

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: P522399

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522399
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-075U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 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: 7646.4 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

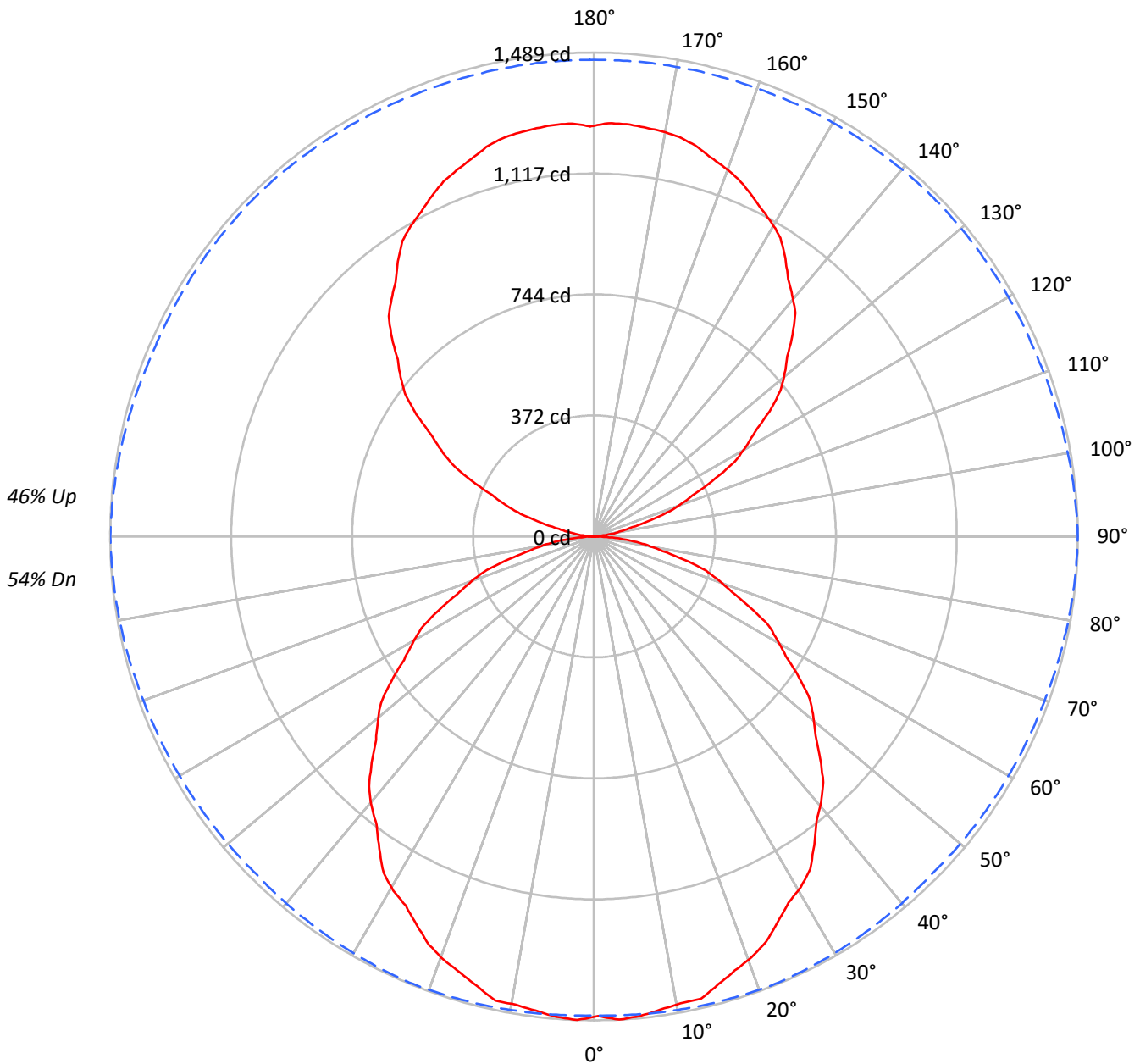
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P522399

CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot



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



TEST NUMBER: P522399

CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 72 | 72 | 72 | 60 | 60 | 60 | 54 | | | | |
| 1 | 99 | 94 | 90 | 87 | 91 | 87 | 84 | 81 | 75 | 72 | 70 | 63 | 61 | 60 | 53 | 51 | 50 | 45 | | | | |
| 2 | 90 | 82 | 76 | 70 | 83 | 76 | 71 | 66 | 65 | 61 | 58 | 55 | 52 | 50 | 46 | 44 | 42 | 38 | | | | |
| 3 | 82 | 72 | 64 | 59 | 75 | 67 | 60 | 55 | 58 | 52 | 48 | 49 | 45 | 42 | 41 | 38 | 36 | 32 | | | | |
| 4 | 75 | 64 | 56 | 49 | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 36 | 36 | 33 | 31 | 27 | | | | |
| 5 | 68 | 57 | 48 | 42 | 63 | 53 | 45 | 40 | 46 | 40 | 35 | 39 | 34 | 31 | 33 | 29 | 27 | 23 | | | | |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 30 | 26 | 23 | 20 | | | | |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 36 | 30 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 23 | 21 | 18 | | | | |
| 8 | 54 | 42 | 34 | 28 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 25 | 21 | 25 | 21 | 18 | 16 | | | | |
| 9 | 50 | 38 | 30 | 25 | 47 | 36 | 29 | 24 | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 17 | 14 | | | | |
| 10 | 47 | 35 | 27 | 23 | 44 | 33 | 26 | 21 | 29 | 23 | 19 | 25 | 20 | 17 | 21 | 18 | 15 | 13 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 23831 | 23831 | 23831 |
| 5° | 24114 | 24026 | 23663 |
| 10° | 23866 | 23953 | 23620 |
| 15° | 23957 | 23920 | 23473 |
| 20° | 23392 | 23759 | 22931 |
| 25° | 23357 | 23414 | 22556 |
| 30° | 23066 | 23364 | 22326 |
| 35° | 22527 | 22992 | 21936 |
| 40° | 22306 | 22689 | 21492 |
| 45° | 22085 | 22281 | 21107 |
| 50° | 21308 | 21981 | 20502 |
| 55° | 21106 | 21560 | 19781 |
| 60° | 20166 | 20925 | 19059 |
| 65° | 19274 | 20256 | 18086 |
| 70° | 18406 | 19317 | 16891 |
| 75° | 17105 | 17773 | 15234 |
| 80° | 14644 | 15537 | 12748 |
| 85° | 10911 | 12097 | 8725 |



TEST NUMBER: P522399

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.7 | 1.8 |
| 10°-20° | 399.5 | 5.2 |
| 20°-30° | 599.8 | 7.8 |
| 30°-40° | 717.0 | 9.4 |
| 40°-50° | 737.8 | 9.6 |
| 50°-60° | 664.2 | 8.7 |
| 60°-70° | 504.4 | 6.6 |
| 70°-80° | 287.8 | 3.8 |
| 80°-90° | 75.3 | 1.0 |
| 90°-100° | 33.2 | 0.4 |
| 100°-110° | 143.6 | 1.9 |
| 110°-120° | 409.5 | 5.4 |
| 120°-130° | 622.7 | 8.1 |
| 130°-140° | 673.5 | 8.8 |
| 140°-150° | 643.5 | 8.4 |
| 150°-160° | 529.3 | 6.9 |
| 160°-170° | 345.8 | 4.5 |
| 170°-180° | 119.6 | 1.6 |
| 0°-30° | 1139.0 | 14.9 |
| 0°-40° | 1856.0 | 24.3 |
| 0°-60° | 3258.0 | 42.6 |
| 0°-90° | 4125.6 | 54.0 |
| 90°-120° | 586.3 | 7.7 |
| 90°-150° | 2526.1 | 33.0 |
| 90°-180° | 3521.0 | 46.0 |
| 0°-180° | 7646.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1476 | 1476 | 1476 | 1476 | 1476 | |
| 5° | 1488 | 1476 | 1482 | 1457 | 1460 | 140 |
| 15° | 1433 | 1425 | 1431 | 1411 | 1404 | 400 |
| 25° | 1311 | 1319 | 1314 | 1300 | 1266 | 602 |
| 35° | 1143 | 1171 | 1166 | 1141 | 1113 | 720 |
| 45° | 967 | 975 | 976 | 954 | 924 | 739 |
| 55° | 750 | 763 | 766 | 735 | 703 | 664 |
| 65° | 504 | 518 | 530 | 494 | 473 | 502 |
| 75° | 274 | 282 | 285 | 260 | 244 | 287 |
| 85° | 59 | 68 | 65 | 59 | 47 | 71 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 5 | 8 | 22 | 54 | 50 | 7 |
| 105° | 33 | 85 | 166 | 114 | 122 | 38 |
| 115° | 302 | 803 | 414 | 197 | 223 | 415 |
| 125° | 1204 | 1059 | 663 | 326 | 280 | 1058 |
| 135° | 1332 | 1206 | 872 | 541 | 428 | 1027 |
| 145° | 1388 | 1299 | 1039 | 769 | 656 | 870 |
| 155° | 1404 | 1342 | 1160 | 963 | 874 | 649 |
| 165° | 1371 | 1341 | 1242 | 1114 | 1063 | 390 |
| 175° | 1292 | 1295 | 1272 | 1226 | 1193 | 125 |
| 180° | 1262 | 1262 | 1262 | 1262 | 1262 | |



