

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: P522404

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522404
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-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

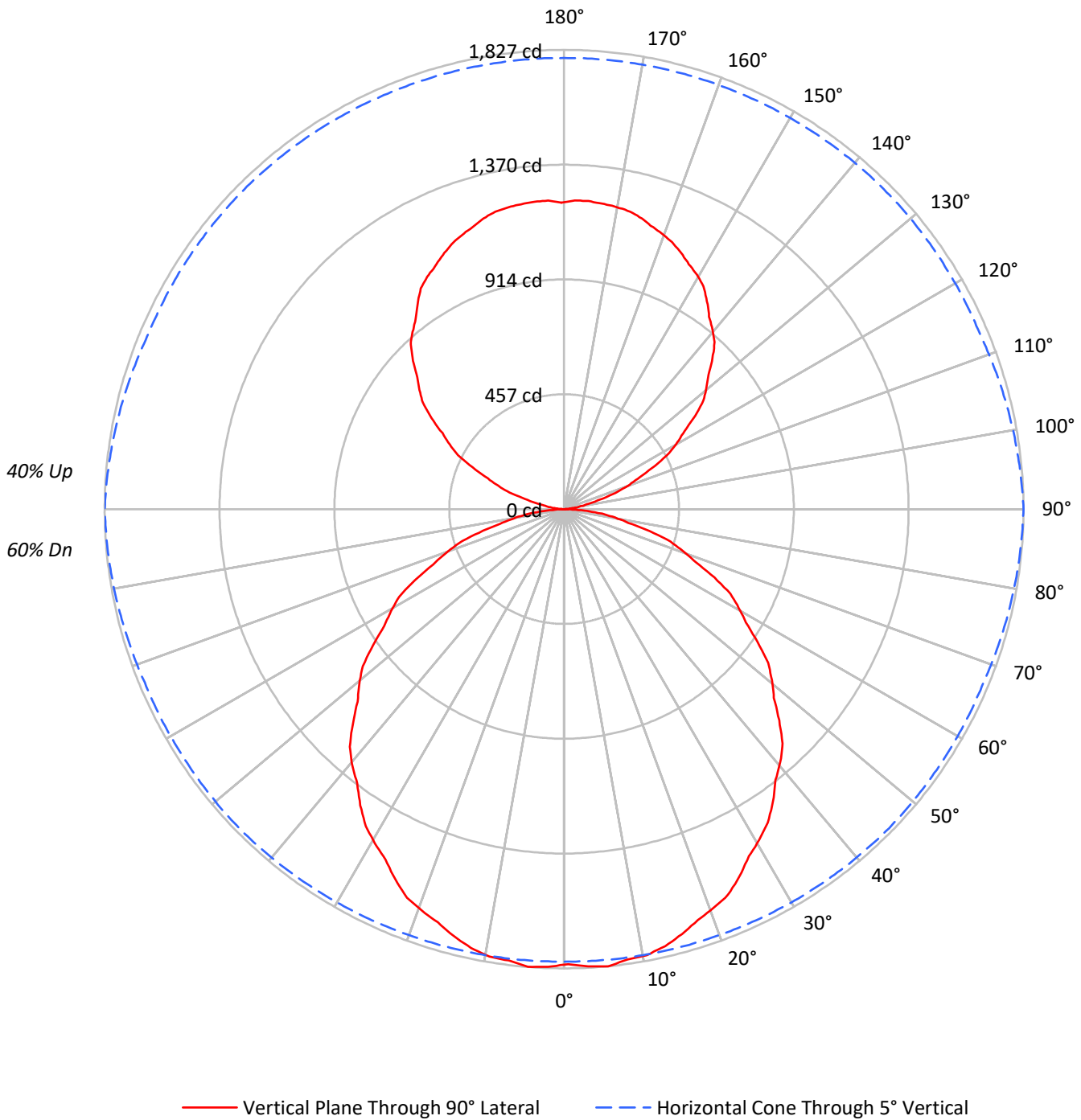
Lumens per Lamp: N/A
Luminaire Lumens: 8455.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 85
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: P522404
CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522404

CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|--|--|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 76 | 76 | 76 | 65 | 65 | 65 | 60 | | |
| 1 | 100 | 95 | 91 | 88 | 93 | 89 | 86 | 83 | 78 | 75 | 73 | 67 | 65 | 63 | 57 | 56 | 55 | 50 | | |
| 2 | 91 | 83 | 77 | 71 | 84 | 78 | 72 | 68 | 68 | 64 | 60 | 59 | 56 | 53 | 50 | 48 | 46 | 42 | | |
| 3 | 83 | 73 | 65 | 59 | 77 | 68 | 62 | 56 | 60 | 55 | 50 | 52 | 48 | 44 | 44 | 41 | 39 | 35 | | |
| 4 | 76 | 64 | 56 | 50 | 70 | 61 | 53 | 48 | 53 | 47 | 43 | 46 | 42 | 38 | 40 | 36 | 33 | 30 | | |
| 5 | 69 | 57 | 49 | 43 | 65 | 54 | 46 | 41 | 47 | 41 | 37 | 41 | 37 | 33 | 36 | 32 | 29 | 26 | | |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 43 | 37 | 32 | 37 | 32 | 29 | 32 | 28 | 25 | 23 | | |
| 7 | 59 | 46 | 38 | 33 | 55 | 44 | 36 | 31 | 39 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 23 | 20 | | |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 18 | | |
| 9 | 51 | 39 | 31 | 26 | 48 | 36 | 29 | 25 | 32 | 27 | 22 | 28 | 24 | 20 | 25 | 21 | 18 | 16 | | |
| 10 | 48 | 35 | 28 | 23 | 45 | 33 | 27 | 22 | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 16 | 15 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 29237 | 29237 | 29237 |
| 5° | 29180 | 29616 | 29096 |
| 10° | 29229 | 29586 | 28857 |
| 15° | 29195 | 29334 | 28866 |
| 20° | 28909 | 29122 | 28251 |
| 25° | 28461 | 28848 | 27872 |
| 30° | 28280 | 28493 | 27509 |
| 35° | 27839 | 28206 | 26840 |
| 40° | 27457 | 27914 | 26519 |
| 45° | 26909 | 27382 | 25848 |
| 50° | 26302 | 26899 | 25314 |
| 55° | 25633 | 26244 | 24408 |
| 60° | 24826 | 25762 | 23621 |
| 65° | 23717 | 25100 | 22254 |
| 70° | 22419 | 23741 | 20908 |
| 75° | 20524 | 21946 | 18846 |
| 80° | 17703 | 19052 | 15974 |
| 85° | 12653 | 14765 | 11115 |



TEST NUMBER: P522404

CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 171.4 | 2.0 |
| 10°-20° | 489.4 | 5.8 |
| 20°-30° | 736.4 | 8.7 |
| 30°-40° | 879.6 | 10.4 |
| 40°-50° | 903.9 | 10.7 |
| 50°-60° | 812.5 | 9.6 |
| 60°-70° | 617.6 | 7.3 |
| 70°-80° | 351.9 | 4.2 |
| 80°-90° | 91.6 | 1.1 |
| 90°-100° | 32.0 | 0.4 |
| 100°-110° | 138.7 | 1.6 |
| 110°-120° | 395.6 | 4.7 |
| 120°-130° | 601.5 | 7.1 |
| 130°-140° | 650.6 | 7.7 |
| 140°-150° | 621.7 | 7.4 |
| 150°-160° | 511.3 | 6.0 |
| 160°-170° | 334.1 | 4.0 |
| 170°-180° | 115.6 | 1.4 |
| 0°-30° | 1397.2 | 16.5 |
| 0°-40° | 2276.8 | 26.9 |
| 0°-60° | 3993.1 | 47.2 |
| 0°-90° | 5054.3 | 59.8 |
| 90°-120° | 566.4 | 6.7 |
| 90°-150° | 2440.2 | 28.9 |
| 90°-180° | 3401.0 | 40.2 |
| 0°-180° | 8455.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1811 | 1811 | 1811 | 1811 | 1811 | |
| 5° | 1800 | 1812 | 1827 | 1799 | 1795 | 171 |
| 15° | 1747 | 1740 | 1755 | 1735 | 1727 | 492 |
| 25° | 1598 | 1624 | 1619 | 1599 | 1564 | 739 |
| 35° | 1412 | 1433 | 1431 | 1399 | 1362 | 883 |
| 45° | 1178 | 1192 | 1199 | 1161 | 1132 | 906 |
| 55° | 911 | 929 | 932 | 891 | 867 | 812 |
| 65° | 621 | 635 | 657 | 614 | 582 | 614 |
| 75° | 329 | 340 | 352 | 323 | 302 | 348 |
| 85° | 68 | 82 | 80 | 71 | 60 | 84 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 5 | 7 | 22 | 52 | 49 | 7 |
| 105° | 32 | 82 | 160 | 110 | 118 | 37 |
| 115° | 292 | 776 | 400 | 190 | 215 | 401 |
| 125° | 1163 | 1023 | 640 | 315 | 270 | 1022 |
| 135° | 1287 | 1165 | 842 | 522 | 414 | 992 |
| 145° | 1341 | 1255 | 1004 | 743 | 633 | 840 |
| 155° | 1356 | 1296 | 1121 | 930 | 844 | 627 |
| 165° | 1324 | 1296 | 1200 | 1076 | 1026 | 376 |
| 175° | 1248 | 1251 | 1229 | 1185 | 1153 | 121 |
| 180° | 1219 | 1219 | 1219 | 1219 | 1219 | |



