

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: P522391

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522391
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-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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

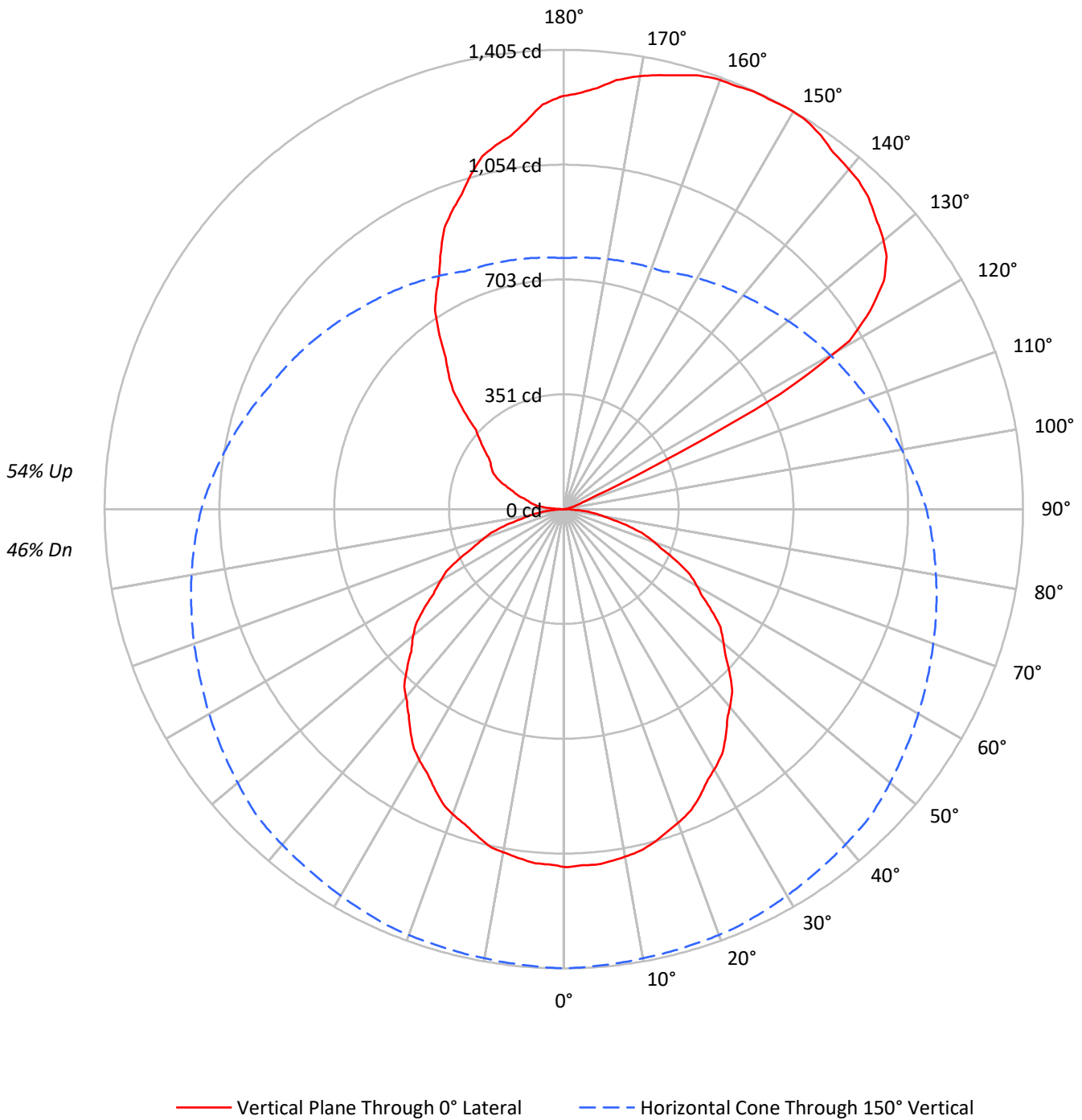
Lumens per Lamp: N/A
Luminaire Lumens: 6580.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.2
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: P522391
CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522391

CATALOG NUMBER: SQW-F-075U-075D-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 67 | 67 | 67 | 53 | 53 | 53 | 46 |
| 1 | 97 | 93 | 89 | 85 | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 47 | 45 | 44 | 39 |
| 2 | 88 | 81 | 74 | 69 | 81 | 74 | 69 | 64 | 62 | 58 | 55 | 51 | 48 | 46 | 41 | 39 | 37 | 32 |
| 3 | 80 | 71 | 63 | 58 | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 42 | 39 | 36 | 34 | 32 | 27 |
| 4 | 73 | 63 | 55 | 48 | 67 | 58 | 51 | 45 | 49 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5 | 67 | 56 | 47 | 41 | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 29 | 26 | 23 | 20 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7 | 57 | 45 | 37 | 31 | 52 | 42 | 34 | 29 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 19 | 22 | 19 | 16 | 14 |
| 9 | 49 | 37 | 30 | 25 | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 15 | 12 |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 | 11 |

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: P522391

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

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.6 | 1.6 |
| 10°-20° | 296.2 | 4.5 |
| 20°-30° | 445.5 | 6.8 |
| 30°-40° | 532.1 | 8.1 |
| 40°-50° | 547.1 | 8.3 |
| 50°-60° | 492.3 | 7.5 |
| 60°-70° | 374.7 | 5.7 |
| 70°-80° | 212.3 | 3.2 |
| 80°-90° | 55.9 | 0.8 |
| 90°-100° | 33.2 | 0.5 |
| 100°-110° | 143.6 | 2.2 |
| 110°-120° | 409.5 | 6.2 |
| 120°-130° | 622.7 | 9.5 |
| 130°-140° | 673.5 | 10.2 |
| 140°-150° | 643.5 | 9.8 |
| 150°-160° | 529.3 | 8.0 |
| 160°-170° | 345.8 | 5.3 |
| 170°-180° | 119.6 | 1.8 |
| 0°-30° | 845.3 | 12.8 |
| 0°-40° | 1377.5 | 20.9 |
| 0°-60° | 2416.8 | 36.7 |
| 0°-90° | 3059.7 | 46.5 |
| 90°-120° | 586.3 | 8.9 |
| 90°-150° | 2526.1 | 38.4 |
| 90°-180° | 3521.0 | 53.5 |
| 0°-180° | 6580.6 | 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 | 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: P522391

CATALOG NUMBER: SQW-F-075U-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° | 1.7 | 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: P522391

CATALOG NUMBER: SQW-F-075U-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° | 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)