

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: P1318196

Luminaire Tested: P3SQAS17R559835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318196  
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: P3SQAS17R559835DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

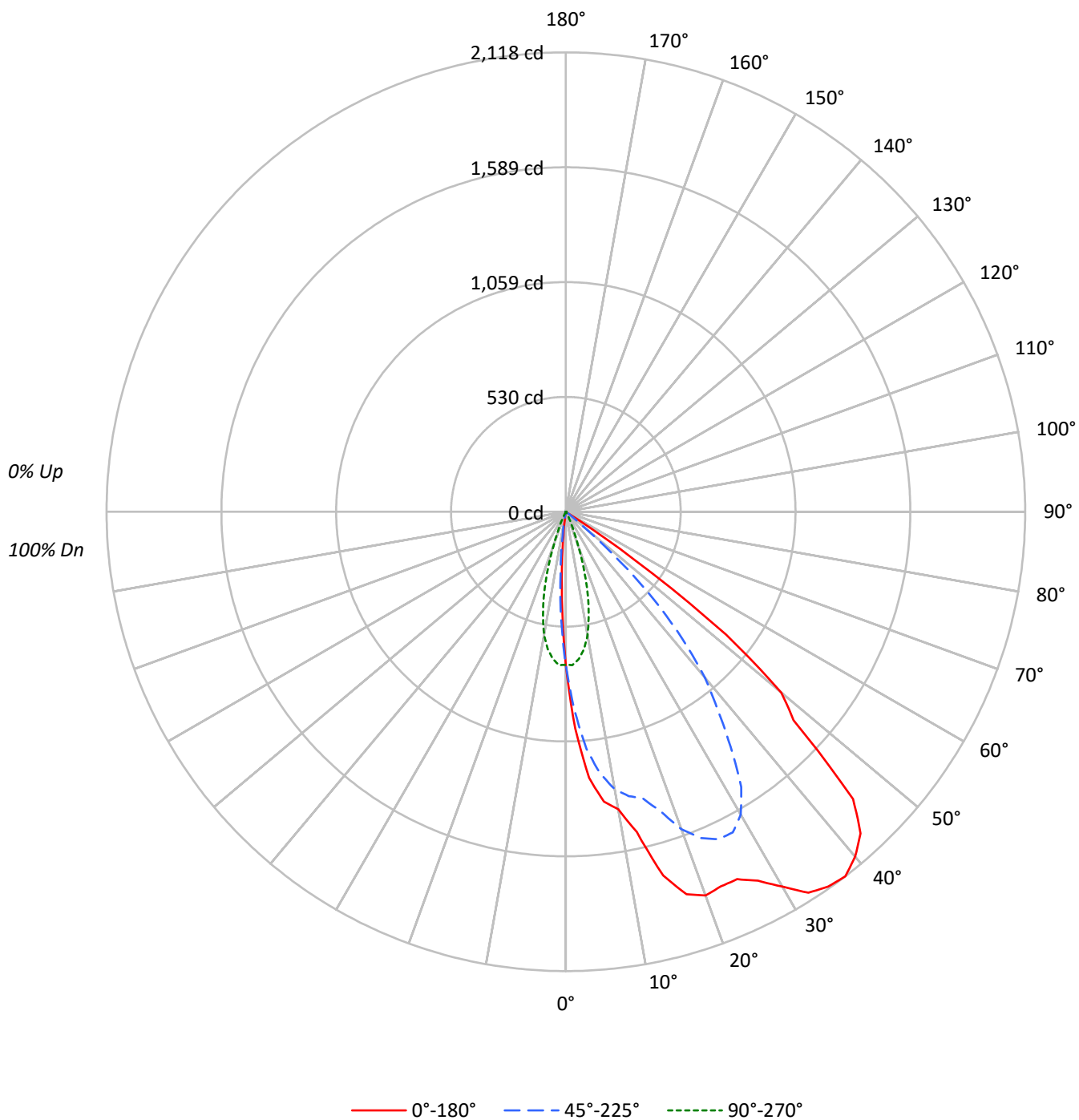
Lumens per Lamp: N/A  
Luminaire Lumens: 1305.0 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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 | 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  | 91  | 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°  | 121451 | 121451 | 121451 | 121451 | 121451 |
| 5°  | 212868 | 189754 | 117887 | 48977  | 28197  |
| 10° | 243642 | 227116 | 100801 | 5369   | 1924   |
| 15° | 309614 | 243805 | 69090  | 1088   | 660    |
| 20° | 345016 | 285232 | 30350  | 0      | 0      |
| 25° | 355160 | 316470 | 8627   | 0      | 0      |
| 30° | 396796 | 320711 | 1213   | 0      | 0      |
| 35° | 443491 | 278470 | 0      | 0      | 0      |
| 40° | 466503 | 224146 | 0      | 0      | 0      |
| 45° | 456114 | 141581 | 0      | 0      | 0      |
| 50° | 347319 | 28910  | 0      | 0      | 0      |
| 55° | 113769 | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      | 0      | 0      |
| 65° | 0      | 489    | 489    | 0      | 0      |
| 70° | 0      | 604    | 604    | 0      | 0      |
| 75° | 0      | 799    | 799    | 0      | 0      |
| 80° | 0      | 1190   | 2479   | 1190   | 0      |
| 85° | 0      | 2371   | 2371   | 2371   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 456114 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 64.4   | 4.9       |
| 10°-20°   | 188.8  | 14.5      |
| 20°-30°   | 307.1  | 23.5      |
| 30°-40°   | 364.9  | 28.0      |
| 40°-50°   | 298.4  | 22.9      |
| 50°-60°   | 79.1   | 6.1       |
| 60°-70°   | 0.5    | 0.0       |
| 70°-80°   | 0.8    | 0.1       |
| 80°-90°   | 0.9    | 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°    | 560.3  | 42.9      |
| 0°-40°    | 925.3  | 70.9      |
| 0°-60°    | 1302.8 | 99.8      |
| 0°-90°    | 1305.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1305.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 705  | 705  | 705 | 705  | 705  |      |