TEST NUMBER: P522404

CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 |
| 2.5° | 1808.3 | 1806.7 | 1814.1 | 1806.1 | 1821.5 | 1813.4 | 1808.3 | 1811.2 | 1795.0 |
| 5° | 1800.4 | 1804.5 | 1811.8 | 1805.1 | 1827.3 | 1794.9 | 1799.4 | 1796.3 | 1795.2 |
| 7.5° | 1794.4 | 1797.6 | 1795.7 | 1791.5 | 1809.5 | 1788.9 | 1787.0 | 1780.3 | 1778.3 |
| 10° | 1782.8 | 1786.9 | 1780.8 | 1783.3 | 1804.6 | 1774.2 | 1774.5 | 1758.0 | 1760.1 |
| 12.5° | 1761.3 | 1770.2 | 1768.3 | 1759.4 | 1784.7 | 1759.2 | 1764.6 | 1752.9 | 1748.5 |
| 15° | 1746.6 | 1737.5 | 1740.4 | 1742.7 | 1754.9 | 1726.6 | 1735.2 | 1720.9 | 1726.9 |
| 17.5° | 1715.6 | 1709.9 | 1711.8 | 1705.7 | 1719.7 | 1690.6 | 1695.3 | 1683.8 | 1679.8 |
| 20° | 1682.5 | 1682.5 | 1684.5 | 1681.7 | 1694.9 | 1666.5 | 1668.0 | 1648.2 | 1644.2 |
| 22.5° | 1657.6 | 1653.6 | 1664.7 | 1656.0 | 1667.6 | 1640.0 | 1639.8 | 1615.4 | 1624.3 |
| 25° | 1597.6 | 1602.7 | 1624.5 | 1605.2 | 1619.3 | 1584.9 | 1598.6 | 1571.6 | 1564.5 |
| 27.5° | 1551.7 | 1553.3 | 1565.3 | 1554.8 | 1564.7 | 1538.2 | 1550.4 | 1516.3 | 1506.1 |
| 30° | 1516.9 | 1512.9 | 1535.5 | 1519.2 | 1528.3 | 1509.1 | 1510.7 | 1473.5 | 1475.5 |
| 32.5° | 1468.9 | 1469.7 | 1495.0 | 1483.5 | 1487.7 | 1462.0 | 1466.8 | 1440.1 | 1429.2 |
| 35° | 1412.4 | 1412.4 | 1433.1 | 1420.9 | 1431.0 | 1399.7 | 1398.9 | 1370.8 | 1361.7 |
| 37.5° | 1346.6 | 1340.1 | 1365.2 | 1358.8 | 1366.7 | 1337.5 | 1327.3 | 1300.7 | 1295.5 |
| 40° | 1302.7 | 1298.7 | 1317.2 | 1313.3 | 1324.4 | 1296.1 | 1281.0 | 1256.2 | 1258.2 |
| 42.5° | 1246.4 | 1250.5 | 1265.9 | 1267.7 | 1273.9 | 1243.2 | 1233.8 | 1205.7 | 1207.7 |
| 45° | 1178.5 | 1176.5 | 1192.0 | 1191.1 | 1199.2 | 1172.9 | 1161.0 | 1127.9 | 1132.0 |
| 47.5° | 1094.3 | 1097.2 | 1113.8 | 1112.0 | 1123.1 | 1099.6 | 1080.5 | 1058.4 | 1053.3 |
| 50° | 1047.1 | 1049.2 | 1061.6 | 1063.9 | 1070.9 | 1046.7 | 1031.6 | 1008.8 | 1007.8 |
