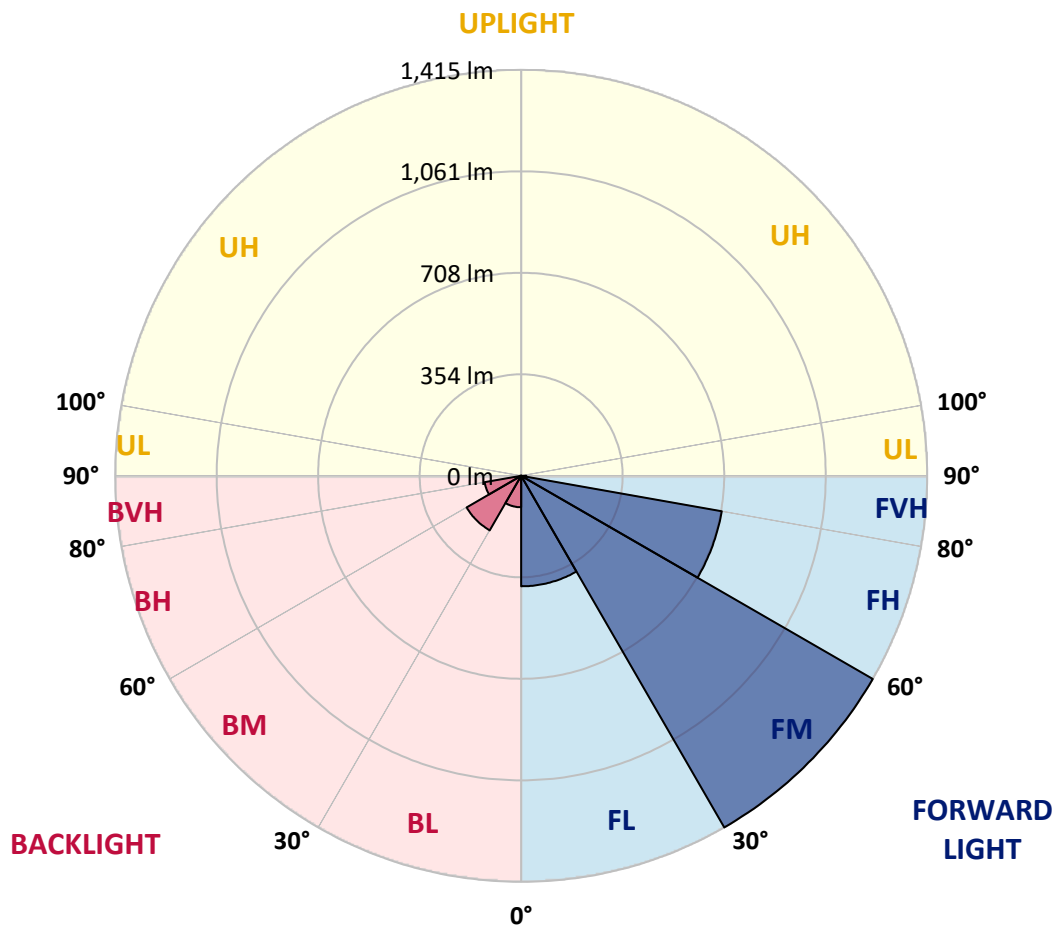
CATALOG NUMBER: ARCH2-30-722-U-T2U-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 385.2  | 12.9      |                         |      |         |
| FM   | (30°-60°)   | 1415.3 | 47.3      |                         |      |         |
| FH   | (60°-80°)   | 710.2  | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 17.5   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 109.6  | 3.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 219.6  | 7.3       | B0/220                  |      |         |
| BH   | (60°-80°)   | 129.5  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.1    | 0.2       |                         |      | 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



REPORT NUMBER: P799476

CATALOG NUMBER: ARCH2-30-722-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 73°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 566.5  | 566.5  | 566.5  | 566.5  | 566.5  | 566.5  | 566.5  | 566.5  | 566.5  | 566.5  | 566.5  |
| 2.5°  | 644.8  | 651.9  | 648.0  | 650.6  | 637.6  | 629.1  | 619.3  | 600.4  | 590.0  | 588.7  | 576.3  |
| 5°    | 739.3  | 747.1  | 740.6  | 738.7  | 715.8  | 696.3  | 674.1  | 640.9  | 618.7  | 614.8  | 587.4  |
| 7.5°  | 833.8  | 841.0  | 833.2  | 827.3  | 796.7  | 762.1  | 729.5  | 680.6  | 646.1  | 639.6  | 596.5  |
| 10°   | 900.3  | 906.9  | 901.0  | 895.1  | 863.2  | 828.0  | 781.7  | 717.8  | 670.9  | 660.4  | 602.4  |
| 12.5° | 950.5  | 954.4  | 951.8  | 946.6  | 916.6  | 878.8  | 834.5  | 759.5  | 698.9  | 685.8  | 611.5  |
| 15°   | 991.6  | 998.1  | 994.9  | 991.0  | 962.3  | 924.5  | 882.1  | 803.2  | 731.5  | 715.2  | 625.2  |
| 17.5° | 1019.0 | 1023.6 | 1024.2 | 1024.2 | 998.8  | 961.6  | 920.5  | 843.0  | 764.1  | 743.2  | 638.3  |
| 20°   | 1031.4 | 1036.6 | 1039.9 | 1045.1 | 1024.2 | 992.3  | 950.5  | 876.9  | 794.7  | 771.3  | 650.6  |
| 22.5° | 1037.2 | 1041.8 | 1050.3 | 1062.0 | 1045.1 | 1018.3 | 979.9  | 908.2  | 825.4  | 800.6  | 665.0  |
| 25°   | 1041.8 | 1047.7 | 1060.1 | 1082.2 | 1070.5 | 1047.7 | 1014.4 | 944.0  | 861.9  | 836.4  | 685.8  |
