

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1311715

Luminaire Tested: P3SQAS20R709050D010 E3SQCLSWW1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R709050D010 E3SQCLSWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3SQCLSWW1MW TRIAC  
Light Source: -  
Ballast/Driver: -

**Summary**

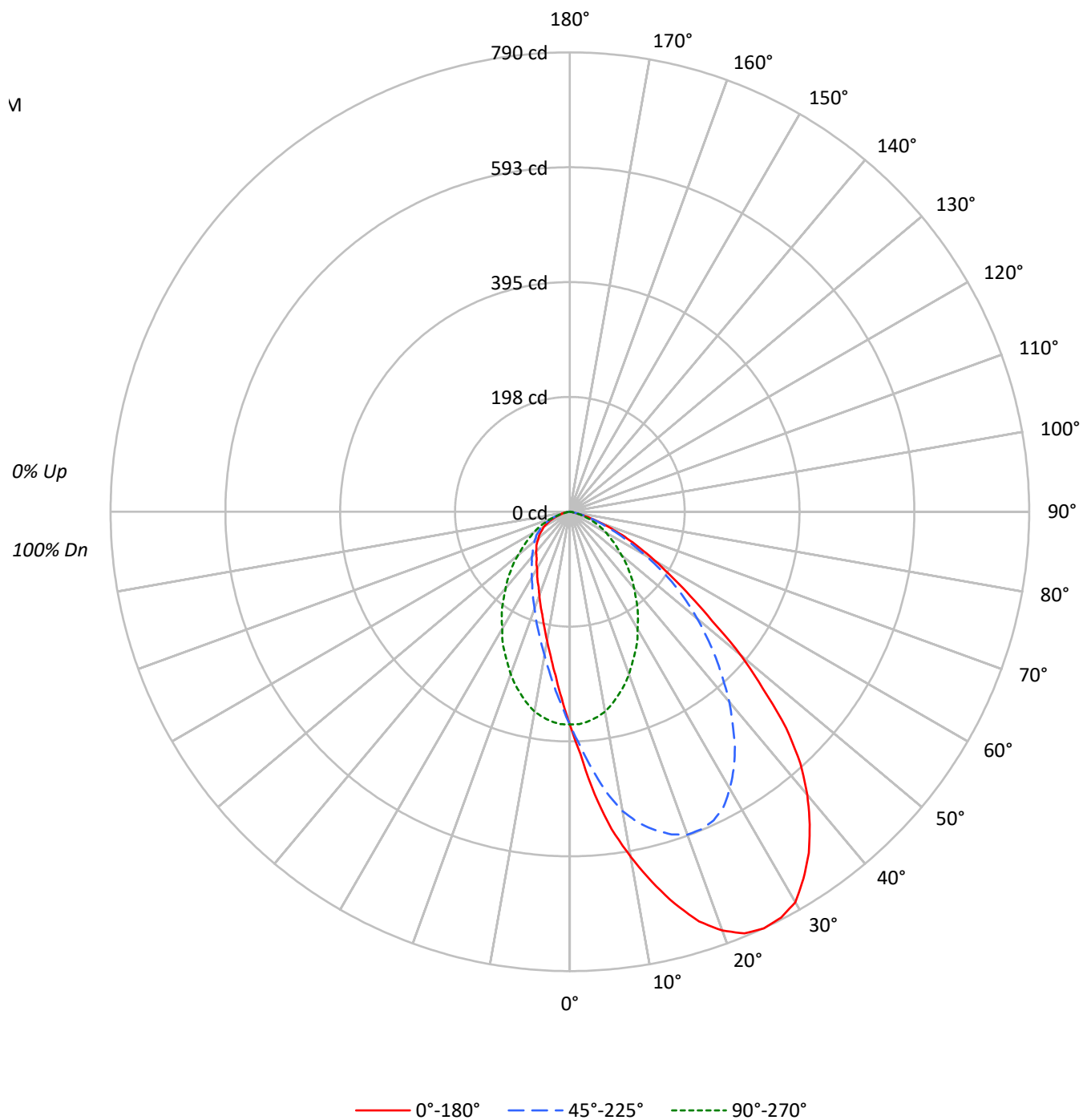
Lumens per Lamp: N/A  
Luminaire Lumens: 893.0 lumens  
Efficiency: N/A  
Efficacy: 31.0 lumens/watt  
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
Input Voltage (V): NR  
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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 95  | 93  | 93  | 91  | 90  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 82  | 87  | 83  | 80  | 84  | 81  | 78  |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  |
| 4   | 87  | 76  | 68  | 62  | 85  | 75  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  |
| 5   | 80  | 69  | 61  | 55  | 78  | 68  | 60  | 54  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  |
| 6   | 75  | 62  | 54  | 48  | 73  | 62  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 52  | 46  | 42  |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  |
| 9   | 61  | 48  | 40  | 35  | 59  | 48  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 41  | 36  | 32  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 62965  | 62965  | 62965 | 62965 | 62965 |
| 5°  | 84279  | 76932  | 62565 | 52348 | 48839 |
| 10° | 105277 | 91392  | 61033 | 43912 | 39400 |
| 15° | 124452 | 101077 | 57947 | 37532 | 32593 |
| 20° | 140444 | 108297 | 54488 | 32495 | 28096 |
| 25° | 150178 | 111242 | 50528 | 28770 | 24912 |
| 30° | 154240 | 109436 | 46276 | 26071 | 22392 |
| 35° | 150641 | 104050 | 42701 | 24073 | 20961 |
| 40° | 142806 | 95909  | 38602 | 22842 | 20346 |
| 45° | 128185 | 86342  | 35073 | 22042 | 19777 |
| 50° | 102912 | 76682  | 31160 | 21274 | 18809 |
| 55° | 75966  | 65967  | 27714 | 21078 | 18286 |
| 60° | 58521  | 51529  | 24800 | 20357 | 17808 |
| 65° | 44378  | 38388  | 21843 | 18827 | 15812 |
| 70° | 29760  | 26990  | 16718 | 16718 | 13042 |
| 75° | 15970  | 15970  | 11046 | 11046 | 9848  |
| 80° | 3670   | 7339   | 5455  | 7339  | 9124  |
| 85° | 0      | 3557   | 3557  | 7311  | 7311  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 128185 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.1   | 4.0       |
| 10°-20°   | 109.6  | 12.3      |
