

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: P522386

Luminaire Tested: **SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522386  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6143.5 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

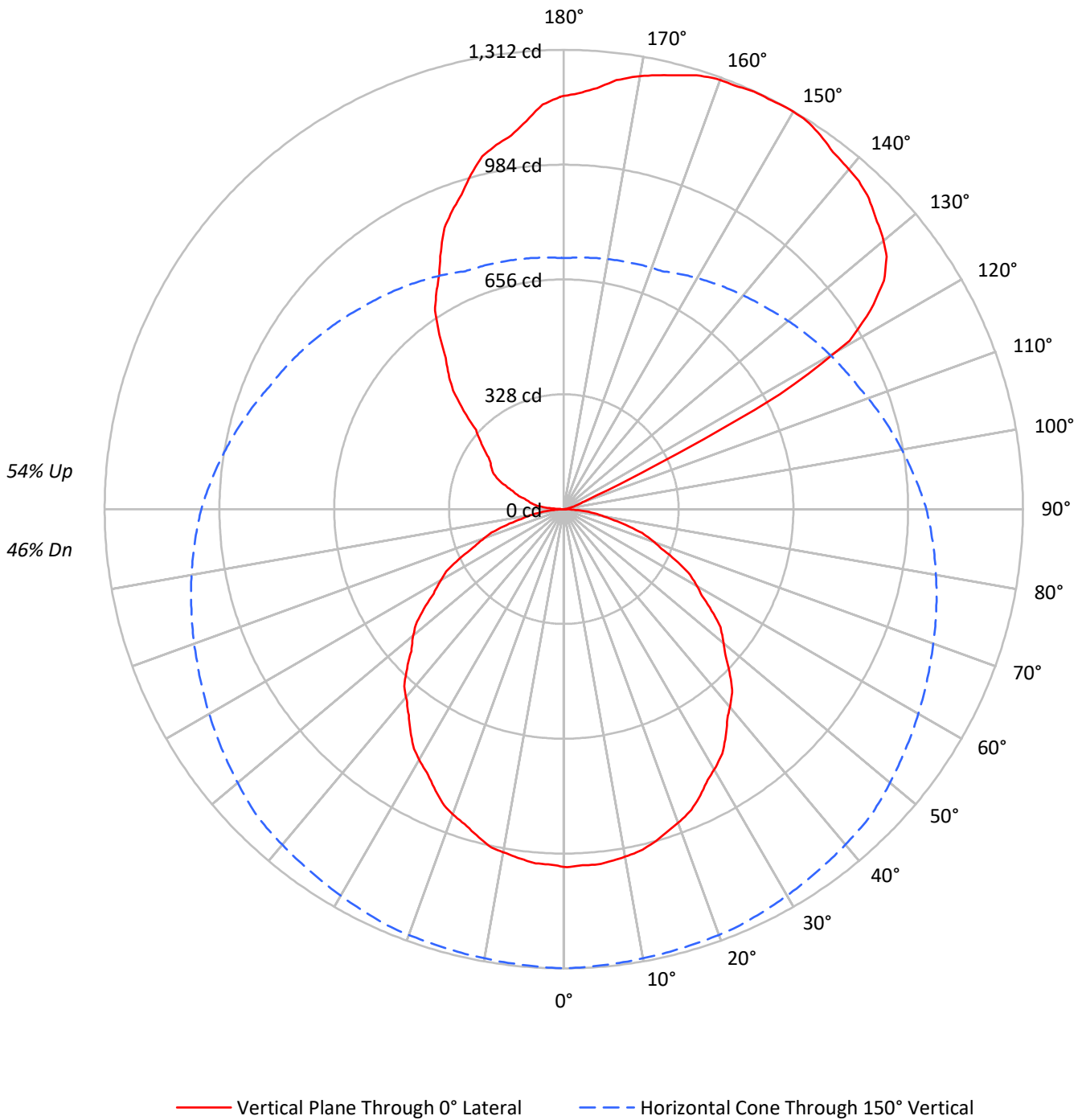
Input Watts (W): 57.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P522386

CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522386

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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   | 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  | 49  | 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°  | 16517 | 16517 | 16517 |
| 5°  | 16532 | 16678 | 16451 |
| 10° | 16510 | 16624 | 16346 |
| 15° | 16448 | 16565 | 16197 |
| 20° | 16340 | 16460 | 15996 |
| 25° | 16140 | 16319 | 15748 |
| 30° | 15940 | 16127 | 15493 |
| 35° | 15709 | 15906 | 15236 |
| 40° | 15449 | 15681 | 14880 |
| 45° | 15162 | 15458 | 14591 |
| 50° | 14820 | 15172 | 14242 |
| 55° | 14441 | 14863 | 13821 |
| 60° | 13982 | 14564 | 13304 |
| 65° | 13372 | 14097 | 12646 |
| 70° | 12652 | 13454 | 11707 |
| 75° | 11541 | 12227 | 10543 |
| 80° | 10042 | 10879 | 9019  |
| 85° | 7595  | 8522  | 6299  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.8   | 1.6       |
| 10°-20°   | 276.5  | 4.5       |
| 20°-30°   | 415.9  | 6.8       |
| 30°-40°   | 496.8  | 8.1       |
| 40°-50°   | 510.7  | 8.3       |
| 50°-60°   | 459.6  | 7.5       |
| 60°-70°   | 349.8  | 5.7       |
| 70°-80°   | 198.2  | 3.2       |
| 80°-90°   | 52.1   | 0.8       |
| 90°-100°  | 31.0   | 0.5       |
| 100°-110° | 134.1  | 2.2       |
| 110°-120° | 382.3  | 6.2       |
| 120°-130° | 581.4  | 9.5       |
| 130°-140° | 628.8  | 10.2      |
| 140°-150° | 600.8  | 9.8       |
| 150°-160° | 494.1  | 8.0       |
| 160°-170° | 322.9  | 5.3       |
| 170°-180° | 111.7  | 1.8       |
| 0°-30°    | 789.2  | 12.8      |
| 0°-40°    | 1286.0 | 20.9      |
| 0°-60°    | 2256.4 | 36.7      |
