

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: P522470

Luminaire Tested: **SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522470  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

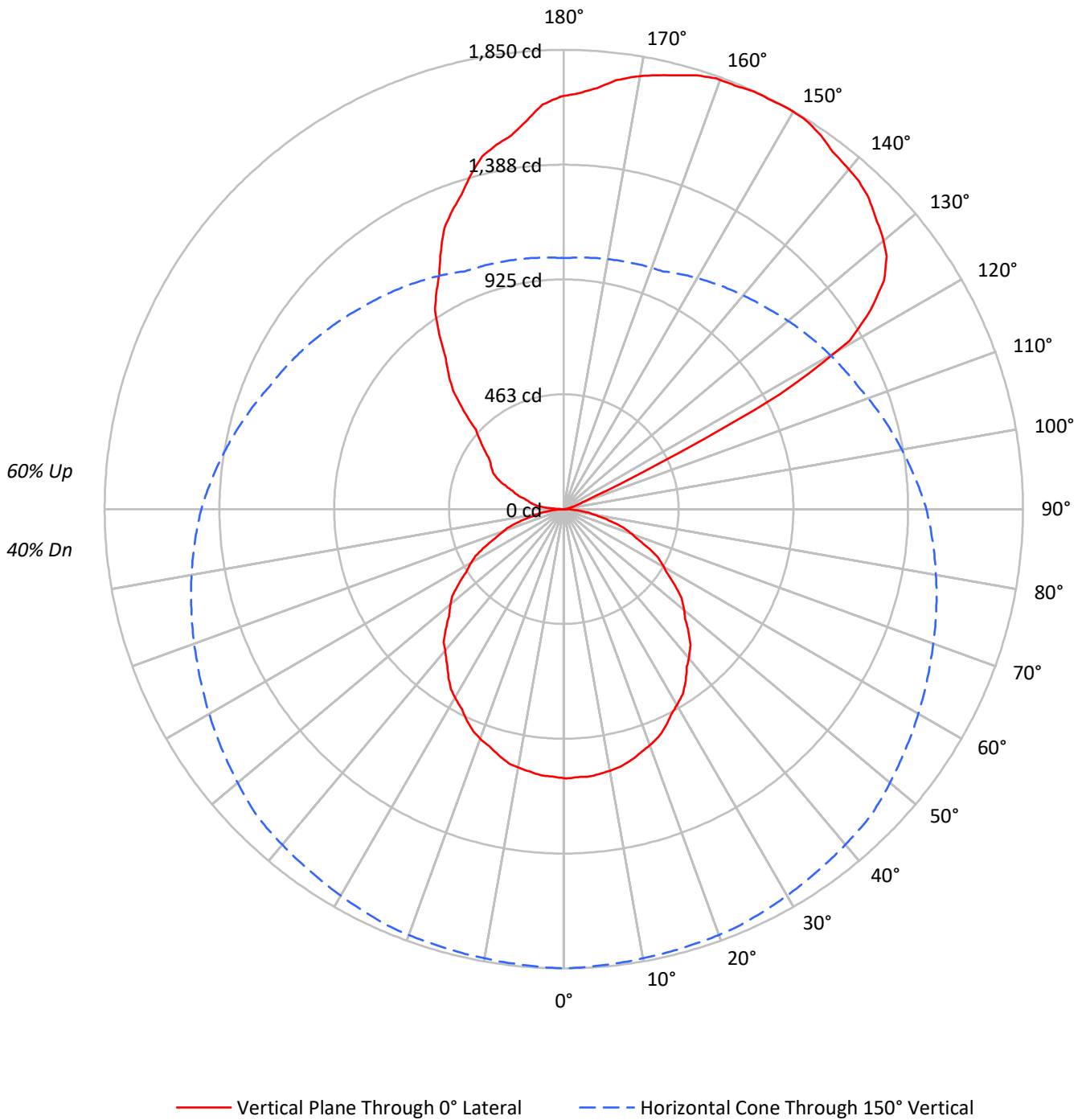
Lumens per Lamp: N/A  
Luminaire Lumens: 7666.2 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 67  
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: P522470  
CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522470

