

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: P1309113

Luminaire Tested: LDSQA3D09R459030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R459030DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

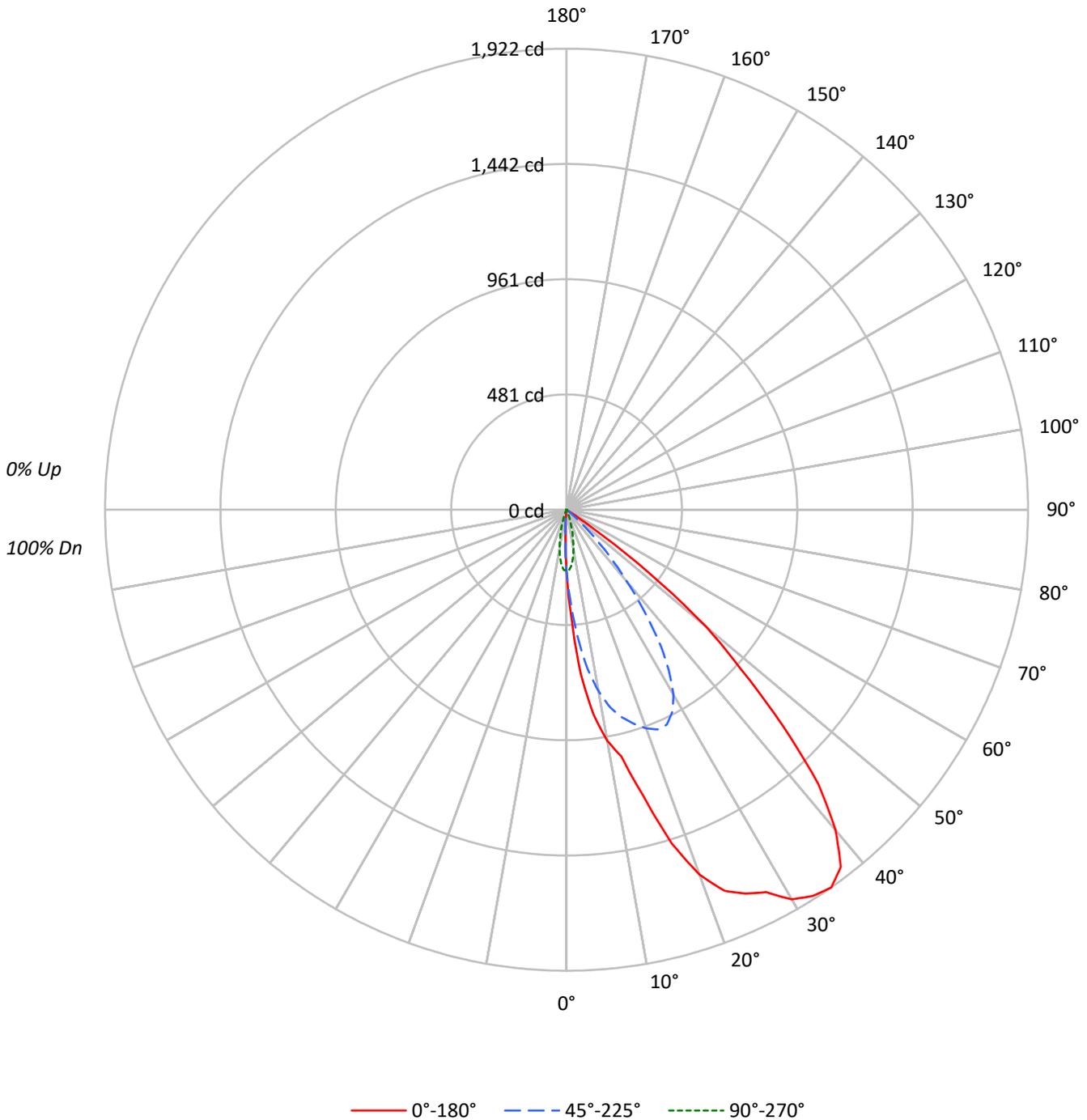
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 815.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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 | | | | 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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 96 | 94 | 93 | 91 |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 89 | 86 | 84 | 82 |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 68 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 63 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 70 | 65 | 62 | 60 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 59 | 56 | 64 | 59 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 51 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 51 | 59 | 54 | 51 | 49 |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 55 | 50 | 46 | 44 |
| 9 | 66 | 54 | 47 | 43 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 42 | 40 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 42 | 38 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 43590 | 43590 | 43590 | 43590 | 43590 |
| 5° | 119011 | 91558 | 40350 | 8091 | 3043 |
| 10° | 170927 | 134325 | 29170 | 769 | 647 |
| 15° | 220038 | 159791 | 15530 | 267 | 0 |
| 20° | 296576 | 177777 | 5901 | 0 | 0 |
| 25° | 335435 | 187803 | 1520 | 0 | 0 |
| 30° | 372873 | 177050 | 139 | 0 | 0 |
| 35° | 404196 | 141201 | 0 | 0 | 0 |
| 40° | 391773 | 88647 | 0 | 0 | 0 |
| 45° | 310563 | 42233 | 0 | 0 | 0 |
| 50° | 203252 | 5305 | 0 | 0 | 0 |
| 55° | 34920 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 241 | 0 | 0 |
| 65° | 0 | 285 | 285 | 0 | 0 |
| 70° | 0 | 352 | 755 | 0 | 0 |
| 75° | 0 | 466 | 998 | 0 | 0 |
| 80° | 0 | 694 | 1488 | 694 | 0 |
| 85° | 0 | 1383 | 2964 | 1383 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 310563 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.1 | 3.7 |
| 10°-20° | 116.1 | 14.2 |
| 20°-30° | 217.3 | 26.7 |
| 30°-40° | 253.7 | 31.1 |
| 40°-50° | 165.4 | 20.3 |
| 50°-60° | 30.7 | 3.8 |
| 60°-70° | 0.3 | 0.0 |
| 70°-80° | 0.6 | 0.1 |
| 80°-90° | 0.7 | 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° | 363.6 | 44.6 |
| 0°-40° | 617.3 | 75.7 |
| 0°-60° | 813.4 | 99.8 |
| 0°-90° | 815.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 815.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 253 | 253 | 253 | 253 | 253 | |
