

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: CORELITE

Report Number: P522471

Luminaire Tested: **SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522471  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

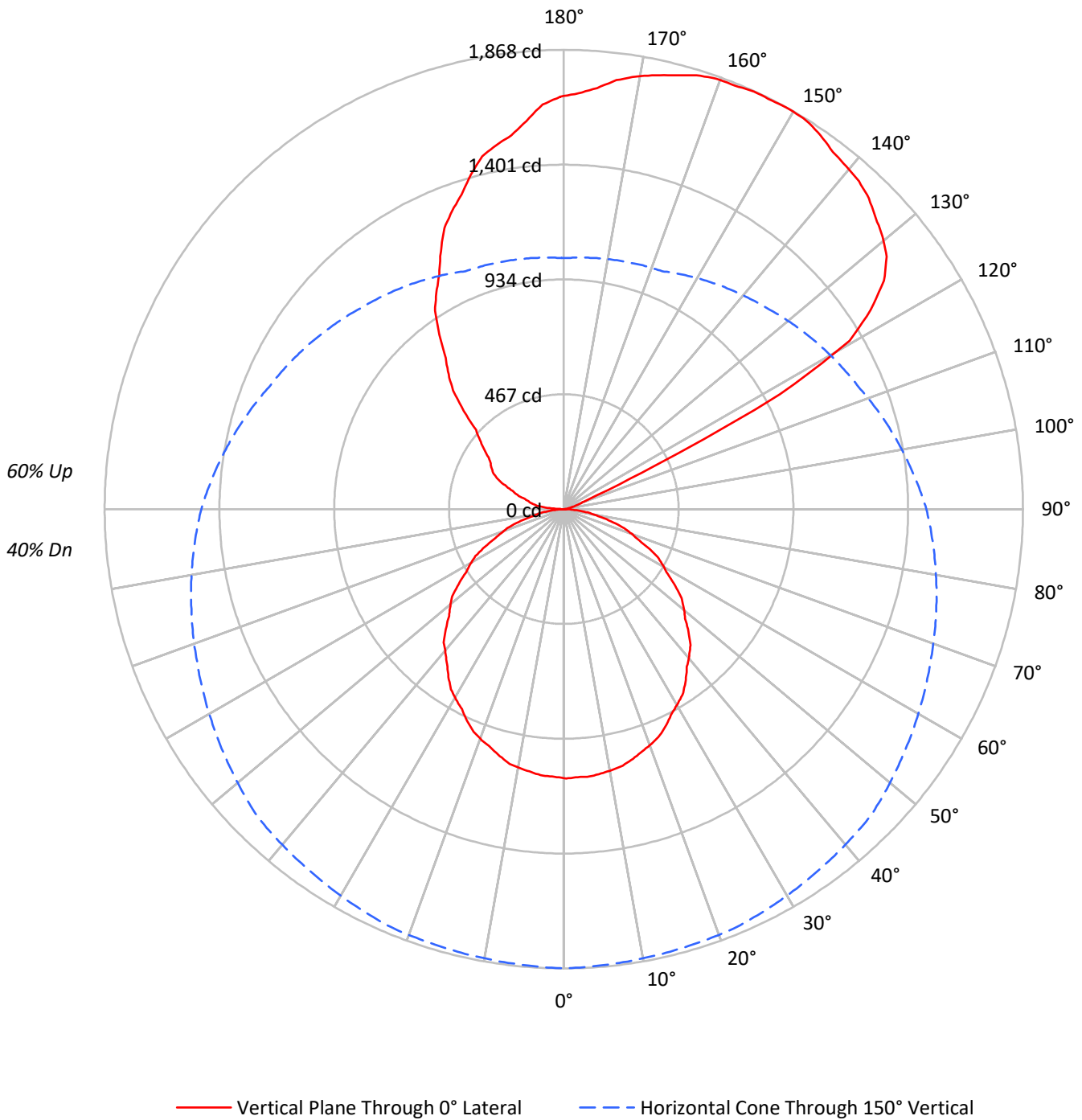
Lumens per Lamp: N/A  
Luminaire Lumens: 7738.9 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 66.7  
Input Voltage (V): 120  
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



TEST NUMBER: P522471  
CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (6500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522471

CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (6500K)

