

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: P1306613

Luminaire Tested: P3SQAS05R509027DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306613  
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: P3SQAS05R509027DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

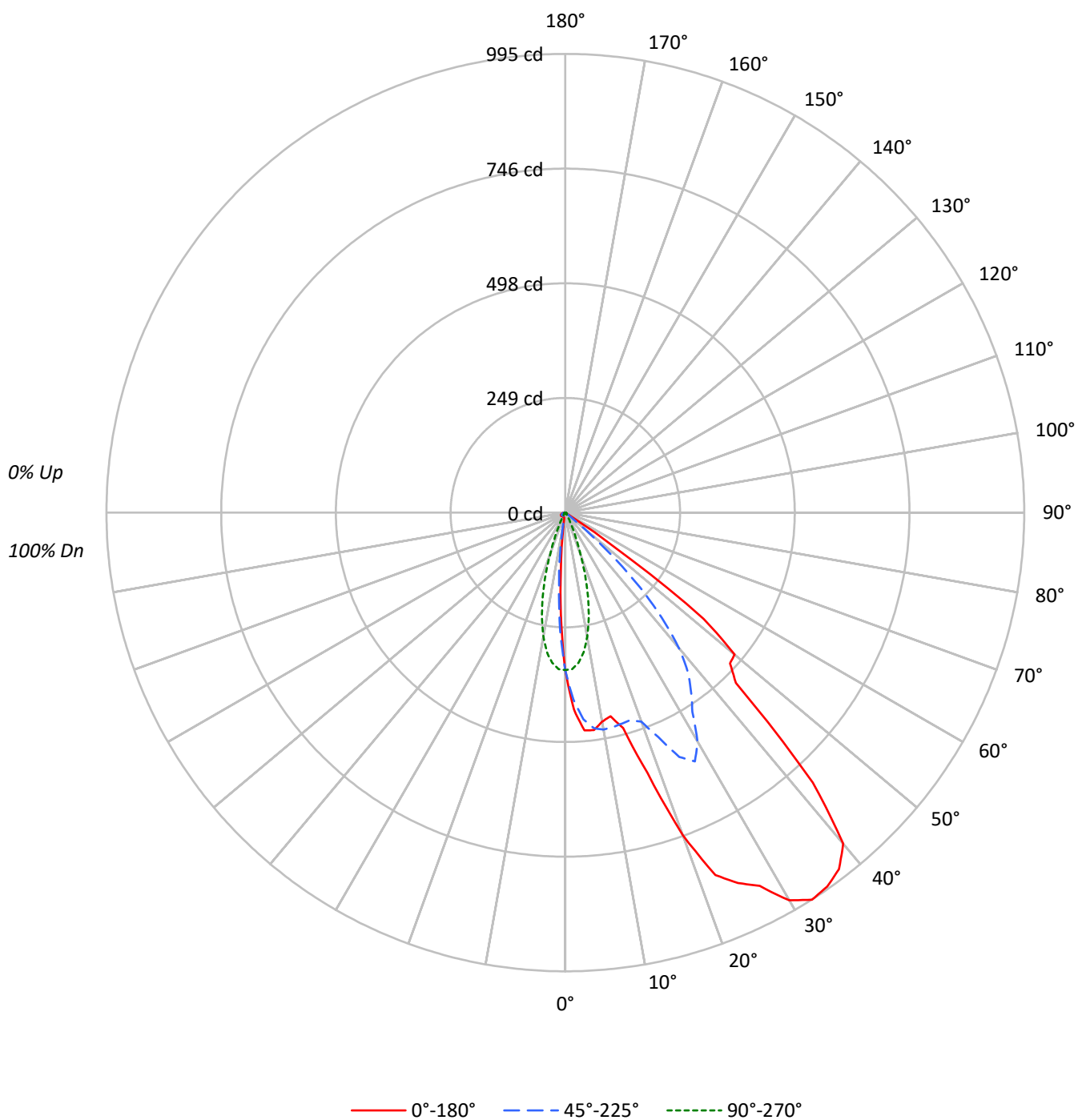
Lumens per Lamp: N/A  
Luminaire Lumens: 531.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1306613

