

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: P1306105

Luminaire Tested: P3SQAS17R409024DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R409024DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

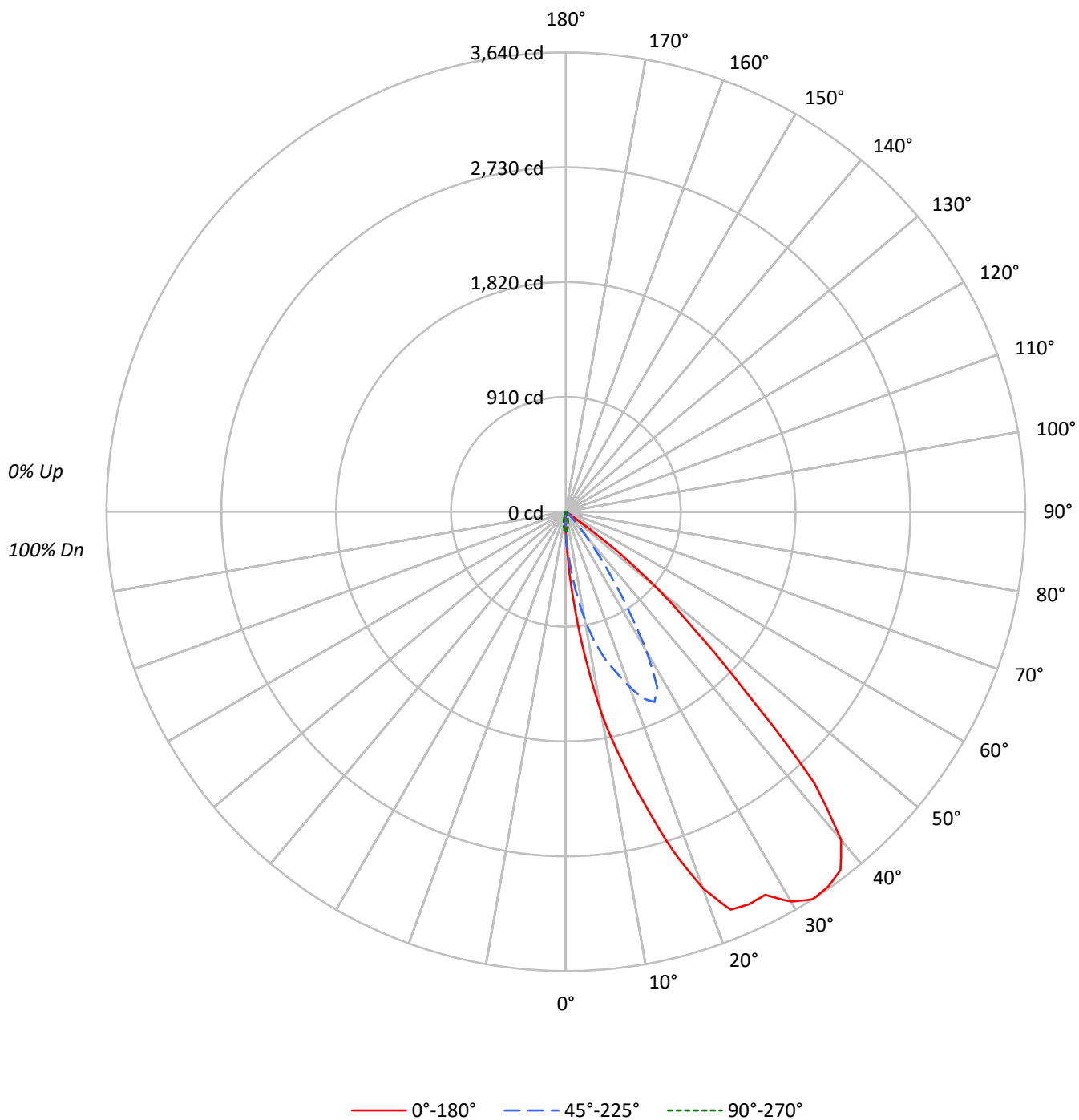
Lumens per Lamp: N/A  
Luminaire Lumens: 1343.0 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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 |
| 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 | 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  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 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  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 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  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 27366  | 27366  | 27366 | 27366 | 27366 |
| 5°  | 123437 | 78695  | 24532 | 9422  | 6863  |
| 10° | 283060 | 152058 | 17278 | 3375  | 2588  |
| 15° | 424795 | 215741 | 10734 | 1819  | 1623  |
| 20° | 581661 | 270441 | 6250  | 1045  | 1246  |
| 25° | 652038 | 315995 | 3230  | 855   | 1083  |
| 30° | 709234 | 255065 | 1352  | 676   | 1134  |
| 35° | 762222 | 130541 | 484   | 946   | 1430  |
| 40° | 762502 | 52068  | 247   | 1012  | 1776  |
| 45° | 486851 | 17415  | 560   | 1656  | 2484  |
| 50° | 252739 | 2117   | 911   | 2117  | 3054  |
| 55° | 21799  | 330    | 1021  | 2732  | 3753  |
| 60° | 792    | 379    | 1171  | 3134  | 4306  |
| 65° | 937    | 448    | 1834  | 3219  | 4646  |
| 70° | 554    | 554    | 2266  | 3424  | 4582  |
| 75° | 732    | 732    | 2262  | 3793  | 5257  |
| 80° | 1091   | 1091   | 3372  | 3372  | 4463  |
| 85° | 0      | 2174   | 6719  | 4545  | 4545  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 486851 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 31.0   | 2.3       |
| 10°-20°   | 181.8  | 13.5      |
| 20°-30°   | 398.1  | 29.6      |
| 30°-40°   | 453.5  | 33.8      |
| 40°-50°   | 239.3  | 17.8      |
| 50°-60°   | 28.2   | 2.1       |
| 60°-70°   | 5.1    | 0.4       |
| 70°-80°   | 4.1    | 0.3       |
