

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 14825

Luminaire Tested: **AW-SN-2T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14825  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AW-SN-2T5  
Description: INDIRECT WALL MOUNT LUMINAIRE WITH WHITE INTERIOR WITH SPECULAR REFLECTOR  
Light Source: TWO OSRAM 54 WATT FLUORESCENT LAMP  
FP54/841/HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

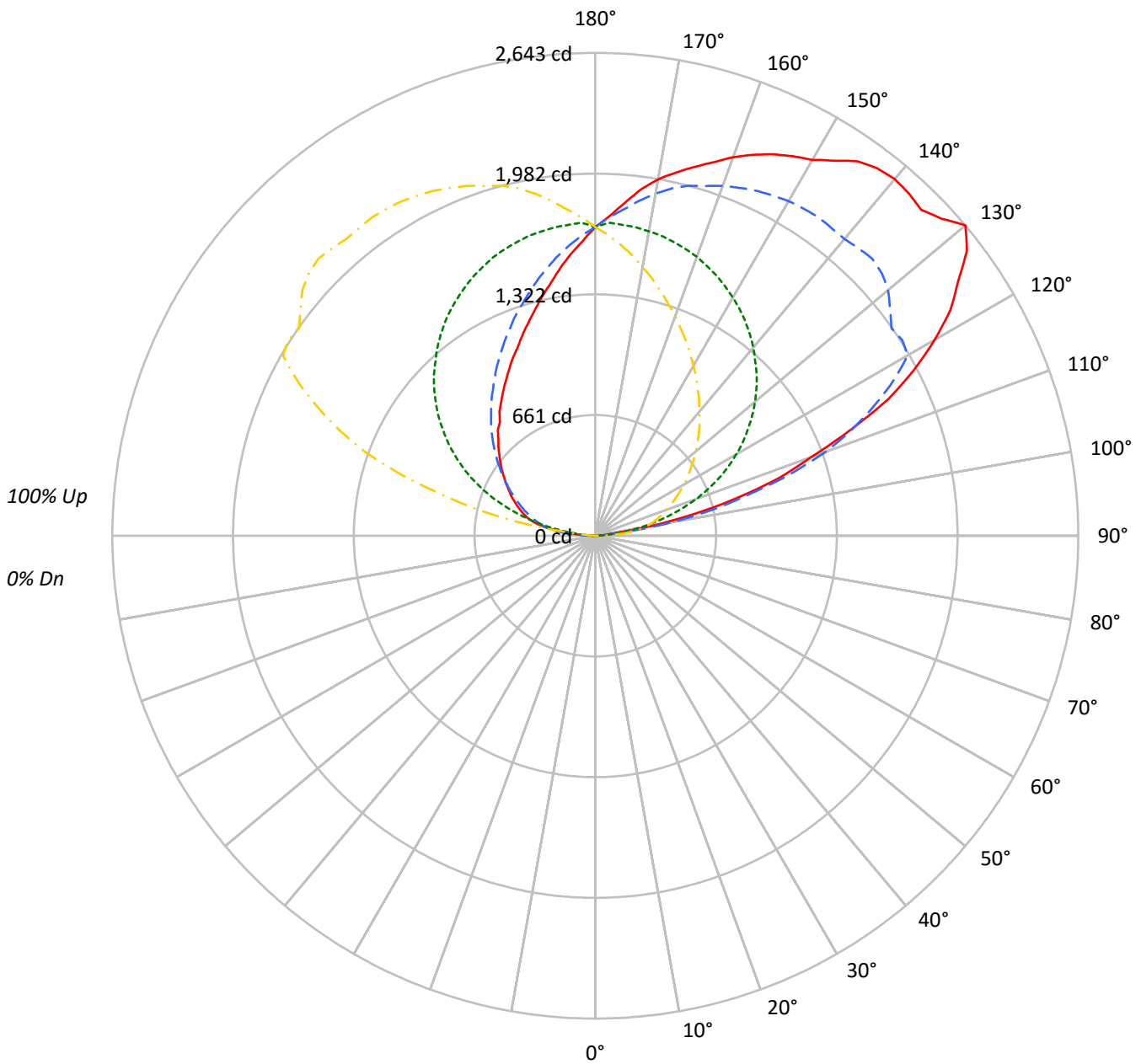
**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 6394.8 lumens  
Efficiency: 71.1%  
Efficacy: 53.3 lumens/watt  
N/A  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Indirect  
  
Input Watts (W): 120  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

| RF  | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |   |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RC  | 80 |    |    |    |    | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 | 0 |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |   |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 68 | 68 | 68 | 68 | 58 | 58 | 58 | 58 | 39 | 39 | 39 | 23 | 23 | 23 | 7  | 7  | 7  | 0  |    |    |    | 0 |
| 1   | 62 | 59 | 56 | 54 | 52 | 50 | 48 | 46 | 34 | 33 | 32 | 20 | 19 | 19 | 6  | 6  | 6  | 0  |    |    |    | 0 |
| 2   | 56 | 51 | 47 | 44 | 48 | 44 | 41 | 38 | 30 | 28 | 26 | 17 | 16 | 16 | 6  | 5  | 5  | 0  |    |    |    | 0 |
| 3   | 51 | 45 | 40 | 36 | 43 | 38 | 35 | 32 | 26 | 24 | 22 | 15 | 14 | 13 | 5  | 5  | 4  | 0  |    |    |    | 0 |
| 4   | 46 | 40 | 34 | 31 | 40 | 34 | 30 | 27 | 23 | 21 | 19 | 13 | 12 | 11 | 4  | 4  | 4  | 0  |    |    |    | 0 |
| 5   | 42 | 35 | 30 | 26 | 36 | 30 | 26 | 22 | 21 | 18 | 16 | 12 | 11 | 9  | 4  | 3  | 3  | 0  |    |    |    | 0 |
| 6   | 39 | 31 | 26 | 22 | 33 | 27 | 22 | 19 | 18 | 16 | 14 | 11 | 9  | 8  | 3  | 3  | 3  | 0  |    |    |    | 0 |
| 7   | 36 | 28 | 23 | 19 | 30 | 24 | 20 | 17 | 17 | 14 | 12 | 10 | 8  | 7  | 3  | 3  | 2  | 0  |    |    |    | 0 |
| 8   | 33 | 25 | 20 | 17 | 28 | 22 | 17 | 14 | 15 | 12 | 10 | 9  | 7  | 6  | 3  | 2  | 2  | 0  |    |    |    | 0 |
| 9   | 31 | 23 | 18 | 15 | 26 | 20 | 15 | 13 | 14 | 11 | 9  | 8  | 6  | 5  | 3  | 2  | 2  | 0  |    |    |    | 0 |
