

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: P1316874

Luminaire Tested: P3SQAS05R509830DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R509830DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

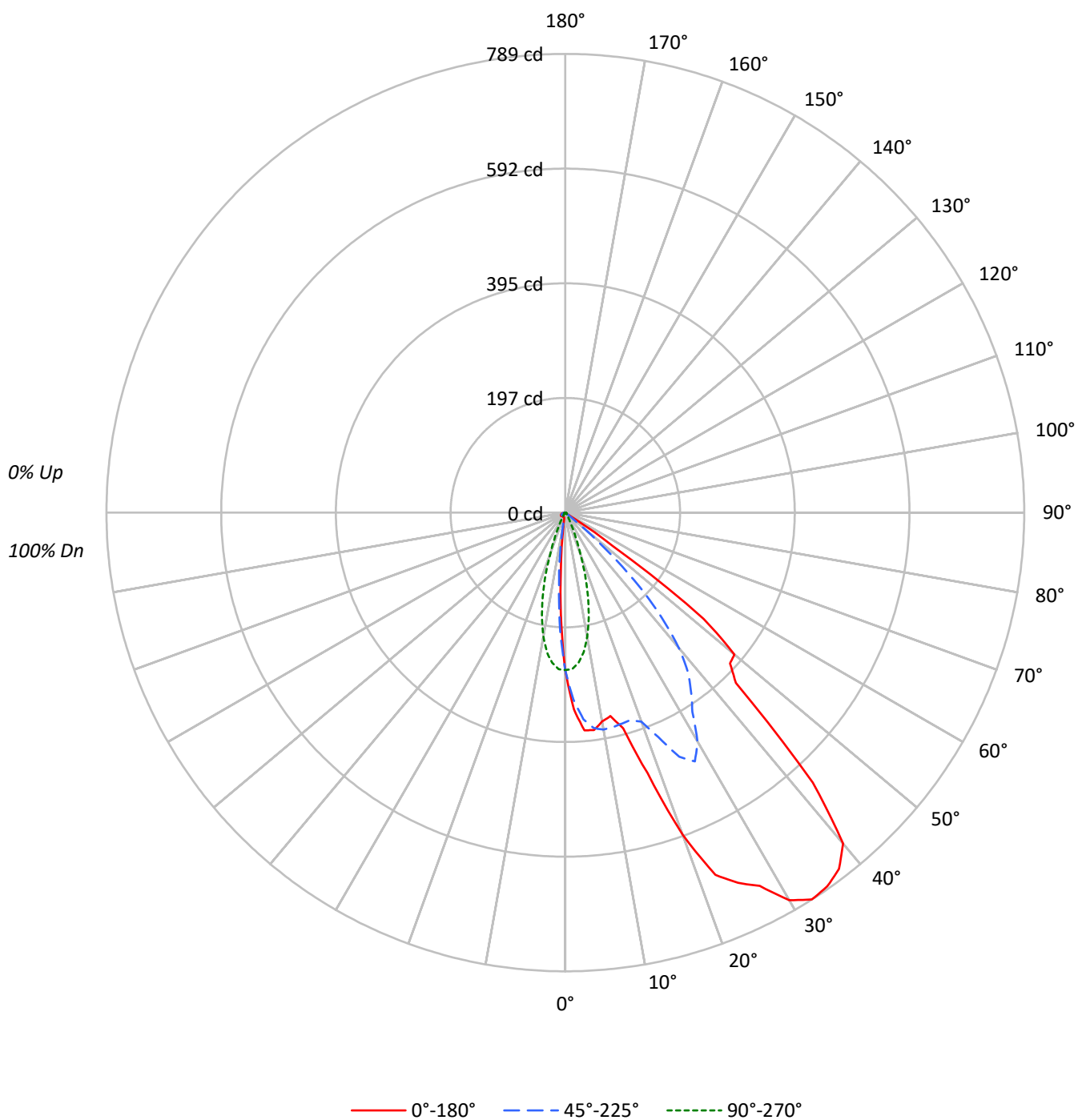
Lumens per Lamp: N/A  
Luminaire Lumens: 421.0 lumens  
Efficiency: N/A  
Efficacy: 58.5 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

