

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: P522374

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522374
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-025D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

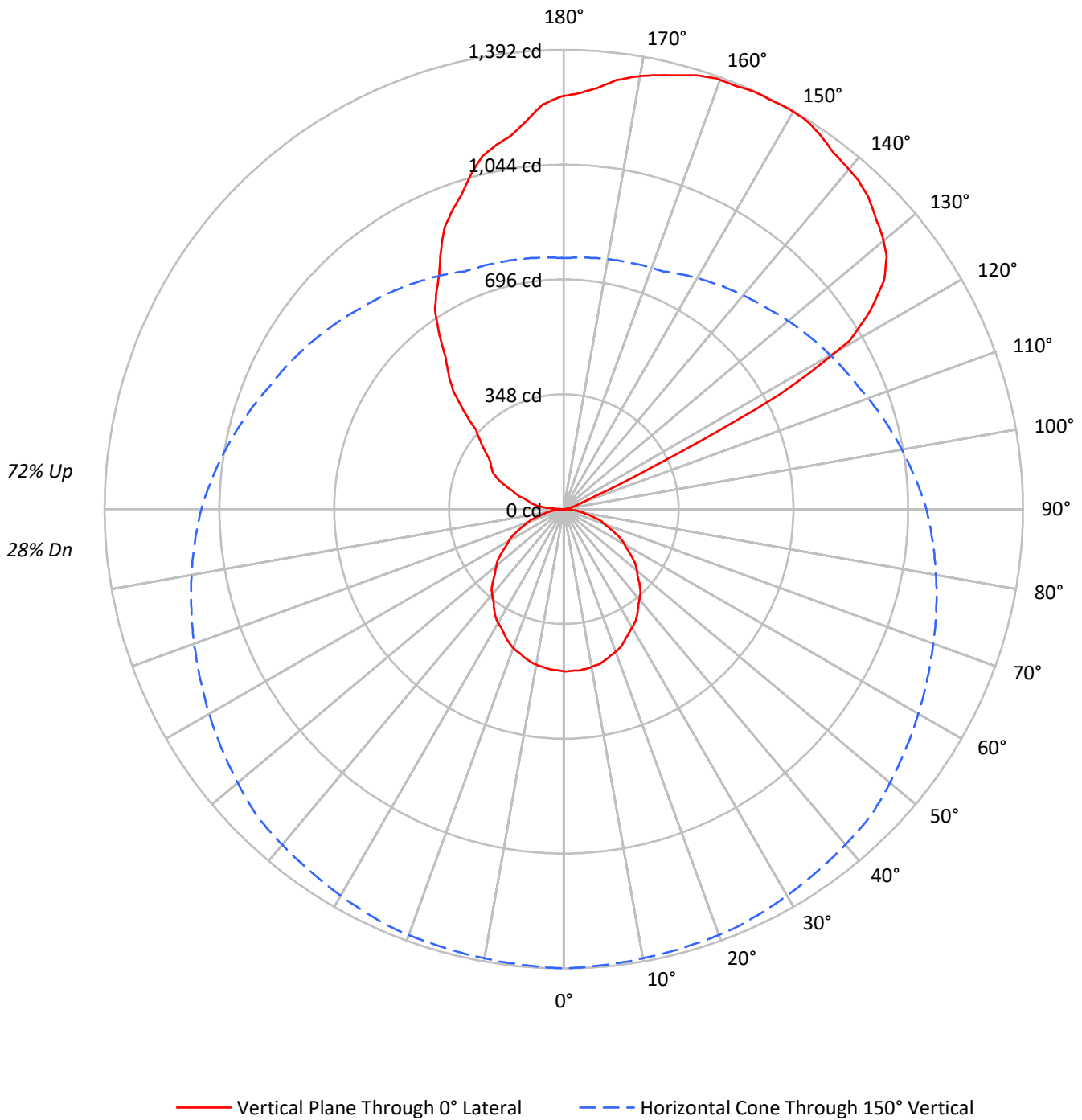
Lumens per Lamp: N/A
Luminaire Lumens: 4861.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 39.9
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: P522374
CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P522374

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (5700K)

