

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: P1306946

Luminaire Tested: P3SQAS13R559027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306946  
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: IRiS  
Catalog Number: P3SQAS13R559027DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

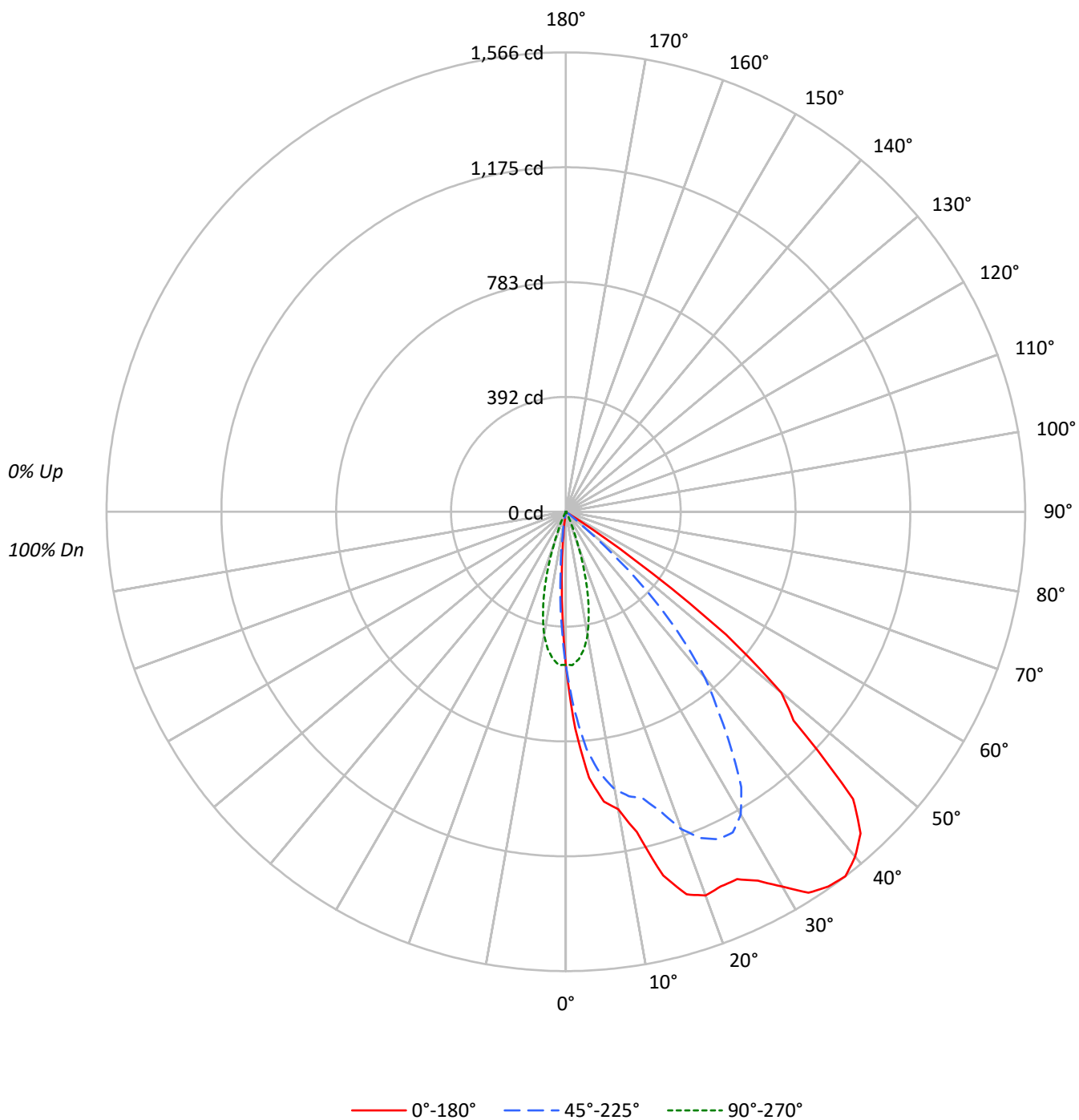
Lumens per Lamp: N/A  
Luminaire Lumens: 965.0 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 99  | 95  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 86  | 88  | 86  | 84  | 84  | 84  | 82  |
| 3   | 98  | 91  | 84  | 80  | 96  | 89  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 75  | 75  | 73  |
| 4   | 92  | 82  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 68  | 68  | 66  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 61  | 61  | 61  | 59  |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 55  | 55  | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 50  | 50  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 45  | 45  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 41  | 41  | 40  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 38  | 38  | 36  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 89797  | 89797  | 89797 | 89797 | 89797 |
| 5°  | 157408 | 140310 | 87166 | 36218 | 20849 |
| 10° | 180161 | 167954 | 74534 | 3970  | 1434  |
| 15° | 228952 | 180277 | 51100 | 802   | 481   |
| 20° | 255120 | 210913 | 22433 | 0     | 0     |
| 25° | 262636 | 234018 | 6385  | 0     | 0     |
| 30° | 293426 | 237147 | 895   | 0     | 0     |
| 35° | 327940 | 205914 | 0     | 0     | 0     |
| 40° | 344965 | 165760 | 0     | 0     | 0     |
| 45° | 337281 | 104706 | 0     | 0     | 0     |
| 50° | 256839 | 21381  | 0     | 0     | 0     |
| 55° | 84133  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 367    | 367   | 0     | 0     |
| 70° | 0      | 453    | 453   | 0     | 0     |
| 75° | 0      | 599    | 599   | 0     | 0     |
| 80° | 0      | 893    | 1785  | 893   | 0     |
| 85° | 0      | 1778   | 1778  | 1778  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 337281 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.6   | 4.9       |
| 10°-20°   | 139.6  | 14.5      |
| 20°-30°   | 227.1  | 23.5      |
| 30°-40°   | 269.9  | 28.0      |
| 40°-50°   | 220.7  | 22.9      |
