

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: P522543

Luminaire Tested: **SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522543
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

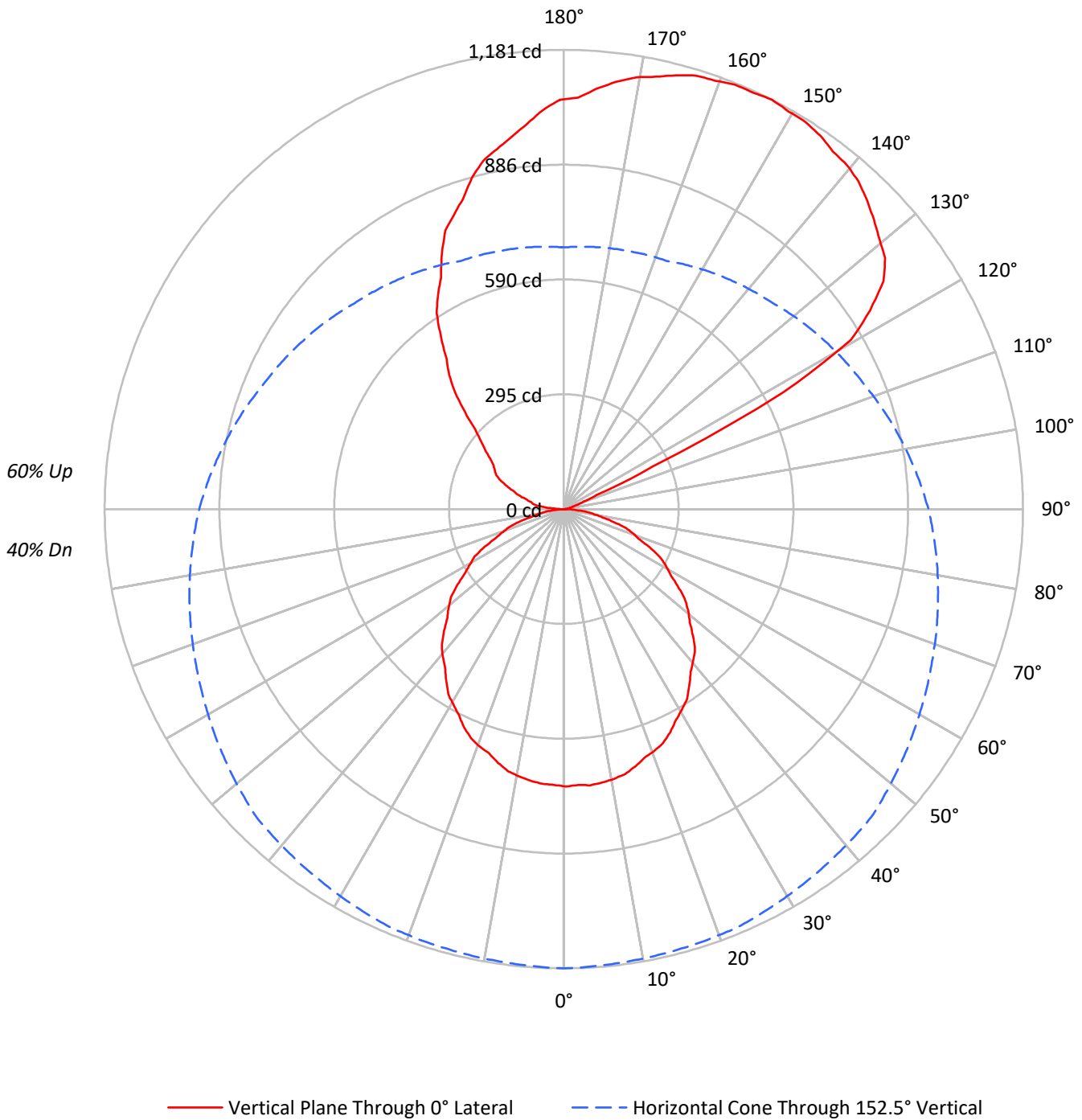
Lumens per Lamp: N/A
Luminaire Lumens: 4912.1 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 46.7
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: P522543
CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P522543