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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 |
| 1 | 93 | 89 | 85 | 81 | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 45 | 44 | 32 | 31 | 30 | 24 |
| 2 | 84 | 77 | 71 | 66 | 75 | 69 | 64 | 60 | 54 | 51 | 48 | 41 | 38 | 36 | 28 | 27 | 25 | 20 |
| 3 | 77 | 68 | 61 | 55 | 69 | 61 | 55 | 50 | 48 | 44 | 40 | 36 | 33 | 31 | 25 | 23 | 22 | 17 |
| 4 | 70 | 60 | 52 | 46 | 63 | 54 | 47 | 42 | 42 | 38 | 34 | 32 | 29 | 26 | 22 | 20 | 18 | 14 |
| 5 | 64 | 53 | 45 | 39 | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 23 | 20 | 18 | 16 | 12 |
| 6 | 59 | 47 | 40 | 34 | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 26 | 22 | 20 | 18 | 16 | 14 | 11 |
| 7 | 55 | 43 | 35 | 30 | 49 | 38 | 32 | 27 | 31 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 9 |
| 8 | 50 | 39 | 31 | 26 | 45 | 35 | 28 | 24 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 13 | 11 | 8 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 25 | 21 | 25 | 21 | 17 | 19 | 16 | 14 | 14 | 11 | 10 | 8 |
| 10 | 44 | 32 | 25 | 20 | 39 | 29 | 23 | 19 | 23 | 19 | 15 | 18 | 14 | 12 | 13 | 10 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 7949 | 7949 | 7949 |
| 5° | 7963 | 8031 | 7911 |
| 10° | 7950 | 8020 | 7863 |
| 15° | 7928 | 7982 | 7804 |
| 20° | 7876 | 7931 | 7730 |
| 25° | 7750 | 7844 | 7580 |
| 30° | 7676 | 7754 | 7457 |
| 35° | 7592 | 7675 | 7340 |
| 40° | 7470 | 7558 | 7179 |
| 45° | 7341 | 7437 | 7003 |
| 50° | 7196 | 7302 | 6769 |
| 55° | 6959 | 7139 | 6570 |
| 60° | 6749 | 6956 | 6303 |
| 65° | 6403 | 6770 | 5998 |
| 70° | 6061 | 6463 | 5608 |
| 75° | 5627 | 5958 | 5028 |
| 80° | 5030 | 5225 | 4435 |
| 85° | 3742 | 3927 | 2946 |



TEST NUMBER: P522374

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (5700K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.6 | 1.0 |
| 10°-20° | 133.2 | 2.7 |
| 20°-30° | 200.2 | 4.1 |
| 30°-40° | 239.4 | 4.9 |
| 40°-50° | 246.1 | 5.1 |
| 50°-60° | 219.9 | 4.5 |
| 60°-70° | 167.0 | 3.4 |
| 70°-80° | 95.4 | 2.0 |
| 80°-90° | 25.2 | 0.5 |
| 90°-100° | 32.9 | 0.7 |
| 100°-110° | 142.3 | 2.9 |
| 110°-120° | 405.7 | 8.3 |
| 120°-130° | 616.9 | 12.7 |
| 130°-140° | 667.2 | 13.7 |
| 140°-150° | 637.5 | 13.1 |
| 150°-160° | 524.3 | 10.8 |
| 160°-170° | 342.6 | 7.0 |
| 170°-180° | 118.5 | 2.4 |
| 0°-30° | 380.0 | 7.8 |
| 0°-40° | 619.4 | 12.7 |
| 0°-60° | 1085.5 | 22.3 |
| 0°-90° | 1373.2 | 28.2 |
| 90°-120° | 580.8 | 11.9 |
| 90°-150° | 2502.4 | 51.5 |
| 90°-180° | 3488.0 | 71.8 |
| 0°-180° | 4861.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 492 | 492 | 492 | 492 | 492 | |
| 5° | 491 | 491 | 496 | 490 | 488 | 47 |
| 15° | 474 | 475 | 478 | 471 | 467 | 134 |
| 25° | 435 | 440 | 440 | 433 | 426 | 201 |
| 35° | 385 | 390 | 389 | 381 | 372 | 241 |
| 45° | 322 | 326 | 326 | 316 | 307 | 248 |
| 55° | 247 | 252 | 254 | 241 | 233 | 221 |
| 65° | 168 | 173 | 177 | 164 | 157 | 166 |
| 75° | 90 | 93 | 96 | 86 | 81 | 96 |
| 85° | 20 | 23 | 21 | 19 | 16 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | 1 |
| 95° | 5 | 7 | 22 | 53 | 50 | 7 |
| 105° | 33 | 84 | 164 | 112 | 121 | 38 |
| 115° | 299 | 796 | 411 | 195 | 221 | 412 |
| 125° | 1193 | 1049 | 657 | 323 | 277 | 1048 |
| 135° | 1320 | 1195 | 864 | 536 | 424 | 1017 |
| 145° | 1375 | 1287 | 1029 | 762 | 649 | 861 |
| 155° | 1391 | 1330 | 1149 | 954 | 866 | 643 |
| 165° | 1358 | 1328 | 1231 | 1104 | 1053 | 386 |
| 175° | 1280 | 1283 | 1261 | 1215 | 1182 | 124 |
| 180° | 1250 | 1250 | 1250 | 1250 | 1250 | |

