

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: P1318049

Luminaire Tested: P3SQAS13R559835DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R559835DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

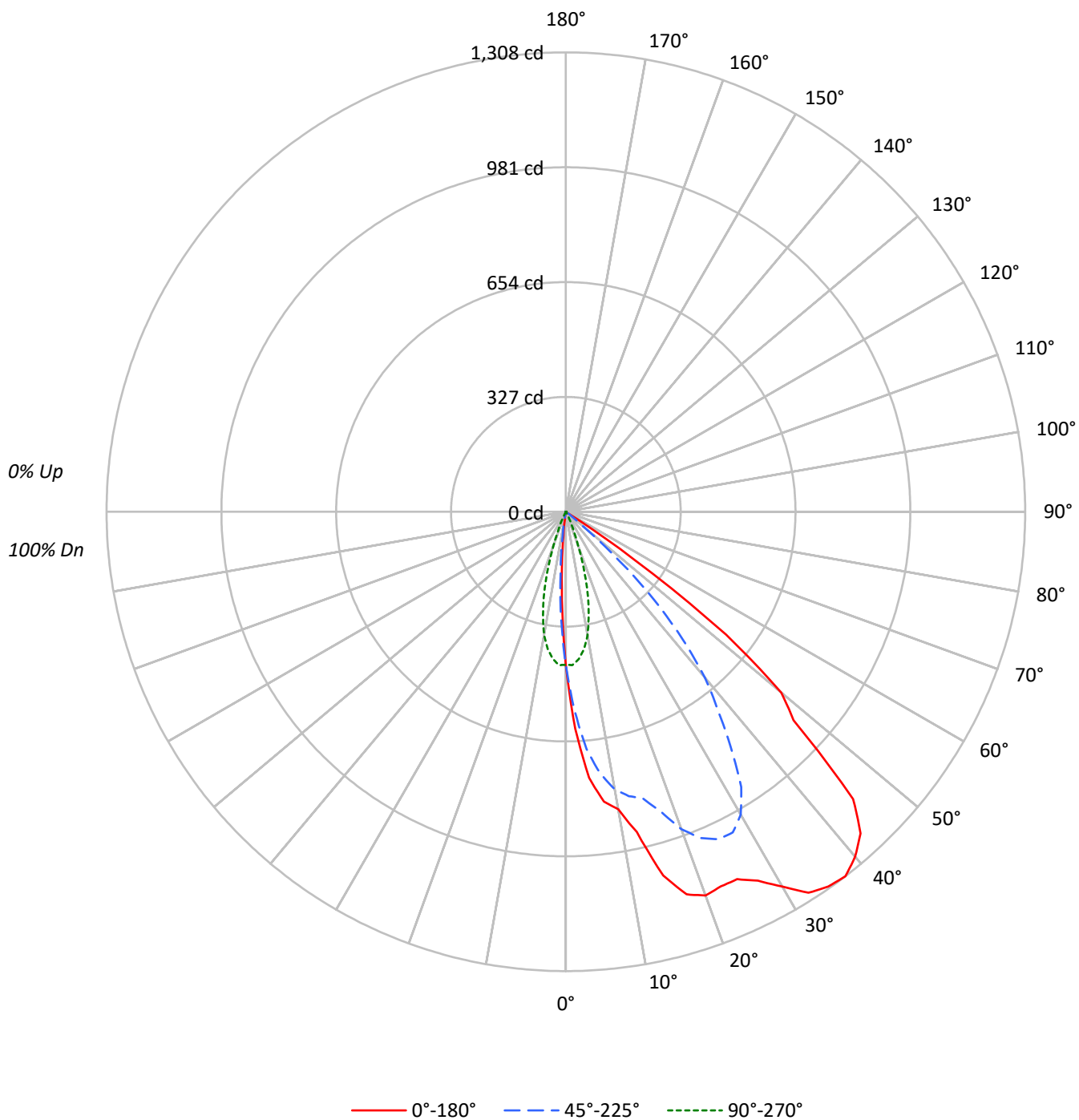
Lumens per Lamp: N/A  
Luminaire Lumens: 806.1 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 95  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 86  | 88  | 86  | 84  | 82  |    |    |
| 3   | 98  | 90  | 84  | 80  | 96  | 89  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 92  | 82  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 75003  | 75003  | 75003 | 75003 | 75003 |
| 5°  | 131476 | 117196 | 72800 | 30254 | 17409 |
| 10° | 150484 | 140271 | 62257 | 3305  | 1189  |
| 15° | 191225 | 150573 | 42685 | 678   | 410   |
| 20° | 213094 | 176164 | 18749 | 0     | 0     |
| 25° | 219348 | 195461 | 5321  | 0     | 0     |
| 30° | 245082 | 198070 | 756   | 0     | 0     |
| 35° | 273907 | 171980 | 0     | 0     | 0     |
| 40° | 288130 | 138445 | 0     | 0     | 0     |
| 45° | 281701 | 87438  | 0     | 0     | 0     |
| 50° | 214505 | 17871  | 0     | 0     | 0     |
| 55° | 70261  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 326    | 326   | 0     | 0     |
| 70° | 0      | 403    | 403   | 0     | 0     |
| 75° | 0      | 532    | 532   | 0     | 0     |
| 80° | 0      | 793    | 1488  | 793   | 0     |
| 85° | 0      | 1581   | 1581  | 1581  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 281701 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.8   | 4.9       |
| 10°-20°   | 116.6  | 14.5      |
| 20°-30°   | 189.7  | 23.5      |
| 30°-40°   | 225.4  | 28.0      |
| 40°-50°   | 184.3  | 22.9      |
| 50°-60°   | 48.9   | 6.1       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.5    | 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°    | 346.1  | 42.9      |
| 0°-40°    | 571.5  | 70.9      |
| 0°-60°    | 804.6  | 99.8      |
| 0°-90°    | 806.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 806.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 436  | 436  | 436 | 436  | 436  |      |
