

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: P522459

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522459  
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-050D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

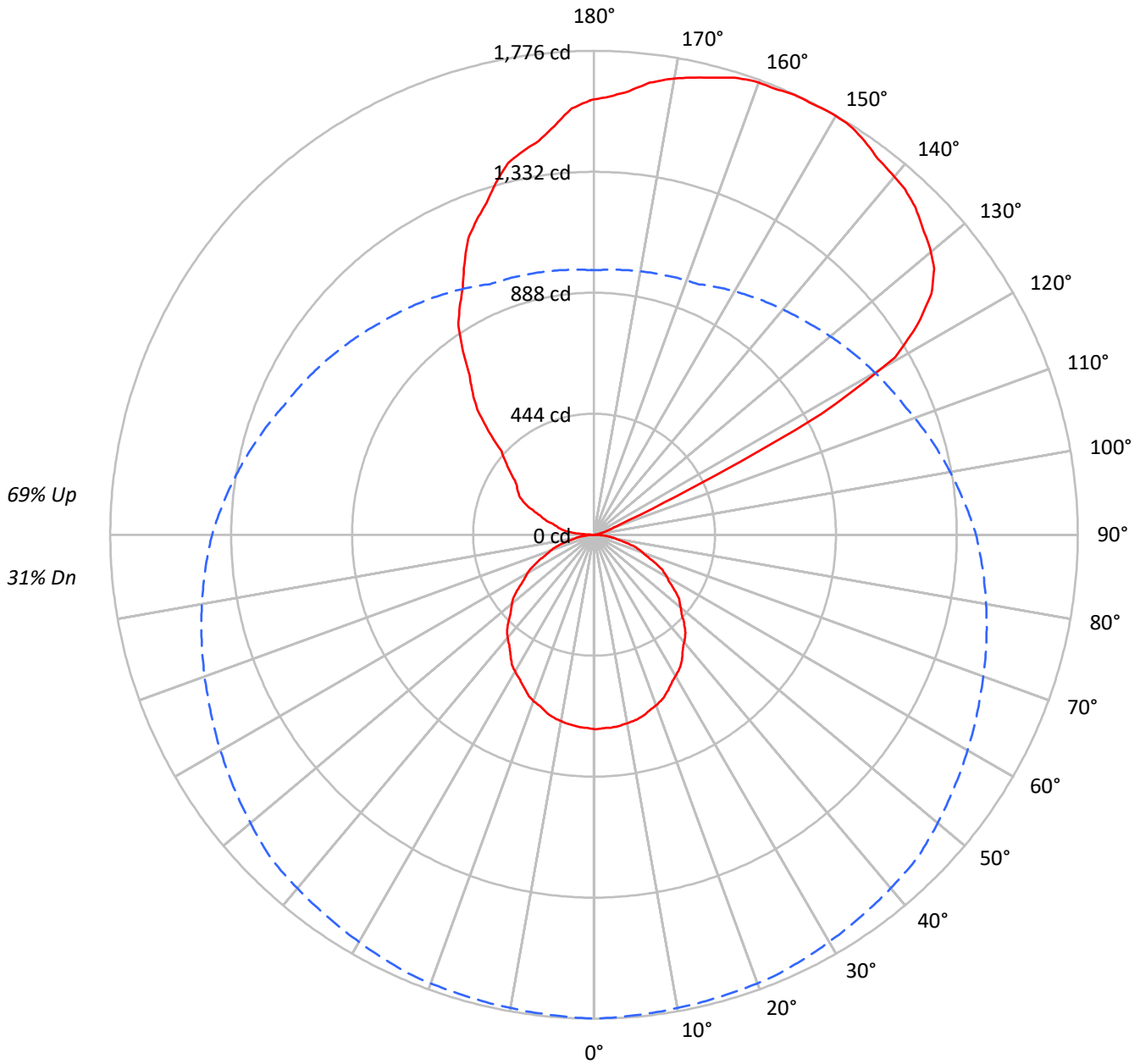
Lumens per Lamp: N/A  
Luminaire Lumens: 6440.1 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 56.7  
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: P522459  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral      - - - Horizontal Cone Through 150° Vertical



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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1   | 93  | 89  | 85  | 82  | 84 | 80 | 77 | 74 | 64 | 61 | 59 | 48 | 47 | 45 | 34 | 33 | 32 | 26 |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 56 | 52 | 49 | 42 | 40 | 38 | 30 | 28 | 27 | 22 |
| 3   | 77  | 68  | 61  | 55  | 69 | 62 | 55 | 51 | 49 | 45 | 41 | 37 | 34 | 32 | 26 | 25 | 23 | 18 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 39 | 35 | 33 | 30 | 27 | 23 | 21 | 20 | 15 |
| 5   | 65  | 53  | 46  | 40  | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 29 | 26 | 23 | 21 | 19 | 17 | 13 |
| 6   | 60  | 48  | 40  | 34  | 53 | 43 | 36 | 31 | 35 | 30 | 26 | 27 | 23 | 20 | 19 | 17 | 15 | 12 |
| 7   | 55  | 43  | 35  | 30  | 49 | 39 | 32 | 27 | 31 | 26 | 23 | 24 | 21 | 18 | 17 | 15 | 13 | 10 |
| 8   | 51  | 39  | 31  | 26  | 46 | 35 | 29 | 24 | 28 | 23 | 20 | 22 | 18 | 16 | 16 | 14 | 12 | 9  |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 26 | 21 | 26 | 21 | 18 | 20 | 17 | 14 | 15 | 12 | 11 | 8  |
| 10  | 44  | 32  | 25  | 21  | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 11 | 10 | 8  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 11525 | 11525 | 11525 |
| 5°  | 11520 | 11635 | 11470 |
| 10° | 11503 | 11619 | 11419 |
| 15° | 11488 | 11557 | 11336 |
| 20° | 11407 | 11495 | 11198 |
| 25° | 11266 | 11375 | 11011 |
| 30° | 11106 | 11257 | 10860 |
| 35° | 10979 | 11119 | 10657 |
| 40° | 10775 | 10966 | 10473 |
| 45° | 10579 | 10812 | 10229 |
| 50° | 10309 | 10615 | 9975  |
| 55° | 10089 | 10376 | 9602  |
| 60° | 9801  | 10162 | 9239  |
