

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: P1318391

Luminaire Tested: LDSQA3D13R459830DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

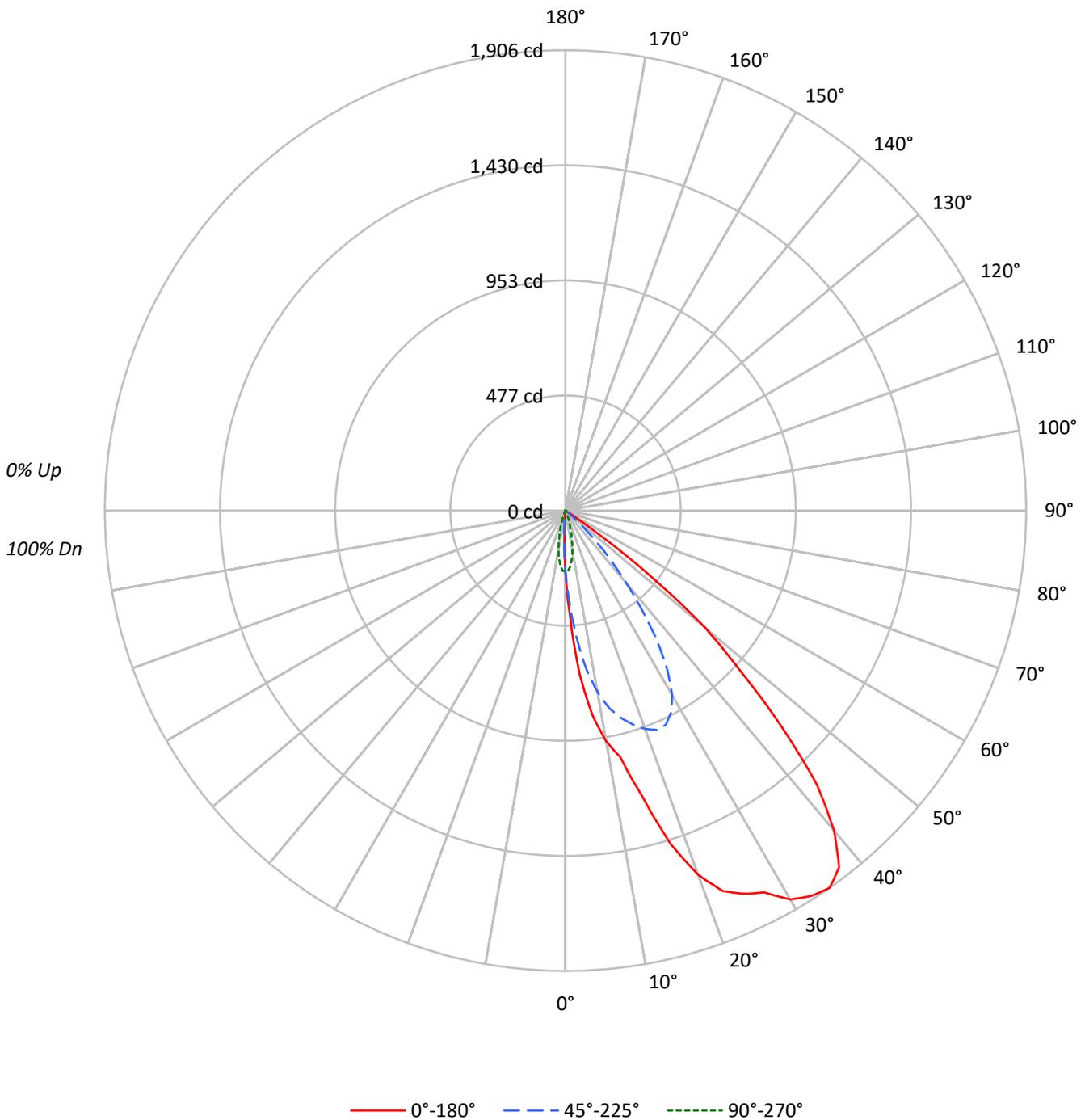
Test Method: LM-79-2019  
Report Number: P1318391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459830DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 808.0 lumens  
Efficiency: N/A  
Efficacy: 55.7 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): 14.5  
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  | 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  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 43211  | 43211  | 43211 | 43211 | 43211 |
| 5°  | 117991 | 90780  | 40005 | 8022  | 3008  |
| 10° | 169458 | 133171 | 28925 | 769   | 630   |
| 15° | 218148 | 158418 | 15387 | 267   | 0     |
| 20° | 294029 | 176256 | 5846  | 0     | 0     |
| 25° | 332566 | 186188 | 1520  | 0     | 0     |
| 30° | 369671 | 175539 | 139   | 0     | 0     |
| 35° | 400727 | 139981 | 0     | 0     | 0     |
| 40° | 388400 | 87882  | 0     | 0     | 0     |
| 45° | 307884 | 41868  | 0     | 0     | 0     |
| 50° | 201511 | 5251   | 0     | 0     | 0     |
| 55° | 34620  | 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: 307884 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.9   | 3.7       |
| 10°-20°   | 115.1  | 14.2      |
| 20°-30°   | 215.5  | 26.7      |
| 30°-40°   | 251.5  | 31.1      |
| 40°-50°   | 164.0  | 20.3      |
| 50°-60°   | 30.4   | 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°    | 360.5  | 44.6      |
| 0°-40°    | 612.0  | 75.7      |
| 0°-60°    | 806.5  | 99.8      |
| 0°-90°    | 808.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 808.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 251  | 251 | 251 | 251  | 251  |      |
| 5°  | 682  | 525 | 231 | 46   | 17   | 73   |
| 15° | 1224 | 888 | 86  | 2    | 0    | 365  |
| 25° | 1750 | 980 | 8   | 0    | 0    | 809  |
| 35° | 1906 | 666 | 0   | 0    | 0    | 1169 |
| 45° | 1264 | 172 | 0   | 0    | 0    | 961  |
| 55° | 115  | 0   | 0   | 0    | 0    | 200  |