| 5°  | 760  | 678  | 421 | 175  | 101  | 75   |
| 15° | 1072 | 844  | 239 | 4    | 2    | 300  |
| 25° | 1154 | 1029 | 28  | 0    | 0    | 544  |
| 35° | 1303 | 818  | 0   | 0    | 0    | 810  |
| 45° | 1157 | 359  | 0   | 0    | 0    | 830  |
| 55° | 234  | 0    | 0   | 0    | 0    | 263  |
| 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°    | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 435.5  | 435.5  | 435.5  | 435.5  | 435.5  | 435.5  | 435.5  | 435.5  | 435.5  | 435.5  | 435.5 |
| 2.5°  | 618.1  | 613.5  | 614.3  | 612.0  | 614.3  | 604.4  | 593.8  | 584.0  | 576.4  | 565.8  | 501.4 |
| 5°    | 760.5  | 752.9  | 750.6  | 747.6  | 744.6  | 732.4  | 722.6  | 710.5  | 696.1  | 677.9  | 559.7 |
| 7.5°  | 832.4  | 826.4  | 823.3  | 824.9  | 818.0  | 813.5  | 800.6  | 787.0  | 771.8  | 752.1  | 603.7 |
| 10°   | 860.5  | 854.4  | 853.6  | 852.9  | 852.1  | 849.1  | 843.0  | 830.9  | 817.3  | 802.1  | 628.7 |
| 12.5° | 933.9  | 920.3  | 911.2  | 900.6  | 887.7  | 871.1  | 857.4  | 846.8  | 841.5  | 829.4  | 640.0 |
| 15°   | 1072.5 | 1059.7 | 1049.8 | 1036.2 | 1011.9 | 976.3  | 943.8  | 902.1  | 865.8  | 844.5  | 635.5 |
| 17.5° | 1142.2 | 1136.2 | 1127.8 | 1118.7 | 1102.1 | 1076.3 | 1043.0 | 999.1  | 952.9  | 893.0  | 613.5 |
| 20°   | 1162.7 | 1159.6 | 1153.6 | 1149.8 | 1138.4 | 1120.3 | 1097.5 | 1063.4 | 1020.3 | 961.2  | 579.4 |
| 22.5° | 1154.3 | 1156.6 | 1159.6 | 1169.5 | 1171.0 | 1158.1 | 1136.9 | 1104.3 | 1060.4 | 1005.9 | 527.2 |
| 25°   | 1154.3 | 1152.8 | 1152.8 | 1173.3 | 1186.1 | 1180.1 | 1164.9 | 1135.4 | 1090.7 | 1028.6 | 462.8 |
| 27.5° | 1183.9 | 1174.8 | 1155.9 | 1177.1 | 1198.3 | 1196.0 | 1182.4 | 1147.5 | 1097.5 | 1029.4 | 384.0 |
| 30°   | 1232.4 | 1212.7 | 1181.6 | 1201.3 | 1221.0 | 1212.7 | 1190.7 | 1146.0 | 1082.4 | 996.0  | 287.8 |
| 32.5° | 1286.1 | 1277.0 | 1261.1 | 1274.0 | 1271.0 | 1237.7 | 1198.3 | 1136.2 | 1051.3 | 929.4  | 193.9 |
| 35°   | 1302.8 | 1304.3 | 1293.7 | 1291.4 | 1274.0 | 1239.9 | 1198.3 | 1108.1 | 986.2  | 818.0  | 115.1 |
| 37.5° | 1308.1 | 1308.9 | 1292.2 | 1271.0 | 1245.2 | 1205.1 | 1155.1 | 1050.6 | 865.8  | 710.5  | 61.4  |
