

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: P1308338

Luminaire Tested: LDSQA3D17R559027DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308338  
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: LDSQA3D17R559027DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

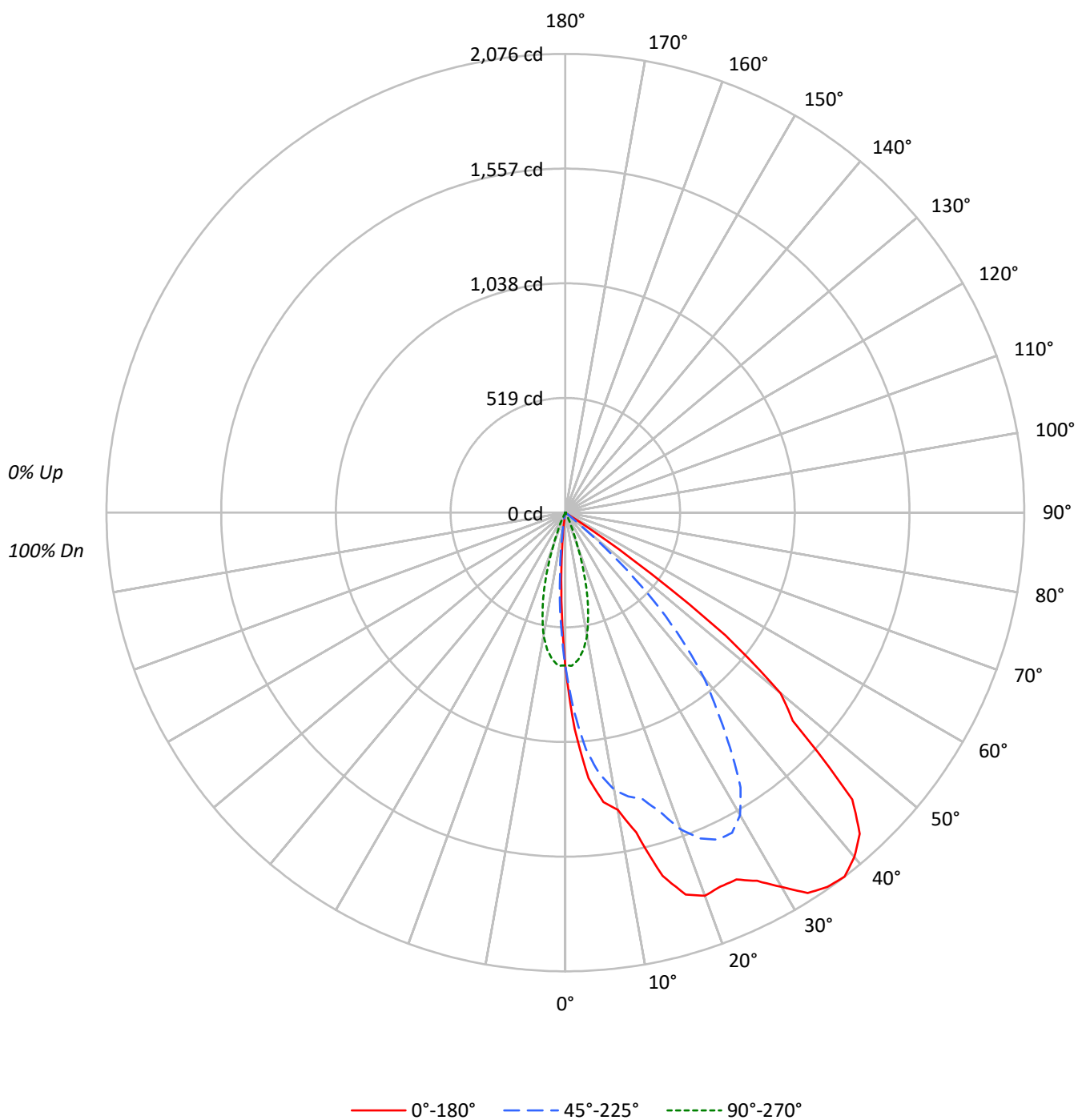
Lumens per Lamp: N/A  
Luminaire Lumens: 1279.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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°  | 119023 | 119023 | 119023 | 119023 | 119023 |
| 5°  | 208615 | 185968 | 115536 | 47992  | 27644  |
| 10° | 238780 | 222604 | 98789  | 5246   | 1889   |
| 15° | 303445 | 238955 | 67718  | 1070   | 642    |
| 20° | 338143 | 279550 | 29746  | 0      | 0      |
| 25° | 348091 | 310162 | 8456   | 0      | 0      |
| 30° | 388902 | 314327 | 1193   | 0      | 0      |
| 35° | 434640 | 272919 | 0      | 0      | 0      |
| 40° | 457218 | 219695 | 0      | 0      | 0      |
| 45° | 447029 | 138756 | 0      | 0      | 0      |
| 50° | 340406 | 28347  | 0      | 0      | 0      |
| 55° | 111517 | 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   | 2380   | 1190   | 0      |
| 85° | 0      | 2371   | 2371   | 2371   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 447029 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.1   | 4.9       |
| 10°-20°   | 185.1  | 14.5      |
| 20°-30°   | 301.0  | 23.5      |
| 30°-40°   | 357.7  | 28.0      |
| 40°-50°   | 292.5  | 22.9      |
| 50°-60°   | 77.5   | 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°    | 549.2  | 42.9      |
| 0°-40°    | 906.8  | 70.9      |
| 0°-60°    | 1276.8 | 99.8      |
| 0°-90°    | 1279.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1279.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 691  | 691  | 691 | 691  | 691  |      |
| 5°  | 1207 | 1076 | 668 | 278  | 160  | 118  |
| 15° | 1702 | 1340 | 380 | 6    | 4    | 476  |
| 25° | 1832 | 1632 | 44  | 0    | 0    | 863  |
| 35° | 2067 | 1298 | 0   | 0    | 0    | 1285 |