TEST NUMBER: P522399

CATALOG NUMBER: SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 |
| 2.5° | 1474.3 | 1486.0 | 1470.0 | 1474.6 | 1488.9 | 1471.3 | 1476.0 | 1467.4 | 1466.6 |
| 5° | 1487.8 | 1470.0 | 1476.0 | 1467.8 | 1482.4 | 1468.8 | 1456.7 | 1472.5 | 1460.0 |
| 7.5° | 1462.5 | 1451.0 | 1474.5 | 1462.7 | 1470.5 | 1461.2 | 1462.5 | 1453.7 | 1453.5 |
| 10° | 1455.7 | 1448.3 | 1455.7 | 1455.8 | 1461.0 | 1448.5 | 1447.1 | 1437.5 | 1440.7 |
| 12.5° | 1436.0 | 1446.2 | 1435.1 | 1449.1 | 1460.2 | 1438.4 | 1430.0 | 1433.3 | 1439.0 |
| 15° | 1433.2 | 1430.0 | 1424.6 | 1420.6 | 1431.0 | 1405.9 | 1410.7 | 1401.1 | 1404.3 |
| 17.5° | 1389.7 | 1395.6 | 1398.3 | 1394.8 | 1404.3 | 1381.4 | 1376.0 | 1376.0 | 1377.5 |
| 20° | 1361.4 | 1374.0 | 1382.8 | 1373.4 | 1382.8 | 1365.0 | 1361.4 | 1348.2 | 1334.6 |
| 22.5° | 1346.0 | 1343.5 | 1361.4 | 1342.6 | 1355.4 | 1333.4 | 1343.4 | 1320.4 | 1327.8 |
| 25° | 1311.1 | 1300.6 | 1318.6 | 1308.0 | 1314.3 | 1296.5 | 1300.4 | 1272.4 | 1266.1 |
| 27.5° | 1264.6 | 1264.6 | 1275.5 | 1271.1 | 1275.5 | 1261.3 | 1257.3 | 1231.7 | 1229.2 |
| 30° | 1237.2 | 1228.8 | 1248.9 | 1239.6 | 1253.2 | 1219.7 | 1222.2 | 1201.7 | 1197.5 |
| 32.5° | 1200.3 | 1203.7 | 1217.2 | 1205.4 | 1221.5 | 1189.7 | 1195.6 | 1164.2 | 1169.2 |
| 35° | 1142.9 | 1149.2 | 1170.7 | 1154.9 | 1166.5 | 1147.6 | 1140.8 | 1120.2 | 1112.9 |
| 37.5° | 1106.3 | 1096.6 | 1107.1 | 1108.1 | 1111.6 | 1090.9 | 1083.3 | 1058.5 | 1060.9 |
| 40° | 1058.3 | 1056.2 | 1071.1 | 1075.4 | 1076.5 | 1056.6 | 1050.8 | 1020.8 | 1019.7 |
| 42.5° | 1014.6 | 1016.7 | 1029.1 | 1034.3 | 1034.5 | 1014.6 | 1013.9 | 981.5 | 985.4 |
| 45° | 967.2 | 964.1 | 974.7 | 973.7 | 975.8 | 954.9 | 954.4 | 923.3 | 924.4 |
| 47.5° | 892.9 | 899.6 | 906.8 | 908.9 | 917.1 | 899.3 | 886.7 | 862.0 | 858.2 |
| 50° | 848.3 | 860.9 | 862.3 | 872.0 | 875.1 | 853.1 | 843.0 | 822.5 | 816.2 |