| 5° | 688 | 530 | 233 | 47 | 18 | 74 |
| 15° | 1234 | 896 | 87 | 2 | 0 | 368 |
| 25° | 1765 | 988 | 8 | 0 | 0 | 816 |
| 35° | 1922 | 672 | 0 | 0 | 0 | 1179 |
| 45° | 1275 | 173 | 0 | 0 | 0 | 970 |
| 55° | 116 | 0 | 0 | 0 | 0 | 202 |
| 65° | 0 | 1 | 1 | 0 | 0 | 0 |
| 75° | 0 | 1 | 2 | 0 | 0 | 0 |
| 85° | 0 | 1 | 2 | 1 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1309113

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 |
| 2.5° | 446.2 | 449.9 | 442.6 | 439.7 | 430.2 | 432.3 | 416.3 | 409.7 | 399.4 | 382.6 | 374.6 |
| 5° | 688.4 | 681.8 | 676.0 | 663.5 | 656.2 | 636.5 | 614.5 | 589.6 | 559.6 | 529.6 | 495.3 |
| 7.5° | 861.0 | 855.9 | 853.7 | 843.5 | 828.8 | 808.4 | 779.8 | 748.4 | 709.6 | 669.4 | 617.4 |
| 10° | 977.4 | 972.2 | 963.5 | 953.2 | 941.5 | 924.7 | 896.9 | 862.5 | 820.1 | 768.1 | 707.4 |
| 12.5° | 1053.4 | 1052.7 | 1038.1 | 1026.4 | 1011.7 | 997.1 | 968.6 | 940.8 | 899.1 | 845.7 | 776.9 |
| 15° | 1234.1 | 1222.4 | 1203.4 | 1170.5 | 1129.5 | 1091.5 | 1045.4 | 1001.5 | 956.1 | 896.2 | 819.3 |
| 17.5° | 1459.4 | 1446.3 | 1414.1 | 1372.4 | 1306.6 | 1234.1 | 1155.1 | 1085.6 | 1017.6 | 936.4 | 845.7 |
| 20° | 1618.2 | 1613.1 | 1586.0 | 1537.7 | 1467.5 | 1371.7 | 1267.8 | 1169.8 | 1073.9 | 970.0 | 858.1 |
| 22.5° | 1719.9 | 1717.0 | 1706.0 | 1673.1 | 1601.4 | 1493.8 | 1360.0 | 1228.3 | 1112.7 | 991.3 | 854.5 |
| 25° | 1765.2 | 1768.9 | 1770.4 | 1754.3 | 1696.5 | 1586.7 | 1428.0 | 1272.9 | 1134.6 | 988.3 | 826.7 |
| 27.5° | 1797.4 | 1797.4 | 1803.3 | 1796.0 | 1737.4 | 1621.9 | 1454.3 | 1288.3 | 1127.3 | 952.5 | 768.1 |
| 30° | 1875.0 | 1873.5 | 1877.2 | 1857.4 | 1776.2 | 1632.8 | 1442.6 | 1263.4 | 1085.6 | 890.3 | 684.0 |
| 32.5° | 1908.6 | 1910.1 | 1909.4 | 1877.9 | 1783.5 | 1625.5 | 1414.1 | 1215.8 | 1008.8 | 793.0 | 572.8 |
| 35° | 1922.5 | 1915.9 | 1888.9 | 1817.2 | 1697.9 | 1528.2 | 1333.6 | 1135.4 | 901.3 | 671.6 | 452.1 |
| 37.5° | 1876.4 | 1857.4 | 1797.4 | 1699.4 | 1553.8 | 1390.7 | 1200.5 | 991.3 | 758.6 | 526.7 | 340.2 |
| 40° | 1742.6 | 1717.7 | 1642.3 | 1523.8 | 1390.7 | 1243.6 | 1043.2 | 822.3 | 593.3 | 394.3 | 238.5 |
| 42.5° | 1553.1 | 1524.6 | 1443.4 | 1340.2 | 1218.8 | 1064.4 | 864.7 | 643.8 | 434.5 | 272.1 | 151.4 |
| 45° | 1275.1 | 1259.0 | 1212.2 | 1125.1 | 1005.9 | 845.7 | 662.8 | 469.7 | 300.7 | 173.4 | 77.5 |
| 47.5° | 986.1 | 965.6 | 932.0 | 872.0 | 772.5 | 620.4 | 463.8 | 319.0 | 193.1 | 85.6 | 16.1 |
| 50° | 758.6 | 734.5 | 693.5 | 626.9 | 523.1 | 414.1 | 300.7 | 199.0 | 98.0 | 19.8 | 0.7 |