| 0°-90°    | 2856.5 | 46.5      |
| 90°-120°  | 547.4  | 8.9       |
| 90°-150°  | 2358.3 | 38.4      |
| 90°-180°  | 3287.0 | 53.5      |
| 0°-180°   | 6143.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1023 | 1023 | 1023 | 1023 | 1023 |      |
| 5°   | 1020 | 1020 | 1029 | 1017 | 1015 | 97   |
| 15°  | 984  | 986  | 991  | 978  | 969  | 278  |
| 25°  | 906  | 915  | 916  | 900  | 884  | 417  |
| 35°  | 797  | 808  | 807  | 790  | 773  | 498  |
| 45°  | 664  | 673  | 677  | 657  | 639  | 512  |
| 55°  | 513  | 523  | 528  | 508  | 491  | 458  |
| 65°  | 350  | 360  | 369  | 347  | 331  | 347  |
| 75°  | 185  | 191  | 196  | 180  | 169  | 196  |
| 85°  | 41   | 46   | 46   | 41   | 34   | 49   |
| 90°  | 0    | 0    | 0    | 0    | 0    | 1    |
| 95°  | 5    | 7    | 21   | 50   | 47   | 6    |
| 105° | 31   | 79   | 155  | 106  | 114  | 36   |
| 115° | 282  | 750  | 387  | 184  | 208  | 388  |
| 125° | 1124 | 989  | 619  | 304  | 261  | 988  |
| 135° | 1244 | 1126 | 814  | 505  | 400  | 959  |
| 145° | 1296 | 1213 | 970  | 718  | 612  | 812  |
| 155° | 1311 | 1253 | 1083 | 899  | 816  | 606  |
| 165° | 1280 | 1252 | 1160 | 1040 | 992  | 364  |
| 175° | 1206 | 1209 | 1188 | 1145 | 1114 | 117  |
| 180° | 1178 | 1178 | 1178 | 1178 | 1178 |      |



TEST NUMBER: P522386

CATALOG NUMBER: SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1023.0 | 1023.0 | 1023.0 | 1023.0 | 1023.0 | 1023.0 | 1023.0 | 1023.0 | 1023.0 |
| 2.5°   | 1019.0 | 1022.1 | 1022.2 | 1022.4 | 1030.2 | 1021.6 | 1021.4 | 1021.3 | 1016.6 |
| 5°     | 1020.0 | 1020.0 | 1020.0 | 1018.2 | 1029.0 | 1017.3 | 1017.0 | 1015.0 | 1015.0 |
| 7.5°   | 1014.2 | 1012.4 | 1013.6 | 1011.4 | 1021.2 | 1008.5 | 1009.2 | 1007.0 | 1006.6 |
| 10°    | 1007.0 | 1006.0 | 1008.0 | 1004.2 | 1014.0 | 1001.3 | 1002.0 | 999.0  | 997.0  |
| 12.5°  | 999.0  | 998.0  | 1000.8 | 995.4  | 1006.0 | 993.3  | 993.2  | 989.4  | 989.0  |
| 15°    | 984.0  | 984.0  | 986.0  | 982.2  | 991.0  | 978.3  | 978.0  | 973.9  | 969.0  |