| 45° | 1835 | 570  | 0   | 0    | 0    | 1317 |
| 55° | 371  | 0    | 0   | 0    | 0    | 418  |
| 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°    | 691.1  | 691.1  | 691.1  | 691.1  | 691.1  | 691.1  | 691.1  | 691.1  | 691.1  | 691.1  | 691.1  |
| 2.5°  | 980.8  | 973.6  | 974.8  | 971.2  | 974.8  | 959.1  | 942.3  | 926.7  | 914.7  | 897.8  | 795.7  |
| 5°    | 1206.7 | 1194.7 | 1191.1 | 1186.3 | 1181.5 | 1162.3 | 1146.7 | 1127.4 | 1104.6 | 1075.7 | 888.2  |
| 7.5°  | 1320.9 | 1311.3 | 1306.5 | 1308.9 | 1298.1 | 1290.9 | 1270.5 | 1248.8 | 1224.8 | 1193.5 | 957.9  |
| 10°   | 1365.4 | 1355.8 | 1354.6 | 1353.4 | 1352.2 | 1347.4 | 1337.8 | 1318.5 | 1296.9 | 1272.9 | 997.6  |
| 12.5° | 1482.0 | 1460.4 | 1445.9 | 1429.1 | 1408.7 | 1382.2 | 1360.6 | 1343.8 | 1335.4 | 1316.1 | 1015.6 |
| 15°   | 1701.9 | 1681.5 | 1665.9 | 1644.3 | 1605.8 | 1549.3 | 1497.6 | 1431.5 | 1373.8 | 1340.2 | 1008.4 |
| 17.5° | 1812.5 | 1802.9 | 1789.7 | 1775.3 | 1748.8 | 1708.0 | 1655.1 | 1585.4 | 1512.0 | 1417.1 | 973.6  |
| 20°   | 1845.0 | 1840.2 | 1830.6 | 1824.5 | 1806.5 | 1777.7 | 1741.6 | 1687.5 | 1619.0 | 1525.3 | 919.5  |
| 22.5° | 1831.8 | 1835.4 | 1840.2 | 1855.8 | 1858.2 | 1837.8 | 1804.1 | 1752.4 | 1682.7 | 1596.2 | 836.6  |
| 25°   | 1831.8 | 1829.4 | 1829.4 | 1861.8 | 1882.2 | 1872.6 | 1848.6 | 1801.7 | 1730.8 | 1632.2 | 734.4  |
| 27.5° | 1878.6 | 1864.2 | 1834.2 | 1867.8 | 1901.5 | 1897.9 | 1876.2 | 1820.9 | 1741.6 | 1633.4 | 609.4  |
| 30°   | 1955.6 | 1924.3 | 1875.0 | 1906.3 | 1937.5 | 1924.3 | 1889.5 | 1818.5 | 1717.6 | 1580.6 | 456.7  |
| 32.5° | 2040.9 | 2026.5 | 2001.2 | 2021.7 | 2016.9 | 1964.0 | 1901.5 | 1802.9 | 1668.3 | 1474.8 | 307.7  |
| 35°   | 2067.3 | 2069.7 | 2052.9 | 2049.3 | 2021.7 | 1967.6 | 1901.5 | 1758.4 | 1564.9 | 1298.1 | 182.7  |
| 37.5° | 2075.8 | 2077.0 | 2050.5 | 2016.9 | 1976.0 | 1912.3 | 1833.0 | 1667.1 | 1373.8 | 1127.4 | 97.4   |
| 40°   | 2033.7 | 2032.5 | 1989.2 | 1948.3 | 1902.7 | 1840.2 | 1724.8 | 1474.8 | 1192.3 | 977.2  | 34.9   |
