

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: P1317515

Luminaire Tested: LDSQA3D13R459827DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

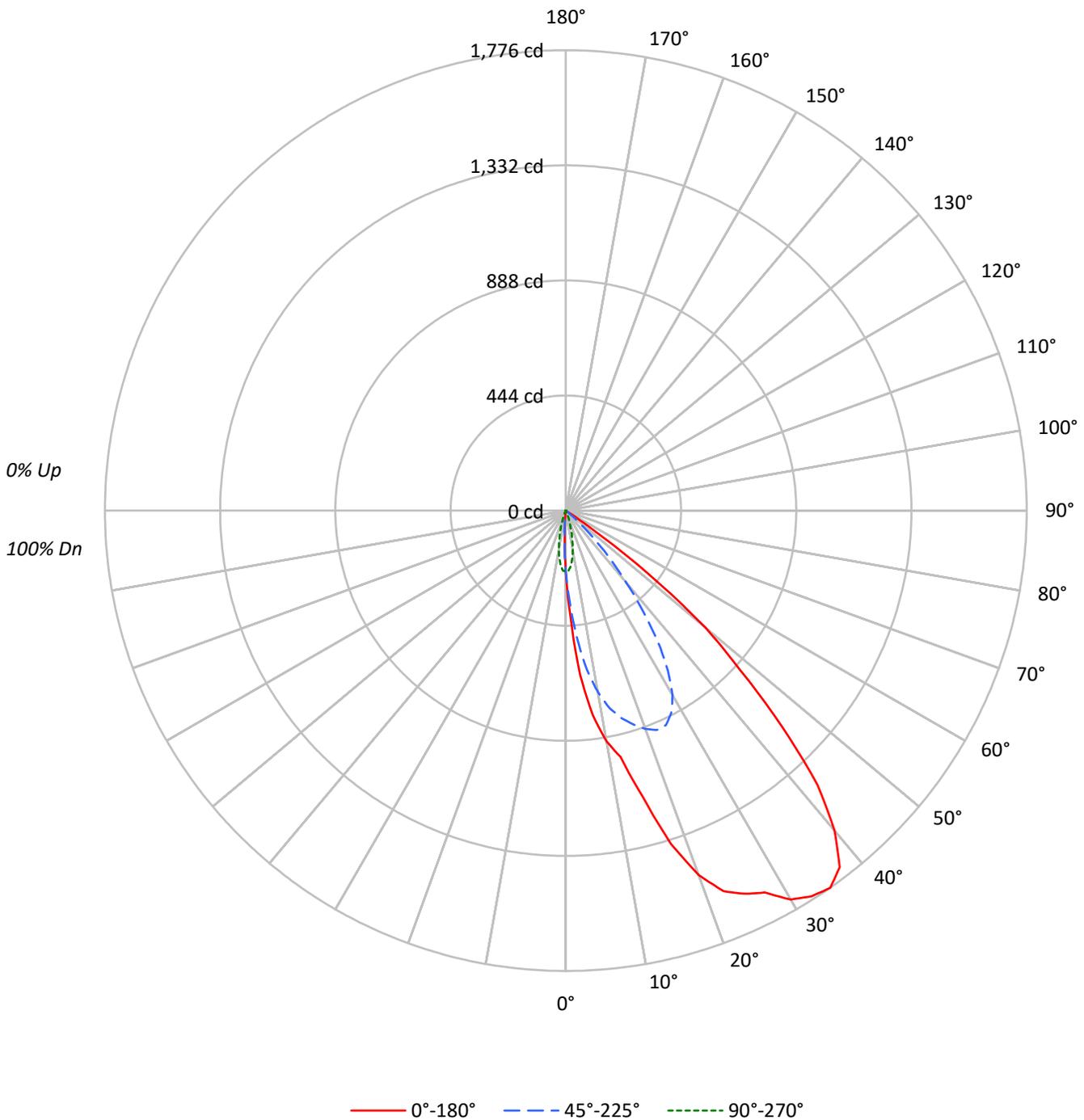
Test Method: LM-79-2019  
Report Number: P1317515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459827DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 753.1 lumens  
Efficiency: N/A  
Efficacy: 51.9 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26  
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 (A<sub>in</sub>): 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  | 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°  | 40283  | 40283  | 40283 | 40283 | 40283 |
| 5°  | 109952 | 84608  | 37273 | 7486  | 2801  |
| 10° | 157916 | 124112 | 26949 | 717   | 595   |
| 15° | 203295 | 147631 | 14335 | 250   | 0     |
| 20° | 274015 | 164252 | 5443  | 0     | 0     |
| 25° | 309914 | 173513 | 1406  | 0     | 0     |
| 30° | 344495 | 163587 | 139   | 0     | 0     |
| 35° | 373458 | 130457 | 0     | 0     | 0     |
| 40° | 361961 | 81902  | 0     | 0     | 0     |
| 45° | 286938 | 39018  | 0     | 0     | 0     |
| 50° | 187793 | 4876   | 0     | 0     | 0     |
| 55° | 32278  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 241   | 0     | 0     |
| 65° | 0      | 285    | 285   | 0     | 0     |
| 70° | 0      | 352    | 705   | 0     | 0     |
| 75° | 0      | 466    | 932   | 0     | 0     |
| 80° | 0      | 694    | 1389  | 694   | 0     |
| 85° | 0      | 1383   | 2766  | 1383  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 286938 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.8   | 3.7       |
| 10°-20°   | 107.3  | 14.2      |
| 20°-30°   | 200.8  | 26.7      |
| 30°-40°   | 234.4  | 31.1      |
| 40°-50°   | 152.9  | 20.3      |
| 50°-60°   | 28.4   | 3.8       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.6    | 0.1       |
| 80°-90°   | 0.6    | 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°    | 335.9  | 44.6      |
| 0°-40°    | 570.3  | 75.7      |
| 0°-60°    | 751.6  | 99.8      |
| 0°-90°    | 753.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 753.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 234  | 234 | 234 | 234  | 234  |      |
| 5°  | 636  | 489 | 216 | 43   | 16   | 68   |
| 15° | 1140 | 828 | 80  | 1    | 0    | 340  |
| 25° | 1631 | 913 | 7   | 0    | 0    | 754  |
| 35° | 1776 | 620 | 0   | 0    | 0    | 1089 |
