

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: P522351

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522351
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-050U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

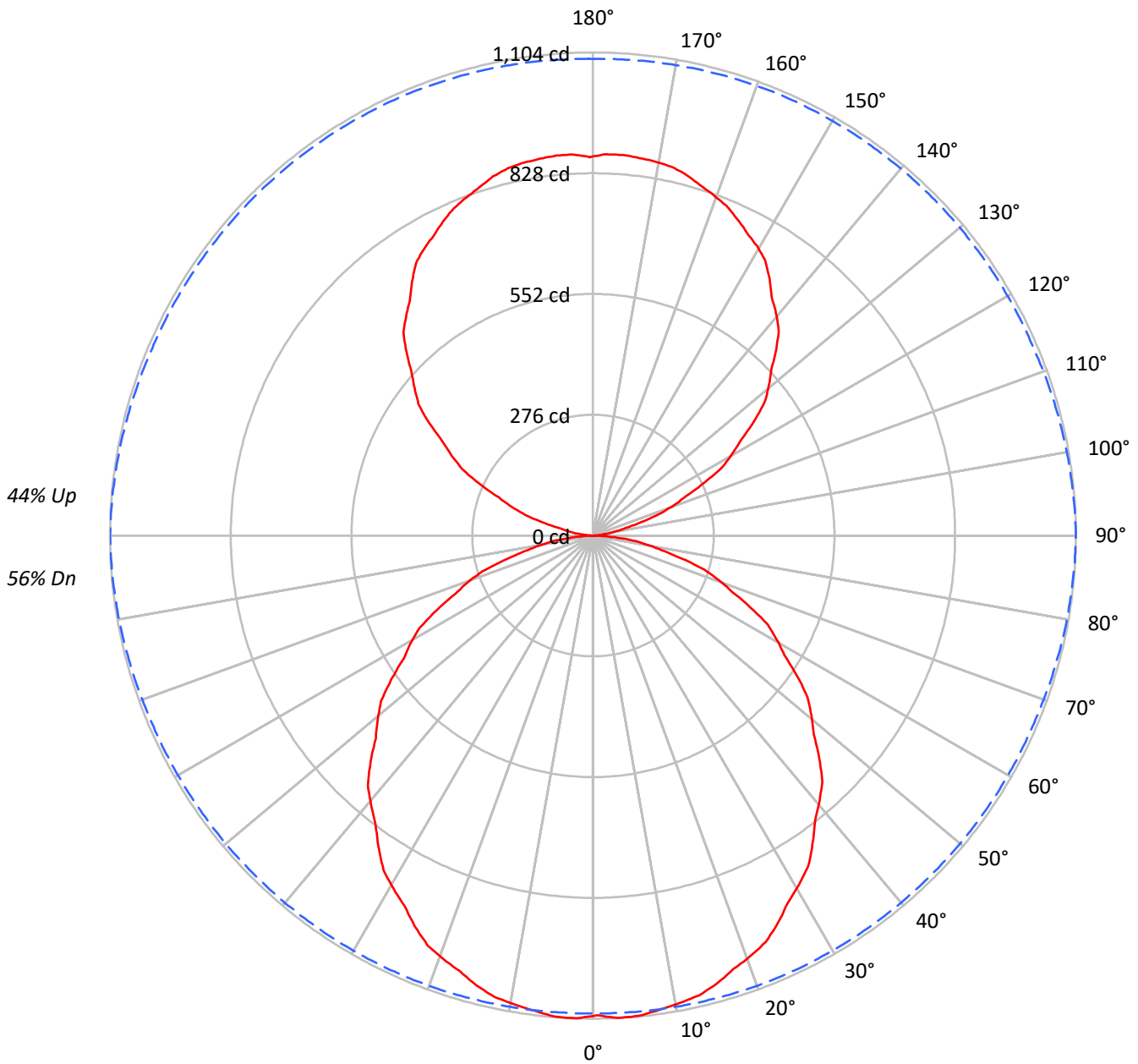
Lumens per Lamp: N/A
Luminaire Lumens: 5472.2 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.2
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: P522351
CATALOG NUMBER: SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522351