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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   | 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°  | 17526 | 17526 | 17526 |
| 5°  | 17541 | 17695 | 17455 |
| 10° | 17518 | 17639 | 17344 |
| 15° | 17453 | 17576 | 17187 |
| 20° | 17338 | 17466 | 16974 |
| 25° | 17126 | 17314 | 16710 |
| 30° | 16913 | 17111 | 16438 |
| 35° | 16669 | 16878 | 16166 |
| 40° | 16394 | 16638 | 15789 |
| 45° | 16089 | 16401 | 15481 |
| 50° | 15724 | 16098 | 15111 |
| 55° | 15322 | 15769 | 14666 |
| 60° | 14835 | 15452 | 14118 |
| 65° | 14189 | 14957 | 13417 |
| 70° | 13426 | 14275 | 12420 |
| 75° | 12246 | 12976 | 11185 |
| 80° | 10656 | 11539 | 9568  |
| 85° | 8058  | 9040  | 6688  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.7  | 1.3       |
| 10°-20°   | 293.4  | 3.8       |
| 20°-30°   | 441.3  | 5.8       |
| 30°-40°   | 527.1  | 6.9       |
| 40°-50°   | 541.9  | 7.1       |
| 50°-60°   | 487.7  | 6.4       |
| 60°-70°   | 371.2  | 4.8       |
| 70°-80°   | 210.3  | 2.7       |
| 80°-90°   | 55.3   | 0.7       |
| 90°-100°  | 43.7   | 0.6       |
| 100°-110° | 189.1  | 2.5       |
| 110°-120° | 539.2  | 7.0       |
| 120°-130° | 819.8  | 10.7      |
| 130°-140° | 886.7  | 11.6      |
| 140°-150° | 847.2  | 11.1      |
| 150°-160° | 696.8  | 9.1       |
| 160°-170° | 455.3  | 5.9       |
| 170°-180° | 157.5  | 2.1       |
| 0°-30°    | 837.4  | 10.9      |
| 0°-40°    | 1364.5 | 17.8      |
| 0°-60°    | 2394.1 | 31.2      |
| 0°-90°    | 3030.9 | 39.5      |
| 90°-120°  | 771.9  | 10.1      |
| 90°-150°  | 3325.7 | 43.4      |
| 90°-180°  | 4635.0 | 60.5      |
| 0°-180°   | 7666.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1086 | 1086 | 1086 | 1086 | 1086 |      |
| 5°   | 1082 | 1082 | 1092 | 1079 | 1077 | 103  |
| 15°  | 1044 | 1046 | 1052 | 1038 | 1028 | 294  |
| 25°  | 961  | 971  | 972  | 955  | 938  | 443  |
| 35°  | 846  | 857  | 856  | 838  | 820  | 529  |
| 45°  | 705  | 714  | 718  | 697  | 678  | 543  |
| 55°  | 544  | 555  | 560  | 539  | 521  | 486  |
| 65°  | 371  | 382  | 392  | 368  | 351  | 368  |
| 75°  | 196  | 203  | 208  | 191  | 179  | 208  |
| 85°  | 44   | 49   | 49   | 44   | 36   | 52   |
| 90°  | 0    | 0    | 0    | 0    | 0    | 2    |
| 95°  | 7    | 10   | 30   | 70   | 66   | 9    |
| 105° | 44   | 111  | 219  | 150  | 161  | 50   |
| 115° | 398  | 1058 | 546  | 260  | 293  | 547  |
| 125° | 1585 | 1395 | 873  | 429  | 368  | 1393 |
| 135° | 1754 | 1588 | 1148 | 712  | 564  | 1352 |
| 145° | 1828 | 1710 | 1368 | 1012 | 863  | 1145 |
| 155° | 1849 | 1767 | 1527 | 1268 | 1151 | 854  |
| 165° | 1805 | 1766 | 1636 | 1467 | 1399 | 513  |
| 175° | 1701 | 1705 | 1675 | 1615 | 1571 | 165  |
| 180° | 1661 | 1661 | 1661 | 1661 | 1661 |      |



