

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: P522338

Luminaire Tested: **SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522338  
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-050U-050D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

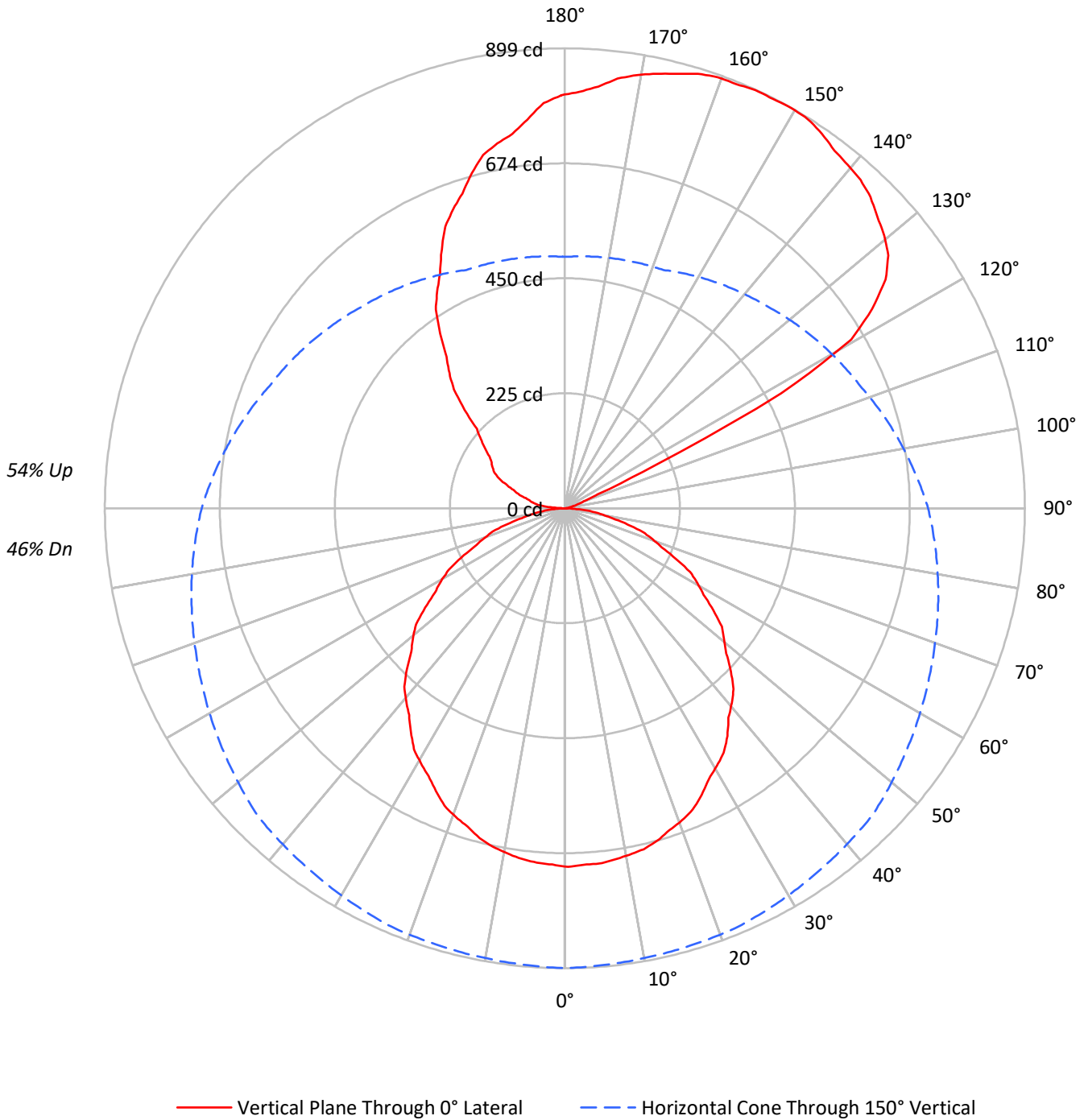
Lumens per Lamp: N/A  
Luminaire Lumens: 4208.2 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 39  
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: P522338  
CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522338