| 10  | 28 | 21 | 16 | 13 | 24 | 18 | 14 | 11 | 12 | 10 | 8  | 7  | 6  | 5  | 2  | 2  | 2  | 0  |    |    |    | 0 |

**AVERAGE LUMINANCE (cd/sqm):**

|      | 0°   | 90° | 180° | 270° |
|------|--|-----|------|------|
| 95°  | Luminaire represents a point source (luminous area is zero). |     |      |      |
| 100° | No luminance values can be calculated.                       |     |      |      |
| 105° |  |     |      |      |
| 110° |  |     |      |      |
| 115° |  |     |      |      |
| 120° |  |     |      |      |
| 125° |  |     |      |      |
| 130° |  |     |      |      |
| 135° |  |     |      |      |
| 140° |  |     |      |      |
| 145° |  |     |      |      |
| 150° |  |     |      |      |
| 155° |  |     |      |      |
| 160° |  |     |      |      |
| 165° |  |     |      |      |
| 170° |  |     |      |      |
| 175° |  |     |      |      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 0.0    | 0.0       | 0.0    |
| 10°-20°   | 0.0    | 0.0       | 0.0    |
| 20°-30°   | 0.0    | 0.0       | 0.0    |
| 30°-40°   | 0.0    | 0.0       | 0.0    |
| 40°-50°   | 0.0    | 0.0       | 0.0    |
| 50°-60°   | 0.0    | 0.0       | 0.0    |
| 60°-70°   | 0.0    | 0.0       | 0.0    |
| 70°-80°   | 0.0    | 0.0       | 0.0    |
| 80°-90°   | 0.0    | 0.0       | 0.0    |
| 90°-100°  | 140.5  | 2.2       | 1.6    |
| 100°-110° | 615.4  | 9.6       | 6.8    |
| 110°-120° | 992.4  | 15.5      | 11.0   |
| 120°-130° | 1163.8 | 18.2      | 12.9   |
| 130°-140° | 1122.6 | 17.6      | 12.5   |
| 140°-150° | 973.8  | 15.2      | 10.8   |
| 150°-160° | 751.7  | 11.8      | 8.4    |
| 160°-170° | 473.4  | 7.4       | 5.3    |
| 170°-180° | 161.2  | 2.5       | 1.8    |
| 0°-30°    | 0.0    | 0.0       | 0.0    |
| 0°-40°    | 0.0    | 0.0       | 0.0    |
| 0°-60°    | 0.0    | 0.0       | 0.0    |
| 0°-90°    | 0.0    | 0.0       | 0.0    |
| 90°-120°  | 1748.3 | 27.3      | 19.4   |
| 90°-150°  | 5008.5 | 78.3      | 55.7   |
| 90°-180°  | 6395.0 | 100.0     | 71.1   |
| 0°-180°   | 6394.8 | 100.0     | 71.1   |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 90°  | 0    | 0    | 0    | 0    | 0    |      |
| 95°  | 49   | 70   | 119  | 70   | 49   | 82   |
| 105° | 809  | 411  | 387  | 411  | 809  | 846  |
