

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: P1307191

Luminaire Tested: LDSQA3D13R459024DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307191  
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: LDSQA3D13R459024DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

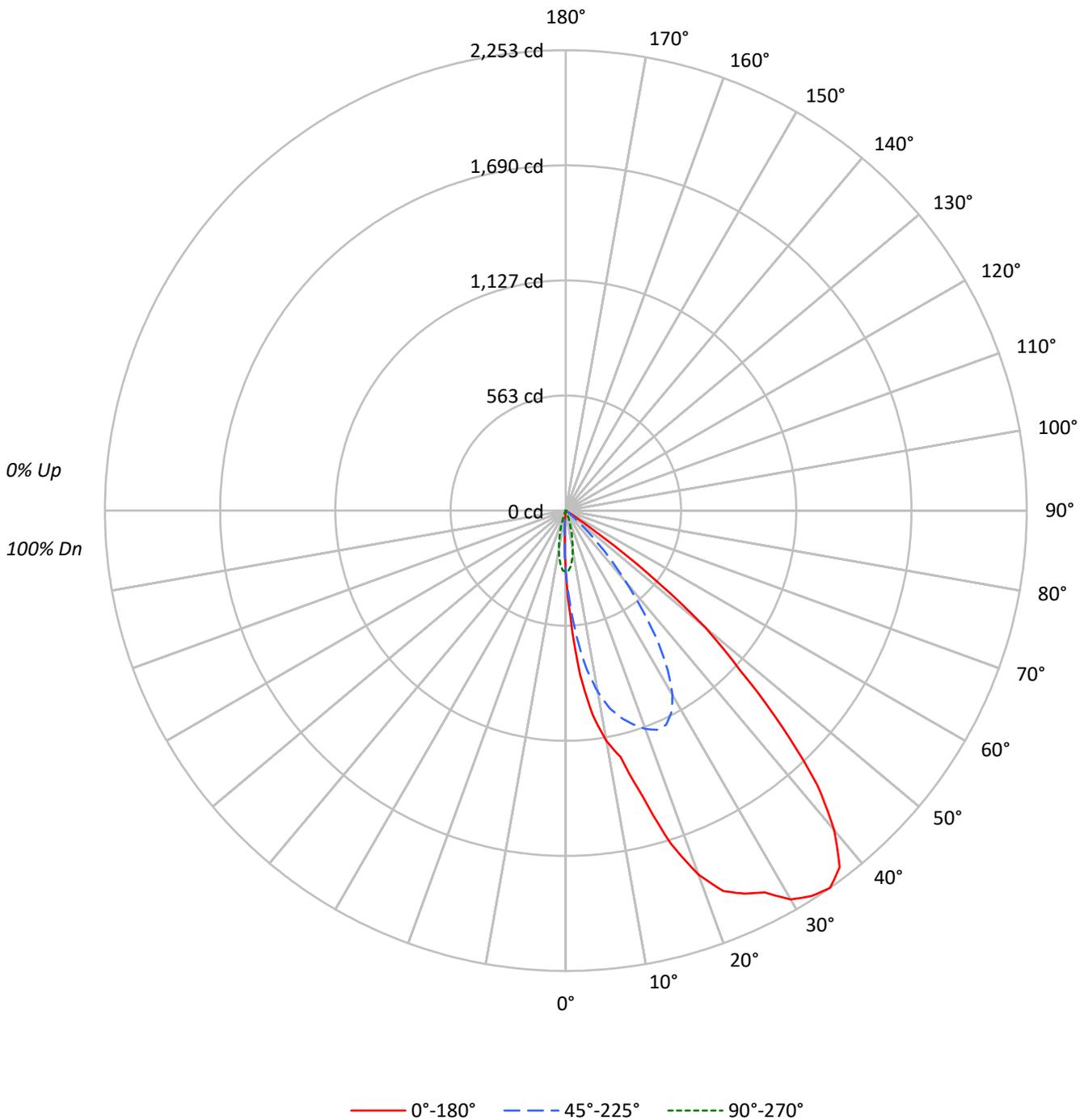
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 955.0 lumens  
Efficiency: N/A  
Efficacy: 65.4 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): 14.6  
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°  | 51081  | 51081  | 51081 | 51081 | 51081 |
| 5°  | 139445 | 107290 | 47283 | 9491  | 3561  |
| 10° | 200272 | 157409 | 34171 | 892   | 752   |
| 15° | 257837 | 187231 | 18186 | 303   | 0     |
| 20° | 347527 | 208329 | 6909  | 0     | 0     |
| 25° | 393070 | 220070 | 1786  | 0     | 0     |
| 30° | 436928 | 207457 | 179   | 0     | 0     |
| 35° | 473640 | 165442 | 0     | 0     | 0     |
| 40° | 459061 | 103867 | 0     | 0     | 0     |
| 45° | 363902 | 49491  | 0     | 0     | 0     |
| 50° | 238164 | 6189   | 0     | 0     | 0     |
| 55° | 40926  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 310   | 0     | 0     |
| 65° | 0      | 367    | 367   | 0     | 0     |
| 70° | 0      | 453    | 856   | 0     | 0     |
| 75° | 0      | 599    | 1131  | 0     | 0     |
| 80° | 0      | 893    | 1686  | 893   | 0     |
| 85° | 0      | 1778   | 3359  | 1778  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 363902 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.3   | 3.7       |
| 10°-20°   | 136.1  | 14.2      |
| 20°-30°   | 254.7  | 26.7      |
| 30°-40°   | 297.3  | 31.1      |
| 40°-50°   | 193.9  | 20.3      |
| 50°-60°   | 36.0   | 3.8       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.7    | 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°    | 426.0  | 44.6      |
| 0°-40°    | 723.3  | 75.7      |
| 0°-60°    | 953.2  | 99.8      |
| 0°-90°    | 955.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 955.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 297  | 297  | 297 | 297  | 297  |      |
| 5°  | 807  | 621  | 274 | 55   | 21   | 86   |
| 15° | 1446 | 1050 | 102 | 2    | 0    | 431  |
| 25° | 2068 | 1158 | 9   | 0    | 0    | 957  |
| 35° | 2253 | 787  | 0   | 0    | 0    | 1382 |
| 45° | 1494 | 203  | 0   | 0    | 0    | 1136 |
| 55° | 136  | 0    | 0   | 0    | 0    | 237  |
| 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°    | 296.6  | 296.6  | 296.6  | 296.6  | 296.6  | 296.6  | 296.6  | 296.6  | 296.6  | 296.6  | 296.6  |