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

**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°  | 11318 | 11318 | 11318 |
| 5°  | 11313 | 11426 | 11264 |
| 10° | 11296 | 11411 | 11214 |
| 15° | 11283 | 11350 | 11132 |
| 20° | 11203 | 11289 | 10997 |
| 25° | 11063 | 11170 | 10814 |
| 30° | 10907 | 11056 | 10664 |
| 35° | 10782 | 10920 | 10466 |
| 40° | 10581 | 10770 | 10286 |
| 45° | 10389 | 10618 | 10047 |
| 50° | 10123 | 10424 | 9796  |
| 55° | 9909  | 10190 | 9430  |
| 60° | 9623  | 9978  | 9074  |
| 65° | 9093  | 9551  | 8558  |
| 70° | 8592  | 9111  | 7978  |
| 75° | 7923  | 8359  | 7299  |
| 80° | 6881  | 7345  | 6137  |
| 85° | 5187  | 5743  | 4631  |



TEST NUMBER: P522338

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.3   | 1.6       |
| 10°-20°   | 189.5  | 4.5       |
| 20°-30°   | 285.1  | 6.8       |
| 30°-40°   | 340.4  | 8.1       |
| 40°-50°   | 350.1  | 8.3       |
| 50°-60°   | 315.0  | 7.5       |
| 60°-70°   | 238.2  | 5.7       |
| 70°-80°   | 135.5  | 3.2       |
| 80°-90°   | 35.8   | 0.9       |
| 90°-100°  | 21.2   | 0.5       |
| 100°-110° | 91.9   | 2.2       |
| 110°-120° | 262.0  | 6.2       |
| 120°-130° | 398.4  | 9.5       |
| 130°-140° | 430.9  | 10.2      |
| 140°-150° | 411.7  | 9.8       |
| 150°-160° | 338.6  | 8.0       |
| 160°-170° | 221.2  | 5.3       |
| 170°-180° | 76.5   | 1.8       |
| 0°-30°    | 540.9  | 12.9      |
| 0°-40°    | 881.3  | 20.9      |
| 0°-60°    | 1546.4 | 36.7      |
| 0°-90°    | 1955.9 | 46.5      |
| 90°-120°  | 375.1  | 8.9       |
| 90°-150°  | 1616.0 | 38.4      |
| 90°-180°  | 2252.0 | 53.5      |
| 0°-180°   | 4208.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 701 | 701 | 701 | 701  | 701  |      |
| 5°   | 698 | 698 | 705 | 698  | 695  | 66   |
| 15°  | 675 | 676 | 679 | 671  | 666  | 190  |
| 25°  | 621 | 627 | 627 | 618  | 607  | 286  |
| 35°  | 547 | 553 | 554 | 542  | 531  | 341  |
| 45°  | 455 | 461 | 465 | 450  | 440  | 350  |
| 55°  | 352 | 359 | 362 | 348  | 335  | 315  |
| 65°  | 238 | 245 | 250 | 235  | 224  | 237  |
| 75°  | 127 | 131 | 134 | 124  | 117  | 134  |
| 85°  | 28  | 32  | 31  | 28   | 25   | 33   |
| 90°  | 0   | 0   | 0   | 0    | 0    | 1    |
| 95°  | 3   | 5   | 14  | 34   | 32   | 4    |
| 105° | 21  | 54  | 106 | 73   | 78   | 25   |
| 115° | 193 | 514 | 265 | 126  | 142  | 266  |
| 125° | 770 | 678 | 424 | 208  | 179  | 677  |
| 135° | 852 | 772 | 558 | 346  | 274  | 657  |
| 145° | 888 | 831 | 665 | 492  | 419  | 556  |
| 155° | 898 | 859 | 742 | 616  | 559  | 415  |
| 165° | 877 | 858 | 795 | 713  | 680  | 249  |
| 175° | 826 | 828 | 814 | 785  | 763  | 80   |
| 180° | 807 | 807 | 807 | 807  | 807  |      |