| 115° | 1768 | 747  | 506  | 747  | 1768 | 1716 |
| 125° | 2422 | 1020 | 624  | 1020 | 2422 | 2168 |
| 135° | 2522 | 1248 | 750  | 1248 | 2522 | 1981 |
| 145° | 2502 | 1431 | 897  | 1431 | 2502 | 1562 |
| 155° | 2304 | 1571 | 1070 | 1571 | 2304 | 1066 |
| 165° | 2089 | 1663 | 1278 | 1663 | 2089 | 596  |
| 175° | 1827 | 1708 | 1546 | 1708 | 1827 | 179  |
| 180° | 1690 | 1690 | 1690 | 1690 | 1690 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 92.5°  | 0.5    | 8.2    | 5.4    | 25.8   | 22.3   | 59.6   | 72.2   | 18.1   | 28.6   | 18.1   | 72.2   |
| 95°    | 49.0   | 59.6   | 46.9   | 165.1  | 69.8   | 134.1  | 155.2  | 108.8  | 118.7  | 108.8  | 155.2  |
| 97.5°  | 95.4   | 167.9  | 188.3  | 366.2  | 143.3  | 172.8  | 234.7  | 196.0  | 206.6  | 196.0  | 234.7  |
| 100°   | 317.0  | 528.7  | 423.2  | 677.8  | 230.8  | 211.5  | 278.3  | 276.2  | 283.9  | 276.2  | 278.3  |
| 102.5° | 559.6  | 644.7  | 654.5  | 757.9  | 318.4  | 227.0  | 314.9  | 304.3  | 345.8  | 304.3  | 314.9  |
| 105°   | 809.3  | 891.6  | 866.2  | 912.7  | 411.2  | 283.9  | 347.9  | 369.0  | 386.6  | 369.0  | 347.9  |
| 107.5° | 1058.9 | 1126.4 | 1111.0 | 1056.8 | 497.7  | 324.7  | 381.7  | 402.1  | 417.5  | 402.1  | 381.7  |
| 110°   | 1255.1 | 1337.4 | 1340.2 | 1097.6 | 587.7  | 366.2  | 415.4  | 428.1  | 446.4  | 428.1  | 415.4  |
| 112.5° | 1504.8 | 1585.0 | 1520.3 | 1190.4 | 667.6  | 412.6  | 448.5  | 459.0  | 474.5  | 459.0  | 448.5  |
| 115°   | 1767.8 | 1777.7 | 1684.9 | 1291.0 | 747.4  | 464.0  | 482.2  | 490.0  | 505.5  | 490.0  | 482.2  |
| 117.5° | 1966.2 | 1952.8 | 1839.6 | 1371.2 | 820.9  | 513.2  | 520.9  | 520.9  | 530.8  | 520.9  | 520.9  |
| 120°   | 2143.4 | 2123.0 | 1973.9 | 1427.5 | 890.5  | 567.3  | 556.8  | 551.9  | 561.7  | 551.9  | 556.8  |
| 122.5° | 2305.8 | 2357.2 | 1991.5 | 1504.8 | 958.7  | 618.7  | 598.3  | 584.9  | 590.6  | 584.9  | 598.3  |
| 125°   | 2421.9 | 2426.8 | 1978.8 | 1530.8 | 1020.3 | 641.9  | 634.2  | 600.4  | 623.6  | 600.4  | 634.2  |
| 127.5° | 2563.2 | 2504.2 | 2033.0 | 1587.1 | 1082.5 | 729.1  | 675.6  | 649.6  | 654.5  | 649.6  | 675.6  |
| 130°   | 2643.4 | 2421.9 | 2092.1 | 1630.7 | 1140.2 | 781.1  | 716.4  | 682.7  | 685.5  | 682.7  | 716.4  |