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1306613

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MW

**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  | 37  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 58797  | 58797  | 58797 | 58797 | 58797 |
| 5°  | 81980  | 77779  | 56515 | 27160 | 17617 |
| 10° | 80480  | 83575  | 47760 | 5719  | 2448  |
| 15° | 86296  | 84460  | 33770 | 1997  | 1926  |
| 20° | 136284 | 88449  | 17833 | 1723  | 1796  |
| 25° | 168402 | 111090 | 7107  | 1596  | 1786  |
| 30° | 193079 | 113930 | 2884  | 1591  | 1869  |
| 35° | 208143 | 99993  | 1282  | 1682  | 2060  |
| 40° | 210702 | 86106  | 944   | 1888  | 2316  |
| 45° | 127333 | 55824  | 901   | 2046  | 2630  |
| 50° | 128312 | 9646   | 991   | 2385  | 3001  |
| 55° | 37923  | 570    | 1111  | 2672  | 3363  |
| 60° | 654    | 654    | 1137  | 2893  | 3720  |
| 65° | 571    | 571    | 1141  | 3056  | 3994  |
| 70° | 705    | 705    | 1158  | 3273  | 4482  |
| 75° | 599    | 599    | 1264  | 3394  | 4658  |
| 80° | 496    | 893    | 1389  | 3273  | 5058  |
| 85° | 988    | 1778   | 1778  | 3754  | 4545  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 145454 cd/sqm

TEST NUMBER: P1306613

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.6   | 5.2       |
| 10°-20°   | 68.5   | 12.9      |
| 20°-30°   | 128.4  | 24.2      |
| 30°-40°   | 153.5  | 28.9      |
| 40°-50°   | 110.0  | 20.7      |
| 50°-60°   | 33.9   | 6.4       |
| 60°-70°   | 4.4    | 0.8       |
| 70°-80°   | 3.2    | 0.6       |
| 80°-90°   | 1.3    | 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°    | 224.6  | 42.3      |
| 0°-40°    | 378.1  | 71.2      |
| 0°-60°    | 522.0  | 98.3      |
| 0°-90°    | 531.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 531.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 341 | 341 | 341 | 341  | 341  |      |
| 5°  | 474 | 450 | 327 | 157  | 102  | 44   |
| 15° | 484 | 474 | 189 | 11   | 11   | 155  |
| 25° | 886 | 585 | 37  | 8    | 9    | 408  |
| 35° | 990 | 476 | 6   | 8    | 10   | 614  |
| 45° | 523 | 229 | 4   | 8    | 11   | 480  |
| 55° | 126 | 2   | 4   | 9    | 11   | 163  |
| 65° | 1   | 1   | 3   | 8    | 10   | 2    |
| 75° | 1   | 1   | 2   | 5    | 7    | 1    |
| 85° | 0   | 1   | 1   | 2    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1306613