| 20°-30°   | 168.9  | 18.9      |
| 30°-40°   | 191.7  | 21.5      |
| 40°-50°   | 173.5  | 19.4      |
| 50°-60°   | 121.3  | 13.6      |
| 60°-70°   | 66.7   | 7.5       |
| 70°-80°   | 22.3   | 2.5       |
| 80°-90°   | 2.9    | 0.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 314.6  | 35.2      |
| 0°-40°    | 506.3  | 56.7      |
| 0°-60°    | 801.1  | 89.7      |
| 0°-90°    | 893.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 893.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 366 | 366 | 366 | 366  | 366  |      |
| 5°  | 488 | 445 | 362 | 303  | 282  | 50   |
| 15° | 698 | 567 | 325 | 210  | 183  | 199  |
| 25° | 790 | 585 | 266 | 151  | 131  | 363  |
| 35° | 716 | 495 | 203 | 114  | 100  | 445  |
| 45° | 526 | 354 | 144 | 90   | 81   | 399  |
| 55° | 253 | 220 | 92  | 70   | 61   | 233  |
| 65° | 109 | 94  | 54  | 46   | 39   | 109  |
| 75° | 24  | 24  | 17  | 17   | 15   | 28   |
| 85° | 0   | 2   | 2   | 4    | 4    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 365.6 | 365.6 | 365.6 | 365.6 | 365.6 | 365.6 | 365.6 | 365.6 | 365.6 | 365.6 | 365.6 |
| 2.5°  | 417.3 | 421.0 | 422.9 | 419.2 | 417.3 | 415.5 | 411.8 | 409.9 | 406.2 | 402.6 | 400.7 |
| 5°    | 487.5 | 487.5 | 487.5 | 483.8 | 478.3 | 474.6 | 467.2 | 461.6 | 452.4 | 445.0 | 437.6 |
| 7.5°  | 550.3 | 550.3 | 548.4 | 542.9 | 539.2 | 530.0 | 520.7 | 513.3 | 498.6 | 487.5 | 472.7 |
| 10°   | 602.0 | 602.0 | 600.1 | 590.9 | 585.4 | 574.3 | 565.0 | 552.1 | 537.3 | 522.6 | 506.0 |
| 12.5° | 651.8 | 651.8 | 644.4 | 637.1 | 626.0 | 611.2 | 598.3 | 585.4 | 565.0 | 548.4 | 528.1 |
| 15°   | 698.0 | 698.0 | 694.3 | 681.4 | 666.6 | 650.0 | 631.5 | 613.1 | 589.1 | 566.9 | 544.7 |
| 17.5° | 738.6 | 736.8 | 731.2 | 716.5 | 701.7 | 681.4 | 659.2 | 637.1 | 607.5 | 581.7 | 554.0 |
| 20°   | 766.3 | 766.3 | 758.9 | 742.3 | 725.7 | 703.5 | 679.5 | 653.7 | 622.3 | 590.9 | 557.7 |
| 22.5° | 784.8 | 782.9 | 775.6 | 758.9 | 738.6 | 716.5 | 688.8 | 661.1 | 626.0 | 590.9 | 555.8 |
| 25°   | 790.3 | 788.5 | 781.1 | 762.6 | 742.3 | 718.3 | 688.8 | 659.2 | 622.3 | 585.4 | 546.6 |
| 27.5° | 786.6 | 784.8 | 777.4 | 757.1 | 736.8 | 709.1 | 679.5 | 648.1 | 611.2 | 572.4 | 533.7 |
| 30°   | 775.6 | 770.0 | 762.6 | 744.2 | 722.0 | 694.3 | 662.9 | 627.8 | 590.9 | 550.3 | 511.5 |
| 32.5° | 747.9 | 747.9 | 738.6 | 720.2 | 698.0 | 668.5 | 637.1 | 603.8 | 563.2 | 524.4 | 483.8 |