TEST NUMBER: P522374

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 |
| 2.5° | 490.6 | 491.5 | 492.3 | 492.4 | 496.6 | 491.6 | 491.5 | 490.6 | 488.9 |
| 5° | 491.3 | 491.3 | 491.3 | 490.3 | 495.5 | 489.3 | 490.2 | 488.1 | 488.1 |
| 7.5° | 488.3 | 487.5 | 487.7 | 486.5 | 491.7 | 485.3 | 485.3 | 484.1 | 483.8 |
| 10° | 484.9 | 484.9 | 486.0 | 484.0 | 489.2 | 481.9 | 482.8 | 480.6 | 479.6 |
| 12.5° | 481.5 | 480.7 | 481.7 | 479.7 | 484.9 | 477.6 | 477.7 | 474.7 | 474.5 |
| 15° | 474.3 | 474.3 | 475.4 | 473.3 | 477.5 | 471.3 | 471.1 | 467.9 | 466.9 |
| 17.5° | 465.2 | 465.0 | 467.3 | 464.2 | 468.4 | 461.1 | 461.1 | 458.3 | 456.7 |
| 20° | 458.4 | 457.3 | 460.5 | 457.4 | 461.6 | 454.3 | 455.2 | 449.9 | 449.9 |
| 22.5° | 449.9 | 448.9 | 452.9 | 448.9 | 453.1 | 445.8 | 446.7 | 440.5 | 439.7 |
| 25° | 435.0 | 436.1 | 440.3 | 437.2 | 440.3 | 433.1 | 432.9 | 426.5 | 425.5 |
| 27.5° | 422.7 | 421.9 | 427.4 | 423.0 | 426.1 | 418.9 | 418.9 | 411.2 | 410.2 |
| 30° | 411.7 | 411.7 | 418.1 | 412.8 | 415.9 | 408.7 | 409.6 | 401.1 | 400.0 |
| 32.5° | 401.5 | 401.5 | 407.0 | 403.5 | 405.8 | 398.5 | 397.7 | 390.0 | 389.0 |
| 35° | 385.2 | 385.2 | 390.5 | 387.3 | 389.4 | 382.2 | 380.9 | 372.4 | 372.4 |
| 37.5° | 367.1 | 366.3 | 371.4 | 369.3 | 371.4 | 364.3 | 361.8 | 354.4 | 353.3 |
| 40° | 354.4 | 354.4 | 358.6 | 356.6 | 358.6 | 352.4 | 349.1 | 341.6 | 340.6 |
| 42.5° | 340.8 | 340.8 | 345.9 | 343.8 | 345.9 | 338.9 | 335.5 | 328.1 | 327.0 |
| 45° | 321.5 | 321.5 | 325.7 | 324.7 | 325.7 | 319.5 | 316.2 | 307.7 | 306.7 |
| 47.5° | 300.9 | 300.1 | 304.1 | 304.4 | 306.0 | 299.2 | 294.8 | 286.7 | 285.6 |
| 50° | 286.5 | 286.5 | 289.7 | 290.7 | 290.7 | 285.5 | 281.2 | 270.6 | 269.5 |
| 52.5° | 269.5 | 270.3 | 273.5 | 274.6 | 275.5 | 268.6 | 264.2 | 256.1 | 255.1 |