| 132.5° | 2568.9 | 2393.8 | 2125.8 | 1675.0 | 1196.8 | 837.4  | 760.0  | 716.4  | 719.3  | 716.4  | 760.0  |
| 135°   | 2522.5 | 2426.8 | 2143.4 | 1713.7 | 1248.5 | 894.4  | 801.5  | 755.1  | 750.2  | 755.1  | 801.5  |
| 137.5° | 2540.7 | 2442.3 | 2133.5 | 1744.6 | 1294.9 | 948.5  | 845.1  | 793.8  | 788.9  | 793.8  | 845.1  |
| 140°   | 2548.5 | 2440.2 | 2120.2 | 1769.9 | 1345.2 | 1004.8 | 886.6  | 827.6  | 812.1  | 827.6  | 886.6  |
| 142.5° | 2535.1 | 2417.0 | 2123.0 | 1796.0 | 1389.1 | 1061.7 | 933.0  | 866.2  | 860.6  | 866.2  | 933.0  |
| 145°   | 2502.1 | 2339.6 | 2127.9 | 1826.9 | 1431.3 | 1118.7 | 976.7  | 909.8  | 897.2  | 909.8  | 976.7  |
| 147.5° | 2434.5 | 2324.1 | 2123.0 | 1834.7 | 1470.0 | 1144.0 | 1025.9 | 925.3  | 938.0  | 925.3  | 1025.9 |
| 150°   | 2375.5 | 2300.9 | 2115.3 | 1847.3 | 1504.8 | 1226.3 | 1074.4 | 989.3  | 979.5  | 989.3  | 1074.4 |
| 152.5° | 2341.7 | 2272.8 | 2099.8 | 1865.6 | 1538.2 | 1267.8 | 1123.6 | 1033.6 | 1023.1 | 1033.6 | 1123.6 |
| 155°   | 2303.7 | 2236.2 | 2084.3 | 1870.5 | 1570.6 | 1319.1 | 1175.0 | 1082.1 | 1069.5 | 1082.1 | 1175.0 |
| 157.5° | 2257.3 | 2192.6 | 2061.1 | 1870.5 | 1597.6 | 1371.2 | 1224.2 | 1131.4 | 1113.1 | 1131.4 | 1224.2 |
| 160°   | 2205.3 | 2149.0 | 2037.9 | 1860.0 | 1624.7 | 1414.8 | 1280.5 | 1177.8 | 1167.2 | 1177.8 | 1280.5 |
| 162.5° | 2143.4 | 2097.0 | 2007.0 | 1852.9 | 1645.1 | 1458.4 | 1329.7 | 1234.1 | 1221.4 | 1234.1 | 1329.7 |
| 165°   | 2089.2 | 2051.3 | 1983.7 | 1837.5 | 1663.1 | 1499.9 | 1383.8 | 1295.9 | 1278.4 | 1295.9 | 1383.8 |
| 167.5° | 2035.8 | 1973.9 | 1947.9 | 1806.5 | 1681.3 | 1540.7 | 1440.1 | 1352.9 | 1342.4 | 1352.9 | 1440.1 |
| 170°   | 1981.6 | 1945.1 | 1901.5 | 1798.8 | 1691.5 | 1559.0 | 1492.2 | 1381.0 | 1404.2 | 1381.0 | 1492.2 |
| 172.5° | 1912.0 | 1875.4 | 1850.1 | 1775.6 | 1702.1 | 1610.3 | 1548.4 | 1476.7 | 1476.7 | 1476.7 | 1548.4 |
| 175°   | 1826.9 | 1798.8 | 1793.2 | 1749.6 | 1708.1 | 1644.1 | 1597.6 | 1543.5 | 1546.3 | 1543.5 | 1597.6 |
| 177.5° | 1749.6 | 1726.3 | 1744.6 | 1726.3 | 1714.7 | 1672.2 | 1646.2 | 1605.4 | 1613.1 | 1605.4 | 1646.2 |
| 180°   | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 92.5°  | 59.6   | 22.3   | 25.8   | 5.4    | 8.2    | 0.5    |
| 95°    | 134.1  | 69.8   | 165.1  | 46.9   | 59.6   | 49.0   |