| 52.5° | 990.0 | 988.0 | 1006.2 | 1010.8 | 1016.3 | 998.5 | 979.5 | 953.3 | 949.9 |
| 55° | 910.6 | 911.6 | 929.2 | 936.3 | 932.3 | 920.1 | 890.9 | 865.1 | 867.1 |
| 57.5° | 823.4 | 830.9 | 839.2 | 851.6 | 852.4 | 832.8 | 813.7 | 788.6 | 784.5 |
| 60° | 768.8 | 769.8 | 785.4 | 797.8 | 797.8 | 776.5 | 753.3 | 731.5 | 731.5 |
| 62.5° | 706.7 | 711.8 | 724.9 | 736.6 | 742.3 | 725.1 | 696.2 | 673.6 | 671.9 |
| 65° | 620.8 | 621.8 | 635.3 | 651.0 | 657.0 | 633.8 | 613.6 | 587.6 | 582.5 |
| 67.5° | 532.1 | 536.3 | 547.2 | 559.5 | 566.6 | 541.5 | 520.3 | 500.0 | 501.6 |
| 70° | 474.9 | 475.9 | 484.2 | 499.8 | 502.9 | 482.6 | 461.5 | 442.9 | 442.9 |
| 72.5° | 412.9 | 419.5 | 426.3 | 440.2 | 442.4 | 424.6 | 407.7 | 389.8 | 385.7 |
| 75° | 329.0 | 334.1 | 340.4 | 348.8 | 351.8 | 336.6 | 322.8 | 307.2 | 302.1 |
| 77.5° | 245.8 | 250.7 | 261.4 | 262.6 | 262.0 | 251.5 | 240.7 | 229.0 | 223.9 |
| 80° | 190.4 | 194.4 | 205.9 | 207.9 | 204.9 | 196.8 | 185.2 | 176.8 | 171.8 |
| 82.5° | 138.2 | 145.5 | 153.8 | 155.7 | 151.9 | 147.9 | 138.0 | 128.0 | 123.8 |
| 85° | 68.3 | 72.3 | 81.7 | 85.7 | 79.7 | 77.7 | 71.4 | 63.0 | 60.0 |
| 87.5° | 13.2 | 16.5 | 24.8 | 30.5 | 23.2 | 27.2 | 20.7 | 14.9 | 13.2 |
| 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 | 3.3 | 5.0 | 17.9 | 19.9 | 17.4 | 17.4 |
| 95° | 5.2 | 5.2 | 7.2 | 22.7 | 21.7 | 36.9 | 51.7 | 48.6 | 48.6 |
| 97.5° | 10.6 | 11.6 | 16.6 | 67.3 | 50.7 | 49.3 | 69.9 | 77.8 | 79.3 |
| 100° | 15.5 | 16.5 | 24.8 | 109.9 | 75.5 | 64.4 | 76.6 | 91.1 | 94.2 |
| 102.5° | 21.3 | 23.1 | 39.7 | 172.9 | 106.2 | 75.6 | 87.3 | 100.2 | 104.1 |
| 105° | 32.1 | 35.1 | 81.7 | 289.9 | 160.4 | 98.7 | 109.7 | 114.9 | 118.0 |
| 107.5° | 47.6 | 59.9 | 220.2 | 407.3 | 227.6 | 130.3 | 142.0 | 141.2 | 143.8 |
| 110° | 64.2 | 89.4 | 380.8 | 471.6 | 277.3 | 154.9 | 155.2 | 163.4 | 160.4 |



