

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: IRiS

Report Number: P1311044

Luminaire Tested: P3SQAS05R459050DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311044  
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: IRiS  
Catalog Number: P3SQAS05R459050DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

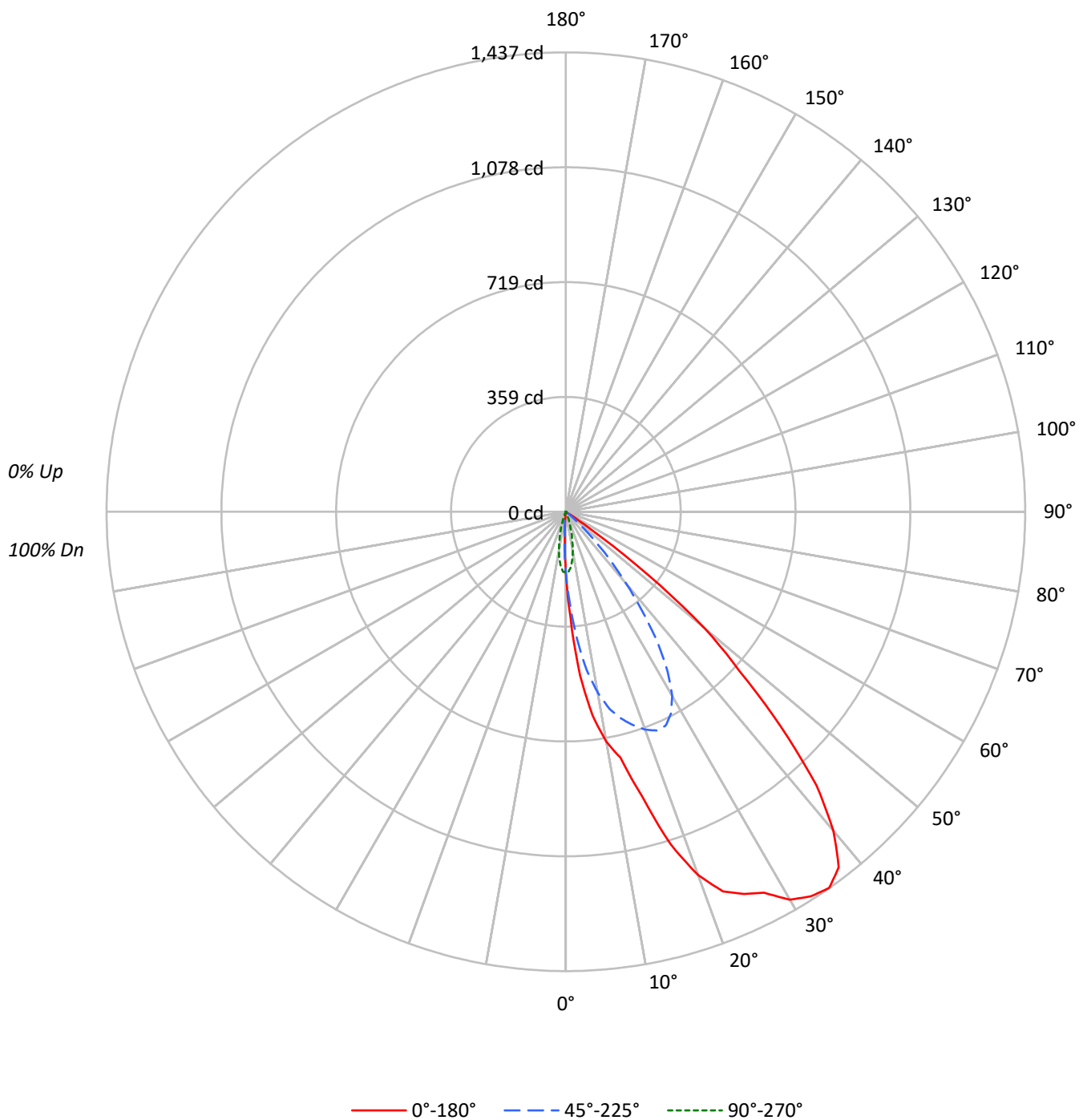
Lumens per Lamp: N/A  
Luminaire Lumens: 609.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  | 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  | 98  | 96  |  | 96  | 94  | 93  | 91  |
| 2   | 106 | 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°  | 32567  | 32567  | 32567 | 32567 | 32567 |
| 5°  | 88930  | 68426  | 30150 | 6051  | 2265  |
| 10° | 127714 | 100381 | 21790 | 577   | 472   |
| 15° | 164426 | 119388 | 11607 | 196   | 0     |
| 20° | 221617 | 132856 | 4417  | 0     | 0     |
| 25° | 250664 | 140335 | 1140  | 0     | 0     |
| 30° | 278631 | 132305 | 99    | 0     | 0     |
| 35° | 302038 | 105501 | 0     | 0     | 0     |
| 40° | 292739 | 66232  | 0     | 0     | 0     |
| 45° | 232064 | 31565  | 0     | 0     | 0     |
| 50° | 151890 | 3965   | 0     | 0     | 0     |
| 55° | 26093  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 172   | 0     | 0     |
| 65° | 0      | 204    | 204   | 0     | 0     |
| 70° | 0      | 252    | 554   | 0     | 0     |
| 75° | 0      | 333    | 732   | 0     | 0     |
| 80° | 0      | 496    | 1091  | 496   | 0     |
| 85° | 0      | 988    | 2174  | 988   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 232064 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.5   | 3.7       |
| 10°-20°   | 86.8   | 14.2      |
| 20°-30°   | 162.4  | 26.7      |
| 30°-40°   | 189.6  | 31.1      |
| 40°-50°   | 123.6  | 20.3      |
| 50°-60°   | 22.9   | 3.8       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 271.7  | 44.6      |
| 0°-40°    | 461.3  | 75.7      |
| 0°-60°    | 607.8  | 99.8      |
| 0°-90°    | 609.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 609.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 189  | 189 | 189 | 189  | 189  |      |
| 5°  | 514  | 396 | 174 | 35   | 13   | 55   |
| 15° | 922  | 670 | 65  | 1    | 0    | 275  |
| 25° | 1319 | 738 | 6   | 0    | 0    | 610  |
| 35° | 1437 | 502 | 0   | 0    | 0    | 881  |
| 45° | 953  | 130 | 0   | 0    | 0    | 725  |
| 55° | 87   | 0   | 0   | 0    | 0    | 151  |
| 65° | 0    | 0   | 0   | 0    | 0    | 0    |
| 75° | 0    | 0   | 1   | 0    | 0    | 0    |
| 85° | 0    | 0   | 1   | 0    | 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°    | 189.1  | 189.1  | 189.1  | 189.1  | 189.1  | 189.1  | 189.1  | 189.1 | 189.1 | 189.1 | 189.1 |