| 5°  | 1231 | 1098 | 682 | 283  | 163  | 121  |
| 15° | 1736 | 1367 | 388 | 6    | 4    | 485  |
| 25° | 1869 | 1665 | 45  | 0    | 0    | 880  |
| 35° | 2109 | 1324 | 0   | 0    | 0    | 1312 |
| 45° | 1873 | 581  | 0   | 0    | 0    | 1344 |
| 55° | 379  | 0    | 0   | 0    | 0    | 426  |
| 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°    | 705.2  | 705.2  | 705.2  | 705.2  | 705.2  | 705.2  | 705.2  | 705.2  | 705.2  | 705.2  | 705.2  |
| 2.5°  | 1000.7 | 993.4  | 994.6  | 990.9  | 994.6  | 978.6  | 961.5  | 945.5  | 933.3  | 916.1  | 811.9  |
| 5°    | 1231.3 | 1219.0 | 1215.3 | 1210.4 | 1205.5 | 1185.9 | 1170.0 | 1150.3 | 1127.0 | 1097.6 | 906.3  |
| 7.5°  | 1347.8 | 1338.0 | 1333.1 | 1335.5 | 1324.5 | 1317.1 | 1296.3 | 1274.2 | 1249.7 | 1217.8 | 977.4  |
| 10°   | 1393.2 | 1383.4 | 1382.1 | 1380.9 | 1379.7 | 1374.8 | 1365.0 | 1345.3 | 1323.3 | 1298.7 | 1017.9 |
| 12.5° | 1512.1 | 1490.0 | 1475.3 | 1458.2 | 1437.3 | 1410.3 | 1388.3 | 1371.1 | 1362.5 | 1342.9 | 1036.3 |
| 15°   | 1736.5 | 1715.7 | 1699.8 | 1677.7 | 1638.4 | 1580.8 | 1528.1 | 1460.6 | 1401.7 | 1367.4 | 1028.9 |
| 17.5° | 1849.4 | 1839.6 | 1826.1 | 1811.4 | 1784.4 | 1742.7 | 1688.7 | 1617.6 | 1542.8 | 1445.9 | 993.4  |
| 20°   | 1882.5 | 1877.6 | 1867.8 | 1861.6 | 1843.2 | 1813.8 | 1777.0 | 1721.8 | 1651.9 | 1556.3 | 938.2  |
| 22.5° | 1869.0 | 1872.7 | 1877.6 | 1893.5 | 1896.0 | 1875.1 | 1840.8 | 1788.1 | 1716.9 | 1628.6 | 853.6  |
| 25°   | 1869.0 | 1866.5 | 1866.5 | 1899.7 | 1920.5 | 1910.7 | 1886.2 | 1838.3 | 1766.0 | 1665.4 | 749.3  |
| 27.5° | 1916.8 | 1902.1 | 1871.4 | 1905.8 | 1940.1 | 1936.4 | 1914.4 | 1858.0 | 1777.0 | 1666.6 | 621.8  |
| 30°   | 1995.3 | 1963.4 | 1913.1 | 1945.0 | 1976.9 | 1963.4 | 1927.9 | 1855.5 | 1752.5 | 1612.7 | 466.0  |
| 32.5° | 2082.4 | 2067.7 | 2041.9 | 2062.8 | 2057.9 | 2003.9 | 1940.1 | 1839.6 | 1702.2 | 1504.8 | 314.0  |
| 35°   | 2109.4 | 2111.8 | 2094.6 | 2091.0 | 2062.8 | 2007.6 | 1940.1 | 1794.2 | 1596.7 | 1324.5 | 186.4  |
| 37.5° | 2117.9 | 2119.2 | 2092.2 | 2057.9 | 2016.2 | 1951.2 | 1870.2 | 1701.0 | 1401.7 | 1150.3 | 99.3   |
| 40°   | 2075.0 | 2073.8 | 2029.6 | 1988.0 | 1941.4 | 1877.6 | 1759.8 | 1504.8 | 1216.6 | 997.0  | 35.6   |
| 42.5° | 2011.3 | 1995.3 | 1953.6 | 1902.1 | 1845.7 | 1766.0 | 1582.0 | 1270.5 | 1057.1 | 798.4  | 2.5    |
