

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: P522517

Luminaire Tested: **SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522517  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

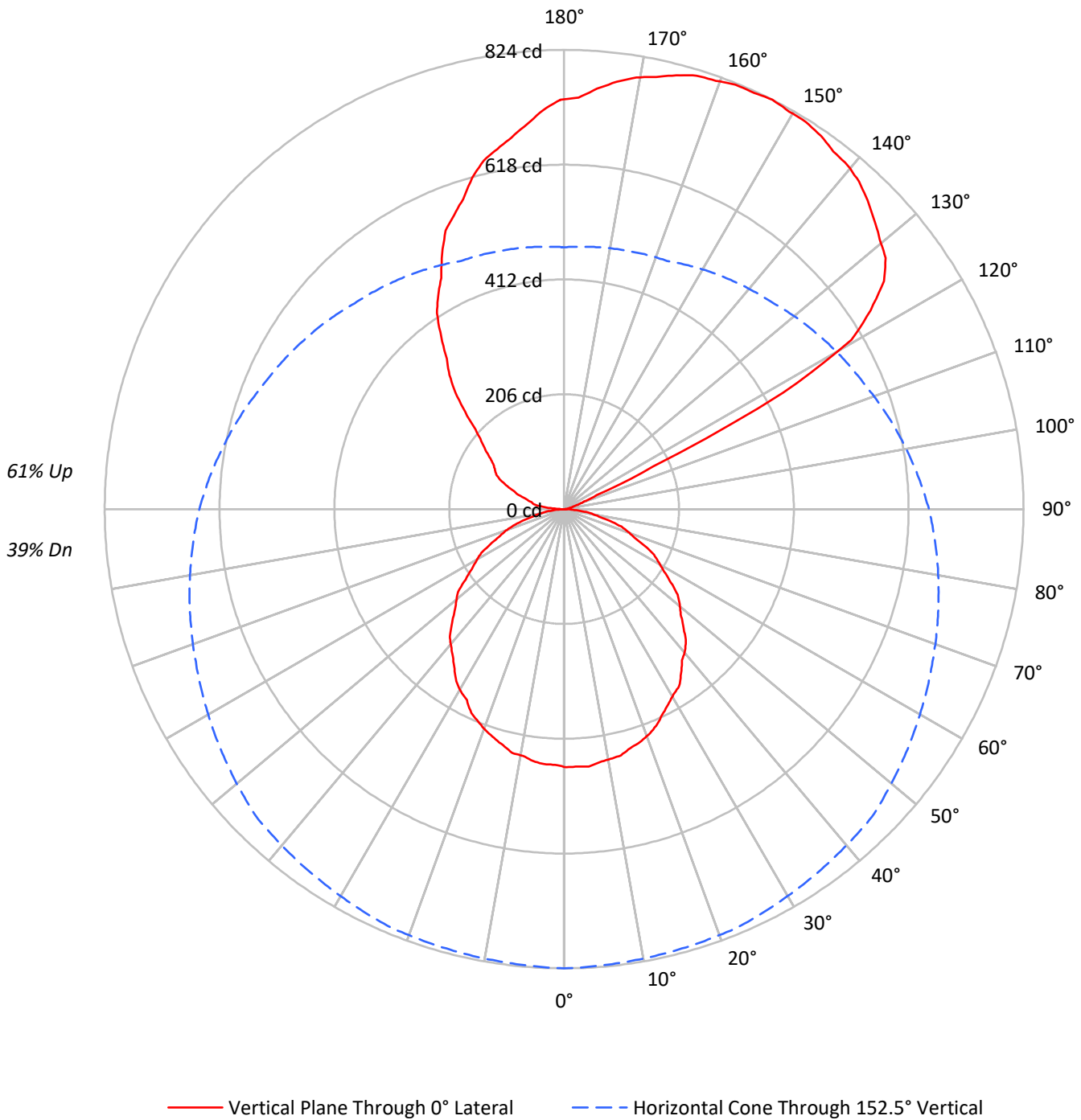
Lumens per Lamp: N/A  
Luminaire Lumens: 3330.3 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 31.5  
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