TEST NUMBER: P1316874

CATALOG NUMBER: P3SQAS05R509830DE010 E3SQCA301MW

### 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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 81  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |    |    |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 68  | 74  | 70  | 67  | 65  |    |    |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |
| 8   | 69  | 58  | 51  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 46621  | 46621 | 46621 | 46621 | 46621 |
| 5°  | 65003  | 61666 | 44811 | 21541 | 13969 |
| 10° | 63796  | 66262 | 37861 | 4547  | 1941  |
| 15° | 68431  | 66969 | 26780 | 1587  | 1516  |
| 20° | 108041 | 70121 | 14131 | 1356  | 1430  |
| 25° | 133513 | 88077 | 5644  | 1273  | 1406  |
| 30° | 153067 | 90325 | 2287  | 1253  | 1472  |
| 35° | 165021 | 79283 | 1009  | 1325  | 1640  |
| 40° | 167042 | 68278 | 742   | 1506  | 1844  |
| 45° | 100955 | 44255 | 731   | 1632  | 2070  |
| 50° | 101733 | 7636  | 804   | 1876  | 2385  |
| 55° | 30056  | 450   | 901   | 2102  | 2672  |
| 60° | 517    | 517   | 896   | 2308  | 2928  |
| 65° | 448    | 448   | 897   | 2404  | 3179  |
| 70° | 554    | 554   | 957   | 2618  | 3525  |
| 75° | 466    | 466   | 998   | 2728  | 3726  |
| 80° | 397    | 694   | 1091  | 2579  | 4066  |
| 85° | 790    | 1383  | 1383  | 2964  | 3754  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 115325 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.9   | 5.2       |
| 10°-20°   | 54.3   | 12.9      |
| 20°-30°   | 101.8  | 24.2      |
| 30°-40°   | 121.7  | 28.9      |
| 40°-50°   | 87.2   | 20.7      |
| 50°-60°   | 26.9   | 6.4       |
| 60°-70°   | 3.5    | 0.8       |
| 70°-80°   | 2.5    | 0.6       |
| 80°-90°   | 1.0    | 0.2       |
| 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°    | 178.0  | 42.3      |
| 0°-40°    | 299.8  | 71.2      |
| 0°-60°    | 413.9  | 98.3      |
| 0°-90°    | 421.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 421.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 271 | 271 | 271 | 271  | 271  |      |
| 5°  | 376 | 357 | 259 | 125  | 81   | 35   |
| 15° | 384 | 376 | 150 | 9    | 8    | 123  |
| 25° | 703 | 464 | 30  | 7    | 7    | 324  |
| 35° | 785 | 377 | 5   | 6    | 8    | 487  |
| 45° | 414 | 182 | 3   | 7    | 8    | 381  |
| 55° | 100 | 2   | 3   | 7    | 9    | 129  |
| 65° | 1   | 1   | 2   | 6    | 8    | 1    |
| 75° | 1   | 1   | 2   | 4    | 6    | 1    |
| 85° | 0   | 1   | 1   | 2    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1316874

