

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: P1314042

Luminaire Tested: LDSQA3D20R609727D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R609727D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

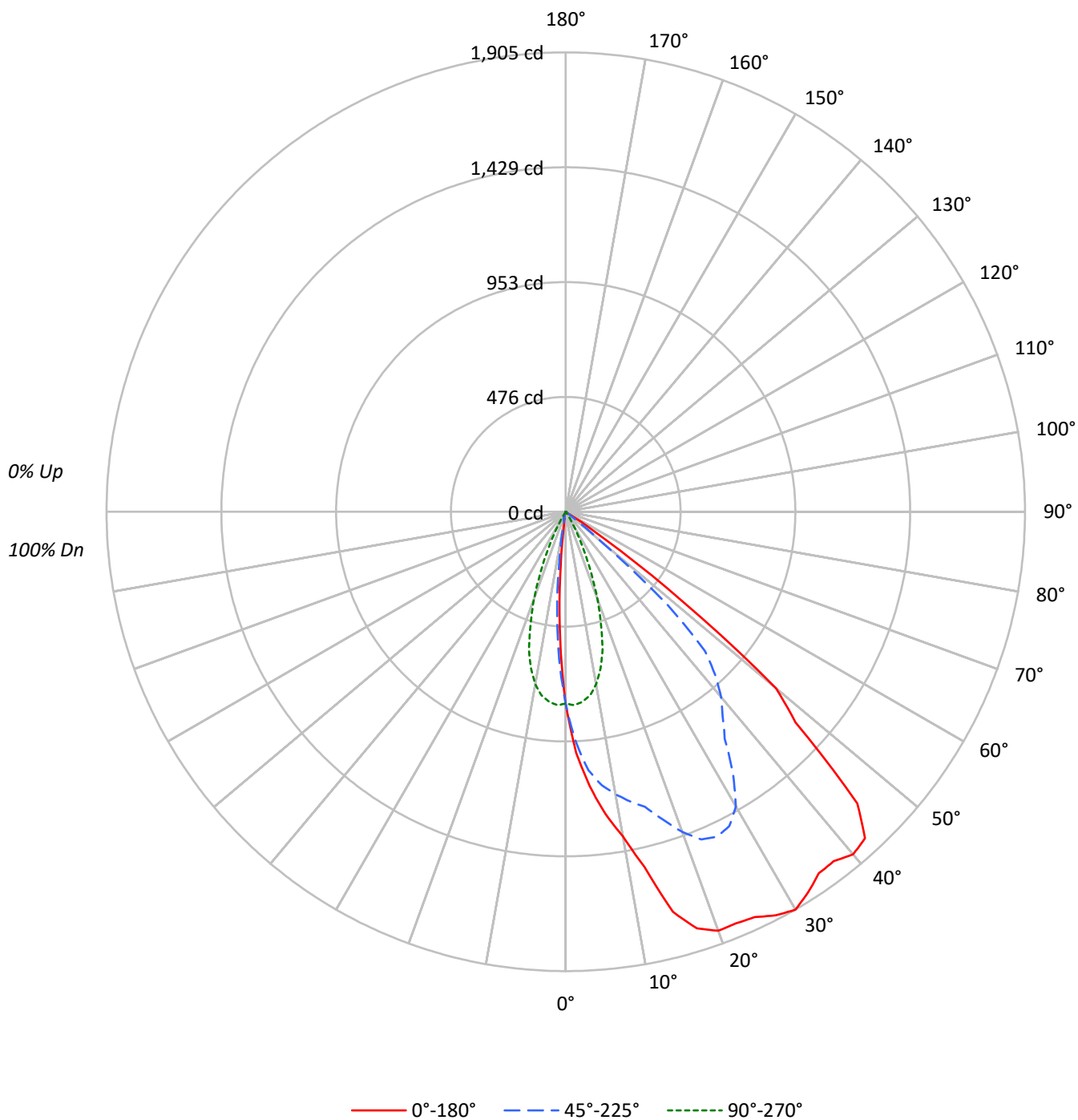
Lumens per Lamp: N/A  
Luminaire Lumens: 1293.0 lumens  
Efficiency: N/A  
Efficacy: 44.9 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  | 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 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |  |  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |  |  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 66  |  |  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 60  |  |  |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |  |  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |  |  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |  |  |
| 9   | 66  | 55  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |  |  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |  |  |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 137003 | 137003 | 137003 | 137003 | 137003 |
| 5°  | 197481 | 185985 | 136800 | 70483  | 45277  |
| 10° | 238885 | 207949 | 126997 | 8412   | 4949   |
| 15° | 306155 | 225886 | 105249 | 5545   | 4547   |
| 20° | 338821 | 258913 | 70561  | 3116   | 513    |
| 25° | 352385 | 282437 | 34699  | 266    | 0      |
| 30° | 378899 | 280659 | 9565   | 0      | 0      |
| 35° | 384811 | 241656 | 0      | 0      | 0      |
| 40° | 416907 | 225315 | 0      | 0      | 0      |
| 45° | 416487 | 198939 | 0      | 0      | 0      |
| 50° | 304932 | 48174  | 0      | 0      | 0      |
| 55° | 59512  | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      | 0      | 0      |
| 65° | 0      | 571    | 571    | 0      | 0      |
| 70° | 0      | 705    | 705    | 0      | 0      |
| 75° | 0      | 932    | 932    | 0      | 0      |
| 80° | 0      | 1389   | 1389   | 1389   | 0      |
| 85° | 0      | 2766   | 2766   | 2766   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $5^\circ$

