

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: PORTFOLIO

Report Number: P1323811

Luminaire Tested: LDSQA3D09R559030D2WDE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1323811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R559030D2WDE010 3LSQCA30R 1MB  
Description: 3in Adjustable Dim to Warm LED luminaire with, R55 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

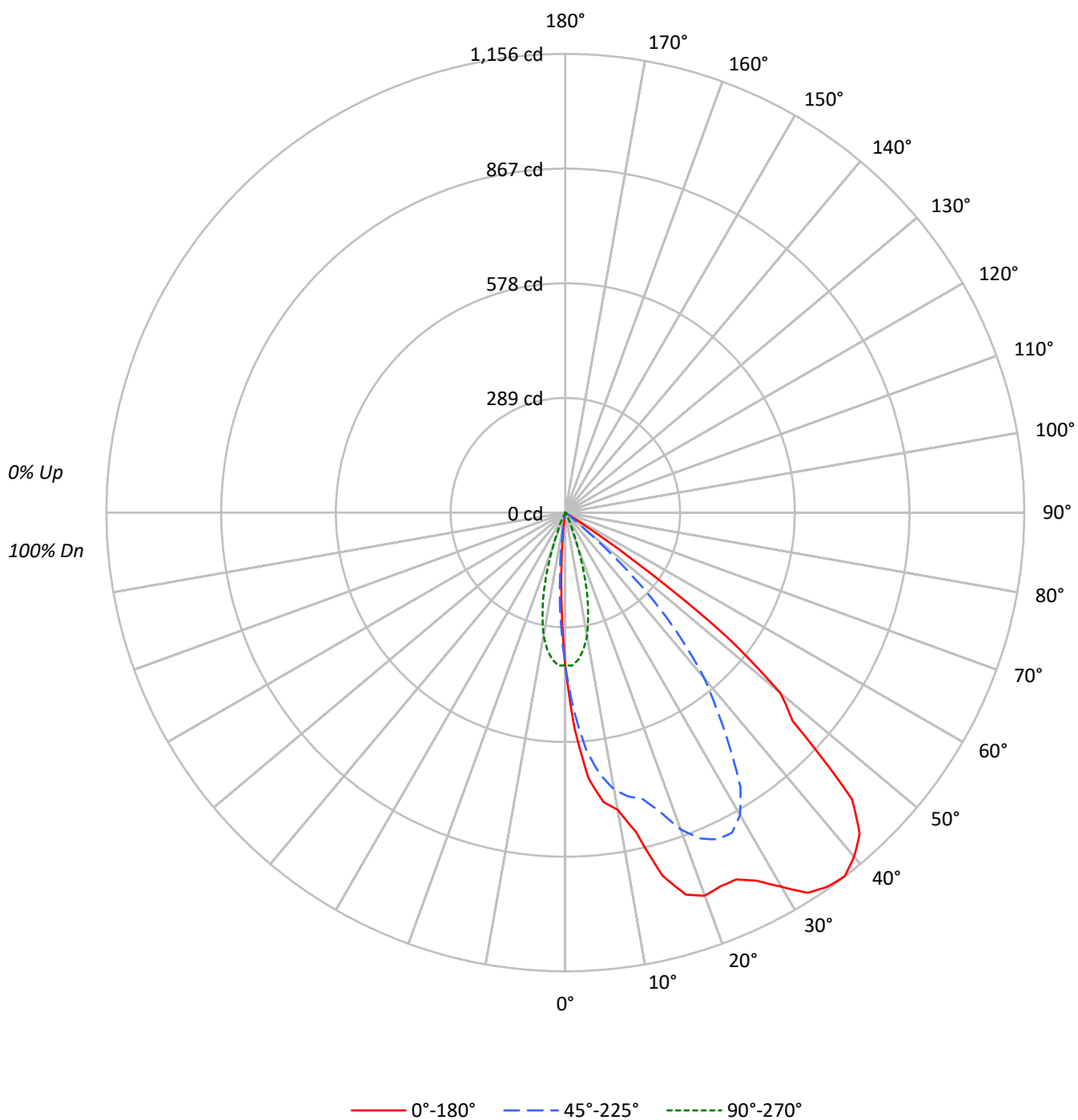
Lumens per Lamp: N/A  
Luminaire Lumens: 712.0 lumens  
Efficiency: N/A  
Efficacy: 48.4 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.7  
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  |     |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |   |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |  |  |   |
| 2   | 105 | 99  | 95  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 86  | 88  | 86  | 84  | 82  |  |  |   |
| 3   | 98  | 90  | 84  | 80  | 96  | 89  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |  |  |   |
| 4   | 92  | 82  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 66  |  |  |   |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 61  | 59  |  |  |   |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |  |  |   |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |  |  |   |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |  |  |   |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  |  |  |   |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |  |  |   |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 66254  | 66254  | 66254 | 66254 | 66254 |
| 5°  | 116141 | 103521 | 64312 | 26727 | 15386 |
| 10° | 132926 | 123920 | 55000 | 2920  | 1049  |
| 15° | 168920 | 133010 | 37692 | 588   | 357   |
| 20° | 188242 | 155619 | 16550 | 0     | 0     |
| 25° | 193770 | 172658 | 4713  | 0     | 0     |
| 30° | 216485 | 174982 | 656   | 0     | 0     |
| 35° | 241971 | 151923 | 0     | 0     | 0     |
| 40° | 254520 | 122302 | 0     | 0     | 0     |
| 45° | 248845 | 77257  | 0     | 0     | 0     |
| 50° | 189481 | 15781  | 0     | 0     | 0     |
| 55° | 62094  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 285    | 285   | 0     | 0     |
| 70° | 0      | 352    | 352   | 0     | 0     |
| 75° | 0      | 466    | 466   | 0     | 0     |
| 80° | 0      | 694    | 1289  | 694   | 0     |
| 85° | 0      | 1383   | 1383  | 1383  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 248845 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.1   | 4.9       |
