

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: P1324126

Luminaire Tested: LDSQA3D17R709030D2WDE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

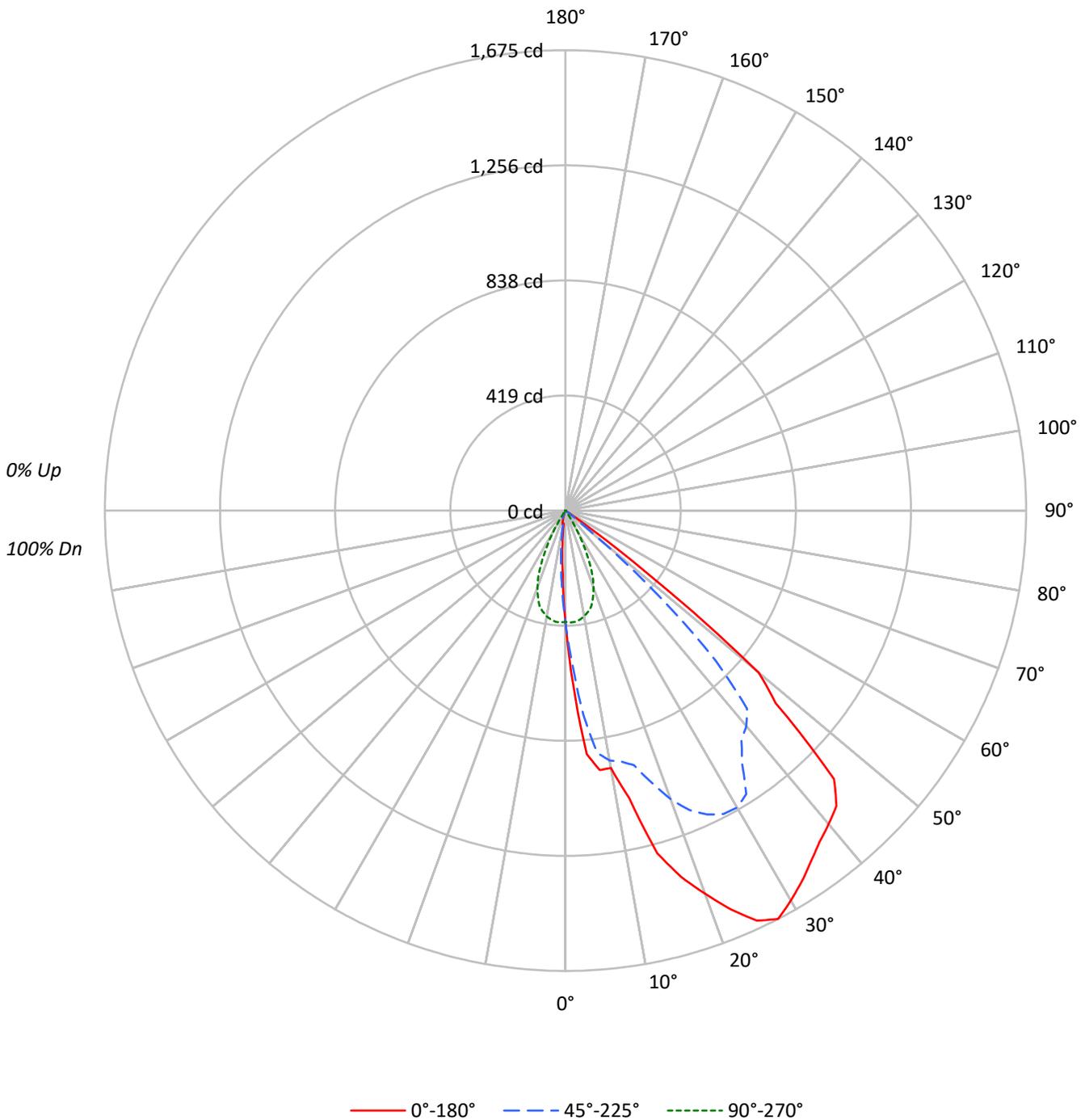
Test Method: LM-79-2019  
Report Number: P1324126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709030D2WDE010 3LSQCA30R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1089.9 lumens  
Efficiency: N/A  
Efficacy: 39.9 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.3  
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 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 53  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 36  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 69664  | 69664  | 69664 | 69664 | 69664 |
| 5°  | 153708 | 128969 | 70207 | 31914 | 21005 |
| 10° | 166240 | 161396 | 68325 | 8884  | 9146  |
| 15° | 230094 | 170863 | 64455 | 9058  | 6579  |
| 20° | 271761 | 204664 | 54689 | 5352  | 1979  |
| 25° | 312746 | 231795 | 38575 | 874   | 0     |
| 30° | 325762 | 248085 | 17739 | 0     | 0     |
| 35° | 327267 | 235096 | 967   | 0     | 0     |
| 40° | 334736 | 229969 | 0     | 0     | 0     |
| 45° | 336429 | 188442 | 0     | 0     | 0     |
| 50° | 245612 | 39145  | 0     | 0     | 0     |
| 55° | 13842  | 0      | 0     | 0     | 0     |
| 60° | 0      | 517    | 517   | 0     | 0     |
| 65° | 0      | 0      | 611   | 0     | 0     |
| 70° | 0      | 755    | 755   | 0     | 0     |
| 75° | 0      | 998    | 998   | 0     | 0     |
| 80° | 0      | 1488   | 1488  | 1488  | 0     |
| 85° | 0      | 2964   | 2964  | 2964  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 342786 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.3   | 4.1       |
| 10°-20°   | 147.8  | 13.6      |
| 20°-30°   | 265.6  | 24.4      |
| 30°-40°   | 322.9  | 29.6      |
| 40°-50°   | 249.4  | 22.9      |
| 50°-60°   | 58.0   | 5.3       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.8    | 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°    | 457.7  | 42.0      |
| 0°-40°    | 780.6  | 71.6      |
| 0°-60°    | 1088.0 | 99.8      |
| 0°-90°    | 1089.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1089.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 404  | 404  | 404 | 404  | 404  |      |
| 5°  | 889  | 746  | 406 | 185  | 122  | 84   |
| 15° | 1290 | 958  | 362 | 51   | 37   | 361  |
| 25° | 1646 | 1220 | 203 | 5    | 0    | 749  |
| 35° | 1557 | 1118 | 5   | 0    | 0    | 978  |
| 45° | 1381 | 774  | 0   | 0    | 0    | 976  |