| 42.5° | 1971.2 | 1955.6 | 1914.7 | 1864.2 | 1808.9 | 1730.8 | 1550.5 | 1245.2 | 1036.1 | 782.5  | 2.4    |
| 45°   | 1835.4 | 1820.9 | 1788.5 | 1734.4 | 1673.1 | 1562.5 | 1277.7 | 1069.7 | 842.6  | 569.7  | 0.0    |
| 47.5° | 1395.5 | 1388.2 | 1421.9 | 1429.1 | 1427.9 | 1301.7 | 1066.1 | 872.6  | 619.0  | 331.7  | 0.0    |
| 50°   | 1270.5 | 1260.8 | 1227.2 | 1183.9 | 1107.0 | 1001.2 | 854.6  | 646.6  | 363.0  | 105.8  | 0.0    |
| 52.5° | 912.3  | 943.5  | 950.7  | 918.3  | 846.2  | 741.6  | 589.0  | 372.6  | 126.2  | 0.0    | 0.0    |
| 55°   | 371.4  | 352.2  | 366.6  | 384.6  | 399.0  | 366.6  | 271.6  | 132.2  | 1.2    | 0.0    | 0.0    |
| 57.5° | 0.0    | 1.2    | 7.2    | 16.8   | 27.6   | 34.9   | 37.3   | 2.4    | 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    | 2.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 2.4    |
| 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°    | 691.1 | 691.1  | 691.1 | 691.1  | 691.1 |
| 2.5°  | 693.5 | 586.5  | 483.2 | 426.7  | 399.0 |
| 5°    | 668.3 | 448.3  | 277.6 | 192.3  | 159.9 |
| 7.5°  | 626.2 | 307.7  | 110.6 | 45.7   | 32.5  |
| 10°   | 564.9 | 176.7  | 30.0  | 12.0   | 10.8  |
| 12.5° | 477.2 | 80.5   | 10.8  | 8.4    | 8.4   |
| 15°   | 379.8 | 27.6   | 6.0   | 4.8    | 3.6   |
| 17.5° | 266.8 | 7.2    | 2.4   | 0.0    | 0.0   |
| 20°   | 162.3 | 1.2    | 0.0   | 0.0    | 0.0   |
| 22.5° | 90.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 44.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 19.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 6.0   | 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° | 1.2   | 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° | 2.4   | 1.2    | 1.2   | 0.0    | 0.0   |
| 80°   | 2.4   | 1.2    | 1.2   | 0.0    | 0.0   |
| 82.5° | 2.4   | 1.2    | 1.2   | 0.0    | 0.0   |
| 85°   | 1.2   | 1.2    | 1.2   | 0.0    | 0.0   |
| 87.5° | 2.4   | 1.2    | 1.2   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)