| 50°-60°   | 58.5   | 6.1       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.6    | 0.1       |
| 80°-90°   | 0.7    | 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°    | 414.3  | 42.9      |
| 0°-40°    | 684.2  | 70.9      |
| 0°-60°    | 963.4  | 99.8      |
| 0°-90°    | 965.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 965.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 521  | 521  | 521 | 521  | 521  |      |
| 5°  | 910  | 812  | 504 | 210  | 121  | 89   |
| 15° | 1284 | 1011 | 287 | 4    | 3    | 359  |
| 25° | 1382 | 1232 | 34  | 0    | 0    | 651  |
| 35° | 1560 | 979  | 0   | 0    | 0    | 970  |
| 45° | 1385 | 430  | 0   | 0    | 0    | 994  |
| 55° | 280  | 0    | 0   | 0    | 0    | 315  |
| 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°    | 521.4  | 521.4  | 521.4  | 521.4  | 521.4  | 521.4  | 521.4  | 521.4  | 521.4  | 521.4  | 521.4 |
| 2.5°  | 740.0  | 734.6  | 735.5  | 732.7  | 735.5  | 723.7  | 711.0  | 699.2  | 690.1  | 677.4  | 600.3 |
| 5°    | 910.5  | 901.4  | 898.7  | 895.1  | 891.4  | 876.9  | 865.1  | 850.6  | 833.4  | 811.6  | 670.2 |
| 7.5°  | 996.6  | 989.4  | 985.8  | 987.6  | 979.4  | 974.0  | 958.6  | 942.2  | 924.1  | 900.5  | 722.8 |
| 10°   | 1030.2 | 1022.9 | 1022.0 | 1021.1 | 1020.2 | 1016.6 | 1009.3 | 994.8  | 978.5  | 960.4  | 752.7 |
| 12.5° | 1118.2 | 1101.8 | 1091.0 | 1078.3 | 1062.8 | 1042.9 | 1026.6 | 1013.9 | 1007.5 | 993.0  | 766.3 |
| 15°   | 1284.1 | 1268.7 | 1256.9 | 1240.6 | 1211.6 | 1168.9 | 1129.9 | 1080.1 | 1036.5 | 1011.1 | 760.9 |
| 17.5° | 1367.5 | 1360.3 | 1350.3 | 1339.4 | 1319.5 | 1288.6 | 1248.7 | 1196.1 | 1140.8 | 1069.2 | 734.6 |
| 20°   | 1392.0 | 1388.4 | 1381.1 | 1376.6 | 1363.0 | 1341.2 | 1314.0 | 1273.2 | 1221.5 | 1150.8 | 693.7 |
| 22.5° | 1382.1 | 1384.8 | 1388.4 | 1400.2 | 1402.0 | 1386.6 | 1361.2 | 1322.2 | 1269.6 | 1204.3 | 631.2 |
| 25°   | 1382.1 | 1380.2 | 1380.2 | 1404.7 | 1420.1 | 1412.9 | 1394.7 | 1359.4 | 1305.9 | 1231.5 | 554.1 |
| 27.5° | 1417.4 | 1406.5 | 1383.9 | 1409.3 | 1434.7 | 1431.9 | 1415.6 | 1373.9 | 1314.0 | 1232.4 | 459.8 |
| 30°   | 1475.5 | 1451.9 | 1414.7 | 1438.3 | 1461.9 | 1451.9 | 1425.6 | 1372.1 | 1295.9 | 1192.5 | 344.6 |
| 32.5° | 1539.8 | 1529.0 | 1509.9 | 1525.3 | 1521.7 | 1481.8 | 1434.7 | 1360.3 | 1258.7 | 1112.7 | 232.2 |