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 |
| 2.5°  | 427.0 | 427.9 | 429.3 | 425.6 | 423.2 | 421.4 | 418.1 | 417.1 | 409.2 | 405.9 | 402.7 |
| 5°    | 474.2 | 473.3 | 474.2 | 472.8 | 471.9 | 469.1 | 466.3 | 461.6 | 456.4 | 449.9 | 442.4 |
| 7.5°  | 475.6 | 474.7 | 476.5 | 476.5 | 478.4 | 478.4 | 478.4 | 478.9 | 476.1 | 471.4 | 464.8 |
| 10°   | 460.2 | 460.2 | 462.0 | 461.1 | 464.4 | 465.8 | 469.1 | 474.7 | 477.5 | 477.9 | 476.1 |
| 12.5° | 452.2 | 452.2 | 452.7 | 450.8 | 451.8 | 453.2 | 456.9 | 463.4 | 470.0 | 476.5 | 480.3 |
| 15°   | 484.0 | 485.0 | 478.4 | 469.1 | 462.0 | 454.6 | 452.2 | 456.4 | 463.4 | 473.7 | 482.2 |
| 17.5° | 592.1 | 593.5 | 586.4 | 564.0 | 542.5 | 511.6 | 484.0 | 470.5 | 463.0 | 471.4 | 482.6 |
| 20°   | 743.6 | 738.4 | 726.3 | 702.4 | 671.1 | 623.4 | 580.4 | 536.9 | 495.2 | 482.6 | 486.4 |
| 22.5° | 850.7 | 848.8 | 839.0 | 812.3 | 785.2 | 740.8 | 686.0 | 625.3 | 564.9 | 526.6 | 506.5 |
| 25°   | 886.2 | 884.8 | 875.9 | 860.0 | 845.1 | 811.4 | 762.3 | 701.0 | 637.9 | 584.6 | 534.1 |
| 27.5° | 912.9 | 911.0 | 897.0 | 879.2 | 863.8 | 829.6 | 784.7 | 738.4 | 680.4 | 608.4 | 530.8 |
| 30°   | 970.9 | 965.7 | 946.1 | 914.3 | 884.8 | 837.6 | 788.0 | 730.5 | 651.9 | 572.9 | 497.1 |
| 32.5° | 995.2 | 992.4 | 975.5 | 949.8 | 917.5 | 855.8 | 780.5 | 684.2 | 580.8 | 512.5 | 457.4 |
| 35°   | 990.0 | 985.8 | 968.5 | 939.1 | 899.8 | 840.4 | 739.8 | 607.5 | 523.3 | 475.6 | 413.4 |
| 37.5° | 974.6 | 968.5 | 947.9 | 913.3 | 865.6 | 788.0 | 656.6 | 545.3 | 491.0 | 437.3 | 353.5 |
| 40°   | 937.2 | 927.4 | 903.5 | 867.5 | 819.8 | 717.8 | 580.8 | 507.9 | 457.4 | 383.0 | 286.7 |
| 42.5° | 794.1 | 788.9 | 800.6 | 794.5 | 752.5 | 632.3 | 527.0 | 473.7 | 404.1 | 309.6 | 207.6 |
| 45°   | 522.8 | 531.7 | 552.8 | 588.8 | 597.2 | 543.9 | 483.1 | 417.6 | 332.5 | 229.2 | 119.7 |
| 47.5° | 484.0 | 482.2 | 487.3 | 494.3 | 495.7 | 473.3 | 418.1 | 345.1 | 246.9 | 130.9 | 33.2  |
| 50°   | 478.9 | 476.1 | 471.9 | 463.4 | 445.7 | 402.2 | 339.5 | 251.6 | 142.6 | 36.0  | 2.3   |
| 52.5° | 378.3 | 375.5 | 375.5 | 363.4 | 340.5 | 298.4 | 234.3 | 138.4 | 39.8  | 2.3   | 1.9   |
| 55°   | 126.3 | 134.7 | 133.3 | 132.8 | 143.1 | 131.9 | 101.0 | 35.5  | 3.3   | 1.9   | 1.9   |
| 57.5° | 2.3   | 2.3   | 2.3   | 4.2   | 6.5   | 9.4   | 5.6   | 2.8   | 1.9   | 1.9   | 1.9   |
| 60°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 62.5° | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 65°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.9   |
| 67.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   |
| 70°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   |
| 72.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.4   | 1.4   | 1.4   |
| 75°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.4   |
| 77.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 80°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.9   | 0.9   | 0.9   | 0.9   |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.9   | 0.9   | 0.9   |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.9   | 0.9   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1306613