| 17.5°  | 966.2  | 964.0  | 968.8  | 962.6  | 971.6  | 957.3  | 958.4  | 952.5  | 947.0  |
| 20°    | 951.0  | 948.1  | 956.0  | 948.2  | 958.0  | 941.4  | 944.0  | 934.9  | 931.0  |
| 22.5°  | 933.4  | 931.2  | 940.0  | 933.0  | 942.0  | 926.2  | 927.2  | 915.7  | 912.6  |
| 25°    | 906.0  | 905.0  | 915.0  | 907.2  | 916.0  | 899.4  | 900.0  | 887.9  | 884.0  |
| 27.5°  | 875.8  | 875.0  | 886.0  | 878.2  | 885.8  | 870.4  | 870.8  | 857.5  | 852.6  |
| 30°    | 855.0  | 855.0  | 866.0  | 858.2  | 865.0  | 850.3  | 850.0  | 835.9  | 831.0  |
| 32.5°  | 832.6  | 831.8  | 842.8  | 836.5  | 842.6  | 827.2  | 826.0  | 812.7  | 807.8  |
| 35°    | 797.0  | 797.0  | 808.0  | 801.1  | 807.0  | 793.3  | 790.0  | 776.9  | 773.0  |
| 37.5°  | 759.4  | 758.4  | 769.4  | 765.1  | 770.4  | 755.9  | 751.4  | 737.4  | 736.4  |
| 40°    | 733.0  | 732.0  | 743.0  | 741.1  | 744.0  | 730.3  | 725.0  | 710.9  | 706.0  |
| 42.5°  | 705.8  | 706.4  | 715.8  | 713.9  | 717.6  | 703.9  | 698.6  | 683.7  | 681.2  |
| 45°    | 664.0  | 663.0  | 673.0  | 672.1  | 677.0  | 663.3  | 657.0  | 641.0  | 639.0  |
| 47.5°  | 620.4  | 620.8  | 629.6  | 630.7  | 633.6  | 621.1  | 613.6  | 597.8  | 595.8  |
| 50°    | 590.0  | 592.0  | 600.0  | 601.1  | 604.0  | 592.3  | 584.0  | 569.0  | 567.0  |
| 52.5°  | 560.4  | 561.6  | 569.6  | 573.0  | 573.6  | 563.4  | 553.6  | 539.4  | 537.4  |
| 55°    | 513.0  | 515.9  | 523.0  | 527.0  | 528.0  | 519.2  | 508.0  | 493.9  | 491.0  |
| 57.5°  | 465.0  | 467.0  | 476.6  | 481.2  | 481.4  | 472.2  | 461.0  | 447.9  | 443.2  |
| 60°    | 433.0  | 435.0  | 443.0  | 450.0  | 451.0  | 440.2  | 429.0  | 415.9  | 412.0  |
| 62.5°  | 400.2  | 402.2  | 410.2  | 417.2  | 418.2  | 408.2  | 396.2  | 383.1  | 380.0  |
| 65°    | 350.0  | 352.0  | 360.0  | 368.0  | 369.0  | 359.2  | 347.0  | 333.9  | 331.0  |
| 67.5°  | 300.8  | 302.8  | 310.6  | 317.2  | 319.4  | 308.8  | 297.6  | 285.5  | 281.6  |
| 70°    | 268.0  | 270.0  | 277.0  | 282.1  | 285.0  | 275.2  | 264.0  | 251.9  | 248.0  |