TEST NUMBER: P522470

CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1085.5 | 1085.5 | 1085.5 | 1085.5 | 1085.5 | 1085.5 | 1085.5 | 1085.5 | 1085.5 |
| 2.5°   | 1081.2 | 1084.6 | 1084.6 | 1084.8 | 1093.1 | 1084.0 | 1083.8 | 1083.7 | 1078.7 |
| 5°     | 1082.3 | 1082.3 | 1082.3 | 1080.4 | 1091.8 | 1079.4 | 1079.1 | 1077.0 | 1077.0 |
| 7.5°   | 1076.1 | 1074.3 | 1075.5 | 1073.2 | 1083.6 | 1070.1 | 1070.8 | 1068.5 | 1068.1 |
| 10°    | 1068.5 | 1067.5 | 1069.6 | 1065.5 | 1075.9 | 1062.4 | 1063.2 | 1060.0 | 1057.9 |
| 12.5°  | 1060.0 | 1059.0 | 1061.9 | 1056.2 | 1067.4 | 1053.9 | 1053.9 | 1049.8 | 1049.4 |
| 15°    | 1044.1 | 1044.1 | 1046.2 | 1042.2 | 1051.5 | 1038.0 | 1037.7 | 1033.4 | 1028.2 |
| 17.5°  | 1025.2 | 1022.9 | 1028.0 | 1021.4 | 1030.9 | 1015.8 | 1016.9 | 1010.6 | 1004.8 |
| 20°    | 1009.1 | 1006.0 | 1014.4 | 1006.1 | 1016.5 | 998.9  | 1001.6 | 992.0  | 987.9  |
| 22.5°  | 990.4  | 988.1  | 997.4  | 990.0  | 999.5  | 982.7  | 983.8  | 971.7  | 968.3  |
| 25°    | 961.3  | 960.3  | 970.9  | 962.6  | 971.9  | 954.3  | 955.0  | 942.1  | 938.0  |
| 27.5°  | 929.3  | 928.5  | 940.1  | 931.8  | 939.9  | 923.5  | 924.0  | 909.9  | 904.7  |
| 30°    | 907.2  | 907.2  | 918.9  | 910.6  | 917.8  | 902.3  | 901.9  | 886.9  | 881.7  |
| 32.5°  | 883.4  | 882.6  | 894.3  | 887.6  | 894.1  | 877.7  | 876.4  | 862.3  | 857.1  |
| 35°    | 845.7  | 845.7  | 857.3  | 850.1  | 856.3  | 841.8  | 838.2  | 824.4  | 820.2  |
| 37.5°  | 805.8  | 804.7  | 816.4  | 811.8  | 817.4  | 802.1  | 797.3  | 782.4  | 781.4  |
| 40°    | 777.8  | 776.7  | 788.4  | 786.3  | 789.4  | 774.9  | 769.3  | 754.3  | 749.1  |
| 42.5°  | 748.9  | 749.5  | 759.5  | 757.5  | 761.4  | 746.9  | 741.3  | 725.5  | 722.8  |
| 45°    | 704.6  | 703.5  | 714.1  | 713.2  | 718.3  | 703.8  | 697.1  | 680.1  | 678.0  |
| 47.5°  | 658.3  | 658.7  | 668.0  | 669.2  | 672.3  | 659.0  | 651.1  | 634.3  | 632.2  |
| 50°    | 626.0  | 628.1  | 636.6  | 637.8  | 640.9  | 628.4  | 619.7  | 603.7  | 601.6  |
| 52.5°  | 594.6  | 595.9  | 604.4  | 608.0  | 608.6  | 597.8  | 587.4  | 572.3  | 570.2  |