| 65° | 9261  | 9727  | 8714  |
| 70° | 8748  | 9276  | 8124  |
| 75° | 8066  | 8515  | 7430  |
| 80° | 7011  | 7476  | 6248  |
| 85° | 5280  | 5854  | 4724  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.5   | 1.0       |
| 10°-20°   | 193.0  | 3.0       |
| 20°-30°   | 290.3  | 4.5       |
| 30°-40°   | 346.6  | 5.4       |
| 40°-50°   | 356.5  | 5.5       |
| 50°-60°   | 320.8  | 5.0       |
| 60°-70°   | 242.6  | 3.8       |
| 70°-80°   | 138.0  | 2.1       |
| 80°-90°   | 36.5   | 0.6       |
| 90°-100°  | 41.9   | 0.7       |
| 100°-110° | 181.5  | 2.8       |
| 110°-120° | 517.4  | 8.0       |
| 120°-130° | 786.8  | 12.2      |
| 130°-140° | 850.9  | 13.2      |
| 140°-150° | 813.1  | 12.6      |
| 150°-160° | 668.7  | 10.4      |
| 160°-170° | 437.0  | 6.8       |
| 170°-180° | 151.1  | 2.3       |
| 0°-30°    | 550.8  | 8.6       |
| 0°-40°    | 897.4  | 13.9      |
| 0°-60°    | 1574.7 | 24.5      |
| 0°-90°    | 1991.7 | 30.9      |
| 90°-120°  | 740.8  | 11.5      |
| 90°-150°  | 3191.6 | 49.6      |
| 90°-180°  | 4448.0 | 69.1      |
| 0°-180°   | 6440.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 714  | 714  | 714  | 714  | 714  |      |
| 5°   | 711  | 711  | 718  | 711  | 708  | 68   |
| 15°  | 687  | 688  | 691  | 683  | 678  | 194  |
| 25°  | 632  | 638  | 638  | 629  | 618  | 291  |
| 35°  | 557  | 563  | 564  | 552  | 541  | 347  |
| 45°  | 463  | 469  | 474  | 458  | 448  | 357  |
| 55°  | 358  | 366  | 369  | 354  | 341  | 320  |
| 65°  | 242  | 250  | 255  | 239  | 228  | 241  |
| 75°  | 129  | 133  | 136  | 126  | 119  | 137  |
| 85°  | 28   | 33   | 32   | 28   | 26   | 34   |
| 90°  | 0    | 0    | 0    | 0    | 0    | 1    |
| 95°  | 7    | 10   | 28   | 68   | 64   | 9    |
| 105° | 42   | 107  | 210  | 144  | 154  | 48   |
| 115° | 382  | 1015 | 524  | 249  | 282  | 525  |
| 125° | 1521 | 1338 | 838  | 411  | 353  | 1337 |
| 135° | 1684 | 1524 | 1102 | 683  | 541  | 1298 |
| 145° | 1754 | 1642 | 1313 | 972  | 828  | 1099 |
| 155° | 1774 | 1696 | 1466 | 1217 | 1104 | 820  |
| 165° | 1732 | 1694 | 1570 | 1407 | 1342 | 492  |
| 175° | 1632 | 1636 | 1608 | 1550 | 1508 | 158  |
