

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: P1314461

Luminaire Tested: P3SQAS13R709735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R709735DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

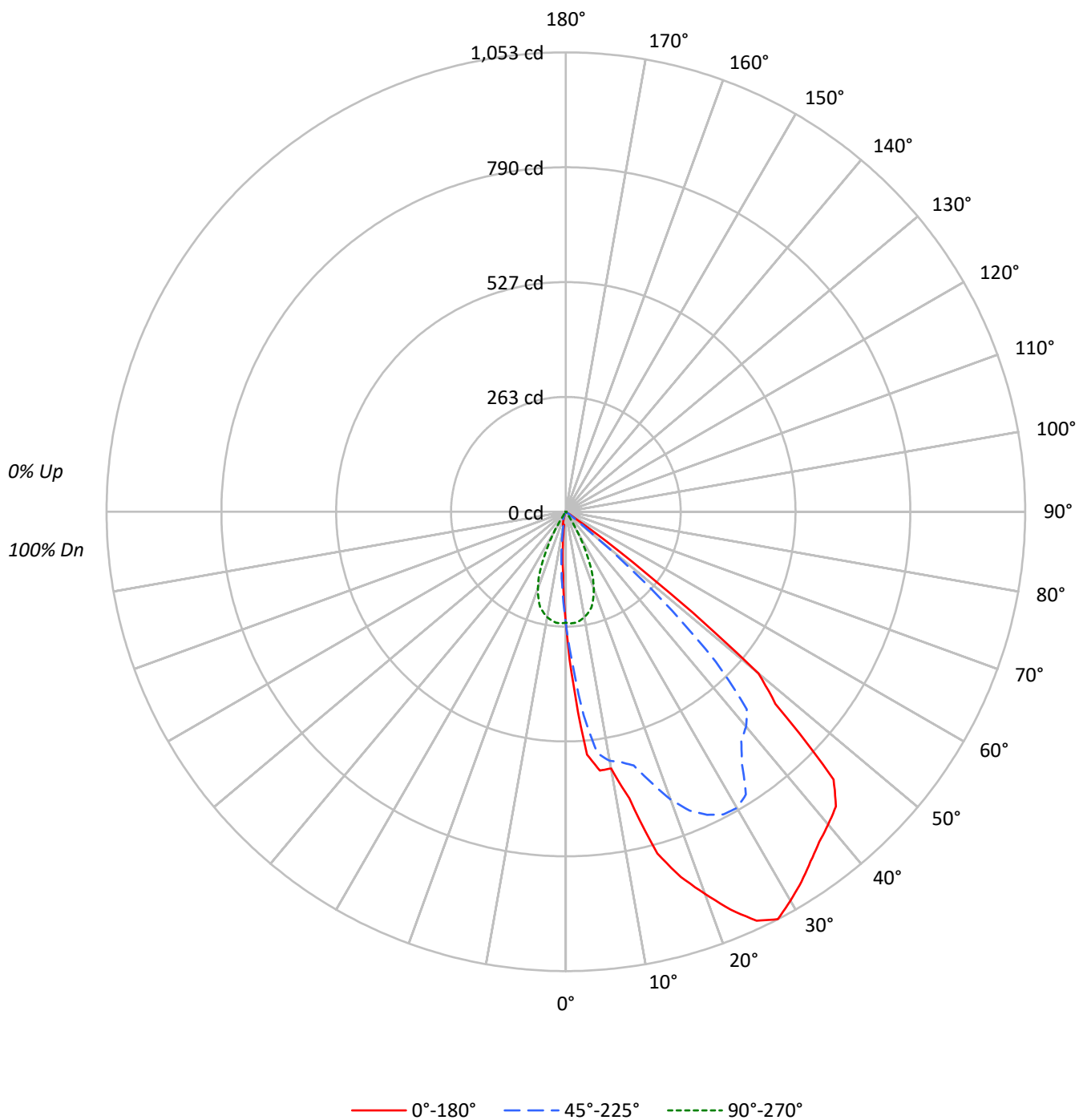
Lumens per Lamp: N/A  
Luminaire Lumens: 685.0 lumens  
Efficiency: N/A  
Efficacy: 46.9 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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  | 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 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  |    |    |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 53  |    |    |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 43779  | 43779  | 43779 | 43779 | 43779 |
| 5°  | 96588  | 81046  | 44119 | 20054 | 13208 |
| 10° | 104473 | 101430 | 42933 | 5579  | 5754  |
| 15° | 144600 | 107371 | 40509 | 5688  | 4137  |
| 20° | 170776 | 128623 | 34364 | 3372  | 1246  |
| 25° | 196545 | 145655 | 24247 | 551   | 0     |
| 30° | 204732 | 155891 | 11156 | 0     | 0     |
| 35° | 205662 | 147760 | 610   | 0     | 0     |
| 40° | 210365 | 144515 | 0     | 0     | 0     |
| 45° | 211410 | 118419 | 0     | 0     | 0     |
| 50° | 154355 | 24596  | 0     | 0     | 0     |
| 55° | 8708   | 0      | 0     | 0     | 0     |
| 60° | 0      | 344    | 344   | 0     | 0     |
| 65° | 0      | 0      | 408   | 0     | 0     |
| 70° | 0      | 504    | 504   | 0     | 0     |
| 75° | 0      | 665    | 665   | 0     | 0     |
| 80° | 0      | 992    | 992   | 992   | 0     |
| 85° | 0      | 1976   | 1976  | 1976  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 215428 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.8   | 4.1       |
| 10°-20°   | 92.9   | 13.6      |
| 20°-30°   | 166.9  | 24.4      |
| 30°-40°   | 202.9  | 29.6      |
| 40°-50°   | 156.7  | 22.9      |
| 50°-60°   | 36.5   | 5.3       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.5    | 0.1       |
| 80°-90°   | 0.5    | 0.1       |
| 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°    | 287.6  | 42.0      |
| 0°-40°    | 490.6  | 71.6      |
| 0°-60°    | 683.7  | 99.8      |
| 0°-90°    | 685.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 685.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 254  | 254 | 254 | 254  | 254  |      |
| 5°  | 559  | 469 | 255 | 116  | 76   | 53   |
| 15° | 811  | 602 | 227 | 32   | 23   | 227  |