| 80°-90°   | 1.9    | 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°    | 610.8  | 45.5      |
| 0°-40°    | 1064.3 | 79.3      |
| 0°-60°    | 1331.9 | 99.2      |
| 0°-90°    | 1343.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1343.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 159  | 159  | 159 | 159  | 159  |      |
| 5°  | 714  | 455  | 142 | 54   | 40   | 96   |
| 15° | 2382 | 1210 | 60  | 10   | 9    | 702  |
| 25° | 3431 | 1663 | 17  | 4    | 6    | 1581 |
| 35° | 3625 | 621  | 2   | 4    | 7    | 2247 |
| 45° | 1999 | 72   | 2   | 7    | 10   | 1612 |
| 55° | 73   | 1    | 3   | 9    | 12   | 226  |
| 65° | 2    | 1    | 4   | 8    | 11   | 2    |
| 75° | 1    | 1    | 3   | 6    | 8    | 1    |
| 85° | 0    | 1    | 3   | 2    | 2    | 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°    | 158.9  | 158.9  | 158.9  | 158.9  | 158.9  | 158.9  | 158.9  | 158.9  | 158.9  | 158.9  | 158.9 |
| 2.5°  | 354.1  | 354.1  | 353.0  | 342.8  | 341.7  | 340.5  | 322.4  | 317.8  | 296.3  | 281.5  | 214.5 |
| 5°    | 714.0  | 698.1  | 696.9  | 678.8  | 648.1  | 607.3  | 581.2  | 539.2  | 498.3  | 455.2  | 264.5 |
| 7.5°  | 1137.3 | 1151.0 | 1113.5 | 1094.2 | 1026.1 | 977.3  | 902.4  | 836.6  | 744.6  | 658.3  | 305.3 |
| 10°   | 1618.6 | 1594.8 | 1557.3 | 1519.9 | 1446.1 | 1358.7 | 1247.5 | 1130.5 | 997.7  | 869.5  | 328.0 |
| 12.5° | 1994.3 | 1963.7 | 1941.0 | 1889.9 | 1817.3 | 1704.9 | 1572.1 | 1415.4 | 1239.5 | 1054.5 | 326.9 |
| 15°   | 2382.5 | 2351.9 | 2300.8 | 2255.4 | 2147.6 | 2021.6 | 1877.4 | 1670.8 | 1455.2 | 1210.0 | 303.1 |
| 17.5° | 2809.3 | 2769.6 | 2712.8 | 2643.6 | 2539.2 | 2399.6 | 2216.8 | 1964.8 | 1659.5 | 1337.1 | 259.9 |
| 20°   | 3173.7 | 3149.8 | 3093.1 | 3011.4 | 2909.2 | 2773.0 | 2561.9 | 2282.6 | 1910.3 | 1475.6 | 206.6 |
| 22.5° | 3412.0 | 3390.5 | 3351.9 | 3280.4 | 3203.2 | 3057.9 | 2864.9 | 2558.5 | 2120.3 | 1601.6 | 156.6 |
| 25°   | 3431.3 | 3422.3 | 3412.0 | 3388.2 | 3341.7 | 3238.4 | 3050.0 | 2719.7 | 2250.9 | 1662.9 | 115.8 |
| 27.5° | 3421.1 | 3417.7 | 3415.5 | 3403.0 | 3372.3 | 3270.2 | 3077.2 | 2743.5 | 2233.8 | 1567.5 | 85.1  |