| 52.5° | 808.9 | 815.6 | 821.1 | 827.5 | 832.3 | 812.0 | 796.7 | 777.2 | 775.9 |
| 55° | 749.8 | 745.6 | 762.6 | 760.6 | 765.9 | 750.2 | 734.8 | 713.1 | 702.7 |
| 57.5° | 673.3 | 681.5 | 685.3 | 693.3 | 696.9 | 679.7 | 666.2 | 643.3 | 642.5 |
| 60° | 624.5 | 636.0 | 637.3 | 651.2 | 648.0 | 633.4 | 619.1 | 598.6 | 590.2 |
| 62.5° | 579.9 | 583.1 | 591.9 | 601.6 | 602.6 | 586.3 | 575.4 | 553.2 | 547.3 |
| 65° | 504.5 | 510.8 | 518.4 | 531.3 | 530.2 | 518.7 | 493.8 | 481.8 | 473.4 |
| 67.5° | 436.2 | 438.3 | 448.6 | 454.7 | 458.9 | 443.0 | 428.7 | 411.9 | 408.3 |
| 70° | 389.9 | 387.8 | 400.6 | 405.0 | 409.2 | 396.6 | 382.4 | 367.2 | 357.8 |
| 72.5° | 339.3 | 341.4 | 350.9 | 357.8 | 360.3 | 347.8 | 332.7 | 321.0 | 314.9 |
| 75° | 274.2 | 272.1 | 281.7 | 286.0 | 284.9 | 275.5 | 260.3 | 252.6 | 244.2 |
| 77.5° | 202.0 | 206.2 | 211.9 | 215.7 | 214.2 | 207.9 | 196.0 | 184.4 | 180.8 |
| 80° | 157.5 | 161.6 | 168.2 | 170.2 | 167.1 | 160.8 | 153.2 | 142.3 | 137.1 |
| 82.5° | 116.3 | 118.8 | 125.3 | 129.1 | 124.3 | 120.5 | 113.8 | 105.5 | 99.4 |
| 85° | 58.9 | 61.0 | 67.5 | 69.5 | 65.3 | 65.3 | 58.9 | 51.3 | 47.1 |
| 87.5° | 13.7 | 14.5 | 19.7 | 25.6 | 20.6 | 22.2 | 17.1 | 12.8 | 9.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 1.7 | 1.7 | 1.7 | 3.5 | 5.1 | 18.5 | 20.6 | 18.0 | 18.0 |
| 95° | 5.4 | 5.4 | 7.5 | 23.5 | 22.5 | 38.2 | 53.6 | 50.3 | 50.3 |
| 97.5° | 10.9 | 12.0 | 17.1 | 69.7 | 52.5 | 51.0 | 72.4 | 80.6 | 82.0 |
| 100° | 16.1 | 17.1 | 25.7 | 113.8 | 78.2 | 66.7 | 79.3 | 94.3 | 97.5 |
| 102.5° | 22.1 | 24.0 | 41.1 | 179.0 | 109.9 | 78.3 | 90.4 | 103.8 | 107.8 |
| 105° | 33.2 | 36.3 | 84.6 | 300.1 | 166.0 | 102.1 | 113.5 | 119.0 | 122.1 |
| 107.5° | 49.3 | 62.0 | 227.9 | 421.7 | 235.6 | 134.9 | 147.0 | 146.2 | 148.9 |
| 110° | 66.4 | 92.6 | 394.2 | 488.2 | 287.1 | 160.3 | 160.7 | 169.2 | 166.0 |