| 55° | 46   | 0    | 0   | 0    | 0    | 190  |
| 65° | 0    | 0    | 2   | 0    | 0    | 0    |
| 75° | 0    | 2    | 2   | 0    | 0    | 0    |
| 85° | 0    | 2    | 2   | 2    | 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°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 404.5  | 404.5  | 404.5  | 404.5  | 404.5  | 404.5  | 404.5  | 404.5  | 404.5  | 404.5  | 404.5  |
| 2.5°  | 630.6  | 630.6  | 633.7  | 632.2  | 618.3  | 612.2  | 592.2  | 581.4  | 578.3  | 553.7  | 544.5  |
| 5°    | 889.1  | 890.6  | 882.9  | 881.4  | 866.0  | 855.2  | 838.3  | 812.2  | 786.0  | 746.0  | 710.6  |
| 7.5°  | 952.1  | 950.6  | 949.0  | 949.0  | 946.0  | 939.8  | 932.1  | 924.4  | 913.7  | 889.1  | 861.4  |
| 10°   | 950.6  | 950.6  | 949.0  | 949.0  | 947.5  | 949.0  | 947.5  | 942.9  | 938.3  | 922.9  | 907.5  |
| 12.5° | 1070.6 | 1061.3 | 1049.0 | 1030.6 | 999.8  | 976.7  | 950.6  | 942.9  | 939.8  | 935.2  | 926.0  |
| 15°   | 1290.5 | 1282.8 | 1256.7 | 1224.4 | 1193.6 | 1141.3 | 1099.8 | 1042.9 | 998.3  | 958.3  | 938.3  |
| 17.5° | 1396.7 | 1401.3 | 1372.0 | 1352.0 | 1322.8 | 1281.3 | 1232.1 | 1173.6 | 1110.6 | 1035.2 | 975.2  |
| 20°   | 1482.8 | 1487.4 | 1462.8 | 1442.8 | 1409.0 | 1365.9 | 1322.8 | 1259.8 | 1199.8 | 1116.7 | 1038.3 |
| 22.5° | 1570.5 | 1573.5 | 1550.5 | 1521.2 | 1482.8 | 1438.2 | 1382.8 | 1318.2 | 1253.6 | 1179.8 | 1096.7 |
| 25°   | 1645.8 | 1642.8 | 1604.3 | 1562.8 | 1525.9 | 1478.2 | 1424.3 | 1361.3 | 1299.7 | 1219.8 | 1141.3 |
| 27.5° | 1675.1 | 1673.5 | 1630.5 | 1590.5 | 1547.4 | 1482.8 | 1435.1 | 1379.7 | 1315.1 | 1244.4 | 1164.4 |
| 30°   | 1638.1 | 1662.8 | 1635.1 | 1605.8 | 1553.5 | 1488.9 | 1442.8 | 1376.7 | 1316.7 | 1247.5 | 1156.7 |
| 32.5° | 1599.7 | 1630.5 | 1621.2 | 1607.4 | 1545.9 | 1495.1 | 1435.1 | 1373.6 | 1302.8 | 1222.8 | 1084.4 |
| 35°   | 1556.6 | 1588.9 | 1590.5 | 1575.1 | 1519.7 | 1468.9 | 1413.6 | 1349.0 | 1269.0 | 1118.2 | 1016.7 |
| 37.5° | 1518.2 | 1548.9 | 1558.2 | 1525.9 | 1482.8 | 1415.1 | 1364.4 | 1296.7 | 1152.1 | 1050.6 | 998.3  |
| 40°   | 1488.9 | 1512.0 | 1525.9 | 1475.1 | 1432.0 | 1365.9 | 1307.4 | 1189.0 | 1058.3 | 1022.9 | 949.0  |
| 42.5° | 1458.2 | 1479.7 | 1485.9 | 1430.5 | 1364.4 | 1301.3 | 1216.7 | 1067.5 | 1029.0 | 976.7  | 778.3  |
| 45°   | 1381.3 | 1407.4 | 1392.0 | 1338.2 | 1289.0 | 1222.8 | 1096.7 | 1032.1 | 990.6  | 773.7  | 478.4  |
| 47.5° | 1036.7 | 1065.9 | 1107.5 | 1122.9 | 1139.8 | 1092.1 | 1022.9 | 999.8  | 813.7  | 469.1  | 149.2  |
| 50°   | 916.7  | 912.1  | 912.1  | 919.8  | 933.7  | 949.0  | 969.0  | 842.9  | 489.1  | 146.1  | 0.0    |