**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   | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 61 | 61 | 61 | 47 | 47 | 47 | 40 |    |    |    |   |
| 1   | 95  | 91  | 87  | 84  | 87 | 83 | 80 | 77 | 68 | 65 | 63 | 54 | 52 | 51 | 41 | 40 | 39 | 33 |    |    |    |   |
| 2   | 87  | 79  | 73  | 68  | 79 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 45 | 42 | 36 | 34 | 33 | 28 |    |    |    |   |
| 3   | 79  | 70  | 62  | 57  | 72 | 64 | 57 | 52 | 52 | 48 | 44 | 42 | 38 | 36 | 32 | 30 | 28 | 23 |    |    |    |   |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 37 | 33 | 30 | 28 | 26 | 24 | 20 |    |    |    |   |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 23 | 21 | 17 |    |    |    |   |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |    |    |    |   |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |    |    |    |   |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 25 | 21 | 18 | 19 | 16 | 14 | 12 |    |    |    |   |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |    |    |    |   |
| 10  | 45  | 33  | 26  | 21  | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 14 | 12 | 10 |    |    |    |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 17693 | 17693 | 17693 |
| 5°  | 17708 | 17864 | 17621 |
| 10° | 17684 | 17807 | 17508 |
| 15° | 17618 | 17743 | 17349 |
| 20° | 17502 | 17630 | 17134 |
| 25° | 17288 | 17480 | 16869 |
| 30° | 17074 | 17273 | 16595 |
| 35° | 16827 | 17038 | 16320 |
| 40° | 16547 | 16796 | 15938 |
| 45° | 16239 | 16559 | 15630 |
| 50° | 15875 | 16252 | 15254 |
| 55° | 15468 | 15921 | 14804 |
| 60° | 14977 | 15600 | 14250 |
| 65° | 14323 | 15098 | 13543 |
| 70° | 13553 | 14412 | 12538 |
| 75° | 12364 | 13094 | 11291 |
| 80° | 10758 | 11650 | 9661  |
| 85° | 8133  | 9133  | 6743  |



TEST NUMBER: P522471

CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (6500K)

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 103.6  | 1.3       |
| 10°-20°   | 296.2  | 3.8       |
| 20°-30°   | 445.5  | 5.8       |
| 30°-40°   | 532.1  | 6.9       |
| 40°-50°   | 547.1  | 7.1       |
| 50°-60°   | 492.3  | 6.4       |
| 60°-70°   | 374.7  | 4.8       |
| 70°-80°   | 212.3  | 2.7       |
| 80°-90°   | 55.9   | 0.7       |
| 90°-100°  | 44.1   | 0.6       |
| 100°-110° | 190.9  | 2.5       |
| 110°-120° | 544.3  | 7.0       |
| 120°-130° | 827.6  | 10.7      |
| 130°-140° | 895.1  | 11.6      |
| 140°-150° | 855.3  | 11.1      |
| 150°-160° | 703.4  | 9.1       |
| 160°-170° | 459.6  | 5.9       |
| 170°-180° | 159.0  | 2.1       |
| 0°-30°    | 845.3  | 10.9      |
| 0°-40°    | 1377.5 | 17.8      |
| 0°-60°    | 2416.8 | 31.2      |
| 0°-90°    | 3059.7 | 39.5      |
| 90°-120°  | 779.2  | 10.1      |
| 90°-150°  | 3357.2 | 43.4      |
| 90°-180°  | 4679.0 | 60.5      |
| 0°-180°   | 7738.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1096 | 1096 | 1096 | 1096 | 1096 |      |
| 5°   | 1093 | 1093 | 1102 | 1089 | 1087 | 104  |
| 15°  | 1054 | 1056 | 1062 | 1048 | 1038 | 297  |
| 25°  | 970  | 980  | 981  | 964  | 947  | 447  |
| 35°  | 854  | 866  | 864  | 846  | 828  | 534  |
| 45°  | 711  | 721  | 725  | 704  | 684  | 548  |
| 55°  | 550  | 560  | 566  | 544  | 526  | 491  |
| 65°  | 375  | 386  | 395  | 372  | 354  | 371  |
| 75°  | 198  | 205  | 210  | 193  | 181  | 210  |
| 85°  | 44   | 49   | 49   | 44   | 36   | 52   |
| 90°  | 0    | 0    | 0    | 0    | 0    | 2    |
| 95°  | 7    | 10   | 30   | 71   | 67   | 9    |
| 105° | 44   | 112  | 221  | 151  | 162  | 51   |
| 115° | 401  | 1068 | 551  | 262  | 296  | 552  |
| 125° | 1600 | 1408 | 881  | 433  | 372  | 1406 |
| 135° | 1771 | 1603 | 1159 | 719  | 569  | 1365 |
| 145° | 1845 | 1727 | 1381 | 1022 | 871  | 1156 |
| 155° | 1866 | 1784 | 1542 | 1280 | 1162 | 862  |
| 165° | 1822 | 1782 | 1651 | 1480 | 1412 | 518  |
| 175° | 1717 | 1721 | 1691 | 1630 | 1586 | 166  |
| 180° | 1677 | 1677 | 1677 | 1677 | 1677 |      |