| 180° | 1594 | 1594 | 1594 | 1594 | 1594 |      |



TEST NUMBER: P522459

CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°     | 713.8 | 713.8 | 713.8 | 713.8 | 713.8 | 713.8  | 713.8 | 713.8  | 713.8 |
| 2.5°   | 710.6 | 713.0 | 713.0 | 712.3 | 718.7 | 712.3  | 713.8 | 712.1  | 709.8 |
| 5°     | 710.8 | 710.8 | 710.8 | 709.9 | 717.9 | 708.9  | 710.8 | 707.7  | 707.7 |
| 7.5°   | 706.5 | 706.7 | 707.5 | 704.9 | 713.6 | 703.7  | 705.5 | 702.2  | 703.0 |
| 10°    | 701.6 | 702.6 | 702.6 | 700.8 | 708.7 | 698.8  | 700.6 | 696.5  | 696.5 |
| 12.5°  | 696.7 | 696.9 | 697.7 | 695.1 | 703.0 | 692.3  | 694.1 | 690.0  | 689.2 |
| 15°    | 687.3 | 687.3 | 688.4 | 684.5 | 691.4 | 681.5  | 683.3 | 678.2  | 678.2 |
| 17.5°  | 673.7 | 673.5 | 675.9 | 670.8 | 678.0 | 666.8  | 670.4 | 664.1  | 662.3 |
| 20°    | 663.9 | 662.9 | 667.0 | 661.1 | 669.0 | 657.1  | 659.9 | 652.7  | 651.7 |
| 22.5°  | 651.7 | 650.7 | 656.4 | 650.4 | 657.6 | 645.7  | 648.4 | 638.9  | 638.7 |
| 25°    | 632.4 | 631.4 | 638.5 | 632.5 | 638.5 | 627.5  | 629.3 | 619.1  | 618.1 |
| 27.5°  | 610.4 | 610.4 | 618.7 | 611.7 | 618.5 | 607.6  | 608.3 | 597.9  | 597.9 |
| 30°    | 595.7 | 595.7 | 604.9 | 597.9 | 603.8 | 592.9  | 593.7 | 582.5  | 582.5 |
| 32.5°  | 580.2 | 580.2 | 587.8 | 582.4 | 588.4 | 577.4  | 577.4 | 566.2  | 566.2 |
| 35°    | 557.0 | 555.0 | 563.1 | 558.2 | 564.1 | 553.2  | 551.9 | 540.7  | 540.7 |
| 37.5°  | 529.1 | 528.1 | 537.0 | 533.5 | 538.3 | 527.5  | 524.6 | 513.9  | 514.8 |
| 40°    | 511.2 | 510.2 | 518.3 | 516.4 | 520.3 | 510.4  | 505.1 | 495.9  | 496.9 |
| 42.5°  | 492.4 | 490.7 | 498.8 | 497.6 | 501.6 | 491.7  | 487.2 | 477.2  | 477.4 |
| 45°    | 463.3 | 463.3 | 469.4 | 469.5 | 473.5 | 462.6  | 458.2 | 448.0  | 448.0 |
| 47.5°  | 432.4 | 432.6 | 438.9 | 439.2 | 443.0 | 433.4  | 428.7 | 417.7  | 417.5 |
| 50°    | 410.4 | 411.4 | 418.5 | 419.6 | 422.6 | 414.6  | 408.3 | 398.1  | 397.1 |
| 52.5°  | 391.6 | 390.2 | 397.3 | 399.2 | 401.4 | 393.4  | 387.2 | 376.9  | 376.0 |
| 55°    | 358.4 | 359.4 | 365.6 | 368.6 | 368.6 | 361.7  | 354.4 | 344.1  | 341.1 |
| 57.5°  | 325.4 | 326.8 | 331.8 | 335.7 | 336.6 | 328.9  | 321.4 | 312.1  | 308.1 |