| 45°   | 1872.7 | 1858.0 | 1824.8 | 1769.7 | 1707.1 | 1594.3 | 1303.6 | 1091.5 | 859.7  | 581.3  | 0.0    |
| 47.5° | 1423.8 | 1416.5 | 1450.8 | 1458.2 | 1456.9 | 1328.2 | 1087.8 | 890.3  | 631.6  | 338.5  | 0.0    |
| 50°   | 1296.3 | 1286.5 | 1252.1 | 1208.0 | 1129.5 | 1021.6 | 872.0  | 659.8  | 370.4  | 107.9  | 0.0    |
| 52.5° | 930.8  | 962.7  | 970.1  | 936.9  | 863.4  | 756.7  | 600.9  | 380.2  | 128.8  | 0.0    | 0.0    |
| 55°   | 378.9  | 359.3  | 374.0  | 392.4  | 407.2  | 374.0  | 277.2  | 134.9  | 1.2    | 0.0    | 0.0    |
| 57.5° | 0.0    | 1.2    | 7.4    | 17.2   | 28.2   | 35.6   | 38.0   | 2.5    | 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    | 1.2    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 0.0    | 1.2    | 1.2    | 1.2    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 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°    | 705.2 | 705.2  | 705.2 | 705.2  | 705.2 |
| 2.5°  | 707.6 | 598.5  | 493.0 | 435.4  | 407.2 |
| 5°    | 681.9 | 457.4  | 283.3 | 196.2  | 163.1 |
| 7.5°  | 638.9 | 314.0  | 112.8 | 46.6   | 33.1  |
| 10°   | 576.4 | 180.3  | 30.7  | 12.3   | 11.0  |
| 12.5° | 486.9 | 82.2   | 11.0  | 8.6    | 8.6   |
| 15°   | 387.5 | 28.2   | 6.1   | 4.9    | 3.7   |
| 17.5° | 272.3 | 7.4    | 2.5   | 0.0    | 0.0   |
| 20°   | 165.6 | 1.2    | 0.0   | 0.0    | 0.0   |
| 22.5° | 92.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 45.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 19.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 6.1   | 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° | 1.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.2   | 1.2    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.2   | 1.2    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.2   | 1.2    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.2   | 1.2    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.2   | 1.2    | 0.0   | 0.0    | 0.0   |
| 77.5° | 2.5   | 1.2    | 1.2   | 0.0    | 0.0   |
| 80°   | 2.5   | 1.2    | 1.2   | 0.0    | 0.0   |
| 82.5° | 2.5   | 1.2    | 1.2   | 0.0    | 0.0   |
| 85°   | 1.2   | 1.2    | 1.2   | 0.0    | 0.0   |
| 87.5° | 2.5   | 1.2    | 1.2   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)