TEST NUMBER: P522471

CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1095.8 | 1095.8 | 1095.8 | 1095.8 | 1095.8 | 1095.8 | 1095.8 | 1095.8 | 1095.8 |
| 2.5°   | 1091.5 | 1094.8 | 1094.9 | 1095.1 | 1103.5 | 1094.3 | 1094.1 | 1093.9 | 1088.9 |
| 5°     | 1092.6 | 1092.6 | 1092.6 | 1090.7 | 1102.2 | 1089.6 | 1089.3 | 1087.2 | 1087.2 |
| 7.5°   | 1086.3 | 1084.5 | 1085.7 | 1083.4 | 1093.8 | 1080.2 | 1081.0 | 1078.6 | 1078.2 |
| 10°    | 1078.6 | 1077.6 | 1079.7 | 1075.7 | 1086.1 | 1072.5 | 1073.3 | 1070.0 | 1067.9 |
| 12.5°  | 1070.1 | 1069.0 | 1072.0 | 1066.2 | 1077.6 | 1063.9 | 1063.8 | 1059.8 | 1059.3 |
| 15°    | 1054.0 | 1054.0 | 1056.1 | 1052.1 | 1061.5 | 1047.9 | 1047.6 | 1043.2 | 1037.9 |
| 17.5°  | 1034.9 | 1032.6 | 1037.7 | 1031.1 | 1040.7 | 1025.4 | 1026.6 | 1020.2 | 1014.4 |
| 20°    | 1018.6 | 1015.5 | 1024.0 | 1015.7 | 1026.1 | 1008.3 | 1011.1 | 1001.4 | 997.2  |
| 22.5°  | 999.8  | 997.5  | 1006.9 | 999.4  | 1009.0 | 992.0  | 993.2  | 980.9  | 977.5  |
| 25°    | 970.4  | 969.4  | 980.1  | 971.7  | 981.2  | 963.4  | 964.0  | 951.1  | 946.9  |
| 27.5°  | 938.1  | 937.3  | 949.0  | 940.6  | 948.8  | 932.3  | 932.7  | 918.5  | 913.2  |
| 30°    | 915.8  | 915.8  | 927.6  | 919.2  | 926.5  | 910.8  | 910.5  | 895.3  | 890.1  |
| 32.5°  | 891.8  | 891.0  | 902.7  | 896.0  | 902.5  | 886.0  | 884.8  | 870.5  | 865.3  |
| 35°    | 853.7  | 853.7  | 865.5  | 858.1  | 864.4  | 849.7  | 846.2  | 832.2  | 828.0  |
| 37.5°  | 813.4  | 812.4  | 824.1  | 819.5  | 825.2  | 809.7  | 804.8  | 789.8  | 788.8  |
| 40°    | 785.1  | 784.1  | 795.9  | 793.8  | 796.9  | 782.3  | 776.6  | 761.5  | 756.2  |
| 42.5°  | 756.0  | 756.6  | 766.7  | 764.7  | 768.6  | 754.0  | 748.3  | 732.4  | 729.7  |
| 45°    | 711.2  | 710.2  | 720.9  | 719.9  | 725.2  | 710.5  | 703.7  | 686.5  | 684.5  |
| 47.5°  | 664.5  | 664.9  | 674.4  | 675.5  | 678.7  | 665.3  | 657.2  | 640.3  | 638.2  |
| 50°    | 632.0  | 634.1  | 642.7  | 643.8  | 647.0  | 634.4  | 625.5  | 609.4  | 607.3  |
| 52.5°  | 600.3  | 601.5  | 610.1  | 613.8  | 614.4  | 603.5  | 593.0  | 577.7  | 575.6  |