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### Luminous Intensity Polar Plot





TEST NUMBER: P522517

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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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |
| 1   | 95  | 91  | 87  | 84  | 86 | 83 | 79 | 76 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 38 | 32 |
| 2   | 87  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 44 | 42 | 35 | 34 | 32 | 27 |
| 3   | 79  | 69  | 62  | 56  | 71 | 63 | 57 | 52 | 52 | 47 | 44 | 41 | 38 | 35 | 31 | 29 | 27 | 23 |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 37 | 33 | 30 | 28 | 25 | 23 | 19 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 | 17 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 31 | 28 | 29 | 26 | 23 | 23 | 20 | 18 | 15 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 19 | 16 | 14 | 12 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 10 |
| 10  | 45  | 33  | 26  | 21  | 41 | 30 | 24 | 20 | 25 | 20 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 7479 | 7479 | 7479 |
| 5°  | 7524 | 7556 | 7441 |
| 10° | 7476 | 7492 | 7358 |
| 15° | 7433 | 7485 | 7315 |
| 20° | 7430 | 7448 | 7237 |
| 25° | 7285 | 7375 | 7156 |
| 30° | 7202 | 7278 | 7012 |
| 35° | 7129 | 7171 | 6847 |
| 40° | 7042 | 7042 | 6717 |
| 45° | 6832 | 6973 | 6551 |
| 50° | 6744 | 6872 | 6383 |
| 55° | 6548 | 6722 | 6114 |
| 60° | 6319 | 6520 | 5890 |
| 65° | 6109 | 6304 | 5597 |
| 70° | 5755 | 6047 | 5273 |
| 75° | 5309 | 5496 | 4729 |
| 80° | 4668 | 4863 | 3998 |
| 85° | 3409 | 3798 | 2649 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.8   | 1.3       |
| 10°-20°   | 125.1  | 3.8       |
| 20°-30°   | 188.0  | 5.6       |
| 30°-40°   | 224.3  | 6.7       |
| 40°-50°   | 230.5  | 6.9       |
| 50°-60°   | 206.8  | 6.2       |
| 60°-70°   | 156.6  | 4.7       |
| 70°-80°   | 89.4   | 2.7       |
| 80°-90°   | 23.4   | 0.7       |
| 90°-100°  | 18.6   | 0.6       |
| 100°-110° | 82.3   | 2.5       |
| 110°-120° | 236.5  | 7.1       |
| 120°-130° | 360.3  | 10.8      |
| 130°-140° | 391.1  | 11.7      |
| 140°-150° | 374.0  | 11.2      |
| 150°-160° | 308.1  | 9.3       |
| 160°-170° | 201.6  | 6.1       |
| 170°-180° | 69.8   | 2.1       |
| 0°-30°    | 356.9  | 10.7      |
| 0°-40°    | 581.2  | 17.5      |
| 0°-60°    | 1018.5 | 30.6      |
| 0°-90°    | 1287.9 | 38.7      |
| 90°-120°  | 337.4  | 10.1      |
| 90°-150°  | 1462.8 | 43.9      |
| 90°-180°  | 2042.0 | 61.3      |
| 0°-180°   | 3330.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 463 | 463 | 463 | 463  | 463  |      |
| 5°   | 464 | 462 | 466 | 459  | 459  | 44   |
| 15°  | 445 | 448 | 448 | 444  | 438  | 126  |
| 25°  | 409 | 413 | 414 | 409  | 402  | 189  |
| 35°  | 362 | 364 | 364 | 356  | 347  | 226  |
| 45°  | 299 | 305 | 305 | 294  | 287  | 232  |
| 55°  | 233 | 238 | 239 | 226  | 217  | 208  |
| 65°  | 160 | 163 | 165 | 154  | 146  | 157  |
| 75°  | 85  | 88  | 88  | 81   | 76   | 90   |
| 85°  | 18  | 22  | 20  | 17   | 14   | 22   |
| 90°  | 0   | 0   | 0   | 0    | 0    | 1    |
| 95°  | 3   | 4   | 13  | 29   | 28   | 4    |
| 105° | 18  | 50  | 94  | 65   | 69   | 22   |
| 115° | 177 | 466 | 238 | 112  | 125  | 245  |
| 125° | 705 | 614 | 380 | 188  | 160  | 619  |
| 135° | 776 | 703 | 504 | 312  | 249  | 600  |
| 145° | 813 | 757 | 601 | 444  | 379  | 509  |
| 155° | 821 | 788 | 673 | 557  | 508  | 380  |
| 165° | 804 | 783 | 722 | 648  | 617  | 228  |
| 175° | 757 | 759 | 744 | 711  | 694  | 73   |
| 180° | 735 | 735 | 735 | 735  | 735  |      |