TEST NUMBER: P522338

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°     | 701.0 | 701.0 | 701.0 | 701.0 | 701.0 | 701.0  | 701.0 | 701.0  | 701.0 |
| 2.5°   | 697.8 | 700.1 | 700.2 | 699.5 | 705.8 | 699.5  | 701.0 | 699.3  | 697.0 |
| 5°     | 698.0 | 698.0 | 698.0 | 697.2 | 705.0 | 696.2  | 698.0 | 695.0  | 695.0 |
| 7.5°   | 693.8 | 694.0 | 694.8 | 692.2 | 700.8 | 691.0  | 692.8 | 689.6  | 690.4 |
| 10°    | 689.0 | 690.0 | 690.0 | 688.2 | 696.0 | 686.2  | 688.0 | 684.0  | 684.0 |
| 12.5°  | 684.2 | 684.4 | 685.2 | 682.6 | 690.4 | 679.8  | 681.6 | 677.6  | 676.8 |
| 15°    | 675.0 | 675.0 | 676.0 | 672.2 | 679.0 | 669.2  | 671.0 | 666.0  | 666.0 |
| 17.5°  | 661.6 | 661.4 | 663.8 | 658.8 | 665.8 | 654.8  | 658.4 | 652.2  | 650.4 |
| 20°    | 652.0 | 651.0 | 655.0 | 649.2 | 657.0 | 645.3  | 648.0 | 641.0  | 640.0 |
| 22.5°  | 640.0 | 639.0 | 644.6 | 638.8 | 645.8 | 634.1  | 636.8 | 627.4  | 627.2 |
| 25°    | 621.0 | 620.0 | 627.0 | 621.1 | 627.0 | 616.2  | 618.0 | 608.0  | 607.0 |
| 27.5°  | 599.4 | 599.4 | 607.6 | 600.8 | 607.4 | 596.6  | 597.4 | 587.2  | 587.2 |
| 30°    | 585.0 | 585.0 | 594.0 | 587.1 | 593.0 | 582.2  | 583.0 | 572.0  | 572.0 |
| 32.5°  | 569.8 | 569.8 | 577.2 | 571.9 | 577.8 | 567.0  | 567.0 | 556.0  | 556.0 |
| 35°    | 547.0 | 545.0 | 553.0 | 548.1 | 554.0 | 543.2  | 542.0 | 531.0  | 531.0 |
| 37.5°  | 519.6 | 518.6 | 527.4 | 523.9 | 528.6 | 518.0  | 515.2 | 504.6  | 505.6 |
| 40°    | 502.0 | 501.0 | 509.0 | 507.1 | 511.0 | 501.2  | 496.0 | 487.0  | 488.0 |
| 42.5°  | 483.6 | 481.8 | 489.8 | 488.7 | 492.6 | 482.8  | 478.4 | 468.6  | 468.8 |
| 45°    | 455.0 | 455.0 | 461.0 | 461.1 | 465.0 | 454.2  | 450.0 | 440.0  | 440.0 |
| 47.5°  | 424.6 | 424.8 | 431.0 | 431.3 | 435.0 | 425.6  | 421.0 | 410.2  | 410.0 |
| 50°    | 403.0 | 404.0 | 411.0 | 412.1 | 415.0 | 407.2  | 401.0 | 391.0  | 390.0 |
| 52.5°  | 384.6 | 383.2 | 390.2 | 392.0 | 394.2 | 386.4  | 380.2 | 370.2  | 369.2 |