| 2.5°  | 522.9  | 527.2  | 518.6  | 515.2  | 504.0  | 506.6  | 487.8  | 480.0  | 468.0  | 448.3  | 438.9  |
| 5°    | 806.6  | 798.9  | 792.1  | 777.5  | 768.9  | 745.8  | 720.1  | 690.9  | 655.8  | 620.6  | 580.3  |
| 7.5°  | 1008.9 | 1002.9 | 1000.4 | 988.4  | 971.2  | 947.2  | 913.8  | 876.9  | 831.5  | 784.4  | 723.5  |
| 10°   | 1145.2 | 1139.2 | 1129.0 | 1117.0 | 1103.2 | 1083.5 | 1050.9 | 1010.7 | 960.9  | 900.1  | 828.9  |
| 12.5° | 1234.4 | 1233.5 | 1216.4 | 1202.7 | 1185.5 | 1168.4 | 1135.0 | 1102.4 | 1053.5 | 990.9  | 910.4  |
| 15°   | 1446.1 | 1432.4 | 1410.1 | 1371.5 | 1323.5 | 1279.0 | 1225.0 | 1173.5 | 1120.4 | 1050.1 | 960.1  |
| 17.5° | 1710.2 | 1694.7 | 1657.0 | 1608.1 | 1531.0 | 1446.1 | 1353.5 | 1272.1 | 1192.4 | 1097.2 | 990.9  |
| 20°   | 1896.2 | 1890.2 | 1858.4 | 1801.9 | 1719.6 | 1607.3 | 1485.6 | 1370.7 | 1258.4 | 1136.7 | 1005.5 |
| 22.5° | 2015.3 | 2011.9 | 1999.0 | 1960.5 | 1876.5 | 1750.4 | 1593.6 | 1439.3 | 1303.8 | 1161.5 | 1001.2 |
| 25°   | 2068.5 | 2072.8 | 2074.5 | 2055.6 | 1987.9 | 1859.3 | 1673.3 | 1491.6 | 1329.5 | 1158.1 | 968.7  |
| 27.5° | 2106.2 | 2106.2 | 2113.0 | 2104.5 | 2035.9 | 1900.5 | 1704.2 | 1509.6 | 1321.0 | 1116.1 | 900.1  |
| 30°   | 2197.1 | 2195.3 | 2199.6 | 2176.5 | 2081.3 | 1913.3 | 1690.4 | 1480.4 | 1272.1 | 1043.2 | 801.5  |
| 32.5° | 2236.5 | 2238.2 | 2237.3 | 2200.5 | 2089.9 | 1904.7 | 1657.0 | 1424.7 | 1182.1 | 929.2  | 671.2  |
| 35°   | 2252.8 | 2245.1 | 2213.3 | 2129.3 | 1989.6 | 1790.7 | 1562.7 | 1330.4 | 1056.1 | 786.9  | 529.8  |
| 37.5° | 2198.8 | 2176.5 | 2106.2 | 1991.3 | 1820.7 | 1629.6 | 1406.7 | 1161.5 | 888.9  | 617.2  | 398.6  |
| 40°   | 2041.9 | 2012.7 | 1924.5 | 1785.6 | 1629.6 | 1457.3 | 1222.4 | 963.5  | 695.2  | 462.0  | 279.5  |
| 42.5° | 1819.9 | 1786.4 | 1691.3 | 1570.4 | 1428.1 | 1247.3 | 1013.2 | 754.4  | 509.2  | 318.9  | 177.4  |
| 45°   | 1494.1 | 1475.3 | 1420.4 | 1318.4 | 1178.7 | 990.9  | 776.6  | 550.3  | 352.3  | 203.2  | 90.9   |
| 47.5° | 1155.5 | 1131.5 | 1092.1 | 1021.8 | 905.2  | 726.9  | 543.5  | 373.7  | 226.3  | 100.3  | 18.9   |
| 50°   | 888.9  | 860.6  | 812.6  | 734.6  | 612.9  | 485.2  | 352.3  | 233.2  | 114.9  | 23.1   | 0.9    |
| 52.5° | 511.8  | 517.8  | 494.6  | 444.9  | 377.2  | 290.6  | 204.0  | 117.4  | 25.7   | 0.9    | 0.0    |