| 72.5°  | 233.6  | 234.8  | 241.8  | 247.6  | 248.2  | 240.0  | 229.6  | 219.9  | 216.8  |
| 75°    | 185.0  | 187.0  | 191.0  | 197.0  | 196.0  | 188.2  | 180.0  | 172.9  | 169.0  |
| 77.5°  | 138.4  | 140.6  | 144.4  | 148.4  | 149.0  | 141.8  | 134.8  | 127.7  | 125.0  |
| 80°    | 108.0  | 110.9  | 114.0  | 118.0  | 117.0  | 112.1  | 106.0  | 99.0   | 97.0   |
| 82.5°  | 80.0   | 82.2   | 86.0   | 89.1   | 86.6   | 83.3   | 78.8   | 71.8   | 69.8   |
| 85°    | 41.0   | 42.0   | 46.0   | 48.9   | 46.0   | 45.0   | 41.0   | 36.0   | 34.0   |
| 87.5°  | 8.8    | 10.4   | 13.6   | 17.5   | 14.4   | 15.2   | 12.0   | 8.0    | 7.2    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 1.6    | 1.6    | 1.6    | 3.2    | 4.8    | 17.3   | 19.2   | 16.8   | 16.8   |
| 95°    | 5.0    | 5.0    | 7.0    | 22.0   | 21.0   | 35.7   | 50.0   | 47.0   | 47.0   |
| 97.5°  | 10.2   | 11.2   | 16.0   | 65.0   | 49.0   | 47.6   | 67.6   | 75.2   | 76.6   |
| 100°   | 15.0   | 16.0   | 24.0   | 106.2  | 73.0   | 62.2   | 74.0   | 88.1   | 91.0   |
| 102.5° | 20.6   | 22.4   | 38.4   | 167.1  | 102.6  | 73.1   | 84.4   | 96.9   | 100.6  |
| 105°   | 31.0   | 33.9   | 79.0   | 280.2  | 155.0  | 95.4   | 106.0  | 111.1  | 114.0  |
| 107.5° | 46.0   | 57.9   | 212.8  | 393.7  | 220.0  | 125.9  | 137.2  | 136.5  | 139.0  |
| 110°   | 62.0   | 86.4   | 368.0  | 455.7  | 268.0  | 149.7  | 150.0  | 157.9  | 155.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 102.8  | 171.8  | 548.8  | 515.5  | 316.0  | 178.1  | 162.0  | 179.6  | 180.6  |
| 115°   | 282.0  | 484.4  | 750.0  | 599.2  | 387.0  | 228.6  | 184.0  | 201.2  | 208.0  |
| 117.5° | 699.2  | 842.7  | 853.0  | 673.5  | 457.8  | 284.9  | 209.2  | 216.8  | 225.8  |
| 120°   | 948.0  | 977.3  | 901.0  | 719.1  | 505.0  | 325.1  | 230.0  | 227.2  | 237.0  |
| 122.5° | 1045.6 | 1035.0 | 940.2  | 761.6  | 551.4  | 367.6  | 255.6  | 240.0  | 246.6  |
| 125°   | 1124.0 | 1096.6 | 989.0  | 820.4  | 619.0  | 431.3  | 304.0  | 261.0  | 261.0  |