| 55°    | 549.5  | 552.6  | 560.2  | 564.5  | 565.6  | 556.1  | 544.1  | 529.1  | 525.9  |
| 57.5°  | 498.1  | 500.2  | 510.5  | 515.4  | 515.6  | 505.8  | 493.8  | 479.8  | 474.7  |
| 60°    | 463.8  | 465.9  | 474.5  | 482.0  | 483.1  | 471.6  | 459.5  | 445.5  | 441.3  |
| 62.5°  | 428.7  | 430.8  | 439.4  | 446.9  | 447.9  | 437.3  | 424.4  | 410.4  | 407.0  |
| 65°    | 374.9  | 377.0  | 385.6  | 394.2  | 395.2  | 384.8  | 371.7  | 357.7  | 354.5  |
| 67.5°  | 322.2  | 324.3  | 332.7  | 339.8  | 342.1  | 330.8  | 318.8  | 305.8  | 301.6  |
| 70°    | 287.1  | 289.2  | 296.7  | 302.1  | 305.3  | 294.8  | 282.8  | 269.8  | 265.6  |
| 72.5°  | 250.2  | 251.5  | 259.0  | 265.2  | 265.9  | 257.1  | 245.9  | 235.6  | 232.2  |
| 75°    | 198.2  | 200.3  | 204.6  | 211.0  | 209.9  | 201.6  | 192.8  | 185.2  | 181.0  |
| 77.5°  | 148.2  | 150.5  | 154.7  | 159.0  | 159.6  | 151.8  | 144.4  | 136.8  | 133.9  |
| 80°    | 115.7  | 118.8  | 122.1  | 126.4  | 125.3  | 120.1  | 113.5  | 106.0  | 103.9  |
| 82.5°  | 85.7   | 88.0   | 92.1   | 95.5   | 92.8   | 89.2   | 84.4   | 76.9   | 74.8   |
| 85°    | 43.9   | 45.0   | 49.3   | 52.4   | 49.3   | 48.2   | 43.9   | 38.5   | 36.4   |
| 87.5°  | 9.4    | 11.1   | 14.6   | 18.8   | 15.4   | 16.3   | 12.9   | 8.6    | 7.7    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 2.3    | 2.3    | 2.3    | 4.6    | 6.8    | 24.6   | 27.3   | 23.9   | 23.9   |
| 95°    | 7.1    | 7.1    | 10.0   | 31.3   | 29.9   | 50.8   | 71.2   | 66.9   | 66.9   |
| 97.5°  | 14.5   | 15.9   | 22.8   | 92.6   | 69.8   | 67.8   | 96.2   | 107.1  | 109.0  |
| 100°   | 21.4   | 22.7   | 34.2   | 151.2  | 103.9  | 88.6   | 105.3  | 125.4  | 129.5  |
| 102.5° | 29.3   | 31.8   | 54.7   | 237.9  | 146.1  | 104.0  | 120.1  | 137.9  | 143.2  |
| 105°   | 44.1   | 48.3   | 112.5  | 398.8  | 220.6  | 135.7  | 150.9  | 158.1  | 162.3  |
| 107.5° | 65.5   | 82.5   | 302.9  | 560.4  | 313.2  | 179.3  | 195.3  | 194.3  | 197.9  |
| 110°   | 88.3   | 123.1  | 523.9  | 648.8  | 381.5  | 213.1  | 213.5  | 224.8  | 220.6  |