Vertical Angle:  $45^\circ$

Luminance: 417169 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.3   | 5.3       |
| 10°-20°   | 194.6  | 15.0      |
| 20°-30°   | 310.1  | 24.0      |
| 30°-40°   | 358.4  | 27.7      |
| 40°-50°   | 284.6  | 22.0      |
| 50°-60°   | 74.9   | 5.8       |
| 60°-70°   | 0.5    | 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°    | 572.9  | 44.3      |
| 0°-40°    | 931.3  | 72.0      |
| 0°-60°    | 1290.9 | 99.8      |
| 0°-90°    | 1293.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1293.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 796  | 796  | 796 | 796  | 796  |      |
| 5°  | 1142 | 1076 | 791 | 408  | 262  | 115  |
| 15° | 1717 | 1267 | 590 | 31   | 26   | 479  |
| 25° | 1854 | 1486 | 183 | 1    | 0    | 865  |
| 35° | 1830 | 1149 | 0   | 0    | 0    | 1163 |
| 45° | 1710 | 817  | 0   | 0    | 0    | 1218 |
| 55° | 198  | 0    | 0   | 0    | 0    | 299  |
| 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°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 795.5  | 795.5  | 795.5  | 795.5  | 795.5  | 795.5  | 795.5  | 795.5  | 795.5  | 795.5  | 795.5  |
| 2.5°  | 1000.8 | 1010.7 | 1006.5 | 1002.2 | 992.3  | 988.1  | 988.1  | 976.7  | 958.3  | 955.5  | 942.8  |
| 5°    | 1142.3 | 1145.2 | 1145.2 | 1142.3 | 1135.3 | 1123.9 | 1121.1 | 1109.8 | 1092.8 | 1075.8 | 1058.8 |
| 7.5°  | 1265.5 | 1264.1 | 1255.6 | 1249.9 | 1237.2 | 1221.6 | 1207.5 | 1191.9 | 1166.4 | 1143.8 | 1119.7 |
| 10°   | 1366.0 | 1370.2 | 1363.2 | 1349.0 | 1332.0 | 1310.8 | 1288.1 | 1261.3 | 1223.0 | 1189.1 | 1157.9 |
| 12.5° | 1507.6 | 1506.1 | 1487.7 | 1463.7 | 1422.6 | 1383.0 | 1347.6 | 1317.9 | 1271.2 | 1230.1 | 1191.9 |
| 15°   | 1717.1 | 1714.2 | 1697.2 | 1676.0 | 1616.6 | 1557.1 | 1496.2 | 1412.7 | 1334.9 | 1266.9 | 1213.1 |
| 17.5° | 1811.9 | 1817.6 | 1803.4 | 1792.1 | 1758.1 | 1718.5 | 1664.7 | 1581.2 | 1460.8 | 1337.7 | 1224.4 |
| 20°   | 1848.7 | 1855.8 | 1845.9 | 1844.5 | 1828.9 | 1810.5 | 1766.6 | 1676.0 | 1558.5 | 1412.7 | 1272.6 |
| 22.5° | 1847.3 | 1852.9 | 1848.7 | 1867.1 | 1885.5 | 1875.6 | 1821.8 | 1731.2 | 1610.9 | 1470.8 | 1312.2 |
| 25°   | 1854.4 | 1850.1 | 1834.5 | 1861.4 | 1888.3 | 1879.8 | 1852.9 | 1775.1 | 1643.4 | 1486.3 | 1326.4 |
| 27.5° | 1886.9 | 1855.8 | 1824.6 | 1858.6 | 1871.4 | 1874.2 | 1858.6 | 1766.6 | 1637.8 | 1469.3 | 1298.1 |
| 30°   | 1905.3 | 1871.4 | 1845.9 | 1874.2 | 1874.2 | 1889.8 | 1857.2 | 1752.4 | 1589.7 | 1411.3 | 1223.0 |
| 32.5° | 1871.4 | 1864.3 | 1886.9 | 1915.2 | 1922.3 | 1922.3 | 1850.1 | 1705.7 | 1509.0 | 1292.4 | 1102.7 |
| 35°   | 1830.3 | 1847.3 | 1912.4 | 1925.1 | 1925.1 | 1894.0 | 1806.2 | 1623.6 | 1388.6 | 1149.4 | 1013.5 |
| 37.5° | 1826.1 | 1852.9 | 1925.1 | 1909.6 | 1884.1 | 1826.1 | 1698.7 | 1480.7 | 1217.4 | 1068.7 | 947.0  |
| 40°   | 1854.4 | 1879.8 | 1922.3 | 1865.7 | 1804.8 | 1714.2 | 1561.3 | 1293.8 | 1114.0 | 1002.2 | 866.3  |