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 341.4 | 341.4 | 341.4 | 341.4 | 341.4  | 341.4 | 341.4  | 341.4 |
| 2.5°  | 395.2 | 388.6 | 376.0 | 340.0 | 300.2  | 254.9 | 224.0  | 220.3 |
| 5°    | 430.7 | 420.9 | 400.3 | 326.9 | 236.2  | 157.1 | 116.9  | 101.9 |
| 7.5°  | 454.1 | 441.0 | 415.7 | 305.4 | 172.1  | 82.8  | 44.4   | 35.5  |
| 10°   | 468.1 | 456.0 | 423.7 | 273.1 | 109.4  | 32.7  | 15.0   | 14.0  |
| 12.5° | 475.6 | 463.9 | 426.5 | 234.3 | 61.7   | 15.0  | 11.7   | 11.7  |
| 15°   | 480.7 | 468.1 | 422.3 | 189.4 | 30.9   | 11.2  | 10.8   | 10.8  |
| 17.5° | 483.1 | 467.7 | 410.1 | 142.6 | 16.4   | 10.3  | 10.3   | 10.3  |
| 20°   | 484.5 | 462.5 | 387.7 | 97.3  | 11.2   | 9.4   | 9.8    | 9.8   |
| 22.5° | 485.9 | 449.9 | 358.2 | 61.7  | 8.9    | 8.9   | 9.4    | 9.4   |
| 25°   | 483.1 | 427.9 | 316.6 | 37.4  | 8.0    | 8.4   | 8.9    | 9.4   |
| 27.5° | 463.0 | 394.7 | 266.1 | 22.9  | 7.0    | 8.0   | 8.9    | 9.4   |
| 30°   | 428.4 | 346.1 | 207.6 | 14.5  | 6.5    | 8.0   | 8.9    | 9.4   |
| 32.5° | 383.5 | 290.4 | 148.2 | 8.9   | 6.5    | 8.0   | 8.9    | 9.4   |
| 35°   | 323.1 | 222.1 | 96.3  | 6.1   | 6.5    | 8.0   | 9.4    | 9.8   |
| 37.5° | 255.3 | 155.3 | 51.9  | 4.7   | 6.5    | 8.0   | 9.4    | 9.8   |
| 40°   | 183.8 | 93.1  | 18.7  | 4.2   | 6.1    | 8.4   | 9.8    | 10.3  |
| 42.5° | 107.6 | 34.6  | 3.3   | 3.7   | 6.1    | 8.4   | 9.8    | 10.3  |
| 45°   | 30.9  | 3.7   | 1.9   | 3.7   | 6.1    | 8.4   | 10.3   | 10.8  |
| 47.5° | 2.3   | 1.4   | 1.9   | 3.7   | 6.1    | 8.4   | 10.3   | 11.2  |
| 50°   | 1.4   | 1.4   | 1.4   | 3.7   | 6.1    | 8.9   | 10.8   | 11.2  |
| 52.5° | 1.9   | 1.9   | 1.9   | 3.7   | 6.1    | 8.9   | 10.8   | 11.2  |
| 55°   | 1.9   | 1.9   | 1.9   | 3.7   | 6.1    | 8.9   | 10.8   | 11.2  |
| 57.5° | 1.9   | 1.9   | 1.9   | 3.7   | 6.1    | 8.4   | 10.8   | 11.2  |
| 60°   | 1.9   | 1.9   | 1.9   | 3.3   | 5.6    | 8.4   | 10.3   | 10.8  |
| 62.5° | 1.9   | 1.9   | 1.9   | 3.3   | 5.6    | 8.0   | 10.3   | 10.3  |
| 65°   | 1.9   | 1.9   | 1.9   | 2.8   | 5.1    | 7.5   | 9.4    | 9.8   |
| 67.5° | 1.9   | 1.9   | 1.9   | 2.8   | 4.7    | 7.0   | 8.9    | 9.4   |
| 70°   | 1.4   | 1.9   | 1.9   | 2.3   | 4.2    | 6.5   | 8.4    | 8.9   |
| 72.5° | 1.4   | 1.4   | 1.9   | 2.3   | 3.7    | 5.6   | 7.5    | 8.0   |
| 75°   | 1.4   | 1.4   | 1.4   | 1.9   | 3.3    | 5.1   | 6.5    | 7.0   |
| 77.5° | 1.4   | 1.4   | 1.4   | 1.9   | 2.8    | 4.2   | 6.1    | 6.1   |
| 80°   | 0.9   | 1.4   | 1.4   | 1.4   | 2.3    | 3.3   | 4.7    | 5.1   |
| 82.5° | 0.9   | 0.9   | 0.9   | 1.4   | 1.9    | 2.8   | 3.7    | 3.7   |
| 85°   | 0.9   | 0.9   | 0.9   | 0.9   | 1.4    | 1.9   | 2.3    | 2.3   |
| 87.5° | 0.5   | 0.9   | 0.9   | 0.9   | 0.9    | 0.9   | 0.9    | 0.9   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)