

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: P522593

Luminaire Tested: **SQW-F-100U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522593
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-100U-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 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: 5900.4 lumens
Efficiency: N/A
Efficacy: 105.6 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

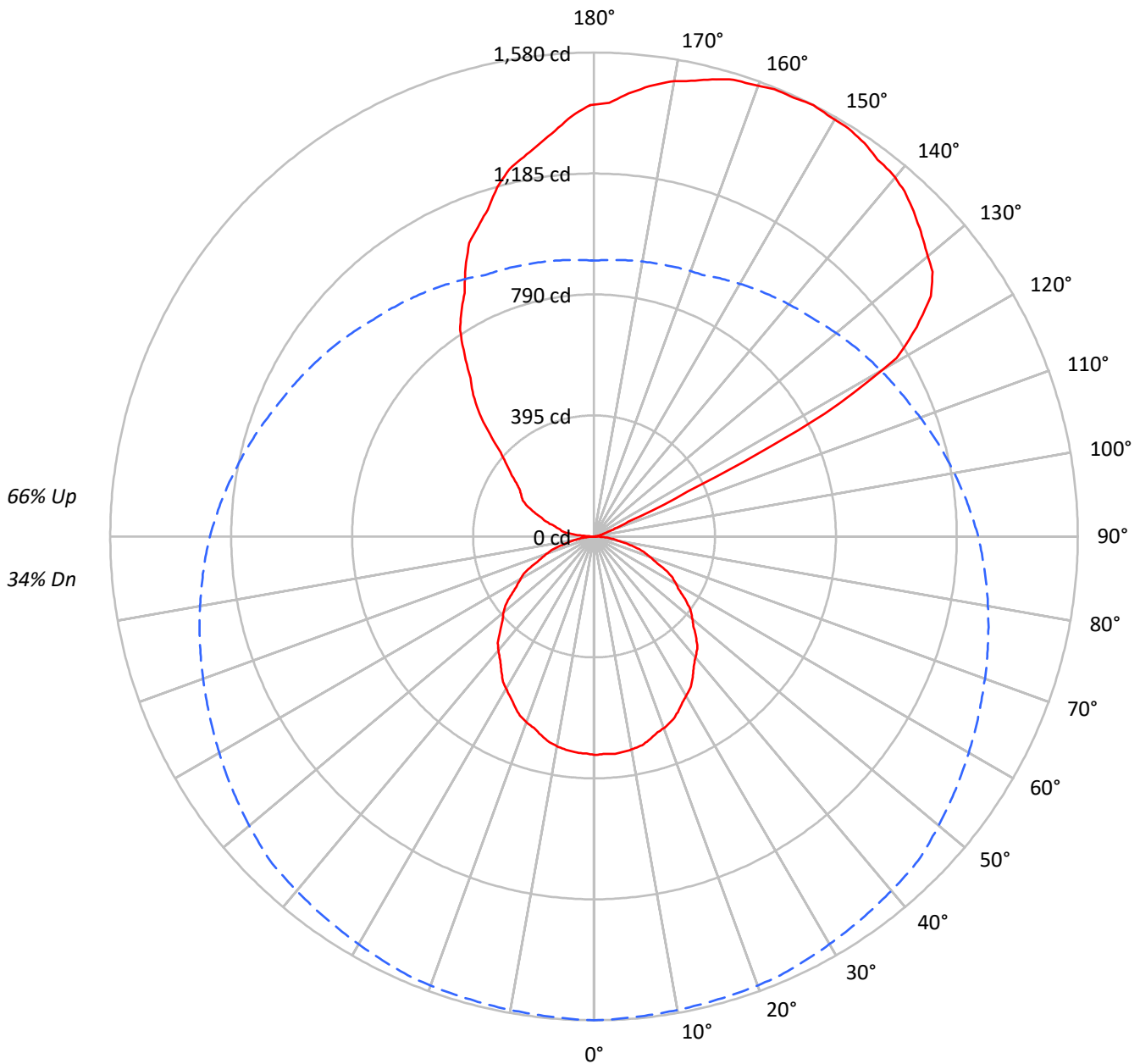
Input Watts (W): 55.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P522593

CATALOG NUMBER: SQW-F-100U-050D-93050-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° Vertical