| 27.5° | 1054.2 | 1061.4 | 1073.1 | 1099.8 | 1085.5 | 1074.4 | 1050.9 | 982.5  | 900.3  | 874.3  | 711.3  |
| 30°   | 1097.2 | 1103.1 | 1102.4 | 1119.4 | 1101.8 | 1098.5 | 1082.2 | 1019.6 | 937.5  | 911.4  | 741.3  |
| 32.5° | 1175.5 | 1181.3 | 1167.0 | 1160.5 | 1122.0 | 1122.7 | 1116.1 | 1059.4 | 981.8  | 955.1  | 775.8  |
| 35°   | 1259.6 | 1266.1 | 1247.2 | 1236.1 | 1171.5 | 1152.6 | 1155.9 | 1109.0 | 1031.4 | 1004.6 | 818.8  |
| 37.5° | 1334.5 | 1342.4 | 1326.1 | 1309.8 | 1244.6 | 1200.9 | 1200.2 | 1164.4 | 1088.1 | 1060.7 | 866.4  |
| 40°   | 1375.6 | 1384.7 | 1394.5 | 1385.4 | 1316.9 | 1268.7 | 1247.8 | 1221.1 | 1144.2 | 1116.1 | 917.9  |
| 42.5° | 1395.2 | 1420.6 | 1438.2 | 1432.3 | 1376.3 | 1327.4 | 1302.6 | 1280.4 | 1212.6 | 1185.2 | 979.2  |
| 45°   | 1340.4 | 1341.1 | 1378.2 | 1410.2 | 1399.7 | 1367.1 | 1362.6 | 1346.9 | 1290.9 | 1264.8 | 1048.3 |
| 47.5° | 1271.9 | 1266.7 | 1292.8 | 1349.5 | 1378.9 | 1387.3 | 1414.1 | 1420.6 | 1380.2 | 1354.1 | 1118.7 |
| 50°   | 1107.7 | 1110.9 | 1195.7 | 1277.2 | 1334.5 | 1389.3 | 1450.6 | 1496.2 | 1472.1 | 1447.3 | 1193.1 |
| 52.5° | 901.0  | 908.8  | 1006.0 | 1185.2 | 1275.9 | 1369.7 | 1472.1 | 1571.8 | 1566.0 | 1542.5 | 1267.4 |
| 55°   | 722.4  | 734.7  | 837.8  | 1032.0 | 1200.9 | 1326.1 | 1481.2 | 1640.9 | 1663.1 | 1641.6 | 1340.4 |
| 57.5° | 552.2  | 565.2  | 651.9  | 851.4  | 1105.0 | 1255.0 | 1474.7 | 1701.6 | 1753.7 | 1740.0 | 1407.6 |
| 60°   | 415.9  | 429.0  | 484.4  | 690.4  | 985.1  | 1175.5 | 1442.1 | 1741.3 | 1835.2 | 1820.9 | 1456.4 |
| 62.5° | 297.9  | 308.4  | 349.4  | 537.2  | 839.1  | 1080.9 | 1361.9 | 1742.0 | 1881.5 | 1869.8 | 1479.9 |
| 65°   | 214.5  | 214.5  | 247.7  | 383.3  | 702.1  | 967.5  | 1240.7 | 1661.8 | 1871.7 | 1868.5 | 1463.6 |
| 67.5° | 154.5  | 155.8  | 182.5  | 268.0  | 560.0  | 829.9  | 1083.5 | 1519.0 | 1796.1 | 1812.4 | 1404.9 |
| 70°   | 109.5  | 112.8  | 125.2  | 187.1  | 423.1  | 655.2  | 915.3  | 1331.9 | 1659.9 | 1688.5 | 1291.5 |
| 72.5° | 84.8   | 86.7   | 95.2   | 130.4  | 309.0  | 487.0  | 729.5  | 1123.3 | 1478.0 | 1510.6 | 1137.0 |
| 75°   | 65.2   | 67.2   | 73.7   | 95.8   | 221.7  | 341.6  | 518.3  | 871.7  | 1191.8 | 1249.8 | 913.4  |