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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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 | 56 | | | | |
| 1 | 99 | 95 | 91 | 87 | 92 | 88 | 85 | 81 | 76 | 73 | 71 | 65 | 63 | 61 | 54 | 53 | 52 | 47 | | | | |
| 2 | 90 | 82 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 58 | 57 | 53 | 51 | 48 | 45 | 43 | 39 | | | | |
| 3 | 82 | 72 | 65 | 59 | 76 | 67 | 61 | 55 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 | | | | |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 52 | 47 | 52 | 46 | 42 | 44 | 40 | 36 | 37 | 34 | 31 | 28 | | | | |
| 5 | 69 | 57 | 49 | 42 | 64 | 53 | 46 | 40 | 46 | 40 | 36 | 40 | 35 | 32 | 34 | 30 | 27 | 24 | | | | |
| 6 | 63 | 51 | 43 | 37 | 59 | 48 | 40 | 35 | 42 | 36 | 31 | 36 | 31 | 28 | 30 | 27 | 24 | 21 | | | | |
| 7 | 59 | 46 | 38 | 32 | 54 | 43 | 36 | 31 | 38 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 19 | | | | |
| 8 | 54 | 42 | 34 | 28 | 50 | 39 | 32 | 27 | 34 | 29 | 24 | 30 | 25 | 22 | 25 | 22 | 19 | 17 | | | | |
| 9 | 51 | 38 | 31 | 25 | 47 | 36 | 29 | 24 | 31 | 26 | 22 | 27 | 23 | 19 | 23 | 20 | 17 | 15 | | | | |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 23 | 20 | 25 | 21 | 18 | 22 | 18 | 16 | 14 | | | | |

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: P522351

CATALOG NUMBER: SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.6 | 1.9 |
| 10°-20° | 296.2 | 5.4 |
| 20°-30° | 445.5 | 8.1 |
| 30°-40° | 532.1 | 9.7 |
| 40°-50° | 547.1 | 10.0 |
| 50°-60° | 492.3 | 9.0 |
| 60°-70° | 374.7 | 6.8 |
| 70°-80° | 212.3 | 3.9 |
| 80°-90° | 55.9 | 1.0 |
| 90°-100° | 22.7 | 0.4 |
| 100°-110° | 98.4 | 1.8 |
| 110°-120° | 280.6 | 5.1 |
| 120°-130° | 426.7 | 7.8 |
| 130°-140° | 461.5 | 8.4 |
| 140°-150° | 441.0 | 8.1 |
| 150°-160° | 362.7 | 6.6 |
| 160°-170° | 237.0 | 4.3 |
| 170°-180° | 82.0 | 1.5 |
| 0°-30° | 845.3 | 15.4 |
| 0°-40° | 1377.5 | 25.2 |
| 0°-60° | 2416.8 | 44.2 |
| 0°-90° | 3059.7 | 55.9 |
| 90°-120° | 401.7 | 7.3 |
| 90°-150° | 1730.9 | 31.6 |
| 90°-180° | 2413.0 | 44.1 |
| 0°-180° | 5472.2 | 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 | 1 |
| 95° | 4 | 5 | 15 | 37 | 34 | 5 |
| 105° | 23 | 58 | 114 | 78 | 84 | 26 |
| 115° | 207 | 550 | 284 | 135 | 153 | 285 |
| 125° | 825 | 726 | 454 | 223 | 192 | 725 |
| 135° | 913 | 826 | 597 | 371 | 294 | 704 |
| 145° | 951 | 890 | 712 | 527 | 449 | 596 |
| 155° | 962 | 920 | 795 | 660 | 599 | 445 |
| 165° | 940 | 919 | 851 | 763 | 728 | 267 |
| 175° | 885 | 887 | 872 | 840 | 818 | 86 |
| 180° | 865 | 865 | 865 | 865 | 865 | |



TEST NUMBER: P522351

CATALOG NUMBER: SQW-F-050U-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° | 1.2 | 1.2 | 1.2 | 2.4 | 3.5 | 12.7 | 14.1 | 12.3 | 12.3 |
| 95° | 3.7 | 3.7 | 5.1 | 16.1 | 15.4 | 26.2 | 36.7 | 34.5 | 34.5 |
| 97.5° | 7.5 | 8.2 | 11.7 | 47.7 | 36.0 | 35.0 | 49.6 | 55.2 | 56.2 |
| 100° | 11.0 | 11.7 | 17.6 | 78.0 | 53.6 | 45.7 | 54.3 | 64.6 | 66.8 |
| 102.5° | 15.1 | 16.4 | 28.2 | 122.7 | 75.3 | 53.6 | 61.9 | 71.1 | 73.8 |
| 105° | 22.8 | 24.9 | 58.0 | 205.6 | 113.8 | 70.0 | 77.8 | 81.5 | 83.7 |
| 107.5° | 33.8 | 42.5 | 156.2 | 288.9 | 161.5 | 92.4 | 100.7 | 100.2 | 102.0 |
| 110° | 45.5 | 63.4 | 270.1 | 334.5 | 196.7 | 109.9 | 110.1 | 115.9 | 113.8 |