| 40°   | 1281.6 | 1280.8 | 1253.6 | 1227.8 | 1199.0 | 1159.6 | 1086.9 | 929.4  | 751.4  | 615.8  | 22.0  |
| 42.5° | 1242.2 | 1232.4 | 1206.6 | 1174.8 | 1139.9 | 1090.7 | 977.1  | 784.7  | 652.9  | 493.1  | 1.5   |
| 45°   | 1156.6 | 1147.5 | 1127.1 | 1093.0 | 1054.4 | 984.7  | 805.2  | 674.1  | 531.0  | 359.0  | 0.0   |
| 47.5° | 879.4  | 874.8  | 896.1  | 900.6  | 899.8  | 820.3  | 671.8  | 549.9  | 390.1  | 209.1  | 0.0   |
| 50°   | 800.6  | 794.6  | 773.3  | 746.1  | 697.6  | 630.9  | 538.5  | 407.5  | 228.7  | 66.7   | 0.0   |
| 52.5° | 574.9  | 594.6  | 599.1  | 578.7  | 533.2  | 467.3  | 371.1  | 234.8  | 79.5   | 0.0    | 0.0   |
| 55°   | 234.0  | 221.9  | 231.0  | 242.4  | 251.5  | 231.0  | 171.2  | 83.3   | 0.8    | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.8    | 4.5    | 10.6   | 17.4   | 22.0   | 23.5   | 1.5    | 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    | 0.8   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.0    | 0.8    | 0.8    | 0.8   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   |
| 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):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 435.5 | 435.5  | 435.5 | 435.5  | 435.5 |
| 2.5°  | 437.0 | 369.6  | 304.5 | 268.9  | 251.5 |
| 5°    | 421.1 | 282.5  | 175.0 | 121.2  | 100.7 |
| 7.5°  | 394.6 | 193.9  | 69.7  | 28.8   | 20.5  |
| 10°   | 356.0 | 111.3  | 18.9  | 7.6    | 6.8   |
| 12.5° | 300.7 | 50.7   | 6.8   | 5.3    | 5.3   |
| 15°   | 239.4 | 17.4   | 3.8   | 3.0    | 2.3   |
| 17.5° | 168.2 | 4.5    | 1.5   | 0.0    | 0.0   |
| 20°   | 102.3 | 0.8    | 0.0   | 0.0    | 0.0   |
| 22.5° | 56.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 28.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 12.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 3.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.5   | 0.8    | 0.8   | 0.0    | 0.0   |
| 80°   | 1.5   | 0.8    | 0.8   | 0.0    | 0.0   |
| 82.5° | 1.5   | 0.8    | 0.8   | 0.0    | 0.0   |
| 85°   | 0.8   | 0.8    | 0.8   | 0.0    | 0.0   |
| 87.5° | 1.5   | 0.8    | 0.8   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)