| 60°    | 303.5 | 302.5 | 310.6 | 313.7 | 314.7 | 307.7  | 299.4 | 290.1  | 286.1 |
| 62.5°  | 279.8 | 280.4 | 286.1 | 290.8 | 291.8 | 284.1  | 276.6 | 264.9  | 261.7 |
| 65°    | 242.4 | 245.3 | 249.5 | 252.6 | 254.6 | 248.6  | 239.3 | 230.1  | 228.1 |
| 67.5°  | 208.1 | 210.1 | 214.2 | 219.0 | 220.2 | 213.4  | 205.1 | 197.1  | 194.9 |
| 70°    | 185.3 | 187.3 | 191.4 | 194.5 | 196.5 | 190.6  | 182.3 | 175.1  | 172.1 |
| 72.5°  | 162.5 | 164.5 | 167.8 | 170.9 | 172.9 | 166.9  | 159.5 | 153.1  | 150.9 |
| 75°    | 129.3 | 131.3 | 133.4 | 135.5 | 136.5 | 132.5  | 126.3 | 120.1  | 119.1 |
| 77.5°  | 96.5  | 98.5  | 100.8 | 103.4 | 102.4 | 99.7   | 93.7  | 89.6   | 88.4  |
| 80°    | 75.4  | 77.3  | 80.4  | 81.4  | 80.4  | 78.5   | 73.3  | 69.2   | 67.2  |
| 82.5°  | 55.8  | 57.8  | 60.9  | 61.1  | 59.3  | 58.9   | 54.6  | 51.3   | 50.1  |
| 85°    | 28.5  | 30.5  | 32.6  | 33.6  | 31.6  | 31.6   | 28.5  | 25.5   | 25.5  |
| 87.5°  | 5.7   | 7.3   | 9.8   | 12.2  | 9.8   | 10.6   | 8.1   | 5.7    | 5.7   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 92.5°  | 2.2   | 2.2   | 2.2   | 4.4   | 6.5   | 23.4   | 26.0  | 22.7   | 22.7  |
| 95°    | 6.8   | 6.8   | 9.5   | 29.7  | 28.4  | 48.3   | 67.7  | 63.6   | 63.6  |
| 97.5°  | 13.8  | 15.1  | 21.7  | 88.0  | 66.3  | 64.5   | 91.5  | 101.8  | 103.7 |
| 100°   | 20.3  | 21.6  | 32.5  | 143.8 | 98.8  | 84.2   | 100.1 | 119.2  | 123.2 |
| 102.5° | 27.9  | 30.3  | 52.0  | 226.2 | 138.9 | 98.9   | 114.2 | 131.1  | 136.1 |
| 105°   | 42.0  | 45.9  | 106.9 | 379.1 | 209.8 | 129.0  | 143.5 | 150.3  | 154.3 |
| 107.5° | 62.3  | 78.4  | 288.0 | 532.7 | 297.7 | 170.4  | 185.7 | 184.7  | 188.1 |
| 110°   | 83.9  | 117.0 | 498.0 | 616.8 | 362.7 | 202.6  | 203.0 | 213.7  | 209.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 139.1  | 232.5  | 742.7  | 697.6  | 427.6  | 241.1  | 219.2  | 243.1  | 244.4  |
| 115°   | 381.6  | 655.5  | 1015.0 | 810.9  | 523.7  | 309.4  | 249.0  | 272.2  | 281.5  |
| 117.5° | 946.2  | 1140.5 | 1154.4 | 911.5  | 619.5  | 385.6  | 283.1  | 293.4  | 305.6  |
| 120°   | 1282.9 | 1322.6 | 1219.3 | 973.2  | 683.4  | 439.9  | 311.3  | 307.5  | 320.7  |
| 122.5° | 1415.0 | 1400.7 | 1272.4 | 1030.7 | 746.2  | 497.4  | 345.9  | 324.7  | 333.7  |
