

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: P522372

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522372  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

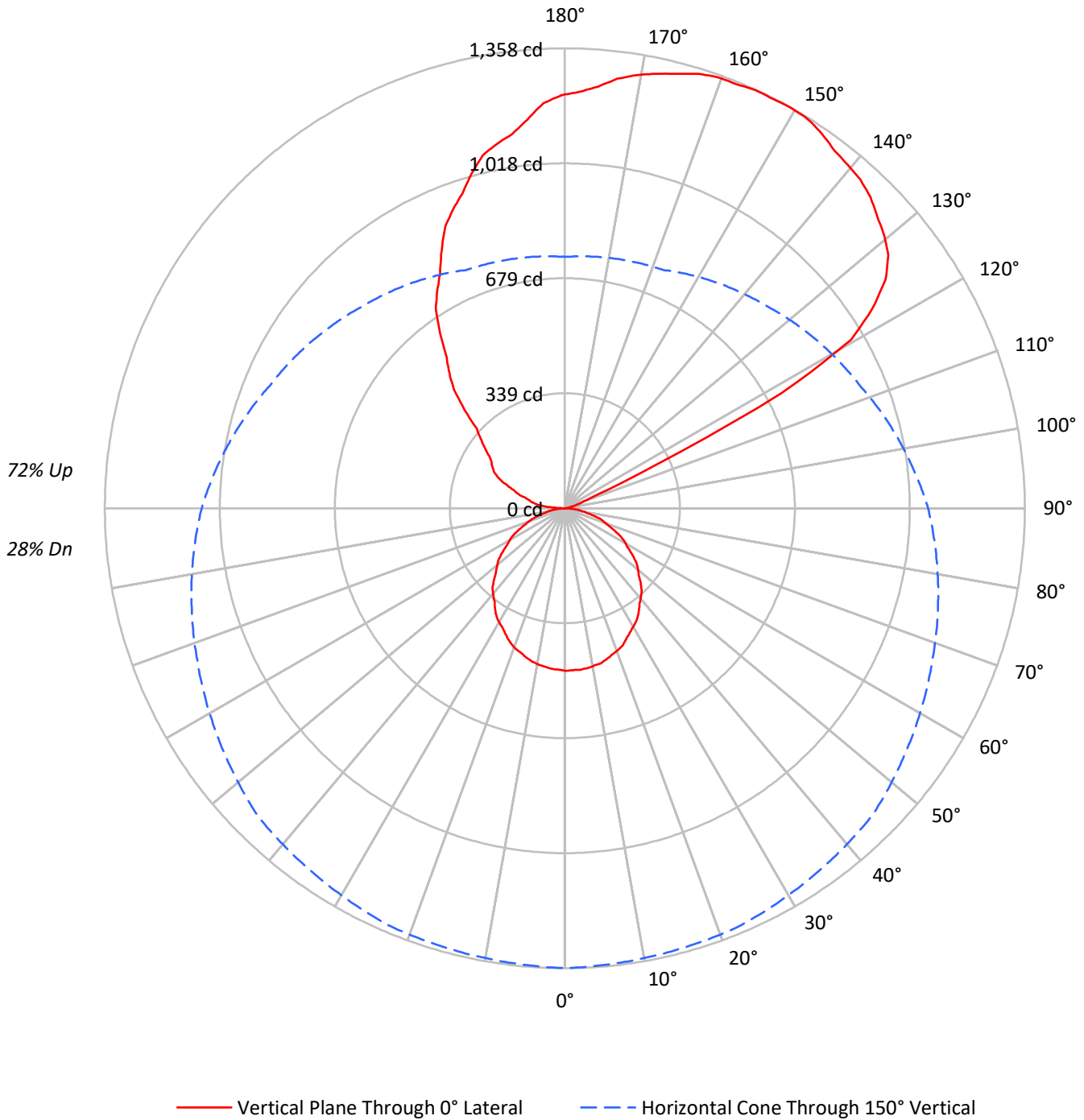
Lumens per Lamp: N/A  
Luminaire Lumens: 4740.2 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 40  
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: P522372  
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### Luminous Intensity Polar Plot