| 55° | 247.2 | 246.2 | 251.5 | 252.6 | 253.6 | 247.4 | 240.9 | 234.5 | 233.4 |
| 57.5° | 224.3 | 224.1 | 228.6 | 229.8 | 230.7 | 225.5 | 219.0 | 211.8 | 210.5 |
| 60° | 209.0 | 208.0 | 213.3 | 215.4 | 215.4 | 210.2 | 203.7 | 197.3 | 195.2 |
| 62.5° | 191.2 | 193.5 | 197.1 | 199.3 | 201.0 | 194.9 | 187.6 | 182.0 | 180.0 |
| 65° | 167.6 | 168.7 | 173.0 | 175.1 | 177.2 | 171.0 | 164.5 | 159.1 | 157.0 |
| 67.5° | 143.7 | 145.5 | 148.8 | 150.9 | 153.0 | 147.0 | 140.5 | 136.0 | 134.1 |
| 70° | 128.4 | 129.4 | 132.6 | 134.8 | 136.9 | 131.7 | 125.2 | 119.9 | 118.8 |
| 72.5° | 113.1 | 114.1 | 117.4 | 118.7 | 119.9 | 114.7 | 109.1 | 105.4 | 103.6 |
| 75° | 90.2 | 91.2 | 93.4 | 94.5 | 95.5 | 90.3 | 85.9 | 82.7 | 80.6 |
| 77.5° | 68.5 | 68.5 | 70.7 | 71.5 | 71.5 | 68.4 | 64.3 | 61.3 | 59.6 |
| 80° | 54.1 | 54.1 | 56.2 | 56.2 | 56.2 | 53.1 | 49.9 | 47.7 | 47.7 |
| 82.5° | 39.7 | 40.5 | 42.7 | 42.6 | 41.8 | 39.5 | 37.1 | 35.0 | 35.0 |
| 85° | 20.2 | 21.2 | 23.3 | 23.3 | 21.2 | 21.2 | 19.1 | 18.0 | 15.9 |
| 87.5° | 5.1 | 5.9 | 7.6 | 8.5 | 6.8 | 6.8 | 5.1 | 3.4 | 3.4 |
| 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 | 3.4 | 5.1 | 18.4 | 20.4 | 17.8 | 17.8 |
| 95° | 5.3 | 5.3 | 7.4 | 23.3 | 22.3 | 37.8 | 53.1 | 49.9 | 49.9 |
| 97.5° | 10.8 | 11.9 | 17.0 | 69.0 | 52.0 | 50.5 | 71.7 | 79.8 | 81.3 |
| 100° | 15.9 | 17.0 | 25.5 | 112.7 | 77.5 | 66.0 | 78.5 | 93.4 | 96.6 |
| 102.5° | 21.9 | 23.7 | 40.7 | 177.3 | 108.9 | 77.5 | 89.6 | 102.8 | 106.7 |
| 105° | 32.9 | 36.0 | 83.8 | 297.3 | 164.5 | 101.2 | 112.5 | 117.8 | 121.0 |
| 107.5° | 48.8 | 61.5 | 225.8 | 417.7 | 233.4 | 133.6 | 145.6 | 144.8 | 147.5 |
| 110° | 65.8 | 91.7 | 390.5 | 483.6 | 284.4 | 158.8 | 159.2 | 167.6 | 164.5 |