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)

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 | 62 | 62 | 62 | 47 | 47 | 47 | 40 |
| 1 | 96 | 91 | 87 | 84 | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 42 | 41 | 40 | 34 |
| 2 | 87 | 80 | 73 | 68 | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 48 | 45 | 43 | 37 | 35 | 33 | 28 |
| 3 | 79 | 70 | 63 | 57 | 72 | 64 | 58 | 52 | 52 | 48 | 44 | 42 | 39 | 36 | 32 | 30 | 28 | 24 |
| 4 | 72 | 62 | 54 | 48 | 66 | 56 | 50 | 44 | 46 | 41 | 37 | 37 | 34 | 31 | 29 | 26 | 24 | 20 |
| 5 | 66 | 55 | 47 | 41 | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 30 | 27 | 26 | 23 | 21 | 18 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 21 | 18 | 15 |
| 7 | 56 | 44 | 36 | 31 | 51 | 41 | 34 | 29 | 34 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 14 |
| 8 | 52 | 40 | 32 | 27 | 47 | 37 | 30 | 25 | 31 | 25 | 22 | 25 | 21 | 18 | 20 | 17 | 15 | 12 |
| 9 | 49 | 36 | 29 | 24 | 44 | 34 | 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 | 15 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 11517 | 11517 | 11517 |
| 5° | 11561 | 11609 | 11481 |
| 10° | 11567 | 11614 | 11422 |
| 15° | 11480 | 11595 | 11268 |
| 20° | 11414 | 11464 | 11127 |
| 25° | 11327 | 11327 | 10995 |
| 30° | 11158 | 11250 | 10757 |
| 35° | 10965 | 11101 | 10521 |
| 40° | 10796 | 10920 | 10319 |
| 45° | 10643 | 10755 | 10015 |
| 50° | 10427 | 10572 | 9784 |
| 55° | 10137 | 10331 | 9447 |
| 60° | 9823 | 10107 | 9029 |
| 65° | 9482 | 9861 | 8585 |
| 70° | 8988 | 9262 | 7874 |
| 75° | 8322 | 8384 | 7099 |
| 80° | 7392 | 7485 | 5746 |
| 85° | 5817 | 5632 | 4001 |



TEST NUMBER: P522543

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.5 | 1.4 |
| 10°-20° | 192.8 | 3.9 |
| 20°-30° | 290.0 | 5.9 |
| 30°-40° | 346.2 | 7.0 |
| 40°-50° | 355.4 | 7.2 |
| 50°-60° | 319.4 | 6.5 |
| 60°-70° | 242.2 | 4.9 |
| 70°-80° | 136.6 | 2.8 |
| 80°-90° | 35.5 | 0.7 |
| 90°-100° | 26.6 | 0.5 |
| 100°-110° | 117.9 | 2.4 |
| 110°-120° | 338.9 | 6.9 |
| 120°-130° | 516.3 | 10.5 |
| 130°-140° | 560.4 | 11.4 |
| 140°-150° | 535.9 | 10.9 |
| 150°-160° | 441.5 | 9.0 |
| 160°-170° | 288.9 | 5.9 |
| 170°-180° | 100.0 | 2.0 |
| 0°-30° | 550.4 | 11.2 |
| 0°-40° | 896.5 | 18.3 |
| 0°-60° | 1571.4 | 32.0 |
| 0°-90° | 1985.6 | 40.4 |
| 90°-120° | 483.5 | 9.8 |
| 90°-150° | 2096.1 | 42.7 |
| 90°-180° | 2926.0 | 59.6 |
| 0°-180° | 4912.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 713 | 713 | 713 | 713 | 713 | |
| 5° | 713 | 712 | 716 | 711 | 708 | 68 |
| 15° | 687 | 690 | 694 | 678 | 674 | 194 |
| 25° | 636 | 638 | 636 | 627 | 617 | 292 |
| 35° | 556 | 565 | 563 | 548 | 534 | 348 |
| 45° | 466 | 472 | 471 | 453 | 439 | 359 |
| 55° | 360 | 367 | 367 | 349 | 336 | 322 |
| 65° | 248 | 255 | 258 | 236 | 225 | 245 |
| 75° | 133 | 135 | 134 | 122 | 114 | 142 |
| 85° | 31 | 34 | 30 | 26 | 22 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | 1 |
| 95° | 4 | 6 | 19 | 41 | 40 | 5 |
| 105° | 26 | 72 | 135 | 93 | 99 | 31 |
| 115° | 254 | 668 | 342 | 160 | 180 | 351 |
| 125° | 1010 | 879 | 545 | 270 | 230 | 886 |
| 135° | 1113 | 1008 | 722 | 447 | 356 | 859 |
| 145° | 1165 | 1084 | 862 | 637 | 544 | 730 |
| 155° | 1176 | 1128 | 964 | 799 | 728 | 545 |
| 165° | 1152 | 1122 | 1034 | 929 | 884 | 327 |
| 175° | 1084 | 1087 | 1066 | 1018 | 994 | 105 |
| 180° | 1053 | 1053 | 1053 | 1053 | 1053 | |