| 35°   | 716.5 | 714.6 | 707.2 | 686.9 | 666.6 | 638.9 | 607.5 | 572.4 | 533.7 | 494.9 | 456.1 |
| 37.5° | 677.7 | 675.8 | 668.5 | 650.0 | 627.8 | 602.0 | 568.7 | 535.5 | 498.6 | 459.8 | 424.7 |
| 40°   | 635.2 | 631.5 | 622.3 | 607.5 | 589.1 | 559.5 | 530.0 | 496.7 | 461.6 | 426.6 | 391.5 |
| 42.5° | 587.2 | 583.5 | 576.1 | 565.0 | 542.9 | 517.0 | 489.3 | 457.9 | 424.7 | 389.6 | 363.8 |
| 45°   | 526.3 | 526.3 | 522.6 | 511.5 | 494.9 | 474.6 | 445.0 | 417.3 | 385.9 | 354.5 | 326.8 |
| 47.5° | 450.6 | 454.3 | 452.4 | 446.9 | 439.5 | 421.0 | 400.7 | 376.7 | 347.2 | 319.5 | 293.6 |
| 50°   | 384.1 | 385.9 | 387.8 | 384.1 | 378.5 | 365.6 | 352.7 | 337.9 | 312.1 | 286.2 | 262.2 |
| 52.5° | 308.4 | 313.9 | 313.9 | 315.8 | 315.8 | 312.1 | 308.4 | 291.8 | 278.8 | 253.0 | 230.8 |
| 55°   | 253.0 | 253.0 | 253.0 | 256.7 | 258.5 | 260.4 | 256.7 | 253.0 | 238.2 | 219.7 | 199.4 |
| 57.5° | 206.8 | 206.8 | 210.5 | 208.7 | 208.7 | 212.4 | 212.4 | 210.5 | 201.3 | 184.7 | 166.2 |
| 60°   | 169.9 | 169.9 | 169.9 | 169.9 | 171.7 | 171.7 | 171.7 | 171.7 | 164.3 | 149.6 | 134.8 |
| 62.5° | 136.6 | 136.6 | 136.6 | 138.5 | 138.5 | 138.5 | 140.3 | 138.5 | 131.1 | 120.0 | 107.1 |
| 65°   | 108.9 | 107.1 | 108.9 | 108.9 | 110.8 | 110.8 | 110.8 | 108.9 | 101.6 | 94.2  | 84.9  |
| 67.5° | 81.2  | 83.1  | 83.1  | 83.1  | 84.9  | 86.8  | 84.9  | 83.1  | 77.6  | 70.2  | 66.5  |
| 70°   | 59.1  | 60.9  | 60.9  | 60.9  | 62.8  | 64.6  | 62.8  | 60.9  | 57.2  | 53.6  | 49.9  |
| 72.5° | 38.8  | 40.6  | 40.6  | 42.5  | 44.3  | 44.3  | 42.5  | 42.5  | 40.6  | 36.9  | 35.1  |
| 75°   | 24.0  | 24.0  | 25.9  | 25.9  | 27.7  | 27.7  | 27.7  | 25.9  | 25.9  | 24.0  | 24.0  |
| 77.5° | 11.1  | 11.1  | 12.9  | 12.9  | 12.9  | 14.8  | 14.8  | 14.8  | 14.8  | 14.8  | 12.9  |
| 80°   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 5.5   | 5.5   | 5.5   | 7.4   | 7.4   | 7.4   |
| 82.5° | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 3.7   | 3.7   | 3.7   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.8   | 1.8   | 1.8   | 1.8   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 365.6 | 365.6 | 365.6 | 365.6 | 365.6  | 365.6 | 365.6  | 365.6 |
| 2.5°  | 397.0 | 391.5 | 384.1 | 365.6 | 347.2  | 332.4 | 323.1  | 321.3 |
| 5°    | 428.4 | 419.2 | 402.6 | 361.9 | 328.7  | 302.8 | 288.1  | 282.5 |
| 7.5°  | 459.8 | 443.2 | 419.2 | 356.4 | 306.5  | 275.1 | 258.5  | 251.1 |
| 10°   | 485.6 | 465.3 | 433.9 | 349.0 | 288.1  | 251.1 | 230.8  | 225.3 |