TEST NUMBER: P522351

CATALOG NUMBER: SQW-F-050U-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° | 75.5 | 126.1 | 402.8 | 378.3 | 231.9 | 130.7 | 118.9 | 131.8 | 132.6 |
| 115° | 207.0 | 355.5 | 550.5 | 439.8 | 284.0 | 167.8 | 135.0 | 147.6 | 152.7 |
| 117.5° | 513.2 | 618.5 | 626.1 | 494.3 | 336.0 | 209.1 | 153.5 | 159.1 | 165.7 |
| 120° | 695.8 | 717.3 | 661.3 | 527.8 | 370.6 | 238.6 | 168.8 | 166.8 | 173.9 |
| 122.5° | 767.4 | 759.7 | 690.1 | 559.0 | 404.7 | 269.8 | 187.6 | 176.1 | 181.0 |
| 125° | 825.0 | 804.9 | 725.9 | 602.2 | 454.3 | 316.5 | 223.1 | 191.6 | 191.6 |
| 127.5° | 859.3 | 835.9 | 758.8 | 640.5 | 499.1 | 363.7 | 265.8 | 216.7 | 209.9 |
| 130° | 879.3 | 854.2 | 778.7 | 667.0 | 528.4 | 394.2 | 295.8 | 238.3 | 227.5 |
| 132.5° | 894.5 | 871.7 | 797.5 | 687.7 | 557.2 | 424.2 | 325.7 | 265.1 | 247.5 |
| 135° | 913.0 | 893.7 | 826.4 | 719.4 | 597.4 | 469.0 | 370.6 | 311.5 | 293.6 |
| 137.5° | 924.9 | 909.9 | 852.4 | 745.5 | 634.7 | 513.4 | 416.0 | 356.6 | 340.4 |
| 140° | 931.4 | 919.2 | 865.3 | 761.0 | 657.6 | 542.1 | 447.7 | 387.2 | 372.1 |
| 142.5° | 937.9 | 927.9 | 874.7 | 778.1 | 679.9 | 570.7 | 478.8 | 418.3 | 402.1 |
| 145° | 951.2 | 939.7 | 890.3 | 798.8 | 711.9 | 610.8 | 527.0 | 463.5 | 449.2 |
| 147.5° | 960.6 | 946.8 | 903.1 | 821.0 | 742.2 | 647.0 | 571.2 | 509.9 | 495.7 |
| 150° | 963.0 | 948.6 | 910.1 | 832.9 | 760.4 | 669.2 | 598.2 | 539.9 | 526.2 |
| 152.5° | 961.2 | 950.3 | 915.4 | 843.0 | 775.6 | 690.8 | 622.8 | 568.7 | 556.2 |
| 155° | 962.2 | 952.2 | 919.6 | 856.6 | 794.9 | 721.0 | 659.8 | 611.8 | 598.9 |
| 157.5° | 957.8 | 951.2 | 922.6 | 867.0 | 812.6 | 747.9 | 693.7 | 653.4 | 640.3 |
| 160° | 957.8 | 947.8 | 922.6 | 873.1 | 825.0 | 765.4 | 714.9 | 678.7 | 667.9 |
| 162.5° | 951.4 | 942.5 | 922.0 | 877.3 | 836.7 | 781.7 | 734.8 | 701.0 | 693.1 |
| 165° | 939.5 | 932.3 | 918.9 | 883.0 | 851.4 | 804.0 | 763.3 | 733.1 | 728.1 |
| 167.5° | 930.2 | 920.3 | 913.0 | 882.8 | 861.4 | 820.0 | 787.4 | 762.4 | 759.5 |
| 170° | 919.6 | 913.2 | 907.2 | 881.1 | 866.1 | 831.6 | 804.4 | 779.4 | 776.5 |
| 172.5° | 906.1 | 902.6 | 899.5 | 880.1 | 869.0 | 841.4 | 819.1 | 796.4 | 791.2 |
| 175° | 885.2 | 888.0 | 887.4 | 877.7 | 871.9 | 854.0 | 840.4 | 824.1 | 817.6 |
| 177.5° | 872.2 | 871.1 | 874.0 | 872.2 | 871.6 | 860.7 | 857.0 | 845.9 | 849.3 |
| 180° | 864.6 | 864.6 | 864.6 | 864.6 | 864.6 | 864.6 | 864.6 | 864.6 | 864.6 |

(END OF REPORT)