TEST NUMBER: P522593

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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 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 |
| 1 | 94 | 90 | 86 | 83 | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 49 | 47 | 36 | 35 | 35 | 28 |
| 2 | 86 | 78 | 72 | 67 | 77 | 71 | 66 | 61 | 57 | 53 | 50 | 44 | 41 | 39 | 32 | 30 | 29 | 23 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 50 | 46 | 42 | 39 | 36 | 33 | 28 | 26 | 25 | 20 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 36 | 34 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5 | 65 | 54 | 46 | 40 | 59 | 49 | 42 | 37 | 39 | 34 | 30 | 31 | 27 | 24 | 22 | 20 | 18 | 15 |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 28 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7 | 55 | 43 | 36 | 30 | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |
| 8 | 51 | 39 | 32 | 26 | 46 | 36 | 29 | 24 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 13 | 10 |
| 9 | 48 | 36 | 28 | 23 | 43 | 33 | 26 | 22 | 27 | 22 | 18 | 21 | 17 | 15 | 16 | 13 | 11 | 9 |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8 |

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: P522593

CATALOG NUMBER: SQW-F-100U-050D-93050-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.5 | 1.1 |
| 10°-20° | 192.8 | 3.3 |
| 20°-30° | 290.0 | 4.9 |
| 30°-40° | 346.2 | 5.9 |
| 40°-50° | 355.4 | 6.0 |
| 50°-60° | 319.4 | 5.4 |
| 60°-70° | 242.2 | 4.1 |
| 70°-80° | 136.6 | 2.3 |
| 80°-90° | 35.5 | 0.6 |
| 90°-100° | 35.6 | 0.6 |
| 100°-110° | 157.8 | 2.7 |
| 110°-120° | 453.4 | 7.7 |
| 120°-130° | 690.6 | 11.7 |
| 130°-140° | 749.7 | 12.7 |
| 140°-150° | 716.9 | 12.1 |
| 150°-160° | 590.6 | 10.0 |
| 160°-170° | 386.5 | 6.5 |
| 170°-180° | 133.8 | 2.3 |
| 0°-30° | 550.4 | 9.3 |
| 0°-40° | 896.5 | 15.2 |
| 0°-60° | 1571.4 | 26.6 |
| 0°-90° | 1985.6 | 33.7 |
| 90°-120° | 646.8 | 11.0 |
| 90°-150° | 2803.9 | 47.5 |
| 90°-180° | 3915.0 | 66.4 |
| 0°-180° | 5900.4 | 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° | 5 | 8 | 25 | 55 | 54 | 7 |
| 105° | 35 | 96 | 181 | 125 | 133 | 41 |
| 115° | 340 | 894 | 457 | 214 | 240 | 470 |
| 125° | 1351 | 1176 | 728 | 361 | 307 | 1186 |
| 135° | 1488 | 1348 | 966 | 598 | 476 | 1149 |
| 145° | 1558 | 1450 | 1152 | 852 | 727 | 976 |
| 155° | 1574 | 1509 | 1290 | 1068 | 974 | 728 |
| 165° | 1541 | 1502 | 1383 | 1243 | 1183 | 437 |
| 175° | 1450 | 1454 | 1425 | 1362 | 1330 | 140 |
| 180° | 1408 | 1408 | 1408 | 1408 | 1408 | |



TEST NUMBER: P522593

CATALOG NUMBER: SQW-F-100U-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° | 1.1 | 1.1 | 2.1 | 3.2 | 5.3 | 19.6 | 22.1 | 19.9 | 18.9 |
| 95° | 5.3 | 5.3 | 7.9 | 24.9 | 24.9 | 40.3 | 55.1 | 53.8 | 53.8 |
| 97.5° | 11.8 | 13.1 | 18.4 | 76.0 | 56.7 | 55.2 | 78.8 | 86.6 | 87.4 |
| 100° | 17.1 | 18.3 | 28.9 | 123.8 | 84.0 | 71.2 | 84.0 | 102.5 | 106.3 |
| 102.5° | 23.4 | 25.7 | 45.7 | 195.4 | 118.7 | 85.3 | 98.7 | 111.9 | 115.8 |
| 105° | 35.4 | 39.3 | 95.8 | 327.4 | 181.1 | 113.1 | 124.7 | 131.3 | 132.6 |
| 107.5° | 53.3 | 67.7 | 262.2 | 460.5 | 257.0 | 149.7 | 156.5 | 161.0 | 162.5 |
| 110° | 72.2 | 103.0 | 455.5 | 540.9 | 313.7 | 177.7 | 173.3 | 185.0 | 182.4 |