TEST NUMBER: P522404

CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 106.4 | 177.8 | 567.9 | 533.4 | 327.0 | 184.3 | 167.6 | 185.9 | 186.9 |
| 115° | 291.8 | 501.2 | 776.0 | 620.0 | 400.4 | 236.5 | 190.4 | 208.1 | 215.2 |
| 117.5° | 723.5 | 872.0 | 882.6 | 696.9 | 473.7 | 294.8 | 216.5 | 224.3 | 233.6 |
| 120° | 980.9 | 1011.3 | 932.3 | 744.1 | 522.5 | 336.4 | 238.0 | 235.1 | 245.2 |
| 122.5° | 1081.9 | 1071.0 | 972.8 | 788.1 | 570.5 | 380.3 | 264.5 | 248.3 | 255.2 |
| 125° | 1163.0 | 1134.7 | 1023.3 | 848.9 | 640.5 | 446.2 | 314.6 | 270.1 | 270.1 |
| 127.5° | 1211.5 | 1178.5 | 1069.7 | 902.9 | 703.6 | 512.8 | 374.8 | 305.4 | 295.9 |
| 130° | 1239.6 | 1204.2 | 1097.8 | 940.3 | 745.0 | 555.8 | 417.0 | 335.9 | 320.8 |
| 132.5° | 1261.1 | 1228.9 | 1124.3 | 969.5 | 785.6 | 598.0 | 459.2 | 373.8 | 348.9 |
| 135° | 1287.2 | 1259.9 | 1165.1 | 1014.3 | 842.3 | 661.2 | 522.5 | 439.2 | 413.9 |
| 137.5° | 1304.0 | 1282.7 | 1201.7 | 1051.0 | 894.8 | 723.8 | 586.5 | 502.8 | 479.9 |
| 140° | 1313.1 | 1295.9 | 1219.9 | 1072.8 | 927.1 | 764.2 | 631.2 | 545.8 | 524.6 |
| 142.5° | 1322.2 | 1308.2 | 1233.2 | 1097.0 | 958.6 | 804.6 | 675.1 | 589.7 | 566.8 |
| 145° | 1341.0 | 1324.8 | 1255.1 | 1126.1 | 1003.7 | 861.0 | 742.9 | 653.5 | 633.2 |
| 147.5° | 1354.2 | 1334.8 | 1273.1 | 1157.4 | 1046.3 | 912.2 | 805.2 | 718.9 | 698.8 |
| 150° | 1357.6 | 1337.3 | 1283.1 | 1174.2 | 1072.0 | 943.5 | 843.3 | 761.1 | 741.9 |
| 152.5° | 1355.1 | 1339.7 | 1290.5 | 1188.4 | 1093.5 | 973.9 | 878.1 | 801.7 | 784.1 |
| 155° | 1356.5 | 1342.4 | 1296.5 | 1207.6 | 1120.6 | 1016.4 | 930.2 | 862.5 | 844.3 |
| 157.5° | 1350.3 | 1341.0 | 1300.6 | 1222.3 | 1145.6 | 1054.4 | 978.0 | 921.1 | 902.7 |
| 160° | 1350.3 | 1336.1 | 1300.6 | 1230.8 | 1163.0 | 1079.1 | 1007.8 | 956.8 | 941.6 |
| 162.5° | 1341.2 | 1328.7 | 1299.8 | 1236.8 | 1179.6 | 1102.1 | 1036.0 | 988.3 | 977.2 |
| 165° | 1324.4 | 1314.3 | 1295.5 | 1244.8 | 1200.3 | 1133.5 | 1076.1 | 1033.5 | 1026.4 |
| 167.5° | 1311.4 | 1297.4 | 1287.2 | 1244.5 | 1214.3 | 1156.1 | 1110.0 | 1074.8 | 1070.7 |
| 170° | 1296.5 | 1287.4 | 1278.9 | 1242.2 | 1221.0 | 1172.4 | 1134.1 | 1098.8 | 1094.7 |
| 172.5° | 1277.5 | 1272.4 | 1268.2 | 1240.7 | 1225.1 | 1186.3 | 1154.7 | 1122.7 | 1115.4 |
| 175° | 1247.9 | 1251.9 | 1251.0 | 1237.3 | 1229.2 | 1204.0 | 1184.8 | 1161.8 | 1152.7 |
| 177.5° | 1229.7 | 1228.0 | 1232.1 | 1229.6 | 1228.8 | 1213.5 | 1208.1 | 1192.5 | 1197.4 |
| 180° | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 |

(END OF REPORT)