| 55°    | 544.3  | 547.4  | 554.9  | 559.2  | 560.2  | 550.9  | 539.0  | 524.1  | 521.0  |
| 57.5°  | 493.4  | 495.5  | 505.7  | 510.6  | 510.8  | 501.0  | 489.2  | 475.2  | 470.3  |
| 60°    | 459.4  | 461.5  | 470.1  | 477.5  | 478.5  | 467.1  | 455.2  | 441.3  | 437.2  |
| 62.5°  | 424.6  | 426.7  | 435.3  | 442.7  | 443.7  | 433.2  | 420.4  | 406.5  | 403.2  |
| 65°    | 371.4  | 373.4  | 382.0  | 390.5  | 391.5  | 381.2  | 368.2  | 354.3  | 351.2  |
| 67.5°  | 319.2  | 321.2  | 329.6  | 336.6  | 338.9  | 327.7  | 315.8  | 302.9  | 298.8  |
| 70°    | 284.4  | 286.4  | 293.9  | 299.3  | 302.4  | 292.0  | 280.1  | 267.3  | 263.1  |
| 72.5°  | 247.9  | 249.1  | 256.6  | 262.7  | 263.4  | 254.6  | 243.6  | 233.4  | 230.0  |
| 75°    | 196.3  | 198.4  | 202.7  | 209.0  | 208.0  | 199.7  | 191.0  | 183.5  | 179.3  |
| 77.5°  | 146.9  | 149.1  | 153.2  | 157.5  | 158.1  | 150.4  | 143.0  | 135.5  | 132.6  |
| 80°    | 114.6  | 117.7  | 121.0  | 125.2  | 124.1  | 119.0  | 112.5  | 105.0  | 102.9  |
| 82.5°  | 84.9   | 87.2   | 91.3   | 94.6   | 91.9   | 88.4   | 83.6   | 76.1   | 74.1   |
| 85°    | 43.5   | 44.5   | 48.8   | 51.9   | 48.8   | 47.8   | 43.5   | 38.2   | 36.1   |
| 87.5°  | 9.3    | 11.0   | 14.4   | 18.6   | 15.3   | 16.1   | 12.7   | 8.5    | 7.6    |
| 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    | 24.4   | 27.1   | 23.7   | 23.7   |
| 95°    | 7.1    | 7.1    | 9.9    | 31.0   | 29.6   | 50.3   | 70.5   | 66.3   | 66.3   |
| 97.5°  | 14.4   | 15.8   | 22.6   | 91.7   | 69.1   | 67.2   | 95.3   | 106.1  | 108.0  |
| 100°   | 21.2   | 22.5   | 33.8   | 149.8  | 102.9  | 87.8   | 104.4  | 124.2  | 128.3  |
| 102.5° | 29.0   | 31.5   | 54.2   | 235.7  | 144.7  | 103.0  | 119.0  | 136.6  | 141.9  |
| 105°   | 43.7   | 47.9   | 111.4  | 395.1  | 218.6  | 134.5  | 149.5  | 156.6  | 160.8  |
| 107.5° | 64.9   | 81.7   | 300.1  | 555.1  | 310.2  | 177.6  | 193.5  | 192.4  | 196.0  |
| 110°   | 87.4   | 121.9  | 518.9  | 642.7  | 377.9  | 211.1  | 211.5  | 222.7  | 218.6  |