| 77.5° | 47.6   | 50.2   | 54.8   | 69.8   | 129.1  | 217.1  | 314.2  | 490.3  | 657.8  | 685.2  | 478.5  |
| 80°   | 22.2   | 25.4   | 31.9   | 45.0   | 69.8   | 102.4  | 111.5  | 189.1  | 316.2  | 330.5  | 259.5  |
| 82.5° | 12.4   | 15.6   | 18.3   | 27.4   | 35.2   | 36.5   | 37.8   | 47.6   | 119.3  | 131.7  | 108.9  |
| 85°   | 5.9    | 7.8    | 8.5    | 11.7   | 11.7   | 10.4   | 12.4   | 9.1    | 19.6   | 23.5   | 22.8   |
| 87.5° | 0.0    | 0.7    | 1.3    | 3.3    | 2.6    | 2.0    | 2.0    | 2.0    | 2.0    | 2.6    | 2.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P799476

CATALOG NUMBER: ARCH2-30-722-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 566.5  | 566.5 | 566.5 | 566.5 | 566.5 | 566.5 | 566.5 | 566.5 | 566.5 | 566.5 | 566.5 |
| 2.5°  | 570.5  | 562.0 | 542.4 | 525.5 | 514.4 | 504.6 | 491.6 | 485.7 | 475.3 | 477.2 | 471.4 |
| 5°    | 573.7  | 558.1 | 523.5 | 491.6 | 468.1 | 447.2 | 424.4 | 411.4 | 397.0 | 395.7 | 391.2 |
| 7.5°  | 575.7  | 551.5 | 502.0 | 457.0 | 421.2 | 389.2 | 358.6 | 341.6 | 324.0 | 320.1 | 316.2 |
| 10°   | 573.7  | 541.8 | 479.8 | 421.2 | 373.6 | 333.8 | 299.2 | 277.7 | 259.5 | 254.9 | 251.0 |
| 12.5° | 575.7  | 536.6 | 459.0 | 387.9 | 331.2 | 286.2 | 247.1 | 224.9 | 208.0 | 203.4 | 200.8 |
| 15°   | 580.2  | 533.3 | 441.4 | 357.9 | 293.4 | 243.2 | 204.7 | 185.8 | 172.1 | 167.6 | 166.2 |
| 17.5° | 584.1  | 530.0 | 422.5 | 328.6 | 255.6 | 205.4 | 172.1 | 156.5 | 144.7 | 140.2 | 138.9 |
| 20°   | 589.4  | 525.5 | 403.6 | 300.5 | 222.3 | 175.4 | 146.0 | 132.3 | 123.2 | 120.0 | 119.3 |
| 22.5° | 593.9  | 522.2 | 386.0 | 272.5 | 191.7 | 151.3 | 126.5 | 115.4 | 108.9 | 105.6 | 105.6 |
| 25°   | 605.7  | 523.5 | 371.0 | 246.4 | 168.9 | 132.3 | 111.5 | 103.0 | 97.8  | 95.8  | 95.8  |
| 27.5° | 619.3  | 528.7 | 359.2 | 224.3 | 149.3 | 118.0 | 101.1 | 93.9  | 91.3  | 88.7  | 89.3  |
| 30°   | 638.9  | 539.2 | 351.4 | 206.0 | 135.0 | 106.9 | 92.6  | 87.4  | 84.8  | 84.1  | 84.1  |
| 32.5° | 663.7  | 556.1 | 350.7 | 194.3 | 124.5 | 98.4  | 86.7  | 82.1  | 80.8  | 80.2  | 80.2  |
| 35°   | 693.0  | 571.1 | 346.8 | 189.1 | 118.0 | 92.6  | 82.1  | 78.9  | 78.2  | 78.2  | 78.2  |