TEST NUMBER: P522517

CATALOG NUMBER: SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°     | 463.2 | 463.2 | 463.2 | 463.2 | 463.2 | 463.2  | 463.2 | 463.2  | 463.2 |
| 2.5°   | 462.4 | 463.2 | 464.8 | 462.4 | 465.6 | 462.4  | 463.2 | 461.5  | 459.1 |
| 5°     | 464.2 | 462.2 | 462.2 | 462.2 | 466.2 | 461.2  | 459.1 | 458.1  | 459.1 |
| 7.5°   | 458.5 | 458.9 | 458.7 | 458.4 | 462.8 | 454.9  | 458.1 | 455.0  | 455.4 |
| 10°    | 456.0 | 454.0 | 457.0 | 455.0 | 457.0 | 454.0  | 454.0 | 450.8  | 448.8 |
| 12.5°  | 453.5 | 452.3 | 453.7 | 450.2 | 456.2 | 448.4  | 447.4 | 446.8  | 447.2 |
| 15°    | 444.7 | 447.7 | 447.8 | 444.8 | 447.8 | 440.8  | 443.7 | 439.6  | 437.6 |
| 17.5°  | 439.8 | 436.8 | 438.2 | 435.8 | 439.2 | 433.4  | 433.0 | 428.8  | 429.4 |
| 20°    | 432.4 | 429.4 | 432.4 | 428.4 | 433.5 | 424.4  | 427.3 | 422.2  | 421.2 |
| 22.5°  | 422.6 | 422.0 | 425.9 | 422.6 | 423.6 | 418.6  | 418.3 | 412.3  | 411.3 |
| 25°    | 408.9 | 409.9 | 413.0 | 408.0 | 414.0 | 406.0  | 408.9 | 399.7  | 401.7 |
| 27.5°  | 397.0 | 397.2 | 400.7 | 398.2 | 399.4 | 393.2  | 393.5 | 385.7  | 384.3 |
| 30°    | 386.3 | 387.3 | 392.5 | 388.4 | 390.4 | 383.4  | 385.3 | 375.1  | 376.1 |
| 32.5°  | 378.9 | 376.7 | 381.0 | 377.0 | 380.6 | 373.6  | 373.8 | 366.0  | 364.6 |
| 35°    | 361.7 | 361.7 | 363.8 | 363.8 | 363.8 | 356.8  | 355.6 | 348.4  | 347.4 |
| 37.5°  | 343.9 | 343.1 | 350.0 | 344.8 | 347.2 | 341.4  | 339.2 | 332.2  | 331.0 |
| 40°    | 334.1 | 330.1 | 336.1 | 334.1 | 334.1 | 329.0  | 326.9 | 320.7  | 318.7 |
| 42.5°  | 320.1 | 319.3 | 323.8 | 322.6 | 325.0 | 316.8  | 314.6 | 307.6  | 306.4 |
| 45°    | 299.2 | 300.2 | 305.4 | 303.4 | 305.4 | 300.4  | 294.1 | 288.9  | 286.9 |
| 47.5°  | 281.6 | 280.0 | 284.9 | 284.7 | 286.7 | 279.1  | 276.3 | 268.5  | 268.1 |
| 50°    | 268.5 | 268.5 | 272.6 | 271.6 | 273.6 | 267.6  | 262.3 | 256.1  | 254.1 |
| 52.5°  | 255.4 | 253.8 | 258.6 | 258.4 | 258.8 | 253.6  | 248.4 | 243.0  | 241.8 |