TEST NUMBER: P522470

CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 145.0  | 242.3  | 773.9  | 726.9  | 445.6  | 251.2  | 228.4  | 253.3  | 254.7  |
| 115°   | 397.7  | 683.1  | 1057.6 | 844.9  | 545.7  | 322.4  | 259.5  | 283.7  | 293.3  |
| 117.5° | 986.0  | 1188.4 | 1202.9 | 949.7  | 645.6  | 401.8  | 295.0  | 305.7  | 318.4  |
| 120°   | 1336.8 | 1378.2 | 1270.6 | 1014.1 | 712.1  | 458.4  | 324.3  | 320.4  | 334.2  |
| 122.5° | 1474.5 | 1459.6 | 1325.8 | 1074.0 | 777.6  | 518.3  | 360.4  | 338.4  | 347.7  |
| 125°   | 1585.0 | 1546.4 | 1394.7 | 1156.9 | 872.9  | 608.2  | 428.7  | 368.1  | 368.1  |
| 127.5° | 1651.0 | 1606.1 | 1457.8 | 1230.5 | 958.9  | 698.9  | 510.8  | 416.3  | 403.3  |
| 130°   | 1689.4 | 1641.1 | 1496.2 | 1281.4 | 1015.3 | 757.5  | 568.3  | 457.8  | 437.2  |
| 132.5° | 1718.7 | 1674.9 | 1532.3 | 1321.3 | 1070.6 | 815.0  | 625.8  | 509.4  | 475.5  |
| 135°   | 1754.2 | 1717.0 | 1587.8 | 1382.3 | 1147.9 | 901.1  | 712.1  | 598.5  | 564.1  |
| 137.5° | 1777.1 | 1748.1 | 1637.8 | 1432.4 | 1219.5 | 986.5  | 799.3  | 685.2  | 654.0  |
| 140°   | 1789.5 | 1766.1 | 1662.6 | 1462.1 | 1263.5 | 1041.5 | 860.2  | 743.9  | 715.0  |
| 142.5° | 1801.9 | 1782.9 | 1680.6 | 1495.0 | 1306.4 | 1096.5 | 920.0  | 803.7  | 772.5  |
| 145°   | 1827.6 | 1805.5 | 1710.5 | 1534.7 | 1367.9 | 1173.4 | 1012.5 | 890.6  | 863.0  |
| 147.5° | 1845.6 | 1819.2 | 1735.1 | 1577.4 | 1426.0 | 1243.1 | 1097.4 | 979.7  | 952.4  |
| 150°   | 1850.1 | 1822.6 | 1748.6 | 1600.2 | 1460.9 | 1285.8 | 1149.3 | 1037.3 | 1011.1 |
| 152.5° | 1846.8 | 1825.8 | 1758.8 | 1619.6 | 1490.3 | 1327.3 | 1196.7 | 1092.6 | 1068.6 |
| 155°   | 1848.7 | 1829.4 | 1766.9 | 1645.8 | 1527.2 | 1385.2 | 1267.7 | 1175.5 | 1150.7 |
| 157.5° | 1840.3 | 1827.6 | 1772.6 | 1665.9 | 1561.3 | 1437.0 | 1332.9 | 1255.3 | 1230.2 |
| 160°   | 1840.3 | 1821.0 | 1772.6 | 1677.4 | 1585.0 | 1470.6 | 1373.5 | 1303.9 | 1283.3 |
| 162.5° | 1827.9 | 1810.8 | 1771.5 | 1685.6 | 1607.6 | 1502.0 | 1411.9 | 1346.9 | 1331.8 |
| 165°   | 1805.0 | 1791.2 | 1765.5 | 1696.5 | 1635.8 | 1544.8 | 1466.6 | 1408.5 | 1398.9 |
| 167.5° | 1787.2 | 1768.2 | 1754.2 | 1696.1 | 1655.0 | 1575.6 | 1512.8 | 1464.8 | 1459.2 |
| 170°   | 1766.9 | 1754.5 | 1743.0 | 1693.0 | 1664.0 | 1597.8 | 1545.5 | 1497.5 | 1492.0 |
| 172.5° | 1741.0 | 1734.1 | 1728.3 | 1690.9 | 1669.6 | 1616.7 | 1573.7 | 1530.1 | 1520.2 |
| 175°   | 1700.7 | 1706.2 | 1704.9 | 1686.3 | 1675.3 | 1640.8 | 1614.6 | 1583.3 | 1570.9 |
| 177.5° | 1675.8 | 1673.6 | 1679.2 | 1675.8 | 1674.7 | 1653.8 | 1646.5 | 1625.2 | 1631.8 |
| 180°   | 1661.2 | 1661.2 | 1661.2 | 1661.2 | 1661.2 | 1661.2 | 1661.2 | 1661.2 | 1661.2 |

(END OF REPORT)