| 55°   | 136.3  | 147.4  | 144.0  | 155.2  | 136.3  | 114.9  | 84.9   | 22.3   | 1.7    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.9    | 1.7    | 5.1    | 7.7    | 2.6    | 0.9    | 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    | 0.9    | 0.9    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 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°    | 296.6 | 296.6 | 296.6 | 296.6 | 296.6  | 296.6 | 296.6  | 296.6 |
| 2.5°  | 417.5 | 399.5 | 377.2 | 294.9 | 222.0  | 159.4 | 124.3  | 114.9 |
| 5°    | 541.8 | 498.0 | 441.5 | 273.5 | 137.2  | 54.9  | 24.9   | 20.6  |
| 7.5°  | 659.2 | 594.9 | 492.9 | 239.2 | 69.4   | 13.7  | 6.9    | 6.0   |
| 10°   | 750.1 | 663.5 | 530.6 | 195.4 | 25.7   | 5.1   | 4.3    | 4.3   |
| 12.5° | 812.6 | 707.2 | 544.3 | 148.3 | 9.4    | 2.6   | 2.6    | 1.7   |
| 15°   | 848.6 | 724.3 | 531.5 | 102.0 | 3.4    | 1.7   | 0.0    | 0.0   |
| 17.5° | 859.8 | 717.5 | 497.2 | 64.3  | 0.9    | 0.0   | 0.0    | 0.0   |
| 20°   | 850.4 | 684.1 | 443.2 | 37.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 819.5 | 631.8 | 378.0 | 20.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 762.1 | 558.0 | 301.7 | 9.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 668.6 | 462.9 | 227.2 | 3.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 562.3 | 360.9 | 161.2 | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 438.9 | 265.7 | 103.7 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 330.0 | 186.0 | 61.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 229.7 | 117.4 | 32.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 143.2 | 63.4  | 11.1  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 79.7  | 22.3  | 0.9   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 18.9  | 1.7   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.9   | 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   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.9   | 0.9   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.9   | 0.9   | 0.9   | 1.7   | 0.9    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.9   | 0.9   | 1.7   | 1.7   | 0.9    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.9   | 0.9   | 1.7   | 1.7   | 0.9    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.9   | 1.7   | 1.7   | 1.7   | 0.9    | 0.9   | 0.0    | 0.0   |
| 80°   | 0.9   | 1.7   | 1.7   | 1.7   | 1.7    | 0.9   | 0.0    | 0.0   |
| 82.5° | 0.9   | 1.7   | 1.7   | 1.7   | 1.7    | 0.9   | 0.0    | 0.0   |
| 85°   | 0.9   | 1.7   | 1.7   | 1.7   | 0.9    | 0.9   | 0.0    | 0.0   |
| 87.5° | 0.9   | 1.7   | 1.7   | 1.7   | 1.7    | 0.9   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)