CATALOG NUMBER: P3SQAS05R509830DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 |
| 2.5°  | 338.5 | 339.3 | 340.4 | 337.4 | 335.6 | 334.1 | 331.5 | 330.7 | 324.4 | 321.8 | 319.2 |
| 5°    | 376.0 | 375.2 | 376.0 | 374.9 | 374.1 | 371.9 | 369.7 | 366.0 | 361.9 | 356.7 | 350.8 |
| 7.5°  | 377.1 | 376.3 | 377.8 | 377.8 | 379.3 | 379.3 | 379.3 | 379.7 | 377.5 | 373.7 | 368.6 |
| 10°   | 364.8 | 364.8 | 366.3 | 365.6 | 368.2 | 369.3 | 371.9 | 376.3 | 378.6 | 378.9 | 377.5 |
| 12.5° | 358.5 | 358.5 | 358.9 | 357.4 | 358.2 | 359.3 | 362.2 | 367.4 | 372.6 | 377.8 | 380.8 |
| 15°   | 383.8 | 384.5 | 379.3 | 371.9 | 366.3 | 360.4 | 358.5 | 361.9 | 367.4 | 375.6 | 382.3 |
| 17.5° | 469.4 | 470.5 | 465.0 | 447.2 | 430.1 | 405.6 | 383.8 | 373.0 | 367.1 | 373.7 | 382.6 |
| 20°   | 589.5 | 585.5 | 575.8 | 556.9 | 532.1 | 494.2 | 460.1 | 425.7 | 392.7 | 382.6 | 385.6 |
| 22.5° | 674.4 | 673.0 | 665.2 | 644.0 | 622.5 | 587.3 | 543.9 | 495.7 | 447.9 | 417.5 | 401.6 |
| 25°   | 702.6 | 701.5 | 694.5 | 681.9 | 670.0 | 643.3 | 604.4 | 555.8 | 505.7 | 463.5 | 423.4 |
| 27.5° | 723.8 | 722.3 | 711.2 | 697.1 | 684.8 | 657.8 | 622.2 | 585.5 | 539.5 | 482.4 | 420.8 |
| 30°   | 769.7 | 765.7 | 750.1 | 724.9 | 701.5 | 664.1 | 624.8 | 579.2 | 516.9 | 454.2 | 394.1 |
| 32.5° | 789.0 | 786.8 | 773.4 | 753.0 | 727.5 | 678.5 | 618.8 | 542.4 | 460.5 | 406.4 | 362.6 |
| 35°   | 784.9 | 781.6 | 767.9 | 744.5 | 713.4 | 666.3 | 586.6 | 481.6 | 414.9 | 377.1 | 327.8 |
| 37.5° | 772.7 | 767.9 | 751.6 | 724.1 | 686.3 | 624.8 | 520.6 | 432.3 | 389.3 | 346.7 | 280.3 |
| 40°   | 743.0 | 735.3 | 716.3 | 687.8 | 650.0 | 569.1 | 460.5 | 402.7 | 362.6 | 303.7 | 227.3 |
| 42.5° | 629.6 | 625.5 | 634.8 | 629.9 | 596.6 | 501.3 | 417.9 | 375.6 | 320.4 | 245.5 | 164.6 |
| 45°   | 414.5 | 421.6 | 438.3 | 466.8 | 473.5 | 431.2 | 383.0 | 331.1 | 263.6 | 181.7 | 94.9  |
| 47.5° | 383.8 | 382.3 | 386.3 | 391.9 | 393.0 | 375.2 | 331.5 | 273.6 | 195.8 | 103.8 | 26.3  |
| 50°   | 379.7 | 377.5 | 374.1 | 367.4 | 353.4 | 318.9 | 269.2 | 199.5 | 113.1 | 28.5  | 1.9   |
| 52.5° | 300.0 | 297.7 | 297.7 | 288.1 | 269.9 | 236.6 | 185.8 | 109.7 | 31.5  | 1.9   | 1.5   |
| 55°   | 100.1 | 106.8 | 105.7 | 105.3 | 113.5 | 104.6 | 80.1  | 28.2  | 2.6   | 1.5   | 1.5   |
| 57.5° | 1.9   | 1.9   | 1.9   | 3.3   | 5.2   | 7.4   | 4.4   | 2.2   | 1.5   | 1.5   | 1.5   |
| 60°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 62.5° | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 65°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.5   |
| 67.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 70°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 72.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.1   | 1.1   | 1.1   |
| 75°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.1   |