TEST NUMBER: P522399

CATALOG NUMBER: SQW-F-075U-100D-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° | 110.1 | 184.1 | 587.8 | 552.1 | 338.5 | 190.8 | 173.5 | 192.4 | 193.4 |
| 115° | 302.1 | 518.9 | 803.3 | 641.8 | 414.5 | 244.9 | 197.1 | 215.5 | 222.8 |
| 117.5° | 748.9 | 902.7 | 913.7 | 721.4 | 490.4 | 305.2 | 224.1 | 232.2 | 241.9 |
| 120° | 1015.4 | 1046.9 | 965.1 | 770.3 | 540.9 | 348.2 | 246.4 | 243.4 | 253.9 |
| 122.5° | 1120.0 | 1108.7 | 1007.1 | 815.8 | 590.6 | 393.7 | 273.8 | 257.0 | 264.1 |
| 125° | 1204.0 | 1174.6 | 1059.3 | 878.8 | 663.0 | 461.9 | 325.6 | 279.6 | 279.6 |
| 127.5° | 1254.1 | 1219.9 | 1107.3 | 934.7 | 728.4 | 530.8 | 388.0 | 316.2 | 306.3 |
| 130° | 1283.2 | 1246.6 | 1136.5 | 973.3 | 771.2 | 575.4 | 431.7 | 347.8 | 332.1 |
| 132.5° | 1305.5 | 1272.2 | 1163.9 | 1003.6 | 813.2 | 619.0 | 475.4 | 386.9 | 361.2 |
| 135° | 1332.5 | 1304.2 | 1206.1 | 1049.9 | 871.9 | 684.4 | 540.9 | 454.6 | 428.5 |
| 137.5° | 1349.8 | 1327.8 | 1244.0 | 1088.0 | 926.3 | 749.3 | 607.1 | 520.5 | 496.8 |
| 140° | 1359.3 | 1341.5 | 1262.9 | 1110.5 | 959.7 | 791.1 | 653.4 | 565.1 | 543.1 |
| 142.5° | 1368.7 | 1354.2 | 1276.6 | 1135.6 | 992.3 | 832.9 | 698.8 | 610.4 | 586.8 |
| 145° | 1388.2 | 1371.4 | 1299.3 | 1165.7 | 1039.0 | 891.3 | 769.1 | 676.5 | 655.5 |
| 147.5° | 1401.9 | 1381.8 | 1317.9 | 1198.1 | 1083.1 | 944.3 | 833.6 | 744.2 | 723.4 |
| 150° | 1405.3 | 1384.4 | 1328.2 | 1215.5 | 1109.7 | 976.7 | 873.0 | 787.9 | 768.0 |
| 152.5° | 1402.8 | 1386.8 | 1335.9 | 1230.2 | 1132.0 | 1008.2 | 909.0 | 829.9 | 811.7 |
| 155° | 1404.3 | 1389.6 | 1342.1 | 1250.1 | 1160.0 | 1052.2 | 962.9 | 892.9 | 874.0 |
| 157.5° | 1397.8 | 1388.2 | 1346.4 | 1265.3 | 1186.0 | 1091.5 | 1012.4 | 953.5 | 934.5 |
| 160° | 1397.8 | 1383.2 | 1346.4 | 1274.1 | 1204.0 | 1117.0 | 1043.3 | 990.4 | 974.7 |
| 162.5° | 1388.4 | 1375.4 | 1345.6 | 1280.4 | 1221.1 | 1140.9 | 1072.4 | 1023.1 | 1011.6 |
| 165° | 1371.0 | 1360.6 | 1341.1 | 1288.6 | 1242.5 | 1173.4 | 1114.0 | 1069.9 | 1062.6 |
| 167.5° | 1357.6 | 1343.1 | 1332.5 | 1288.3 | 1257.1 | 1196.8 | 1149.1 | 1112.6 | 1108.4 |
| 170° | 1342.1 | 1332.7 | 1323.9 | 1285.9 | 1263.9 | 1213.7 | 1174.0 | 1137.4 | 1133.3 |
| 172.5° | 1322.4 | 1317.2 | 1312.8 | 1284.3 | 1268.2 | 1228.0 | 1195.4 | 1162.2 | 1154.7 |
| 175° | 1291.8 | 1296.0 | 1295.0 | 1280.9 | 1272.5 | 1246.3 | 1226.4 | 1202.7 | 1193.2 |
| 177.5° | 1272.9 | 1271.3 | 1275.5 | 1272.9 | 1272.1 | 1256.2 | 1250.7 | 1234.5 | 1239.5 |
| 180° | 1261.8 | 1261.8 | 1261.8 | 1261.8 | 1261.8 | 1261.8 | 1261.8 | 1261.8 | 1261.8 |

(END OF REPORT)