| 55°    | 352.0 | 353.0 | 359.0 | 362.0 | 362.0 | 355.2  | 348.0 | 337.9  | 335.0 |
| 57.5°  | 319.6 | 321.0 | 325.8 | 329.6 | 330.6 | 323.0  | 315.6 | 306.5  | 302.6 |
| 60°    | 298.0 | 297.0 | 305.0 | 308.0 | 309.0 | 302.2  | 294.0 | 284.9  | 281.0 |
| 62.5°  | 274.8 | 275.4 | 281.0 | 285.6 | 286.6 | 279.0  | 271.6 | 260.1  | 257.0 |
| 65°    | 238.0 | 240.9 | 245.0 | 248.0 | 250.0 | 244.1  | 235.0 | 226.0  | 224.0 |
| 67.5°  | 204.4 | 206.4 | 210.4 | 215.0 | 216.2 | 209.6  | 201.4 | 193.6  | 191.4 |
| 70°    | 182.0 | 184.0 | 188.0 | 191.0 | 193.0 | 187.1  | 179.0 | 171.9  | 169.0 |
| 72.5°  | 159.6 | 161.6 | 164.8 | 167.8 | 169.8 | 163.9  | 156.6 | 150.4  | 148.2 |
| 75°    | 127.0 | 129.0 | 131.0 | 133.0 | 134.0 | 130.1  | 124.0 | 118.0  | 117.0 |
| 77.5°  | 94.8  | 96.8  | 99.0  | 101.6 | 100.6 | 97.9   | 92.0  | 88.0   | 86.8  |
| 80°    | 74.0  | 76.0  | 79.0  | 80.0  | 79.0  | 77.0   | 72.0  | 68.0   | 66.0  |
| 82.5°  | 54.8  | 56.8  | 59.8  | 60.0  | 58.2  | 57.8   | 53.6  | 50.4   | 49.2  |
| 85°    | 28.0  | 30.0  | 32.0  | 33.0  | 31.0  | 31.0   | 28.0  | 25.0   | 25.0  |
| 87.5°  | 5.6   | 7.2   | 9.6   | 11.9  | 9.6   | 10.4   | 8.0   | 5.6    | 5.6   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 92.5°  | 1.1   | 1.1   | 1.1   | 2.2   | 3.3   | 11.9   | 13.2  | 11.5   | 11.5  |
| 95°    | 3.4   | 3.4   | 4.8   | 15.1  | 14.4  | 24.4   | 34.3  | 32.2   | 32.2  |
| 97.5°  | 7.0   | 7.7   | 11.0  | 44.6  | 33.6  | 32.6   | 46.3  | 51.5   | 52.5  |
| 100°   | 10.3  | 10.9  | 16.4  | 72.8  | 50.0  | 42.7   | 50.7  | 60.3   | 62.4  |
| 102.5° | 14.1  | 15.3  | 26.3  | 114.5 | 70.3  | 50.1   | 57.8  | 66.4   | 68.9  |
| 105°   | 21.2  | 23.3  | 54.1  | 192.0 | 106.2 | 65.3   | 72.6  | 76.1   | 78.1  |
| 107.5° | 31.5  | 39.7  | 145.8 | 269.7 | 150.7 | 86.3   | 94.0  | 93.5   | 95.2  |
| 110°   | 42.5  | 59.2  | 252.2 | 312.3 | 183.6 | 102.6  | 102.8 | 108.2  | 106.2 |