TEST NUMBER: P522374

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 109.1 | 182.3 | 582.3 | 546.9 | 335.3 | 189.0 | 171.9 | 190.6 | 191.6 |
| 115° | 299.2 | 514.0 | 795.8 | 635.8 | 410.6 | 242.6 | 195.2 | 213.4 | 220.7 |
| 117.5° | 741.9 | 894.2 | 905.1 | 714.6 | 485.8 | 302.3 | 222.0 | 230.0 | 239.6 |
| 120° | 1005.9 | 1037.0 | 956.0 | 763.1 | 535.8 | 344.9 | 244.0 | 241.1 | 251.5 |
| 122.5° | 1109.5 | 1098.3 | 997.6 | 808.1 | 585.1 | 390.0 | 271.2 | 254.6 | 261.7 |
| 125° | 1192.6 | 1163.6 | 1049.4 | 870.5 | 656.8 | 457.6 | 322.6 | 276.9 | 276.9 |
| 127.5° | 1242.3 | 1208.5 | 1096.9 | 925.9 | 721.5 | 525.9 | 384.3 | 313.2 | 303.5 |
| 130° | 1271.2 | 1234.9 | 1125.8 | 964.2 | 764.0 | 570.0 | 427.6 | 344.5 | 328.9 |
| 132.5° | 1293.2 | 1260.2 | 1153.0 | 994.2 | 805.6 | 613.2 | 470.9 | 383.3 | 357.8 |
| 135° | 1320.0 | 1292.0 | 1194.8 | 1040.1 | 863.7 | 678.0 | 535.8 | 450.4 | 424.4 |
| 137.5° | 1337.2 | 1315.4 | 1232.3 | 1077.8 | 917.6 | 742.3 | 601.4 | 515.6 | 492.1 |
| 140° | 1346.5 | 1328.9 | 1251.0 | 1100.1 | 950.7 | 783.7 | 647.3 | 559.8 | 538.0 |
| 142.5° | 1355.8 | 1341.5 | 1264.6 | 1124.9 | 983.0 | 825.1 | 692.2 | 604.7 | 581.3 |
| 145° | 1375.1 | 1358.5 | 1287.1 | 1154.8 | 1029.2 | 883.0 | 761.8 | 670.1 | 649.4 |
| 147.5° | 1388.7 | 1368.8 | 1305.5 | 1186.9 | 1073.0 | 935.4 | 825.7 | 737.2 | 716.6 |
| 150° | 1392.1 | 1371.4 | 1315.7 | 1204.1 | 1099.3 | 967.5 | 864.8 | 780.5 | 760.8 |
| 152.5° | 1389.6 | 1373.8 | 1323.4 | 1218.7 | 1121.3 | 998.7 | 900.4 | 822.1 | 804.1 |
| 155° | 1391.1 | 1376.5 | 1329.5 | 1238.4 | 1149.1 | 1042.3 | 953.9 | 884.5 | 865.8 |
| 157.5° | 1384.7 | 1375.2 | 1333.8 | 1253.5 | 1174.8 | 1081.2 | 1002.9 | 944.6 | 925.7 |
| 160° | 1384.7 | 1370.2 | 1333.8 | 1262.2 | 1192.6 | 1106.5 | 1033.5 | 981.1 | 965.6 |
| 162.5° | 1375.4 | 1362.5 | 1332.9 | 1268.3 | 1209.6 | 1130.1 | 1062.3 | 1013.5 | 1002.1 |
| 165° | 1358.2 | 1347.8 | 1328.5 | 1276.5 | 1230.8 | 1162.4 | 1103.5 | 1059.8 | 1052.6 |
| 167.5° | 1344.8 | 1330.5 | 1320.0 | 1276.2 | 1245.3 | 1185.5 | 1138.3 | 1102.1 | 1098.0 |
| 170° | 1329.5 | 1320.2 | 1311.5 | 1273.9 | 1252.1 | 1202.3 | 1162.9 | 1126.8 | 1122.6 |
| 172.5° | 1310.0 | 1304.8 | 1300.4 | 1272.3 | 1256.3 | 1216.5 | 1184.2 | 1151.3 | 1143.8 |
| 175° | 1279.7 | 1283.8 | 1282.8 | 1268.9 | 1260.6 | 1234.6 | 1214.9 | 1191.4 | 1182.0 |
| 177.5° | 1261.0 | 1259.3 | 1263.5 | 1261.0 | 1260.1 | 1244.4 | 1238.9 | 1222.9 | 1227.9 |
| 180° | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 |

(END OF REPORT)