TEST NUMBER: P522372

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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 | 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°  | 7752 | 7752 | 7752 |
| 5°  | 7765 | 7831 | 7715 |
| 10° | 7753 | 7820 | 7668 |
| 15° | 7731 | 7783 | 7611 |
| 20° | 7680 | 7734 | 7538 |
| 25° | 7557 | 7650 | 7391 |
| 30° | 7485 | 7562 | 7273 |
| 35° | 7403 | 7484 | 7159 |
| 40° | 7284 | 7371 | 7000 |
| 45° | 7158 | 7254 | 6827 |
| 50° | 7018 | 7121 | 6601 |
| 55° | 6787 | 6961 | 6407 |
| 60° | 6581 | 6781 | 6148 |
| 65° | 6246 | 6602 | 5849 |
| 70° | 5910 | 6302 | 5471 |
| 75° | 5490 | 5808 | 4903 |
| 80° | 4909 | 5095 | 4333 |
| 85° | 3649 | 3835 | 2871 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.4   | 1.0       |
| 10°-20°   | 129.9  | 2.7       |
| 20°-30°   | 195.3  | 4.1       |
| 30°-40°   | 233.5  | 4.9       |
| 40°-50°   | 240.0  | 5.1       |
| 50°-60°   | 214.4  | 4.5       |
| 60°-70°   | 162.9  | 3.4       |
| 70°-80°   | 93.1   | 2.0       |
| 80°-90°   | 24.6   | 0.5       |
| 90°-100°  | 32.0   | 0.7       |
| 100°-110° | 138.7  | 2.9       |
| 110°-120° | 395.6  | 8.3       |
| 120°-130° | 601.5  | 12.7      |
| 130°-140° | 650.6  | 13.7      |
| 140°-150° | 621.7  | 13.1      |
| 150°-160° | 511.3  | 10.8      |
| 160°-170° | 334.1  | 7.0       |
| 170°-180° | 115.6  | 2.4       |
| 0°-30°    | 370.6  | 7.8       |
| 0°-40°    | 604.1  | 12.7      |
| 0°-60°    | 1058.5 | 22.3      |
| 0°-90°    | 1339.1 | 28.2      |
| 90°-120°  | 566.4  | 11.9      |
| 90°-150°  | 2440.2 | 51.5      |
| 90°-180°  | 3401.0 | 71.7      |
| 0°-180°   | 4740.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 480  | 480  | 480  | 480  | 480  |      |
| 5°   | 479  | 479  | 483  | 478  | 476  | 45   |
| 15°  | 462  | 464  | 466  | 459  | 455  | 130  |
| 25°  | 424  | 429  | 429  | 422  | 415  | 196  |
| 35°  | 376  | 381  | 380  | 372  | 363  | 235  |
| 45°  | 314  | 318  | 318  | 308  | 299  | 242  |
| 55°  | 241  | 245  | 247  | 235  | 228  | 216  |
| 65°  | 164  | 169  | 173  | 160  | 153  | 162  |
| 75°  | 88   | 91   | 93   | 84   | 79   | 93   |
| 85°  | 20   | 23   | 21   | 19   | 16   | 24   |
| 90°  | 0    | 0    | 0    | 0    | 0    | 1    |
| 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: P522372