TEST NUMBER: P522543

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 710.2 | 713.3 | 712.6 | 711.9 | 718.8 | 712.7 | 713.3 | 712.5 | 709.4 |
| 5° | 713.3 | 711.4 | 712.4 | 711.5 | 716.3 | 710.5 | 711.4 | 708.4 | 708.4 |
| 7.5° | 710.2 | 707.1 | 708.0 | 707.4 | 711.6 | 705.1 | 703.9 | 700.3 | 703.7 |
| 10° | 705.5 | 701.7 | 702.5 | 702.7 | 708.4 | 698.8 | 697.6 | 694.7 | 696.7 |
| 12.5° | 699.2 | 696.9 | 697.1 | 695.7 | 703.7 | 691.1 | 690.6 | 688.4 | 688.8 |
| 15° | 686.8 | 689.7 | 689.8 | 683.2 | 693.7 | 678.4 | 678.0 | 677.9 | 674.1 |
| 17.5° | 672.1 | 676.2 | 679.6 | 671.1 | 678.2 | 665.4 | 665.1 | 661.6 | 657.0 |
| 20° | 664.3 | 665.2 | 670.2 | 662.4 | 667.2 | 656.7 | 656.4 | 647.6 | 647.6 |
| 22.5° | 653.3 | 653.5 | 659.2 | 650.7 | 655.5 | 644.9 | 645.4 | 635.1 | 635.8 |
| 25° | 635.8 | 634.9 | 637.8 | 632.0 | 635.8 | 626.2 | 627.0 | 616.2 | 617.2 |
| 27.5° | 614.2 | 615.4 | 619.9 | 611.0 | 616.8 | 605.1 | 605.4 | 595.6 | 594.2 |
| 30° | 598.5 | 600.5 | 607.4 | 597.7 | 603.4 | 591.0 | 589.7 | 579.8 | 577.0 |
| 32.5° | 582.1 | 584.0 | 590.9 | 583.5 | 588.5 | 576.8 | 574.0 | 562.6 | 560.5 |
| 35° | 556.3 | 558.3 | 565.2 | 561.3 | 563.2 | 551.7 | 548.5 | 536.7 | 533.8 |
| 37.5° | 530.2 | 532.2 | 537.9 | 535.2 | 536.9 | 524.8 | 520.2 | 509.8 | 507.7 |
| 40° | 512.2 | 514.1 | 519.1 | 517.1 | 518.1 | 507.5 | 501.4 | 492.5 | 489.6 |
| 42.5° | 494.9 | 496.1 | 500.2 | 496.7 | 499.2 | 489.5 | 482.6 | 473.6 | 469.2 |
| 45° | 466.1 | 466.1 | 472.0 | 468.1 | 471.0 | 461.4 | 453.3 | 443.4 | 438.6 |
| 47.5° | 436.2 | 434.5 | 441.3 | 440.0 | 441.3 | 431.0 | 422.9 | 412.6 | 409.2 |
| 50° | 415.1 | 414.1 | 420.9 | 421.9 | 420.9 | 411.3 | 403.3 | 391.5 | 389.5 |
| 52.5° | 392.3 | 393.6 | 399.0 | 399.9 | 399.7 | 390.2 | 381.3 | 370.3 | 368.3 |