| 97.5°  | 172.8  | 143.3  | 366.2  | 188.3  | 167.9  | 95.4   |
| 100°   | 211.5  | 230.8  | 677.8  | 423.2  | 528.7  | 317.0  |
| 102.5° | 227.0  | 318.4  | 757.9  | 654.5  | 644.7  | 559.6  |
| 105°   | 283.9  | 411.2  | 912.7  | 866.2  | 891.6  | 809.3  |
| 107.5° | 324.7  | 497.7  | 1056.8 | 1111.0 | 1126.4 | 1058.9 |
| 110°   | 366.2  | 587.7  | 1097.6 | 1340.2 | 1337.4 | 1255.1 |
| 112.5° | 412.6  | 667.6  | 1190.4 | 1520.3 | 1585.0 | 1504.8 |
| 115°   | 464.0  | 747.4  | 1291.0 | 1684.9 | 1777.7 | 1767.8 |
| 117.5° | 513.2  | 820.9  | 1371.2 | 1839.6 | 1952.8 | 1966.2 |
| 120°   | 567.3  | 890.5  | 1427.5 | 1973.9 | 2123.0 | 2143.4 |
| 122.5° | 618.7  | 958.7  | 1504.8 | 1991.5 | 2357.2 | 2305.8 |
| 125°   | 641.9  | 1020.3 | 1530.8 | 1978.8 | 2426.8 | 2421.9 |
| 127.5° | 729.1  | 1082.5 | 1587.1 | 2033.0 | 2504.2 | 2563.2 |
| 130°   | 781.1  | 1140.2 | 1630.7 | 2092.1 | 2421.9 | 2643.4 |
| 132.5° | 837.4  | 1196.8 | 1675.0 | 2125.8 | 2393.8 | 2568.9 |
| 135°   | 894.4  | 1248.5 | 1713.7 | 2143.4 | 2426.8 | 2522.5 |
| 137.5° | 948.5  | 1294.9 | 1744.6 | 2133.5 | 2442.3 | 2540.7 |
| 140°   | 1004.8 | 1345.2 | 1769.9 | 2120.2 | 2440.2 | 2548.5 |
| 142.5° | 1061.7 | 1389.1 | 1796.0 | 2123.0 | 2417.0 | 2535.1 |
| 145°   | 1118.7 | 1431.3 | 1826.9 | 2127.9 | 2339.6 | 2502.1 |
| 147.5° | 1144.0 | 1470.0 | 1834.7 | 2123.0 | 2324.1 | 2434.5 |
| 150°   | 1226.3 | 1504.8 | 1847.3 | 2115.3 | 2300.9 | 2375.5 |
| 152.5° | 1267.8 | 1538.2 | 1865.6 | 2099.8 | 2272.8 | 2341.7 |
| 155°   | 1319.1 | 1570.6 | 1870.5 | 2084.3 | 2236.2 | 2303.7 |
| 157.5° | 1371.2 | 1597.6 | 1870.5 | 2061.1 | 2192.6 | 2257.3 |
| 160°   | 1414.8 | 1624.7 | 1860.0 | 2037.9 | 2149.0 | 2205.3 |
| 162.5° | 1458.4 | 1645.1 | 1852.9 | 2007.0 | 2097.0 | 2143.4 |
| 165°   | 1499.9 | 1663.1 | 1837.5 | 1983.7 | 2051.3 | 2089.2 |
| 167.5° | 1540.7 | 1681.3 | 1806.5 | 1947.9 | 1973.9 | 2035.8 |
| 170°   | 1559.0 | 1691.5 | 1798.8 | 1901.5 | 1945.1 | 1981.6 |
| 172.5° | 1610.3 | 1702.1 | 1775.6 | 1850.1 | 1875.4 | 1912.0 |
| 175°   | 1644.1 | 1708.1 | 1749.6 | 1793.2 | 1798.8 | 1826.9 |
| 177.5° | 1672.2 | 1714.7 | 1726.3 | 1744.6 | 1726.3 | 1749.6 |
| 180°   | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 | 1690.2 |

(END OF REPORT)