

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: P1309182

Luminaire Tested: P3SQAS13R559035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309182  
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: P3SQAS13R559035DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

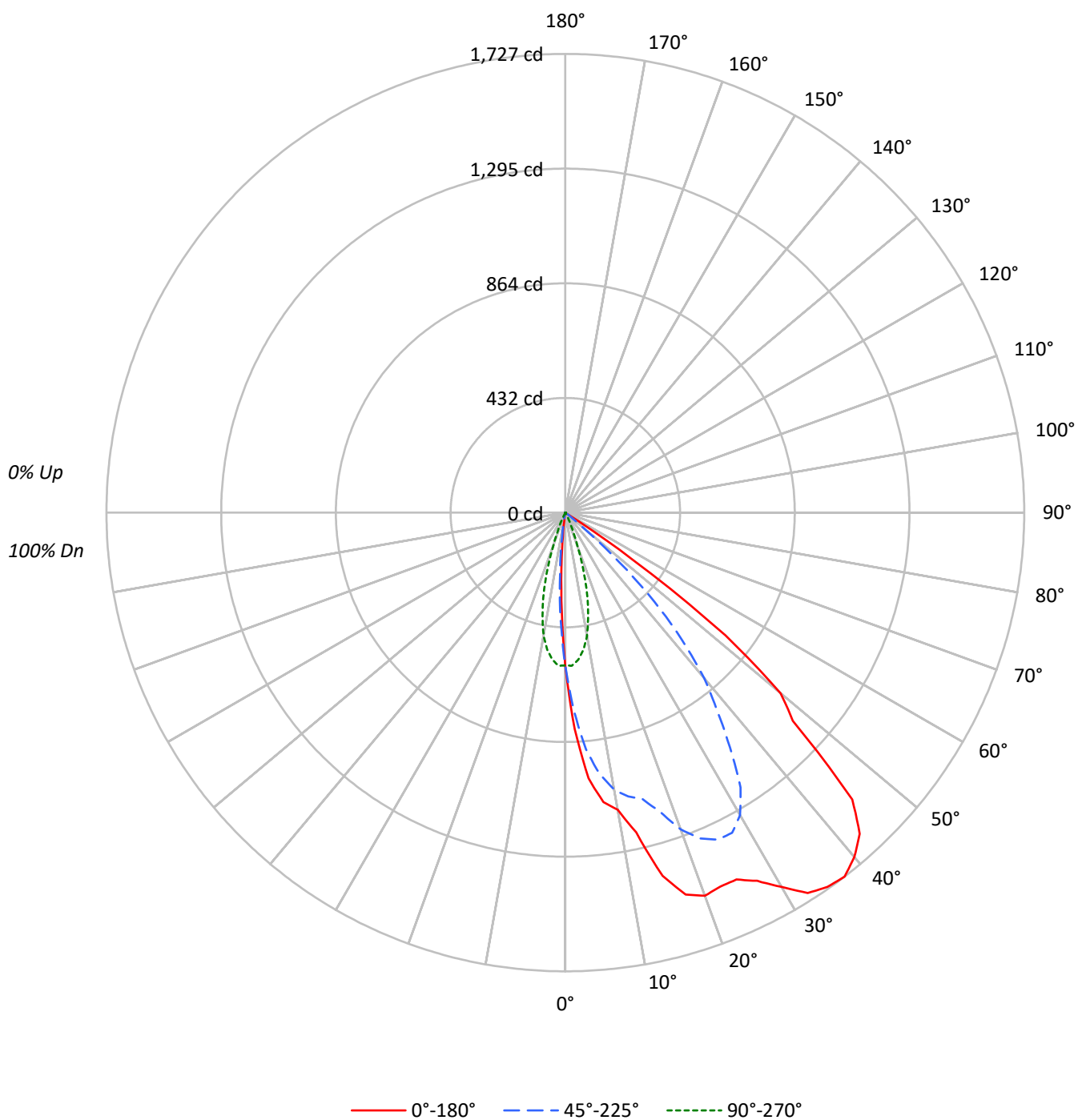
Lumens per Lamp: N/A  
Luminaire Lumens: 1064.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     | 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°  | 99011  | 99011  | 99011 | 99011 | 99011 |
| 5°  | 173555 | 154711 | 96104 | 39935 | 22993 |
| 10° | 198646 | 185180 | 82193 | 4372  | 1574  |
| 15° | 252452 | 198784 | 56342 | 891   | 535   |
| 20° | 281291 | 232558 | 24742 | 0     | 0     |
| 25° | 289563 | 258037 | 7031  | 0     | 0     |
| 30° | 323515 | 261488 | 994   | 0     | 0     |
| 35° | 361579 | 227044 | 0     | 0     | 0     |
| 40° | 380352 | 182757 | 0     | 0     | 0     |
| 45° | 371867 | 115423 | 0     | 0     | 0     |
| 50° | 283176 | 23578  | 0     | 0     | 0     |
| 55° | 92781  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 408    | 408   | 0     | 0     |
| 70° | 0      | 504    | 504   | 0     | 0     |
| 75° | 0      | 665    | 665   | 0     | 0     |
| 80° | 0      | 992    | 1984  | 992   | 0     |
| 85° | 0      | 1976   | 1976  | 1976  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 371867 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.5   | 4.9       |
| 10°-20°   | 154.0  | 14.5      |
| 20°-30°   | 250.4  | 23.5      |
| 30°-40°   | 297.5  | 28.0      |
| 40°-50°   | 243.3  | 22.9      |
| 50°-60°   | 64.5   | 6.1       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.8    | 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°    | 456.8  | 42.9      |
| 0°-40°    | 754.4  | 70.9      |
| 0°-60°    | 1062.2 | 99.8      |
| 0°-90°    | 1064.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1064.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 575  | 575  | 575 | 575  | 575  |      |
| 5°  | 1004 | 895  | 556 | 231  | 133  | 98   |
| 15° | 1416 | 1115 | 316 | 5    | 3    | 396  |
| 25° | 1524 | 1358 | 37  | 0    | 0    | 718  |