| 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    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°   | 50°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 250.9  | 250.9  | 250.9  | 250.9  | 250.9  | 250.9  | 250.9  | 250.9  | 250.9  | 250.9 | 250.9 |
| 2.5°  | 442.4  | 446.0  | 438.8  | 435.9  | 426.5  | 428.6  | 412.7  | 406.2  | 396.0  | 379.3 | 371.3 |
| 5°    | 682.5  | 676.0  | 670.1  | 657.8  | 650.6  | 631.0  | 609.2  | 584.6  | 554.8  | 525.1 | 491.0 |
| 7.5°  | 853.6  | 848.6  | 846.4  | 836.2  | 821.7  | 801.4  | 773.1  | 742.0  | 703.5  | 663.6 | 612.1 |
| 10°   | 969.0  | 963.9  | 955.2  | 945.0  | 933.4  | 916.7  | 889.2  | 855.1  | 813.0  | 761.5 | 701.3 |
| 12.5° | 1044.4 | 1043.7 | 1029.2 | 1017.6 | 1003.0 | 988.5  | 960.3  | 932.7  | 891.4  | 838.4 | 770.2 |
| 15°   | 1223.5 | 1211.9 | 1193.1 | 1160.4 | 1119.8 | 1082.1 | 1036.4 | 992.9  | 947.9  | 888.5 | 812.3 |
| 17.5° | 1446.9 | 1433.9 | 1401.9 | 1360.6 | 1295.3 | 1223.5 | 1145.2 | 1076.3 | 1008.9 | 928.3 | 838.4 |
| 20°   | 1604.3 | 1599.2 | 1572.4 | 1524.5 | 1454.9 | 1359.9 | 1256.9 | 1159.7 | 1064.7 | 961.7 | 850.7 |
| 22.5° | 1705.1 | 1702.2 | 1691.3 | 1658.7 | 1587.6 | 1481.0 | 1348.3 | 1217.7 | 1103.1 | 982.7 | 847.1 |
| 25°   | 1750.1 | 1753.7 | 1755.2 | 1739.2 | 1681.9 | 1573.1 | 1415.7 | 1262.0 | 1124.9 | 979.8 | 819.6 |
| 27.5° | 1782.0 | 1782.0 | 1787.8 | 1780.5 | 1722.5 | 1607.9 | 1441.8 | 1277.2 | 1117.6 | 944.3 | 761.5 |
| 30°   | 1858.9 | 1857.4 | 1861.0 | 1841.5 | 1761.0 | 1618.8 | 1430.2 | 1252.5 | 1076.3 | 882.7 | 678.1 |
| 32.5° | 1892.2 | 1893.7 | 1893.0 | 1861.8 | 1768.2 | 1611.5 | 1401.9 | 1205.4 | 1000.1 | 786.2 | 567.9 |
| 35°   | 1906.0 | 1899.5 | 1872.6 | 1801.6 | 1683.4 | 1515.1 | 1322.2 | 1125.6 | 893.5  | 665.8 | 448.2 |
| 37.5° | 1860.3 | 1841.5 | 1782.0 | 1684.8 | 1540.5 | 1378.7 | 1190.2 | 982.7  | 752.1  | 522.2 | 337.3 |
| 40°   | 1727.6 | 1702.9 | 1628.2 | 1510.7 | 1378.7 | 1233.0 | 1034.2 | 815.2  | 588.2  | 390.9 | 236.4 |
| 42.5° | 1539.7 | 1511.5 | 1431.0 | 1328.7 | 1208.3 | 1055.3 | 857.3  | 638.2  | 430.8  | 269.8 | 150.1 |