| 125°   | 1521.1 | 1484.1 | 1338.4 | 1110.3 | 837.7  | 583.6  | 411.4  | 353.2  | 353.2  |
| 127.5° | 1584.5 | 1541.3 | 1399.1 | 1180.9 | 920.3  | 670.7  | 490.2  | 399.5  | 387.0  |
| 130°   | 1621.3 | 1575.0 | 1435.9 | 1229.8 | 974.4  | 726.9  | 545.4  | 439.4  | 419.5  |
| 132.5° | 1649.4 | 1607.3 | 1470.5 | 1268.0 | 1027.4 | 782.1  | 600.6  | 488.9  | 456.3  |
| 135°   | 1683.5 | 1647.8 | 1523.8 | 1326.6 | 1101.6 | 864.7  | 683.4  | 574.4  | 541.3  |
| 137.5° | 1705.4 | 1677.7 | 1571.7 | 1374.7 | 1170.3 | 946.7  | 767.1  | 657.6  | 627.7  |
| 140°   | 1717.4 | 1694.9 | 1595.6 | 1403.1 | 1212.6 | 999.5  | 825.5  | 713.9  | 686.1  |
| 142.5° | 1729.3 | 1711.0 | 1612.9 | 1434.7 | 1253.7 | 1052.3 | 882.9  | 771.3  | 741.3  |
| 145°   | 1753.9 | 1732.7 | 1641.6 | 1472.8 | 1312.7 | 1126.1 | 971.7  | 854.7  | 828.2  |
| 147.5° | 1771.2 | 1745.8 | 1665.1 | 1513.8 | 1368.5 | 1193.0 | 1053.2 | 940.2  | 914.0  |
| 150°   | 1775.6 | 1749.1 | 1678.1 | 1535.7 | 1402.0 | 1234.0 | 1103.0 | 995.5  | 970.3  |
| 152.5° | 1772.3 | 1752.2 | 1687.9 | 1554.3 | 1430.2 | 1273.8 | 1148.4 | 1048.6 | 1025.5 |
| 155°   | 1774.2 | 1755.7 | 1695.7 | 1579.4 | 1465.6 | 1329.3 | 1216.6 | 1128.1 | 1104.3 |
| 157.5° | 1766.1 | 1753.9 | 1701.1 | 1598.7 | 1498.4 | 1379.0 | 1279.2 | 1204.7 | 1180.6 |
| 160°   | 1766.1 | 1747.6 | 1701.1 | 1609.8 | 1521.1 | 1411.3 | 1318.1 | 1251.4 | 1231.5 |
| 162.5° | 1754.2 | 1737.8 | 1700.0 | 1617.7 | 1542.8 | 1441.4 | 1354.9 | 1292.6 | 1278.1 |
| 165°   | 1732.2 | 1719.0 | 1694.4 | 1628.1 | 1569.8 | 1482.5 | 1407.4 | 1351.8 | 1342.5 |
| 167.5° | 1715.2 | 1696.9 | 1683.5 | 1627.7 | 1588.3 | 1512.0 | 1451.8 | 1405.7 | 1400.4 |
| 170°   | 1695.7 | 1683.8 | 1672.7 | 1624.7 | 1596.9 | 1533.4 | 1483.2 | 1437.1 | 1431.8 |
| 172.5° | 1670.8 | 1664.2 | 1658.6 | 1622.7 | 1602.3 | 1551.5 | 1510.3 | 1468.4 | 1458.9 |
| 175°   | 1632.1 | 1637.4 | 1636.2 | 1618.3 | 1607.7 | 1574.7 | 1549.5 | 1519.5 | 1507.6 |
| 177.5° | 1608.3 | 1606.2 | 1611.5 | 1608.3 | 1607.2 | 1587.1 | 1580.1 | 1559.7 | 1566.1 |
| 180°   | 1594.2 | 1594.2 | 1594.2 | 1594.2 | 1594.2 | 1594.2 | 1594.2 | 1594.2 | 1594.2 |

(END OF REPORT)