| 45° | 1178 | 160 | 0   | 0    | 0    | 896  |
| 55° | 108  | 0   | 0   | 0    | 0    | 187  |
| 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°    | 233.9  | 233.9  | 233.9  | 233.9  | 233.9  | 233.9  | 233.9  | 233.9  | 233.9  | 233.9 | 233.9 |
| 2.5°  | 412.3  | 415.7  | 408.9  | 406.2  | 397.4  | 399.5  | 384.6  | 378.5  | 369.0  | 353.5 | 346.1 |
| 5°    | 636.0  | 629.9  | 624.5  | 613.0  | 606.3  | 588.0  | 567.8  | 544.8  | 517.1  | 489.4 | 457.6 |
| 7.5°  | 795.5  | 790.8  | 788.8  | 779.3  | 765.8  | 746.9  | 720.5  | 691.4  | 655.6  | 618.4 | 570.5 |
| 10°   | 903.0  | 898.3  | 890.2  | 880.7  | 869.9  | 854.3  | 828.7  | 796.9  | 757.7  | 709.7 | 653.6 |
| 12.5° | 973.3  | 972.6  | 959.1  | 948.3  | 934.8  | 921.3  | 894.9  | 869.2  | 830.7  | 781.3 | 717.8 |
| 15°   | 1140.2 | 1129.4 | 1111.9 | 1081.4 | 1043.6 | 1008.4 | 965.9  | 925.3  | 883.4  | 828.0 | 757.0 |
| 17.5° | 1348.4 | 1336.3 | 1306.5 | 1268.0 | 1207.2 | 1140.2 | 1067.2 | 1003.0 | 940.2  | 865.2 | 781.3 |
| 20°   | 1495.1 | 1490.4 | 1465.4 | 1420.7 | 1355.9 | 1267.3 | 1171.3 | 1080.8 | 992.2  | 896.2 | 792.8 |
| 22.5° | 1589.0 | 1586.3 | 1576.2 | 1545.8 | 1479.5 | 1380.2 | 1256.5 | 1134.8 | 1028.0 | 915.8 | 789.5 |
| 25°   | 1630.9 | 1634.3 | 1635.7 | 1620.8 | 1567.4 | 1466.0 | 1319.4 | 1176.1 | 1048.3 | 913.1 | 763.8 |
| 27.5° | 1660.7 | 1660.7 | 1666.1 | 1659.3 | 1605.3 | 1498.5 | 1343.7 | 1190.3 | 1041.6 | 880.0 | 709.7 |
| 30°   | 1732.3 | 1731.0 | 1734.4 | 1716.1 | 1641.1 | 1508.6 | 1332.9 | 1167.3 | 1003.0 | 822.6 | 632.0 |
| 32.5° | 1763.4 | 1764.8 | 1764.1 | 1735.0 | 1647.8 | 1501.9 | 1306.5 | 1123.3 | 932.1  | 732.7 | 529.2 |
| 35°   | 1776.3 | 1770.2 | 1745.2 | 1678.9 | 1568.8 | 1412.0 | 1232.2 | 1049.0 | 832.7  | 620.5 | 417.7 |
| 37.5° | 1733.7 | 1716.1 | 1660.7 | 1570.1 | 1435.6 | 1284.9 | 1109.2 | 915.8  | 700.9  | 486.6 | 314.3 |
| 40°   | 1610.0 | 1587.0 | 1517.4 | 1407.9 | 1284.9 | 1149.0 | 963.8  | 759.7  | 548.2  | 364.3 | 220.3 |
| 42.5° | 1434.9 | 1408.6 | 1333.6 | 1238.3 | 1126.1 | 983.4  | 798.9  | 594.8  | 401.5  | 251.4 | 139.9 |
| 45°   | 1178.1 | 1163.2 | 1120.0 | 1039.5 | 929.4  | 781.3  | 612.4  | 433.9  | 277.8  | 160.2 | 71.6  |
| 47.5° | 911.1  | 892.2  | 861.1  | 805.7  | 713.8  | 573.2  | 428.5  | 294.7  | 178.4  | 79.1  | 14.9  |
| 50°   | 700.9  | 678.6  | 640.8  | 579.2  | 483.3  | 382.6  | 277.8  | 183.8  | 90.6   | 18.2  | 0.7   |