| 45°   | 1264.1 | 1248.2 | 1201.8 | 1115.5 | 997.2  | 838.4  | 657.1  | 465.6  | 298.1  | 171.9 | 76.9  |
| 47.5° | 977.7  | 957.4  | 924.0  | 864.5  | 765.9  | 615.0  | 459.8  | 316.2  | 191.5  | 84.9  | 16.0  |
| 50°   | 752.1  | 728.2  | 687.6  | 621.6  | 518.6  | 410.5  | 298.1  | 197.3  | 97.2   | 19.6  | 0.7   |
| 52.5° | 433.0  | 438.1  | 418.5  | 376.4  | 319.1  | 245.9  | 172.6  | 99.4   | 21.8   | 0.7   | 0.0   |
| 55°   | 115.3  | 124.7  | 121.8  | 131.3  | 115.3  | 97.2   | 71.8   | 18.9   | 1.5    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.7    | 1.5    | 4.4    | 6.5    | 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°    | 250.9 | 250.9 | 250.9 | 250.9 | 250.9  | 250.9 | 250.9  | 250.9 |
| 2.5°  | 353.2 | 338.0 | 319.1 | 249.5 | 187.8  | 134.9 | 105.2  | 97.2  |
| 5°    | 458.4 | 421.4 | 373.5 | 231.4 | 116.0  | 46.4  | 21.0   | 17.4  |
| 7.5°  | 557.7 | 503.3 | 417.0 | 202.4 | 58.7   | 11.6  | 5.8    | 5.1   |
| 10°   | 634.6 | 561.4 | 448.9 | 165.4 | 21.8   | 4.4   | 3.6    | 3.6   |
| 12.5° | 687.6 | 598.3 | 460.5 | 125.5 | 8.0    | 2.2   | 2.2    | 1.5   |
| 15°   | 718.0 | 612.9 | 449.7 | 86.3  | 2.9    | 1.5   | 0.0    | 0.0   |
| 17.5° | 727.4 | 607.1 | 420.7 | 54.4  | 0.7    | 0.0   | 0.0    | 0.0   |
| 20°   | 719.5 | 578.8 | 375.0 | 31.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 693.4 | 534.5 | 319.8 | 17.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 644.8 | 472.2 | 255.3 | 8.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 565.7 | 391.6 | 192.2 | 2.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 475.8 | 305.3 | 136.4 | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 371.3 | 224.8 | 87.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 279.2 | 157.4 | 52.2  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 194.4 | 99.4  | 27.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 121.1 | 53.7  | 9.4   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 67.5  | 18.9  | 0.7   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 16.0  | 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)