| 25° | 1034 | 766 | 128 | 3    | 0    | 471  |
| 35° | 978  | 703 | 3   | 0    | 0    | 614  |
| 45° | 868  | 486 | 0   | 0    | 0    | 613  |
| 55° | 29   | 0   | 0   | 0    | 0    | 119  |
| 65° | 0    | 0   | 1   | 0    | 0    | 0    |
| 75° | 0    | 1   | 1   | 0    | 0    | 0    |
| 85° | 0    | 1   | 1   | 1    | 0    | 0    |
| 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°    | 254.2  | 254.2  | 254.2  | 254.2  | 254.2 | 254.2 | 254.2 | 254.2 | 254.2 | 254.2 | 254.2 |
| 2.5°  | 396.3  | 396.3  | 398.3  | 397.3  | 388.6 | 384.7 | 372.2 | 365.4 | 363.5 | 348.0 | 342.2 |
| 5°    | 558.7  | 559.7  | 554.9  | 553.9  | 544.2 | 537.5 | 526.8 | 510.4 | 494.0 | 468.8 | 446.6 |
| 7.5°  | 598.4  | 597.4  | 596.4  | 596.4  | 594.5 | 590.6 | 585.8 | 581.0 | 574.2 | 558.7 | 541.3 |
| 10°   | 597.4  | 597.4  | 596.4  | 596.4  | 595.5 | 596.4 | 595.5 | 592.6 | 589.7 | 580.0 | 570.3 |
| 12.5° | 672.8  | 667.0  | 659.3  | 647.7  | 628.3 | 613.8 | 597.4 | 592.6 | 590.6 | 587.7 | 581.9 |
| 15°   | 811.0  | 806.2  | 789.7  | 769.4  | 750.1 | 717.3 | 691.2 | 655.4 | 627.4 | 602.2 | 589.7 |
| 17.5° | 877.7  | 880.6  | 862.2  | 849.7  | 831.3 | 805.2 | 774.3 | 737.5 | 697.9 | 650.6 | 612.9 |
| 20°   | 931.8  | 934.7  | 919.3  | 906.7  | 885.4 | 858.4 | 831.3 | 791.7 | 754.0 | 701.8 | 652.5 |
| 22.5° | 986.9  | 988.9  | 974.4  | 956.0  | 931.8 | 903.8 | 869.0 | 828.4 | 787.8 | 741.4 | 689.2 |
| 25°   | 1034.3 | 1032.4 | 1008.2 | 982.1  | 958.9 | 928.9 | 895.1 | 855.5 | 816.8 | 766.5 | 717.3 |
| 27.5° | 1052.7 | 1051.7 | 1024.6 | 999.5  | 972.4 | 931.8 | 901.9 | 867.1 | 826.5 | 782.0 | 731.7 |
| 30°   | 1029.5 | 1044.9 | 1027.5 | 1009.2 | 976.3 | 935.7 | 906.7 | 865.1 | 827.4 | 783.9 | 726.9 |
| 32.5° | 1005.3 | 1024.6 | 1018.8 | 1010.1 | 971.5 | 939.6 | 901.9 | 863.2 | 818.7 | 768.5 | 681.5 |
| 35°   | 978.2  | 998.5  | 999.5  | 989.8  | 955.0 | 923.1 | 888.3 | 847.7 | 797.5 | 702.8 | 639.0 |
| 37.5° | 954.1  | 973.4  | 979.2  | 958.9  | 931.8 | 889.3 | 857.4 | 814.9 | 724.0 | 660.2 | 627.4 |
| 40°   | 935.7  | 950.2  | 958.9  | 927.0  | 899.9 | 858.4 | 821.6 | 747.2 | 665.1 | 642.8 | 596.4 |
| 42.5° | 916.4  | 929.9  | 933.8  | 899.0  | 857.4 | 817.8 | 764.6 | 670.9 | 646.7 | 613.8 | 489.1 |
| 45°   | 868.0  | 884.5  | 874.8  | 841.0  | 810.0 | 768.5 | 689.2 | 648.6 | 622.5 | 486.2 | 300.6 |
| 47.5° | 651.5  | 669.9  | 696.0  | 705.7  | 716.3 | 686.3 | 642.8 | 628.3 | 511.4 | 294.8 | 93.8  |