TEST NUMBER: P522471

CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 146.3  | 244.6  | 781.2  | 733.8  | 449.8  | 253.6  | 230.6  | 255.7  | 257.1  |
| 115°   | 401.4  | 689.6  | 1067.7 | 853.0  | 550.9  | 325.4  | 261.9  | 286.4  | 296.1  |
| 117.5° | 995.3  | 1199.7 | 1214.3 | 958.7  | 651.7  | 405.6  | 297.8  | 308.6  | 321.4  |
| 120°   | 1349.5 | 1391.3 | 1282.6 | 1023.7 | 718.9  | 462.8  | 327.4  | 323.5  | 337.4  |
| 122.5° | 1488.5 | 1473.4 | 1338.4 | 1084.2 | 784.9  | 523.3  | 363.9  | 341.6  | 351.0  |
| 125°   | 1600.1 | 1561.1 | 1407.9 | 1167.9 | 881.2  | 613.9  | 432.8  | 371.5  | 371.5  |
| 127.5° | 1666.7 | 1621.3 | 1471.7 | 1242.2 | 968.0  | 705.5  | 515.6  | 420.2  | 407.1  |
| 130°   | 1705.4 | 1656.7 | 1510.4 | 1293.6 | 1024.9 | 764.7  | 573.7  | 462.2  | 441.3  |
| 132.5° | 1735.0 | 1690.7 | 1546.8 | 1333.8 | 1080.7 | 822.7  | 631.8  | 514.3  | 480.0  |
| 135°   | 1770.9 | 1733.3 | 1602.9 | 1395.4 | 1158.8 | 909.6  | 718.9  | 604.2  | 569.4  |
| 137.5° | 1793.9 | 1764.7 | 1653.3 | 1446.0 | 1231.1 | 995.8  | 806.9  | 691.7  | 660.2  |
| 140°   | 1806.5 | 1782.8 | 1678.4 | 1475.9 | 1275.5 | 1051.4 | 868.4  | 751.0  | 721.7  |
| 142.5° | 1819.0 | 1799.8 | 1696.6 | 1509.2 | 1318.8 | 1106.9 | 928.7  | 811.3  | 779.8  |
| 145°   | 1844.9 | 1822.6 | 1726.8 | 1549.3 | 1380.8 | 1184.6 | 1022.1 | 899.0  | 871.2  |
| 147.5° | 1863.1 | 1836.4 | 1751.5 | 1592.3 | 1439.5 | 1254.9 | 1107.8 | 989.0  | 961.5  |
| 150°   | 1867.7 | 1839.8 | 1765.2 | 1615.4 | 1474.8 | 1298.0 | 1160.2 | 1047.1 | 1020.7 |
| 152.5° | 1864.3 | 1843.1 | 1775.4 | 1635.0 | 1504.4 | 1339.9 | 1208.0 | 1103.0 | 1078.8 |
| 155°   | 1866.3 | 1846.8 | 1783.7 | 1661.4 | 1541.7 | 1398.3 | 1279.8 | 1186.7 | 1161.6 |
| 157.5° | 1857.7 | 1844.9 | 1789.4 | 1681.6 | 1576.1 | 1450.6 | 1345.5 | 1267.2 | 1241.9 |
| 160°   | 1857.7 | 1838.2 | 1789.4 | 1693.3 | 1600.1 | 1484.5 | 1386.5 | 1316.3 | 1295.4 |
| 162.5° | 1845.2 | 1827.9 | 1788.2 | 1701.6 | 1622.8 | 1516.2 | 1425.2 | 1359.7 | 1344.4 |
| 165°   | 1822.1 | 1808.2 | 1782.3 | 1712.5 | 1651.3 | 1559.4 | 1480.5 | 1421.9 | 1412.1 |
| 167.5° | 1804.2 | 1785.0 | 1770.9 | 1712.1 | 1670.7 | 1590.5 | 1527.2 | 1478.6 | 1473.1 |
| 170°   | 1783.7 | 1771.2 | 1759.5 | 1709.0 | 1679.8 | 1613.0 | 1560.2 | 1511.7 | 1506.1 |
| 172.5° | 1757.5 | 1750.5 | 1744.7 | 1706.9 | 1685.5 | 1632.0 | 1588.7 | 1544.6 | 1534.6 |
| 175°   | 1716.8 | 1722.4 | 1721.1 | 1702.3 | 1691.2 | 1656.4 | 1630.0 | 1598.3 | 1585.8 |
| 177.5° | 1691.7 | 1689.5 | 1695.1 | 1691.7 | 1690.6 | 1669.4 | 1662.1 | 1640.6 | 1647.3 |
| 180°   | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 |

(END OF REPORT)