TEST NUMBER: P522338

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 112.5° | 70.4  | 117.7 | 376.0 | 353.2 | 216.5 | 122.1  | 111.0 | 123.1  | 123.8 |
| 115°   | 193.2 | 331.9 | 513.9 | 410.6 | 265.2 | 156.6  | 126.1 | 137.8  | 142.5 |
| 117.5° | 479.1 | 577.5 | 584.5 | 461.5 | 313.7 | 195.2  | 143.3 | 148.6  | 154.7 |
| 120°   | 649.6 | 669.7 | 617.4 | 492.8 | 346.0 | 222.8  | 157.6 | 155.7  | 162.4 |
| 122.5° | 716.5 | 709.2 | 644.2 | 521.9 | 377.8 | 251.9  | 175.1 | 164.4  | 169.0 |
| 125°   | 770.2 | 751.4 | 677.7 | 562.2 | 424.1 | 295.5  | 208.3 | 178.8  | 178.8 |
| 127.5° | 802.3 | 780.4 | 708.4 | 597.9 | 465.9 | 339.6  | 248.2 | 202.3  | 196.0 |
| 130°   | 820.9 | 797.4 | 727.0 | 622.7 | 493.4 | 368.1  | 276.1 | 222.5  | 212.4 |
| 132.5° | 835.1 | 813.8 | 744.6 | 642.0 | 520.2 | 396.0  | 304.1 | 247.5  | 231.1 |
| 135°   | 852.4 | 834.3 | 771.6 | 671.7 | 557.8 | 437.8  | 346.0 | 290.8  | 274.1 |
| 137.5° | 863.5 | 849.4 | 795.8 | 696.0 | 592.6 | 479.3  | 388.4 | 332.9  | 317.8 |
| 140°   | 869.5 | 858.2 | 807.9 | 710.4 | 614.0 | 506.1  | 418.0 | 361.5  | 347.4 |
| 142.5° | 875.6 | 866.3 | 816.6 | 726.4 | 634.8 | 532.8  | 447.0 | 390.5  | 375.4 |
| 145°   | 888.0 | 877.3 | 831.2 | 745.7 | 664.7 | 570.2  | 492.0 | 432.8  | 419.4 |
| 147.5° | 896.8 | 883.9 | 843.1 | 766.5 | 692.9 | 604.1  | 533.2 | 476.1  | 462.8 |
| 150°   | 899.0 | 885.6 | 849.7 | 777.6 | 709.9 | 624.8  | 558.5 | 504.0  | 491.3 |
| 152.5° | 897.4 | 887.2 | 854.6 | 787.0 | 724.1 | 644.9  | 581.5 | 530.9  | 519.3 |
| 155°   | 898.3 | 888.9 | 858.6 | 799.7 | 742.1 | 673.1  | 616.0 | 571.2  | 559.1 |
| 157.5° | 894.2 | 888.0 | 861.3 | 809.5 | 758.7 | 698.2  | 647.7 | 610.0  | 597.8 |
| 160°   | 894.2 | 884.8 | 861.3 | 815.1 | 770.2 | 714.6  | 667.4 | 633.6  | 623.5 |
| 162.5° | 888.2 | 879.9 | 860.8 | 819.1 | 781.1 | 729.8  | 686.0 | 654.5  | 647.1 |
| 165°   | 877.1 | 870.4 | 857.9 | 824.3 | 794.9 | 750.6  | 712.6 | 684.4  | 679.7 |
| 167.5° | 868.4 | 859.2 | 852.4 | 824.1 | 804.2 | 765.6  | 735.1 | 711.7  | 709.1 |
| 170°   | 858.6 | 852.5 | 846.9 | 822.6 | 808.6 | 776.4  | 751.0 | 727.6  | 725.0 |
| 172.5° | 846.0 | 842.6 | 839.8 | 821.6 | 811.3 | 785.6  | 764.7 | 743.5  | 738.7 |
| 175°   | 826.4 | 829.1 | 828.4 | 819.4 | 814.0 | 797.3  | 784.6 | 769.4  | 763.3 |
| 177.5° | 814.3 | 813.2 | 816.0 | 814.3 | 813.8 | 803.6  | 800.1 | 789.7  | 792.9 |
| 180°   | 807.2 | 807.2 | 807.2 | 807.2 | 807.2 | 807.2  | 807.2 | 807.2  | 807.2 |

(END OF REPORT)