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°     | 480.1 | 480.1 | 480.1 | 480.1 | 480.1 | 480.1  | 480.1 | 480.1  | 480.1 |
| 2.5°   | 478.5 | 479.3 | 480.1 | 480.2 | 484.3 | 479.4  | 479.3 | 478.4  | 476.8 |
| 5°     | 479.1 | 479.1 | 479.1 | 478.2 | 483.2 | 477.1  | 478.0 | 476.0  | 476.0 |
| 7.5°   | 476.2 | 475.4 | 475.6 | 474.4 | 479.5 | 473.2  | 473.3 | 472.0  | 471.8 |
| 10°    | 472.9 | 472.9 | 473.9 | 471.9 | 477.0 | 469.9  | 470.8 | 468.7  | 467.7 |
| 12.5°  | 469.6 | 468.7 | 469.8 | 467.8 | 472.9 | 465.8  | 465.8 | 462.9  | 462.7 |
| 15°    | 462.5 | 462.5 | 463.6 | 461.6 | 465.6 | 459.6  | 459.4 | 456.3  | 455.3 |
| 17.5°  | 453.6 | 453.4 | 455.7 | 452.7 | 456.7 | 449.6  | 449.7 | 447.0  | 445.3 |
| 20°    | 447.0 | 446.0 | 449.1 | 446.1 | 450.1 | 443.0  | 443.9 | 438.7  | 438.7 |
| 22.5°  | 438.7 | 437.7 | 441.6 | 437.8 | 441.8 | 434.7  | 435.6 | 429.6  | 428.8 |
| 25°    | 424.2 | 425.2 | 429.4 | 426.4 | 429.4 | 422.3  | 422.2 | 415.9  | 414.9 |
| 27.5°  | 412.2 | 411.4 | 416.8 | 412.5 | 415.5 | 408.5  | 408.5 | 401.0  | 400.0 |
| 30°    | 401.5 | 401.5 | 407.7 | 402.6 | 405.6 | 398.5  | 399.4 | 391.1  | 390.1 |
| 32.5°  | 391.5 | 391.5 | 396.9 | 393.5 | 395.7 | 388.6  | 387.8 | 380.3  | 379.3 |
| 35°    | 375.6 | 375.6 | 380.8 | 377.7 | 379.7 | 372.7  | 371.5 | 363.2  | 363.2 |
| 37.5°  | 358.0 | 357.2 | 362.2 | 360.1 | 362.2 | 355.3  | 352.8 | 345.6  | 344.6 |
| 40°    | 345.6 | 345.6 | 349.7 | 347.7 | 349.7 | 343.7  | 340.4 | 333.2  | 332.1 |
| 42.5°  | 332.4 | 332.4 | 337.3 | 335.3 | 337.3 | 330.4  | 327.2 | 319.9  | 318.9 |
| 45°    | 313.5 | 313.5 | 317.7 | 316.6 | 317.7 | 311.6  | 308.3 | 300.0  | 299.0 |
| 47.5°  | 293.4 | 292.6 | 296.6 | 296.8 | 298.4 | 291.7  | 287.4 | 279.6  | 278.5 |
| 50°    | 279.4 | 279.4 | 282.5 | 283.5 | 283.5 | 278.5  | 274.2 | 263.8  | 262.8 |
| 52.5°  | 262.8 | 263.6 | 266.8 | 267.8 | 268.6 | 261.9  | 257.6 | 249.8  | 248.7 |
| 55°    | 241.1 | 240.1 | 245.2 | 246.3 | 247.3 | 241.2  | 234.9 | 228.7  | 227.6 |
| 57.5°  | 218.7 | 218.5 | 222.9 | 224.1 | 224.9 | 219.9  | 213.6 | 206.5  | 205.3 |
| 60°    | 203.8 | 202.8 | 208.0 | 210.0 | 210.0 | 205.0  | 198.7 | 192.4  | 190.4 |
| 62.5°  | 186.5 | 188.7 | 192.3 | 194.4 | 196.0 | 190.1  | 182.9 | 177.5  | 175.5 |
| 65°    | 163.5 | 164.5 | 168.7 | 170.8 | 172.8 | 166.7  | 160.4 | 155.2  | 153.1 |
| 67.5°  | 140.1 | 141.9 | 145.1 | 147.2 | 149.2 | 143.3  | 137.0 | 132.6  | 130.8 |
| 70°    | 125.2 | 126.2 | 129.3 | 131.5 | 133.5 | 128.4  | 122.1 | 116.9  | 115.9 |
| 72.5°  | 110.3 | 111.3 | 114.4 | 115.7 | 116.9 | 111.9  | 106.4 | 102.8  | 101.0 |
| 75°    | 88.0  | 89.0  | 91.1  | 92.1  | 93.1  | 88.1   | 83.8  | 80.7   | 78.6  |
| 77.5°  | 66.8  | 66.8  | 68.9  | 69.7  | 69.7  | 66.7   | 62.7  | 59.8   | 58.2  |
| 80°    | 52.8  | 52.8  | 54.8  | 54.8  | 54.8  | 51.8   | 48.6  | 46.6   | 46.6  |
| 82.5°  | 38.7  | 39.5  | 41.6  | 41.6  | 40.8  | 38.5   | 36.2  | 34.1   | 34.1  |
| 85°    | 19.7  | 20.7  | 22.8  | 22.7  | 20.7  | 20.7   | 18.6  | 17.5   | 15.5  |
| 87.5°  | 5.0   | 5.8   | 7.5   | 8.2   | 6.6   | 6.6    | 5.0   | 3.3    | 3.3   |
| 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: P522372

CATALOG NUMBER: SQW-F-075U-025D-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)