| 2.5°  | 333.5  | 336.2  | 330.7  | 328.5  | 321.4  | 323.1  | 311.0  | 306.1 | 298.5 | 285.9 | 279.9 |
| 5°    | 514.4  | 509.5  | 505.1  | 495.8  | 490.3  | 475.6  | 459.2  | 440.6 | 418.2 | 395.8 | 370.1 |
| 7.5°  | 643.4  | 639.6  | 637.9  | 630.3  | 619.3  | 604.0  | 582.7  | 559.2 | 530.2 | 500.2 | 461.4 |
| 10°   | 730.3  | 726.5  | 719.9  | 712.3  | 703.5  | 691.0  | 670.2  | 644.5 | 612.8 | 574.0 | 528.6 |
| 12.5° | 787.2  | 786.6  | 775.7  | 766.9  | 756.0  | 745.1  | 723.8  | 703.0 | 671.8 | 631.9 | 580.5 |
| 15°   | 922.2  | 913.4  | 899.2  | 874.6  | 844.0  | 815.6  | 781.2  | 748.4 | 714.5 | 669.6 | 612.2 |
| 17.5° | 1090.6 | 1080.7 | 1056.7 | 1025.5 | 976.3  | 922.2  | 863.2  | 811.2 | 760.4 | 699.7 | 631.9 |
| 20°   | 1209.2 | 1205.4 | 1185.1 | 1149.0 | 1096.6 | 1025.0 | 947.3  | 874.1 | 802.5 | 724.9 | 641.2 |
| 22.5° | 1285.2 | 1283.0 | 1274.8 | 1250.2 | 1196.6 | 1116.2 | 1016.2 | 917.8 | 831.4 | 740.7 | 638.5 |
| 25°   | 1319.1 | 1321.8 | 1322.9 | 1310.9 | 1267.7 | 1185.7 | 1067.1 | 951.2 | 847.8 | 738.5 | 617.7 |
| 27.5° | 1343.1 | 1343.1 | 1347.5 | 1342.0 | 1298.3 | 1211.9 | 1086.7 | 962.6 | 842.4 | 711.7 | 574.0 |
| 30°   | 1401.1 | 1400.0 | 1402.7 | 1387.9 | 1327.3 | 1220.1 | 1078.0 | 944.1 | 811.2 | 665.3 | 511.1 |
| 32.5° | 1426.2 | 1427.3 | 1426.7 | 1403.2 | 1332.7 | 1214.6 | 1056.7 | 908.5 | 753.8 | 592.6 | 428.0 |
| 35°   | 1436.6 | 1431.7 | 1411.4 | 1357.9 | 1268.8 | 1141.9 | 996.5  | 848.4 | 673.5 | 501.8 | 337.8 |
| 37.5° | 1402.1 | 1387.9 | 1343.1 | 1269.9 | 1161.1 | 1039.2 | 897.0  | 740.7 | 566.9 | 393.6 | 254.2 |
| 40°   | 1302.1 | 1283.5 | 1227.2 | 1138.7 | 1039.2 | 929.3  | 779.5  | 614.4 | 443.3 | 294.6 | 178.2 |
| 42.5° | 1160.5 | 1139.2 | 1078.5 | 1001.5 | 910.7  | 795.4  | 646.1  | 481.0 | 324.7 | 203.4 | 113.2 |
| 45°   | 952.8  | 940.8  | 905.8  | 840.7  | 751.6  | 631.9  | 495.3  | 350.9 | 224.7 | 129.6 | 57.9  |
| 47.5° | 736.9  | 721.6  | 696.4  | 651.6  | 577.3  | 463.6  | 346.6  | 238.3 | 144.3 | 64.0  | 12.0  |
| 50°   | 566.9  | 548.8  | 518.2  | 468.5  | 390.9  | 309.4  | 224.7  | 148.7 | 73.3  | 14.8  | 0.5   |
| 52.5° | 326.3  | 330.2  | 315.4  | 283.7  | 240.5  | 185.3  | 130.1  | 74.9  | 16.4  | 0.5   | 0.0   |
| 55°   | 86.9   | 94.0   | 91.8   | 98.9   | 86.9   | 73.3   | 54.1   | 14.2  | 1.1   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.5    | 1.1    | 3.3    | 4.9    | 1.6    | 0.5   | 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   | 0.5   | 0.5   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 0.5   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 0.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 0.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 0.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 0.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 0.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 0.5   |