| 10°-20°   | 103.0  | 14.5      |
| 20°-30°   | 167.5  | 23.5      |
| 30°-40°   | 199.1  | 28.0      |
| 40°-50°   | 162.8  | 22.9      |
| 50°-60°   | 43.2   | 6.1       |
| 60°-70°   | 0.3    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 305.7  | 42.9      |
| 0°-40°    | 504.8  | 70.9      |
| 0°-60°    | 710.8  | 99.8      |
| 0°-90°    | 712.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 712.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 385  | 385 | 385 | 385  | 385  |      |
| 5°  | 672  | 599 | 372 | 155  | 89   | 66   |
| 15° | 947  | 746 | 211 | 3    | 2    | 265  |
| 25° | 1020 | 909 | 25  | 0    | 0    | 480  |
| 35° | 1151 | 723 | 0   | 0    | 0    | 716  |
| 45° | 1022 | 317 | 0   | 0    | 0    | 733  |
| 55° | 207  | 0   | 0   | 0    | 0    | 232  |
| 65° | 0    | 1   | 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°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 384.7  | 384.7  | 384.7  | 384.7  | 384.7  | 384.7  | 384.7  | 384.7  | 384.7 | 384.7 | 384.7 |
| 2.5°  | 546.0  | 542.0  | 542.6  | 540.6  | 542.6  | 533.9  | 524.6  | 515.9  | 509.2 | 499.8 | 442.9 |
| 5°    | 671.8  | 665.1  | 663.1  | 660.4  | 657.7  | 647.0  | 638.3  | 627.6  | 614.9 | 598.8 | 494.5 |
| 7.5°  | 735.3  | 730.0  | 727.3  | 728.7  | 722.6  | 718.6  | 707.2  | 695.2  | 681.8 | 664.4 | 533.3 |
| 10°   | 760.1  | 754.7  | 754.1  | 753.4  | 752.7  | 750.1  | 744.7  | 734.0  | 722.0 | 708.6 | 555.4 |
| 12.5° | 825.0  | 813.0  | 804.9  | 795.6  | 784.2  | 769.5  | 757.4  | 748.1  | 743.4 | 732.7 | 565.4 |
| 15°   | 947.4  | 936.1  | 927.4  | 915.3  | 893.9  | 862.5  | 833.7  | 796.9  | 764.8 | 746.0 | 561.4 |
| 17.5° | 1009.0 | 1003.7 | 996.3  | 988.3  | 973.5  | 950.8  | 921.4  | 882.5  | 841.7 | 788.9 | 542.0 |
| 20°   | 1027.1 | 1024.4 | 1019.0 | 1015.7 | 1005.7 | 989.6  | 969.5  | 939.4  | 901.3 | 849.1 | 511.9 |
| 22.5° | 1019.7 | 1021.7 | 1024.4 | 1033.1 | 1034.4 | 1023.1 | 1004.3 | 975.6  | 936.7 | 888.6 | 465.7 |
| 25°   | 1019.7 | 1018.4 | 1018.4 | 1036.4 | 1047.8 | 1042.5 | 1029.1 | 1003.0 | 963.5 | 908.6 | 408.8 |
| 27.5° | 1045.8 | 1037.8 | 1021.1 | 1039.8 | 1058.5 | 1056.5 | 1044.5 | 1013.7 | 969.5 | 909.3 | 339.2 |
| 30°   | 1088.6 | 1071.2 | 1043.8 | 1061.2 | 1078.6 | 1071.2 | 1051.8 | 1012.4 | 956.1 | 879.9 | 254.3 |
| 32.5° | 1136.1 | 1128.1 | 1114.1 | 1125.4 | 1122.8 | 1093.3 | 1058.5 | 1003.7 | 928.7 | 821.0 | 171.3 |
| 35°   | 1150.9 | 1152.2 | 1142.8 | 1140.8 | 1125.4 | 1095.3 | 1058.5 | 978.9  | 871.2 | 722.6 | 101.7 |