| 77.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 80°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 0.7   | 0.7   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 0.7   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 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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CATALOG NUMBER: P3SQAS05R509830DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 270.7 | 270.7 | 270.7 | 270.7 | 270.7  | 270.7 | 270.7  | 270.7 |
| 2.5°  | 313.3 | 308.1 | 298.1 | 269.6 | 238.0  | 202.1 | 177.6  | 174.6 |
| 5°    | 341.5 | 333.7 | 317.4 | 259.2 | 187.2  | 124.6 | 92.7   | 80.8  |
| 7.5°  | 360.0 | 349.6 | 329.6 | 242.1 | 136.4  | 65.6  | 35.2   | 28.2  |
| 10°   | 371.1 | 361.5 | 335.9 | 216.5 | 86.8   | 26.0  | 11.9   | 11.1  |
| 12.5° | 377.1 | 367.8 | 338.1 | 185.8 | 48.9   | 11.9  | 9.3    | 9.3   |
| 15°   | 381.2 | 371.1 | 334.8 | 150.2 | 24.5   | 8.9   | 8.5    | 8.5   |
| 17.5° | 383.0 | 370.8 | 325.2 | 113.1 | 13.0   | 8.2   | 8.2    | 8.2   |
| 20°   | 384.1 | 366.7 | 307.4 | 77.1  | 8.9    | 7.4   | 7.8    | 7.8   |
| 22.5° | 385.2 | 356.7 | 284.0 | 48.9  | 7.0    | 7.0   | 7.4    | 7.4   |
| 25°   | 383.0 | 339.3 | 251.0 | 29.7  | 6.3    | 6.7   | 7.0    | 7.4   |
| 27.5° | 367.1 | 312.9 | 211.0 | 18.2  | 5.6    | 6.3   | 7.0    | 7.4   |
| 30°   | 339.6 | 274.4 | 164.6 | 11.5  | 5.2    | 6.3   | 7.0    | 7.4   |
| 32.5° | 304.0 | 230.3 | 117.5 | 7.0   | 5.2    | 6.3   | 7.0    | 7.4   |
| 35°   | 256.2 | 176.1 | 76.4  | 4.8   | 5.2    | 6.3   | 7.4    | 7.8   |
| 37.5° | 202.4 | 123.1 | 41.2  | 3.7   | 5.2    | 6.3   | 7.4    | 7.8   |
| 40°   | 145.7 | 73.8  | 14.8  | 3.3   | 4.8    | 6.7   | 7.8    | 8.2   |
| 42.5° | 85.3  | 27.4  | 2.6   | 3.0   | 4.8    | 6.7   | 7.8    | 8.2   |
| 45°   | 24.5  | 3.0   | 1.5   | 3.0   | 4.8    | 6.7   | 8.2    | 8.5   |
| 47.5° | 1.9   | 1.1   | 1.5   | 3.0   | 4.8    | 6.7   | 8.2    | 8.9   |
| 50°   | 1.1   | 1.1   | 1.1   | 3.0   | 4.8    | 7.0   | 8.5    | 8.9   |
| 52.5° | 1.5   | 1.5   | 1.5   | 3.0   | 4.8    | 7.0   | 8.5    | 8.9   |
| 55°   | 1.5   | 1.5   | 1.5   | 3.0   | 4.8    | 7.0   | 8.5    | 8.9   |
| 57.5° | 1.5   | 1.5   | 1.5   | 3.0   | 4.8    | 6.7   | 8.5    | 8.9   |
| 60°   | 1.5   | 1.5   | 1.5   | 2.6   | 4.4    | 6.7   | 8.2    | 8.5   |
| 62.5° | 1.5   | 1.5   | 1.5   | 2.6   | 4.4    | 6.3   | 8.2    | 8.2   |
| 65°   | 1.5   | 1.5   | 1.5   | 2.2   | 4.1    | 5.9   | 7.4    | 7.8   |
| 67.5° | 1.5   | 1.5   | 1.5   | 2.2   | 3.7    | 5.6   | 7.0    | 7.4   |
| 70°   | 1.1   | 1.5   | 1.5   | 1.9   | 3.3    | 5.2   | 6.7    | 7.0   |
| 72.5° | 1.1   | 1.1   | 1.5   | 1.9   | 3.0    | 4.4   | 5.9    | 6.3   |
| 75°   | 1.1   | 1.1   | 1.1   | 1.5   | 2.6    | 4.1   | 5.2    | 5.6   |
| 77.5° | 1.1   | 1.1   | 1.1   | 1.5   | 2.2    | 3.3   | 4.8    | 4.8   |
| 80°   | 0.7   | 1.1   | 1.1   | 1.1   | 1.9    | 2.6   | 3.7    | 4.1   |
| 82.5° | 0.7   | 0.7   | 0.7   | 1.1   | 1.5    | 2.2   | 3.0    | 3.0   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 1.1    | 1.5   | 1.9    | 1.9   |
| 87.5° | 0.4   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.7    | 0.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)