| 12.5° | 506.0 | 482.0 | 443.2 | 337.9 | 269.6  | 229.0 | 208.7  | 203.1 |
| 15°   | 518.9 | 493.0 | 448.7 | 325.0 | 251.1  | 210.5 | 190.2  | 182.8 |
| 17.5° | 524.4 | 493.0 | 446.9 | 312.1 | 234.5  | 193.9 | 173.6  | 168.0 |
| 20°   | 524.4 | 489.3 | 441.3 | 297.3 | 217.9  | 177.3 | 158.8  | 153.3 |
| 22.5° | 518.9 | 482.0 | 428.4 | 280.7 | 203.1  | 164.3 | 145.9  | 140.3 |
| 25°   | 507.8 | 467.2 | 413.6 | 265.9 | 188.3  | 151.4 | 134.8  | 131.1 |
| 27.5° | 491.2 | 450.6 | 395.2 | 251.1 | 175.4  | 140.3 | 125.6  | 121.9 |
| 30°   | 470.9 | 430.2 | 374.9 | 232.7 | 162.5  | 131.1 | 118.2  | 112.6 |
| 32.5° | 445.0 | 406.2 | 352.7 | 217.9 | 151.4  | 121.9 | 110.8  | 107.1 |
| 35°   | 417.3 | 382.2 | 328.7 | 203.1 | 140.3  | 114.5 | 103.4  | 99.7  |
| 37.5° | 389.6 | 352.7 | 308.4 | 186.5 | 131.1  | 107.1 | 97.9   | 94.2  |
| 40°   | 360.1 | 332.4 | 286.2 | 171.7 | 123.7  | 101.6 | 92.3   | 90.5  |
| 42.5° | 330.5 | 301.0 | 254.8 | 158.8 | 114.5  | 94.2  | 86.8   | 84.9  |
| 45°   | 295.4 | 267.8 | 230.8 | 144.0 | 107.1  | 90.5  | 83.1   | 81.2  |
| 47.5° | 265.9 | 240.1 | 206.8 | 131.1 | 99.7   | 84.9  | 77.6   | 75.7  |
| 50°   | 238.2 | 212.4 | 181.0 | 116.3 | 92.3   | 79.4  | 73.9   | 70.2  |
| 52.5° | 206.8 | 184.7 | 157.0 | 103.4 | 84.9   | 73.9  | 68.3   | 66.5  |
| 55°   | 179.1 | 157.0 | 131.1 | 92.3  | 77.6   | 70.2  | 62.8   | 60.9  |
| 57.5° | 147.7 | 129.3 | 110.8 | 81.2  | 70.2   | 62.8  | 59.1   | 55.4  |
| 60°   | 120.0 | 107.1 | 94.2  | 72.0  | 62.8   | 59.1  | 53.6   | 51.7  |
| 62.5° | 97.9  | 88.6  | 79.4  | 62.8  | 55.4   | 51.7  | 48.0   | 44.3  |
| 65°   | 77.6  | 72.0  | 64.6  | 53.6  | 48.0   | 46.2  | 42.5   | 38.8  |
| 67.5° | 60.9  | 57.2  | 51.7  | 42.5  | 40.6   | 38.8  | 35.1   | 31.4  |
| 70°   | 46.2  | 44.3  | 40.6  | 33.2  | 31.4   | 33.2  | 29.5   | 25.9  |
| 72.5° | 33.2  | 31.4  | 29.5  | 24.0  | 24.0   | 24.0  | 22.2   | 18.5  |
| 75°   | 22.2  | 20.3  | 18.5  | 16.6  | 16.6   | 16.6  | 16.6   | 14.8  |
| 77.5° | 12.9  | 12.9  | 11.1  | 9.2   | 11.1   | 11.1  | 12.9   | 12.9  |
| 80°   | 5.5   | 5.5   | 5.5   | 5.5   | 7.4    | 7.4   | 9.2    | 9.2   |
| 82.5° | 3.7   | 3.7   | 3.7   | 3.7   | 5.5    | 5.5   | 5.5    | 5.5   |
| 85°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8    | 3.7   | 3.7    | 3.7   |
| 87.5° | 1.8   | 1.8   | 1.8   | 1.8   | 1.8    | 1.8   | 1.8    | 1.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)