| 50°   | 576.1  | 573.2  | 573.2  | 578.1  | 586.8 | 596.4 | 609.0 | 529.7 | 307.4 | 91.8  | 0.0   |
| 52.5° | 234.9  | 246.5  | 303.5  | 354.8  | 413.7 | 472.7 | 491.1 | 324.8 | 119.9 | 1.9   | 0.0   |
| 55°   | 29.0   | 29.0   | 40.6   | 69.6   | 115.0 | 185.6 | 208.8 | 104.4 | 8.7   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.0    | 7.7   | 21.3  | 14.5  | 3.9   | 1.0   | 1.0   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 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°    | 254.2 | 254.2 | 254.2 | 254.2 | 254.2  | 254.2 | 254.2  | 254.2 |
| 2.5°  | 332.5 | 320.9 | 304.5 | 256.2 | 214.6  | 177.9 | 156.6  | 146.0 |
| 5°    | 425.3 | 397.3 | 359.6 | 255.2 | 174.0  | 116.0 | 87.0   | 76.4  |
| 7.5°  | 514.3 | 482.4 | 418.6 | 251.3 | 133.4  | 67.7  | 37.7   | 30.0  |
| 10°   | 552.9 | 529.7 | 472.7 | 245.5 | 96.7   | 31.9  | 31.9   | 32.9  |
| 12.5° | 568.4 | 551.0 | 504.6 | 236.8 | 63.8   | 30.9  | 32.9   | 30.9  |
| 15°   | 579.0 | 562.6 | 520.1 | 227.2 | 36.7   | 31.9  | 26.1   | 23.2  |
| 17.5° | 584.8 | 565.5 | 524.9 | 208.8 | 24.2   | 27.1  | 16.4   | 13.5  |
| 20°   | 603.2 | 572.3 | 528.8 | 187.5 | 23.2   | 18.4  | 8.7    | 6.8   |
| 22.5° | 634.1 | 585.8 | 529.7 | 161.4 | 18.4   | 10.6  | 2.9    | 0.0   |
| 25°   | 662.2 | 604.2 | 532.6 | 127.6 | 5.8    | 2.9   | 0.0    | 0.0   |
| 27.5° | 675.7 | 610.0 | 531.7 | 89.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 659.3 | 595.5 | 523.0 | 56.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 620.6 | 584.8 | 495.9 | 24.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 608.0 | 561.6 | 434.0 | 2.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 580.0 | 494.9 | 319.0 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 498.8 | 357.7 | 151.8 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 329.6 | 152.7 | 8.7   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 116.0 | 9.7   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 1.9   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.0   | 0.0   | 1.0   | 1.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.0   | 1.0   | 1.0   | 1.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 82.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 85°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 87.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)