| 55°    | 232.6 | 233.6 | 237.7 | 237.8 | 238.8 | 233.8  | 226.5 | 220.2  | 217.2 |
| 57.5°  | 211.3 | 210.7 | 214.6 | 215.8 | 215.8 | 210.8  | 204.3 | 199.2  | 198.0 |
| 60°    | 195.7 | 196.7 | 199.8 | 201.9 | 201.9 | 196.9  | 189.6 | 184.4  | 182.4 |
| 62.5°  | 181.0 | 181.2 | 185.1 | 186.3 | 187.9 | 182.1  | 175.6 | 170.5  | 168.5 |
| 65°    | 159.9 | 158.9 | 162.9 | 165.0 | 165.0 | 160.0  | 153.7 | 148.5  | 146.5 |
| 67.5°  | 135.9 | 137.3 | 140.6 | 141.8 | 142.8 | 136.8  | 130.8 | 127.5  | 126.5 |
| 70°    | 121.9 | 120.9 | 125.0 | 127.1 | 128.1 | 122.1  | 116.8 | 112.7  | 111.7 |
| 72.5°  | 107.2 | 107.0 | 110.3 | 112.3 | 112.5 | 106.5  | 102.1 | 98.7   | 96.1  |
| 75°    | 85.1  | 86.1  | 88.1  | 88.1  | 88.1  | 84.1   | 81.0  | 77.8   | 75.8  |
| 77.5°  | 63.3  | 64.3  | 66.2  | 68.0  | 67.0  | 63.4   | 60.3  | 57.1   | 55.3  |
| 80°    | 50.2  | 51.2  | 52.3  | 53.3  | 52.3  | 50.3   | 47.1  | 44.0   | 43.0  |
| 82.5°  | 37.1  | 37.3  | 40.0  | 40.1  | 39.1  | 37.1   | 34.8  | 31.8   | 31.6  |
| 85°    | 18.4  | 19.4  | 21.5  | 21.5  | 20.5  | 19.5   | 17.4  | 15.3   | 14.3  |
| 87.5°  | 4.1   | 4.9   | 6.6   | 8.2   | 6.6   | 6.6    | 4.9   | 3.3    | 2.5   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 92.5°  | 0.5   | 0.5   | 1.1   | 1.7   | 2.7   | 10.2   | 11.5  | 10.4   | 9.9   |
| 95°    | 2.7   | 2.7   | 4.1   | 13.0  | 13.0  | 21.0   | 28.8  | 28.1   | 28.1  |
| 97.5°  | 6.2   | 6.8   | 9.6   | 39.6  | 29.6  | 28.8   | 41.1  | 45.2   | 45.6  |
| 100°   | 8.9   | 9.6   | 15.1  | 64.6  | 43.8  | 37.1   | 43.8  | 53.5   | 55.5  |
| 102.5° | 12.2  | 13.4  | 23.8  | 101.9 | 61.9  | 44.5   | 51.5  | 58.4   | 60.4  |
| 105°   | 18.5  | 20.5  | 50.0  | 170.8 | 94.5  | 59.0   | 65.1  | 68.5   | 69.2  |
| 107.5° | 27.8  | 35.3  | 136.8 | 240.3 | 134.1 | 78.1   | 81.6  | 84.0   | 84.8  |
| 110°   | 37.7  | 53.7  | 237.6 | 282.2 | 163.7 | 92.7   | 90.4  | 96.5   | 95.2  |