| 55° | 360.1 | 362.0 | 367.0 | 367.9 | 367.0 | 358.3 | 349.3 | 337.5 | 335.6 |
| 57.5° | 326.2 | 330.8 | 335.0 | 336.0 | 336.6 | 327.3 | 316.1 | 307.2 | 303.2 |
| 60° | 304.2 | 308.0 | 313.0 | 314.0 | 313.0 | 305.3 | 293.4 | 284.4 | 279.6 |
| 62.5° | 282.2 | 284.5 | 289.5 | 292.0 | 289.5 | 281.8 | 269.8 | 261.7 | 260.0 |
| 65° | 248.2 | 250.2 | 255.1 | 257.1 | 258.1 | 247.5 | 235.5 | 228.5 | 224.7 |
| 67.5° | 211.5 | 213.9 | 216.7 | 219.4 | 220.6 | 209.4 | 199.6 | 192.2 | 188.0 |
| 70° | 190.4 | 190.4 | 192.3 | 194.3 | 196.2 | 186.6 | 177.6 | 168.7 | 166.8 |
| 72.5° | 167.6 | 167.6 | 170.3 | 171.5 | 171.9 | 163.1 | 154.8 | 146.8 | 146.4 |
| 75° | 133.4 | 133.4 | 135.4 | 136.3 | 134.4 | 128.7 | 121.7 | 114.8 | 113.8 |
| 77.5° | 101.5 | 100.9 | 102.6 | 103.4 | 102.4 | 95.9 | 89.1 | 84.4 | 83.0 |
| 80° | 79.5 | 80.4 | 81.4 | 81.4 | 80.5 | 74.7 | 68.7 | 64.7 | 61.8 |
| 82.5° | 59.1 | 60.0 | 61.8 | 61.8 | 59.3 | 55.8 | 50.6 | 45.9 | 45.3 |
| 85° | 31.4 | 31.4 | 34.3 | 33.3 | 30.4 | 28.5 | 25.5 | 21.6 | 21.6 |
| 87.5° | 7.8 | 8.6 | 10.2 | 12.5 | 8.6 | 9.4 | 5.5 | 3.1 | 2.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.8 | 0.8 | 1.6 | 2.4 | 3.9 | 14.7 | 16.5 | 14.9 | 14.1 |
| 95° | 3.9 | 3.9 | 5.9 | 18.6 | 18.6 | 30.2 | 41.2 | 40.2 | 40.2 |
| 97.5° | 8.8 | 9.8 | 13.7 | 56.8 | 42.4 | 41.2 | 58.9 | 64.8 | 65.3 |
| 100° | 12.8 | 13.7 | 21.6 | 92.5 | 62.8 | 53.2 | 62.8 | 76.6 | 79.5 |
| 102.5° | 17.5 | 19.2 | 34.1 | 146.1 | 88.7 | 63.8 | 73.8 | 83.7 | 86.5 |
| 105° | 26.5 | 29.4 | 71.6 | 244.8 | 135.4 | 84.6 | 93.2 | 98.1 | 99.1 |
| 107.5° | 39.8 | 50.6 | 196.0 | 344.3 | 192.1 | 111.9 | 117.0 | 120.3 | 121.5 |
| 110° | 54.0 | 77.0 | 340.5 | 404.3 | 234.5 | 132.8 | 129.5 | 138.3 | 136.4 |