| 35°   | 1559.8 | 1561.6 | 1548.9 | 1546.2 | 1525.3 | 1484.5 | 1434.7 | 1326.7 | 1180.7 | 979.4  | 137.8 |
| 37.5° | 1566.1 | 1567.1 | 1547.1 | 1521.7 | 1490.9 | 1442.8 | 1383.0 | 1257.8 | 1036.5 | 850.6  | 73.5  |
| 40°   | 1534.4 | 1533.5 | 1500.9 | 1470.0 | 1435.6 | 1388.4 | 1301.3 | 1112.7 | 899.6  | 737.3  | 26.3  |
| 42.5° | 1487.2 | 1475.5 | 1444.6 | 1406.5 | 1364.8 | 1305.9 | 1169.8 | 939.5  | 781.7  | 590.4  | 1.8   |
| 45°   | 1384.8 | 1373.9 | 1349.4 | 1308.6 | 1262.3 | 1178.9 | 964.0  | 807.1  | 635.7  | 429.9  | 0.0   |
| 47.5° | 1052.9 | 1047.4 | 1072.8 | 1078.3 | 1077.3 | 982.1  | 804.4  | 658.4  | 467.0  | 250.3  | 0.0   |
| 50°   | 958.6  | 951.3  | 925.9  | 893.3  | 835.2  | 755.4  | 644.8  | 487.9  | 273.9  | 79.8   | 0.0   |
| 52.5° | 688.3  | 711.9  | 717.3  | 692.8  | 638.4  | 559.5  | 444.4  | 281.1  | 95.2   | 0.0    | 0.0   |
| 55°   | 280.2  | 265.7  | 276.6  | 290.2  | 301.1  | 276.6  | 205.0  | 99.8   | 0.9    | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.9    | 5.4    | 12.7   | 20.9   | 26.3   | 28.1   | 1.8    | 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    | 0.9   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.0    | 0.9    | 0.9    | 0.9   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 0.0    | 0.0    | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 521.4 | 521.4  | 521.4 | 521.4  | 521.4 |
| 2.5°  | 523.3 | 442.5  | 364.6 | 321.9  | 301.1 |
| 5°    | 504.2 | 338.3  | 209.5 | 145.1  | 120.6 |
| 7.5°  | 472.5 | 232.2  | 83.4  | 34.5   | 24.5  |
| 10°   | 426.2 | 133.3  | 22.7  | 9.1    | 8.2   |
| 12.5° | 360.0 | 60.8   | 8.2   | 6.3    | 6.3   |
| 15°   | 286.6 | 20.9   | 4.5   | 3.6    | 2.7   |
| 17.5° | 201.3 | 5.4    | 1.8   | 0.0    | 0.0   |
| 20°   | 122.4 | 0.9    | 0.0   | 0.0    | 0.0   |
| 22.5° | 68.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 33.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 14.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 4.5   | 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° | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.8   | 0.9    | 0.9   | 0.0    | 0.0   |
| 80°   | 1.8   | 0.9    | 0.9   | 0.0    | 0.0   |
| 82.5° | 1.8   | 0.9    | 0.9   | 0.0    | 0.0   |
| 85°   | 0.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 87.5° | 1.8   | 0.9    | 0.9   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)