TEST NUMBER: P522593

CATALOG NUMBER: SQW-F-100U-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° | 121.5 | 211.9 | 668.6 | 606.8 | 370.4 | 210.7 | 189.0 | 208.2 | 209.7 |
| 115° | 340.0 | 583.8 | 893.9 | 700.6 | 456.8 | 268.1 | 213.9 | 232.5 | 240.2 |
| 117.5° | 853.2 | 1015.1 | 1012.5 | 787.4 | 539.7 | 335.7 | 243.9 | 252.7 | 261.5 |
| 120° | 1147.2 | 1171.6 | 1072.4 | 846.1 | 593.3 | 384.1 | 269.1 | 265.3 | 273.0 |
| 122.5° | 1256.4 | 1236.6 | 1117.5 | 897.6 | 647.9 | 434.6 | 301.6 | 278.9 | 285.6 |
| 125° | 1350.6 | 1312.1 | 1176.0 | 971.0 | 728.5 | 509.0 | 361.0 | 308.4 | 307.1 |
| 127.5° | 1402.9 | 1362.6 | 1233.3 | 1034.8 | 802.5 | 586.4 | 428.4 | 350.2 | 338.4 |
| 130° | 1428.1 | 1390.8 | 1273.2 | 1073.9 | 851.8 | 638.8 | 477.8 | 386.8 | 368.8 |
| 132.5° | 1458.5 | 1418.2 | 1301.5 | 1113.9 | 899.1 | 688.1 | 527.1 | 430.8 | 409.8 |
| 135° | 1488.4 | 1451.2 | 1348.0 | 1166.2 | 966.0 | 760.7 | 598.5 | 503.4 | 476.5 |
| 137.5° | 1515.2 | 1481.1 | 1390.5 | 1207.4 | 1026.4 | 832.1 | 674.1 | 581.5 | 548.6 |
| 140° | 1533.1 | 1495.8 | 1408.4 | 1239.0 | 1063.2 | 877.1 | 724.5 | 632.1 | 606.4 |
| 142.5° | 1539.4 | 1516.5 | 1427.3 | 1265.6 | 1104.1 | 920.1 | 774.9 | 679.4 | 655.8 |
| 145° | 1558.0 | 1542.6 | 1450.4 | 1297.4 | 1152.4 | 984.3 | 851.8 | 752.8 | 727.2 |
| 147.5° | 1570.1 | 1547.0 | 1471.6 | 1331.9 | 1199.7 | 1041.8 | 921.7 | 826.6 | 802.8 |
| 150° | 1571.1 | 1553.2 | 1488.4 | 1353.1 | 1231.2 | 1083.6 | 964.7 | 875.0 | 853.2 |
| 152.5° | 1579.5 | 1557.5 | 1496.8 | 1371.1 | 1254.3 | 1119.0 | 1007.8 | 924.3 | 900.4 |
| 155° | 1573.8 | 1558.4 | 1509.4 | 1394.2 | 1290.2 | 1164.5 | 1068.4 | 994.5 | 973.9 |
| 157.5° | 1573.8 | 1554.8 | 1511.0 | 1412.2 | 1324.9 | 1214.5 | 1125.1 | 1056.8 | 1041.4 |
| 160° | 1563.3 | 1555.6 | 1512.1 | 1424.9 | 1342.7 | 1242.6 | 1162.9 | 1100.8 | 1080.2 |
| 162.5° | 1559.1 | 1546.2 | 1514.2 | 1433.4 | 1358.5 | 1265.6 | 1195.5 | 1136.6 | 1121.2 |
| 165° | 1540.9 | 1529.4 | 1501.6 | 1437.3 | 1383.4 | 1306.4 | 1243.0 | 1190.3 | 1182.6 |
| 167.5° | 1520.2 | 1511.2 | 1492.9 | 1443.6 | 1400.0 | 1337.1 | 1283.7 | 1241.2 | 1230.7 |
| 170° | 1505.5 | 1491.4 | 1484.5 | 1446.9 | 1408.4 | 1355.8 | 1309.9 | 1271.6 | 1260.1 |
| 172.5° | 1480.3 | 1478.5 | 1472.9 | 1438.8 | 1415.7 | 1372.3 | 1334.1 | 1299.0 | 1291.6 |
| 175° | 1450.4 | 1450.4 | 1454.3 | 1433.1 | 1425.4 | 1389.5 | 1362.4 | 1341.2 | 1329.6 |
| 177.5° | 1415.7 | 1416.7 | 1425.2 | 1424.1 | 1425.2 | 1404.6 | 1396.8 | 1376.8 | 1374.8 |
| 180° | 1408.4 | 1408.4 | 1408.4 | 1408.4 | 1408.4 | 1408.4 | 1408.4 | 1408.4 | 1408.4 |

(END OF REPORT)