| 52.5° | 373.8  | 392.2  | 483.0  | 564.5  | 658.3  | 752.2  | 781.4  | 516.8  | 190.7  | 3.1    | 0.0    |
| 55°   | 46.1   | 46.1   | 64.6   | 110.7  | 183.0  | 295.3  | 332.2  | 166.1  | 13.8   | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.5    | 12.3   | 33.8   | 23.1   | 6.2    | 1.5    | 1.5    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 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):**

|       | 55°    | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 404.5  | 404.5 | 404.5 | 404.5 | 404.5  | 404.5 | 404.5  | 404.5 |
| 2.5°  | 529.1  | 510.7 | 484.5 | 407.6 | 341.5  | 283.0 | 249.2  | 232.3 |
| 5°    | 676.8  | 632.2 | 572.2 | 406.1 | 276.9  | 184.6 | 138.4  | 121.5 |
| 7.5°  | 818.3  | 767.5 | 666.0 | 399.9 | 212.3  | 107.7 | 60.0   | 47.7  |
| 10°   | 879.8  | 842.9 | 752.2 | 390.7 | 153.8  | 50.8  | 50.8   | 52.3  |
| 12.5° | 904.4  | 876.8 | 802.9 | 376.9 | 101.5  | 49.2  | 52.3   | 49.2  |
| 15°   | 921.4  | 895.2 | 827.5 | 361.5 | 58.5   | 50.8  | 41.5   | 36.9  |
| 17.5° | 930.6  | 899.8 | 835.2 | 332.2 | 38.5   | 43.1  | 26.1   | 21.5  |
| 20°   | 959.8  | 910.6 | 841.4 | 298.4 | 36.9   | 29.2  | 13.8   | 10.8  |
| 22.5° | 1009.0 | 932.1 | 842.9 | 256.9 | 29.2   | 16.9  | 4.6    | 0.0   |
| 25°   | 1053.6 | 961.4 | 847.5 | 203.0 | 9.2    | 4.6   | 0.0    | 0.0   |
| 27.5° | 1075.2 | 970.6 | 846.0 | 143.0 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1049.0 | 947.5 | 832.1 | 89.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 987.5  | 930.6 | 789.1 | 38.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 967.5  | 893.7 | 690.6 | 4.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 922.9  | 787.5 | 507.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 793.7  | 569.1 | 241.5 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 524.5  | 243.0 | 13.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 184.6  | 15.4  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 3.1    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 1.5    | 1.5   | 1.5   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.0    | 0.0   | 1.5   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.5    | 1.5   | 1.5   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 1.5   | 0.0    | 0.0   |
| 82.5° | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 1.5   | 0.0    | 0.0   |
| 85°   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 1.5   | 0.0    | 0.0   |
| 87.5° | 1.5    | 1.5   | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)