| 42.5° | 1837.4 | 1861.4 | 1862.9 | 1779.3 | 1693.0 | 1569.8 | 1367.4 | 1142.3 | 1039.0 | 917.3  | 774.3  |
| 45°   | 1710.0 | 1712.8 | 1707.1 | 1618.0 | 1528.8 | 1401.4 | 1186.2 | 1067.3 | 956.9  | 816.8  | 569.0  |
| 47.5° | 1292.4 | 1286.7 | 1308.0 | 1282.5 | 1286.7 | 1210.3 | 1077.2 | 979.6  | 847.9  | 573.3  | 172.7  |
| 50°   | 1138.1 | 1131.0 | 1109.8 | 1087.1 | 1064.5 | 1027.7 | 965.4  | 860.7  | 611.5  | 179.8  | 5.7    |
| 52.5° | 610.1  | 644.1  | 710.6  | 812.5  | 850.7  | 847.9  | 801.2  | 637.0  | 192.5  | 1.4    | 0.0    |
| 55°   | 198.2  | 195.3  | 218.0  | 257.6  | 353.9  | 407.7  | 424.7  | 216.6  | 4.2    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 4.2    | 14.2   | 36.8   | 48.1   | 2.8    | 0.0    | 1.4    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 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°    | 795.5  | 795.5  | 795.5  | 795.5 | 795.5  | 795.5 | 795.5  | 795.5 |
| 2.5°  | 925.8  | 905.9  | 883.3  | 802.6 | 707.8  | 615.8 | 549.2  | 532.2 |
| 5°    | 1031.9 | 998.0  | 949.8  | 791.3 | 584.6  | 407.7 | 291.6  | 261.9 |
| 7.5°  | 1087.1 | 1057.4 | 1006.5 | 768.6 | 453.0  | 201.0 | 75.0   | 51.0  |
| 10°   | 1121.1 | 1085.7 | 1029.1 | 726.2 | 295.8  | 48.1  | 26.9   | 28.3  |
| 12.5° | 1145.2 | 1104.1 | 1040.4 | 665.3 | 150.0  | 24.1  | 34.0   | 35.4  |
| 15°   | 1155.1 | 1111.2 | 1039.0 | 590.3 | 53.8   | 31.1  | 29.7   | 25.5  |
| 17.5° | 1149.4 | 1094.2 | 1020.6 | 482.7 | 18.4   | 29.7  | 15.6   | 12.7  |
| 20°   | 1142.3 | 1080.1 | 990.9  | 385.0 | 15.6   | 17.0  | 5.7    | 2.8   |
| 22.5° | 1165.0 | 1056.0 | 949.8  | 276.0 | 15.6   | 5.7   | 0.0    | 0.0   |
| 25°   | 1167.8 | 1046.1 | 897.5  | 182.6 | 7.1    | 1.4   | 0.0    | 0.0   |
| 27.5° | 1139.5 | 988.1  | 816.8  | 107.6 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1048.9 | 915.9  | 730.4  | 48.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 959.7  | 835.2  | 634.2  | 11.3  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 889.0  | 751.7  | 528.0  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 801.2  | 652.6  | 393.5  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 709.2  | 526.6  | 196.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 553.5  | 250.6  | 19.8   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 212.3  | 22.6   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 11.3   | 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°   | 1.4    | 1.4    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 1.4    | 1.4    | 1.4    | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.4    | 1.4    | 1.4    | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 82.5° | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 85°   | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 87.5° | 1.4    | 1.4    | 1.4    | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)