| 37.5° | 1155.5 | 1156.2 | 1141.5 | 1122.8 | 1100.0 | 1064.5 | 1020.4 | 928.0  | 764.8 | 627.6 | 54.2  |
| 40°   | 1132.1 | 1131.5 | 1107.4 | 1084.6 | 1059.2 | 1024.4 | 960.2  | 821.0  | 663.7 | 544.0 | 19.4  |
| 42.5° | 1097.3 | 1088.6 | 1065.9 | 1037.8 | 1007.0 | 963.5  | 863.1  | 693.2  | 576.8 | 435.6 | 1.3   |
| 45°   | 1021.7 | 1013.7 | 995.6  | 965.5  | 931.4  | 869.8  | 711.3  | 595.5  | 469.0 | 317.2 | 0.0   |
| 47.5° | 776.8  | 772.8  | 791.5  | 795.6  | 794.9  | 724.6  | 593.5  | 485.8  | 344.6 | 184.7 | 0.0   |
| 50°   | 707.2  | 701.9  | 683.2  | 659.1  | 616.2  | 557.4  | 475.7  | 360.0  | 202.1 | 58.9  | 0.0   |
| 52.5° | 507.8  | 525.2  | 529.3  | 511.2  | 471.0  | 412.8  | 327.9  | 207.4  | 70.3  | 0.0   | 0.0   |
| 55°   | 206.8  | 196.0  | 204.1  | 214.1  | 222.1  | 204.1  | 151.2  | 73.6   | 0.7   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.7    | 4.0    | 9.4    | 15.4   | 19.4   | 20.7   | 1.3    | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.7   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.0    | 0.7   | 0.7   | 0.7   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 0.7   | 0.7   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 0.7   | 0.7   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 0.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 1.3   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 1.3   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 384.7 | 384.7  | 384.7 | 384.7  | 384.7 |
| 2.5°  | 386.1 | 326.5  | 269.0 | 237.5  | 222.1 |
| 5°    | 372.0 | 249.6  | 154.6 | 107.1  | 89.0  |
| 7.5°  | 348.6 | 171.3  | 61.6  | 25.4   | 18.1  |
| 10°   | 314.5 | 98.4   | 16.7  | 6.7    | 6.0   |
| 12.5° | 265.6 | 44.8   | 6.0   | 4.7    | 4.7   |
| 15°   | 211.4 | 15.4   | 3.3   | 2.7    | 2.0   |
| 17.5° | 148.5 | 4.0    | 1.3   | 0.0    | 0.0   |
| 20°   | 90.3  | 0.7    | 0.0   | 0.0    | 0.0   |
| 22.5° | 50.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 24.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 10.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 3.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.3   | 0.7    | 0.7   | 0.0    | 0.0   |
| 80°   | 1.3   | 0.7    | 0.7   | 0.0    | 0.0   |
| 82.5° | 1.3   | 0.7    | 0.7   | 0.0    | 0.0   |
| 85°   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 87.5° | 1.3   | 0.7    | 0.7   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)