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CATALOG NUMBER: SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 112.5° | 63.4  | 110.5 | 348.8 | 316.6 | 193.2 | 110.0  | 98.6  | 108.6  | 109.4 |
| 115°   | 177.4 | 304.6 | 466.3 | 365.5 | 238.3 | 139.9  | 111.6 | 121.3  | 125.3 |
| 117.5° | 445.1 | 529.6 | 528.2 | 410.8 | 281.6 | 175.1  | 127.2 | 131.9  | 136.4 |
| 120°   | 598.5 | 611.2 | 559.5 | 441.4 | 309.5 | 200.4  | 140.4 | 138.4  | 142.4 |
| 122.5° | 655.5 | 645.2 | 583.0 | 468.3 | 338.0 | 226.7  | 157.4 | 145.5  | 149.0 |
| 125°   | 704.6 | 684.6 | 613.6 | 506.6 | 380.1 | 265.6  | 188.3 | 160.9  | 160.2 |
| 127.5° | 731.9 | 710.9 | 643.4 | 539.9 | 418.7 | 305.9  | 223.5 | 182.7  | 176.5 |
| 130°   | 745.0 | 725.6 | 664.2 | 560.3 | 444.4 | 333.3  | 249.3 | 201.8  | 192.4 |
| 132.5° | 760.9 | 739.9 | 679.0 | 581.2 | 469.1 | 359.0  | 275.0 | 224.8  | 213.8 |
| 135°   | 776.5 | 757.1 | 703.3 | 608.4 | 504.0 | 396.9  | 312.3 | 262.6  | 248.6 |
| 137.5° | 790.5 | 772.7 | 725.5 | 629.9 | 535.5 | 434.1  | 351.7 | 303.4  | 286.2 |
| 140°   | 799.8 | 780.4 | 734.8 | 646.4 | 554.7 | 457.6  | 378.0 | 329.8  | 316.4 |
| 142.5° | 803.1 | 791.2 | 744.6 | 660.3 | 576.0 | 480.0  | 404.3 | 354.4  | 342.1 |
| 145°   | 812.8 | 804.8 | 756.7 | 676.9 | 601.2 | 513.5  | 444.4 | 392.8  | 379.4 |
| 147.5° | 819.1 | 807.1 | 767.8 | 694.9 | 625.9 | 543.5  | 480.9 | 431.3  | 418.8 |
| 150°   | 819.7 | 810.3 | 776.5 | 705.9 | 642.3 | 565.3  | 503.3 | 456.5  | 445.1 |
| 152.5° | 824.1 | 812.5 | 780.9 | 715.3 | 654.4 | 583.8  | 525.8 | 482.2  | 469.8 |
| 155°   | 821.1 | 813.0 | 787.5 | 727.4 | 673.1 | 607.5  | 557.4 | 518.8  | 508.1 |
| 157.5° | 821.1 | 811.1 | 788.3 | 736.7 | 691.2 | 633.6  | 587.0 | 551.3  | 543.3 |
| 160°   | 815.6 | 811.6 | 788.9 | 743.4 | 700.5 | 648.3  | 606.7 | 574.3  | 563.6 |
| 162.5° | 813.4 | 806.7 | 790.0 | 747.8 | 708.7 | 660.3  | 623.7 | 593.0  | 584.9 |
| 165°   | 803.9 | 797.9 | 783.4 | 749.9 | 721.8 | 681.6  | 648.5 | 621.0  | 617.0 |
| 167.5° | 793.1 | 788.4 | 778.9 | 753.2 | 730.4 | 697.6  | 669.7 | 647.5  | 642.0 |
| 170°   | 785.4 | 778.1 | 774.5 | 754.9 | 734.8 | 707.3  | 683.4 | 663.4  | 657.4 |
| 172.5° | 772.3 | 771.4 | 768.5 | 750.7 | 738.6 | 716.0  | 696.0 | 677.7  | 673.8 |
| 175°   | 756.7 | 756.7 | 758.7 | 747.7 | 743.7 | 724.9  | 710.8 | 699.7  | 693.7 |
| 177.5° | 738.6 | 739.1 | 743.5 | 743.0 | 743.5 | 732.8  | 728.7 | 718.3  | 717.2 |
| 180°   | 734.8 | 734.8 | 734.8 | 734.8 | 734.8 | 734.8  | 734.8 | 734.8  | 734.8 |

(END OF REPORT)