| 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°    | 189.1 | 189.1 | 189.1 | 189.1 | 189.1  | 189.1 | 189.1  | 189.1 |
| 2.5°  | 266.2 | 254.7 | 240.5 | 188.0 | 141.6  | 101.7 | 79.3   | 73.3  |
| 5°    | 345.5 | 317.6 | 281.5 | 174.4 | 87.5   | 35.0  | 15.9   | 13.1  |
| 7.5°  | 420.4 | 379.4 | 314.3 | 152.5 | 44.3   | 8.7   | 4.4    | 3.8   |
| 10°   | 478.3 | 423.1 | 338.4 | 124.6 | 16.4   | 3.3   | 2.7    | 2.7   |
| 12.5° | 518.2 | 451.0 | 347.1 | 94.6  | 6.0    | 1.6   | 1.6    | 1.1   |
| 15°   | 541.2 | 461.9 | 338.9 | 65.1  | 2.2    | 1.1   | 0.0    | 0.0   |
| 17.5° | 548.3 | 457.5 | 317.1 | 41.0  | 0.5    | 0.0   | 0.0    | 0.0   |
| 20°   | 542.3 | 436.2 | 282.6 | 24.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 522.6 | 402.9 | 241.1 | 13.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 486.0 | 355.9 | 192.4 | 6.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 426.4 | 295.2 | 144.9 | 2.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 358.6 | 230.1 | 102.8 | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 279.9 | 169.5 | 66.1  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 210.5 | 118.6 | 39.4  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 146.5 | 74.9  | 20.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 91.3  | 40.5  | 7.1   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 50.8  | 14.2  | 0.5   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 12.0  | 1.1   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.5   | 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   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.5   | 0.5   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.5   | 0.5   | 0.5   | 1.1   | 0.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.5   | 0.5   | 1.1   | 1.1   | 0.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.5   | 0.5   | 1.1   | 1.1   | 0.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.5   | 1.1   | 1.1   | 1.1   | 0.5    | 0.5   | 0.0    | 0.0   |
| 80°   | 0.5   | 1.1   | 1.1   | 1.1   | 1.1    | 0.5   | 0.0    | 0.0   |
| 82.5° | 0.5   | 1.1   | 1.1   | 1.1   | 1.1    | 0.5   | 0.0    | 0.0   |
| 85°   | 0.5   | 1.1   | 1.1   | 1.1   | 0.5    | 0.5   | 0.0    | 0.0   |
| 87.5° | 0.5   | 1.1   | 1.1   | 1.1   | 1.1    | 0.5   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)