| 52.5° | 436.7 | 441.9 | 422.1 | 379.7 | 321.9 | 248.0 | 174.1 | 100.2 | 21.9 | 0.7 | 0.0 |
| 55° | 116.3 | 125.8 | 122.9 | 132.4 | 116.3 | 98.0 | 72.4 | 19.0 | 1.5 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.7 | 1.5 | 4.4 | 6.6 | 2.2 | 0.7 | 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 | 0.0 |
| 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 | 0.7 | 0.7 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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° | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 | 253.1 |
| 2.5° | 356.3 | 340.9 | 321.9 | 251.7 | 189.5 | 136.1 | 106.1 | 98.0 |
| 5° | 462.3 | 425.0 | 376.7 | 233.4 | 117.0 | 46.8 | 21.2 | 17.6 |
| 7.5° | 562.6 | 507.7 | 420.6 | 204.1 | 59.3 | 11.7 | 5.9 | 5.1 |
| 10° | 640.1 | 566.2 | 452.8 | 166.8 | 21.9 | 4.4 | 3.7 | 3.7 |
| 12.5° | 693.5 | 603.5 | 464.5 | 126.6 | 8.0 | 2.2 | 2.2 | 1.5 |
| 15° | 724.2 | 618.2 | 453.6 | 87.1 | 2.9 | 1.5 | 0.0 | 0.0 |
| 17.5° | 733.7 | 612.3 | 424.3 | 54.9 | 0.7 | 0.0 | 0.0 | 0.0 |
| 20° | 725.7 | 583.8 | 378.2 | 32.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 699.4 | 539.2 | 322.6 | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 650.4 | 476.2 | 257.5 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 570.6 | 395.0 | 193.9 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 479.9 | 308.0 | 137.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 374.6 | 226.8 | 88.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 281.6 | 158.7 | 52.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 196.1 | 100.2 | 27.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 122.2 | 54.1 | 9.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 68.0 | 19.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 16.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.7 | 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 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 0.7 | 0.7 | 0.7 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.7 | 0.7 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 |
| 75° | 0.7 | 0.7 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.7 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 |
| 80° | 0.7 | 1.5 | 1.5 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 |
| 82.5° | 0.7 | 1.5 | 1.5 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 |
| 85° | 0.7 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 |
| 87.5° | 0.7 | 1.5 | 1.5 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)