TEST NUMBER: P522543

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 90.9 | 158.4 | 499.8 | 453.6 | 276.9 | 157.5 | 141.3 | 155.6 | 156.8 |
| 115° | 254.1 | 436.4 | 668.2 | 523.7 | 341.5 | 200.4 | 159.9 | 173.8 | 179.6 |
| 117.5° | 637.8 | 758.9 | 756.9 | 588.6 | 403.5 | 250.9 | 182.3 | 188.9 | 195.5 |
| 120° | 857.6 | 875.8 | 801.6 | 632.5 | 443.5 | 287.1 | 201.1 | 198.3 | 204.1 |
| 122.5° | 939.2 | 924.4 | 835.4 | 671.0 | 484.3 | 324.9 | 225.5 | 208.5 | 213.5 |
| 125° | 1009.7 | 980.9 | 879.2 | 725.9 | 544.6 | 380.5 | 269.8 | 230.6 | 229.6 |
| 127.5° | 1048.7 | 1018.6 | 921.9 | 773.6 | 599.9 | 438.3 | 320.3 | 261.8 | 253.0 |
| 130° | 1067.6 | 1039.7 | 951.8 | 802.8 | 636.8 | 477.5 | 357.2 | 289.2 | 275.7 |
| 132.5° | 1090.3 | 1060.2 | 973.0 | 832.7 | 672.1 | 514.4 | 394.1 | 322.1 | 306.3 |
| 135° | 1112.7 | 1084.9 | 1007.7 | 871.8 | 722.2 | 568.7 | 447.4 | 376.3 | 356.2 |
| 137.5° | 1132.7 | 1107.2 | 1039.5 | 902.6 | 767.3 | 622.1 | 504.0 | 434.7 | 410.1 |
| 140° | 1146.1 | 1118.2 | 1052.8 | 926.2 | 794.8 | 655.7 | 541.6 | 472.5 | 453.3 |
| 142.5° | 1150.8 | 1133.7 | 1067.0 | 946.1 | 825.4 | 687.8 | 579.3 | 507.9 | 490.2 |
| 145° | 1164.7 | 1153.2 | 1084.2 | 969.9 | 861.5 | 735.8 | 636.8 | 562.8 | 543.6 |
| 147.5° | 1173.7 | 1156.5 | 1100.1 | 995.6 | 896.8 | 778.8 | 689.0 | 618.0 | 600.1 |
| 150° | 1174.5 | 1161.1 | 1112.7 | 1011.5 | 920.4 | 810.0 | 721.2 | 654.1 | 637.8 |
| 152.5° | 1180.8 | 1164.3 | 1119.0 | 1025.0 | 937.6 | 836.5 | 753.4 | 691.0 | 673.1 |
| 155° | 1176.5 | 1165.0 | 1128.4 | 1042.2 | 964.5 | 870.5 | 798.7 | 743.4 | 728.1 |
| 157.5° | 1176.5 | 1162.3 | 1129.6 | 1055.7 | 990.4 | 907.9 | 841.1 | 790.0 | 778.5 |
| 160° | 1168.6 | 1162.9 | 1130.4 | 1065.2 | 1003.8 | 928.9 | 869.4 | 822.9 | 807.5 |
| 162.5° | 1165.5 | 1155.9 | 1131.9 | 1071.6 | 1015.6 | 946.1 | 893.7 | 849.7 | 838.2 |
| 165° | 1151.9 | 1143.3 | 1122.5 | 1074.5 | 1034.2 | 976.6 | 929.2 | 889.8 | 884.1 |
| 167.5° | 1136.4 | 1129.7 | 1116.0 | 1079.2 | 1046.6 | 999.5 | 959.6 | 927.9 | 920.0 |
| 170° | 1125.4 | 1114.9 | 1109.8 | 1081.6 | 1052.8 | 1013.5 | 979.2 | 950.6 | 942.0 |
| 172.5° | 1106.6 | 1105.3 | 1101.1 | 1075.6 | 1058.3 | 1025.9 | 997.3 | 971.1 | 965.5 |
| 175° | 1084.2 | 1084.2 | 1087.2 | 1071.4 | 1065.6 | 1038.7 | 1018.5 | 1002.6 | 994.0 |
| 177.5° | 1058.3 | 1059.1 | 1065.4 | 1064.6 | 1065.4 | 1050.0 | 1044.2 | 1029.3 | 1027.7 |
| 180° | 1052.8 | 1052.8 | 1052.8 | 1052.8 | 1052.8 | 1052.8 | 1052.8 | 1052.8 | 1052.8 |

(END OF REPORT)