| 52.5° | 403.5  | 408.2  | 390.0  | 350.8  | 297.4  | 229.1  | 160.9  | 92.6   | 20.3   | 0.7   | 0.0   |
| 55°   | 107.5  | 116.3  | 113.6  | 122.3  | 107.5  | 90.6   | 66.9   | 17.6   | 1.4    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.7    | 1.4    | 4.1    | 6.1    | 2.0    | 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°    | 233.9 | 233.9 | 233.9 | 233.9 | 233.9  | 233.9 | 233.9  | 233.9 |
| 2.5°  | 329.2 | 315.0 | 297.4 | 232.5 | 175.1  | 125.7 | 98.0   | 90.6  |
| 5°    | 427.2 | 392.7 | 348.1 | 215.6 | 108.1  | 43.3  | 19.6   | 16.2  |
| 7.5°  | 519.8 | 469.1 | 388.6 | 188.6 | 54.7   | 10.8  | 5.4    | 4.7   |
| 10°   | 591.4 | 523.1 | 418.4 | 154.1 | 20.3   | 4.1   | 3.4    | 3.4   |
| 12.5° | 640.8 | 557.6 | 429.2 | 116.9 | 7.4    | 2.0   | 2.0    | 1.4   |
| 15°   | 669.1 | 571.1 | 419.1 | 80.4  | 2.7    | 1.4   | 0.0    | 0.0   |
| 17.5° | 677.9 | 565.7 | 392.0 | 50.7  | 0.7    | 0.0   | 0.0    | 0.0   |
| 20°   | 670.5 | 539.4 | 349.4 | 29.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 646.2 | 498.1 | 298.1 | 16.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 600.9 | 440.0 | 237.9 | 7.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 527.2 | 365.0 | 179.1 | 2.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 443.4 | 284.6 | 127.1 | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 346.1 | 209.5 | 81.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 260.2 | 146.7 | 48.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 181.1 | 92.6  | 25.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 112.9 | 50.0  | 8.8   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 62.9  | 17.6  | 0.7   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 14.9  | 1.4   | 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   | 1.4   | 0.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.7   | 0.7   | 1.4   | 1.4   | 0.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.7   | 0.7   | 1.4   | 1.4   | 0.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.7   | 1.4   | 1.4   | 1.4   | 0.7    | 0.7   | 0.0    | 0.0   |
| 80°   | 0.7   | 1.4   | 1.4   | 1.4   | 1.4    | 0.7   | 0.0    | 0.0   |
| 82.5° | 0.7   | 1.4   | 1.4   | 1.4   | 1.4    | 0.7   | 0.0    | 0.0   |
| 85°   | 0.7   | 1.4   | 1.4   | 1.4   | 0.7    | 0.7   | 0.0    | 0.0   |
| 87.5° | 0.7   | 1.4   | 1.4   | 1.4   | 1.4    | 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)