| 37.5° | 728.2  | 595.9 | 344.2 | 181.9 | 114.7 | 89.3  | 78.9  | 76.3  | 76.3  | 76.3  | 76.3  |
| 40°   | 764.7  | 616.1 | 340.3 | 175.4 | 113.4 | 87.4  | 76.9  | 73.7  | 73.7  | 73.7  | 73.7  |
| 42.5° | 808.4  | 645.4 | 339.0 | 172.1 | 111.5 | 86.1  | 74.3  | 70.4  | 71.1  | 71.1  | 71.7  |
| 45°   | 861.2  | 678.7 | 338.4 | 168.9 | 110.8 | 84.8  | 71.7  | 67.2  | 67.8  | 67.2  | 67.2  |
| 47.5° | 914.7  | 717.1 | 340.3 | 166.9 | 110.2 | 83.4  | 69.8  | 63.9  | 63.9  | 63.2  | 63.2  |
| 50°   | 970.7  | 752.3 | 341.6 | 164.9 | 108.9 | 80.8  | 66.5  | 61.3  | 60.0  | 58.7  | 59.3  |
| 52.5° | 1023.6 | 784.9 | 342.3 | 161.7 | 105.0 | 76.9  | 63.9  | 58.0  | 56.1  | 54.1  | 54.8  |
| 55°   | 1076.4 | 816.2 | 343.6 | 157.8 | 99.7  | 73.0  | 60.6  | 54.8  | 52.2  | 49.5  | 49.5  |
| 57.5° | 1124.0 | 843.6 | 340.3 | 148.0 | 93.9  | 69.1  | 57.4  | 50.9  | 46.9  | 44.3  | 44.3  |
| 60°   | 1156.6 | 863.2 | 330.5 | 133.6 | 86.1  | 64.5  | 54.1  | 46.9  | 42.4  | 40.4  | 40.4  |
| 62.5° | 1172.2 | 866.4 | 312.9 | 110.2 | 76.3  | 60.0  | 50.2  | 43.0  | 39.1  | 37.8  | 37.8  |
| 65°   | 1157.2 | 852.1 | 285.6 | 82.8  | 65.8  | 54.8  | 46.3  | 39.8  | 35.9  | 32.6  | 32.6  |
| 67.5° | 1105.0 | 811.7 | 247.7 | 62.6  | 56.1  | 49.5  | 42.4  | 36.5  | 31.9  | 29.3  | 29.3  |
| 70°   | 1000.1 | 727.6 | 191.7 | 50.2  | 47.6  | 43.0  | 38.5  | 32.6  | 28.7  | 25.4  | 25.4  |
| 72.5° | 862.5  | 616.7 | 135.0 | 40.4  | 40.4  | 36.5  | 32.6  | 28.7  | 24.8  | 22.2  | 22.2  |
| 75°   | 661.7  | 456.4 | 90.6  | 32.6  | 33.2  | 30.6  | 26.7  | 23.5  | 20.9  | 18.9  | 18.9  |
| 77.5° | 361.2  | 225.6 | 55.4  | 24.1  | 24.8  | 23.5  | 20.9  | 18.9  | 17.6  | 15.6  | 15.6  |
| 80°   | 175.4  | 99.1  | 31.9  | 17.0  | 17.6  | 17.0  | 15.6  | 13.7  | 13.7  | 12.4  | 12.4  |
| 82.5° | 73.7   | 37.2  | 17.0  | 11.7  | 11.7  | 10.4  | 9.8   | 9.8   | 9.8   | 9.1   | 9.1   |
| 85°   | 18.3   | 7.2   | 7.2   | 6.5   | 6.5   | 6.5   | 5.9   | 5.9   | 5.9   | 4.6   | 5.2   |
| 87.5° | 2.6    | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.0   | 0.7   | 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)