| 35° | 1720 | 1080 | 0   | 0    | 0    | 1069 |
| 45° | 1527 | 474  | 0   | 0    | 0    | 1096 |
| 55° | 309  | 0    | 0   | 0    | 0    | 347  |
| 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°    | 574.9  | 574.9  | 574.9  | 574.9  | 574.9  | 574.9  | 574.9  | 574.9  | 574.9  | 574.9  | 574.9 |
| 2.5°  | 815.9  | 809.9  | 810.9  | 807.9  | 810.9  | 797.9  | 783.9  | 770.9  | 760.9  | 746.9  | 661.9 |
| 5°    | 1003.9 | 993.9  | 990.9  | 986.9  | 982.9  | 966.9  | 953.9  | 937.9  | 918.9  | 894.9  | 738.9 |
| 7.5°  | 1098.9 | 1090.9 | 1086.9 | 1088.9 | 1079.9 | 1073.9 | 1056.9 | 1038.9 | 1018.9 | 992.9  | 796.9 |
| 10°   | 1135.9 | 1127.9 | 1126.9 | 1125.9 | 1124.9 | 1120.9 | 1112.9 | 1096.9 | 1078.9 | 1058.9 | 829.9 |
| 12.5° | 1232.9 | 1214.9 | 1202.9 | 1188.9 | 1171.9 | 1149.9 | 1131.9 | 1117.9 | 1110.9 | 1094.9 | 844.9 |
| 15°   | 1415.9 | 1398.9 | 1385.9 | 1367.9 | 1335.9 | 1288.9 | 1245.9 | 1190.9 | 1142.9 | 1114.9 | 838.9 |
| 17.5° | 1507.8 | 1499.8 | 1488.8 | 1476.8 | 1454.8 | 1420.8 | 1376.9 | 1318.9 | 1257.9 | 1178.9 | 809.9 |
| 20°   | 1534.8 | 1530.8 | 1522.8 | 1517.8 | 1502.8 | 1478.8 | 1448.8 | 1403.9 | 1346.9 | 1268.9 | 764.9 |
| 22.5° | 1523.8 | 1526.8 | 1530.8 | 1543.8 | 1545.8 | 1528.8 | 1500.8 | 1457.8 | 1399.9 | 1327.9 | 695.9 |
| 25°   | 1523.8 | 1521.8 | 1521.8 | 1548.8 | 1565.8 | 1557.8 | 1537.8 | 1498.8 | 1439.8 | 1357.9 | 610.9 |
| 27.5° | 1562.8 | 1550.8 | 1525.8 | 1553.8 | 1581.8 | 1578.8 | 1560.8 | 1514.8 | 1448.8 | 1358.9 | 506.9 |
| 30°   | 1626.8 | 1600.8 | 1559.8 | 1585.8 | 1611.8 | 1600.8 | 1571.8 | 1512.8 | 1428.8 | 1314.9 | 380.0 |
| 32.5° | 1697.8 | 1685.8 | 1664.8 | 1681.8 | 1677.8 | 1633.8 | 1581.8 | 1499.8 | 1387.9 | 1226.9 | 256.0 |
| 35°   | 1719.8 | 1721.8 | 1707.8 | 1704.8 | 1681.8 | 1636.8 | 1581.8 | 1462.8 | 1301.9 | 1079.9 | 152.0 |
| 37.5° | 1726.8 | 1727.8 | 1705.8 | 1677.8 | 1643.8 | 1590.8 | 1524.8 | 1386.9 | 1142.9 | 937.9  | 81.0  |
| 40°   | 1691.8 | 1690.8 | 1654.8 | 1620.8 | 1582.8 | 1530.8 | 1434.8 | 1226.9 | 991.9  | 812.9  | 29.0  |
| 42.5° | 1639.8 | 1626.8 | 1592.8 | 1550.8 | 1504.8 | 1439.8 | 1289.9 | 1035.9 | 861.9  | 650.9  | 2.0   |