| 127.5° | 1170.8 | 1138.9 | 1033.8 | 872.6  | 680.0  | 495.6  | 362.2  | 295.2  | 286.0  |
| 130°   | 1198.0 | 1163.8 | 1061.0 | 908.7  | 720.0  | 537.2  | 403.0  | 324.7  | 310.0  |
| 132.5° | 1218.8 | 1187.7 | 1086.6 | 937.0  | 759.2  | 577.9  | 443.8  | 361.3  | 337.2  |
| 135°   | 1244.0 | 1217.6 | 1126.0 | 980.2  | 814.0  | 639.0  | 505.0  | 424.4  | 400.0  |
| 137.5° | 1260.2 | 1239.7 | 1161.4 | 1015.8 | 864.8  | 699.6  | 566.8  | 485.9  | 463.8  |
| 140°   | 1269.0 | 1252.4 | 1179.0 | 1036.8 | 896.0  | 738.6  | 610.0  | 527.5  | 507.0  |
| 142.5° | 1277.8 | 1264.3 | 1191.8 | 1060.2 | 926.4  | 777.6  | 652.4  | 569.9  | 547.8  |
| 145°   | 1296.0 | 1280.4 | 1213.0 | 1088.3 | 970.0  | 832.1  | 718.0  | 631.6  | 612.0  |
| 147.5° | 1308.8 | 1290.0 | 1230.4 | 1118.6 | 1011.2 | 881.5  | 778.2  | 694.8  | 675.4  |
| 150°   | 1312.0 | 1292.4 | 1240.0 | 1134.8 | 1036.0 | 911.8  | 815.0  | 735.6  | 717.0  |
| 152.5° | 1309.6 | 1294.7 | 1247.2 | 1148.5 | 1056.8 | 941.2  | 848.6  | 774.8  | 757.8  |
| 155°   | 1311.0 | 1297.3 | 1253.0 | 1167.1 | 1083.0 | 982.3  | 899.0  | 833.6  | 816.0  |
| 157.5° | 1305.0 | 1296.0 | 1257.0 | 1181.3 | 1107.2 | 1019.0 | 945.2  | 890.2  | 872.4  |
| 160°   | 1305.0 | 1291.3 | 1257.0 | 1189.5 | 1124.0 | 1042.8 | 974.0  | 924.7  | 910.0  |
| 162.5° | 1296.2 | 1284.1 | 1256.2 | 1195.3 | 1140.0 | 1065.1 | 1001.2 | 955.2  | 944.4  |
| 165°   | 1280.0 | 1270.2 | 1252.0 | 1203.0 | 1160.0 | 1095.5 | 1040.0 | 998.8  | 992.0  |
| 167.5° | 1267.4 | 1253.9 | 1244.0 | 1202.7 | 1173.6 | 1117.3 | 1072.8 | 1038.7 | 1034.8 |
| 170°   | 1253.0 | 1244.2 | 1236.0 | 1200.5 | 1180.0 | 1133.1 | 1096.0 | 1061.9 | 1058.0 |
| 172.5° | 1234.6 | 1229.7 | 1225.6 | 1199.1 | 1184.0 | 1146.5 | 1116.0 | 1085.0 | 1078.0 |
| 175°   | 1206.0 | 1209.9 | 1209.0 | 1195.8 | 1188.0 | 1163.6 | 1145.0 | 1122.8 | 1114.0 |
| 177.5° | 1188.4 | 1186.8 | 1190.8 | 1188.4 | 1187.6 | 1172.7 | 1167.6 | 1152.5 | 1157.2 |
| 180°   | 1178.0 | 1178.0 | 1178.0 | 1178.0 | 1178.0 | 1178.0 | 1178.0 | 1178.0 | 1178.0 |

(END OF REPORT)