| 45°   | 1526.8 | 1514.8 | 1487.8 | 1442.8 | 1391.9 | 1299.9 | 1062.9 | 889.9  | 700.9  | 473.9  | 0.0   |
| 47.5° | 1160.9 | 1154.9 | 1182.9 | 1188.9 | 1187.9 | 1082.9 | 886.9  | 725.9  | 514.9  | 276.0  | 0.0   |
| 50°   | 1056.9 | 1048.9 | 1020.9 | 984.9  | 920.9  | 832.9  | 710.9  | 537.9  | 302.0  | 88.0   | 0.0   |
| 52.5° | 758.9  | 784.9  | 790.9  | 763.9  | 703.9  | 616.9  | 489.9  | 310.0  | 105.0  | 0.0    | 0.0   |
| 55°   | 309.0  | 293.0  | 305.0  | 320.0  | 332.0  | 305.0  | 226.0  | 110.0  | 1.0    | 0.0    | 0.0   |
| 57.5° | 0.0    | 1.0    | 6.0    | 14.0   | 23.0   | 29.0   | 31.0   | 2.0    | 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    | 1.0   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 0.0    | 1.0    | 1.0    | 1.0   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 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    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 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):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 574.9 | 574.9  | 574.9 | 574.9  | 574.9 |
| 2.5°  | 576.9 | 487.9  | 402.0 | 355.0  | 332.0 |
| 5°    | 555.9 | 373.0  | 231.0 | 160.0  | 133.0 |
| 7.5°  | 520.9 | 256.0  | 92.0  | 38.0   | 27.0  |
| 10°   | 470.0 | 147.0  | 25.0  | 10.0   | 9.0   |
| 12.5° | 397.0 | 67.0   | 9.0   | 7.0    | 7.0   |
| 15°   | 316.0 | 23.0   | 5.0   | 4.0    | 3.0   |
| 17.5° | 222.0 | 6.0    | 2.0   | 0.0    | 0.0   |
| 20°   | 135.0 | 1.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 75.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 37.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 16.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 5.0   | 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° | 1.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 77.5° | 2.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 80°   | 2.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 82.5° | 2.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 85°   | 1.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 87.5° | 2.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)