| 30°   | 3566.4 | 3556.2 | 3550.5 | 3509.7 | 3429.1 | 3271.3 | 3019.3 | 2615.2 | 1985.3 | 1282.6 | 61.3  |
| 32.5° | 3640.2 | 3637.9 | 3632.3 | 3592.5 | 3479.0 | 3273.6 | 2921.7 | 2305.3 | 1574.4 | 926.2  | 42.0  |
| 35°   | 3625.4 | 3614.1 | 3593.7 | 3519.9 | 3362.1 | 3104.4 | 2606.1 | 1841.1 | 1136.2 | 620.9  | 27.2  |
| 37.5° | 3575.5 | 3549.4 | 3509.7 | 3376.9 | 3166.9 | 2815.0 | 2113.5 | 1355.3 | 773.0  | 401.8  | 15.9  |
| 40°   | 3391.6 | 3356.4 | 3294.0 | 3131.7 | 2855.9 | 2320.1 | 1563.0 | 916.0  | 507.4  | 231.6  | 4.5   |
| 42.5° | 2916.0 | 2870.6 | 2825.2 | 2643.6 | 2328.0 | 1729.9 | 1028.4 | 566.4  | 289.4  | 127.1  | 1.1   |
| 45°   | 1998.9 | 1942.1 | 1879.7 | 1748.0 | 1494.9 | 1047.7 | 611.8  | 319.0  | 149.8  | 71.5   | 1.1   |
| 47.5° | 1388.2 | 1362.1 | 1253.1 | 1085.1 | 832.0  | 555.1  | 316.7  | 156.6  | 79.5   | 32.9   | 1.1   |
| 50°   | 943.3  | 913.7  | 786.6  | 624.3  | 442.7  | 265.6  | 145.3  | 78.3   | 35.2   | 7.9    | 1.1   |
| 52.5° | 494.9  | 458.6  | 378.0  | 288.3  | 179.3  | 111.2  | 63.6   | 34.1   | 10.2   | 1.1    | 1.1   |
| 55°   | 72.6   | 67.0   | 54.5   | 44.3   | 39.7   | 30.6   | 18.2   | 7.9    | 1.1    | 1.1    | 2.3   |
| 57.5° | 2.3    | 2.3    | 2.3    | 2.3    | 3.4    | 3.4    | 2.3    | 1.1    | 1.1    | 1.1    | 2.3   |
| 60°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 62.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 65°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 67.5° | 2.3    | 2.3    | 2.3    | 2.3    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 3.4   |
| 70°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 3.4   |
| 72.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 3.4   |
| 75°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 3.4   |
| 77.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 3.4   |
| 80°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 3.4   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 2.3   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 2.3   |
| 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°    | 158.9 | 158.9  | 158.9 | 158.9  | 158.9 |
| 2.5°  | 156.6 | 115.8  | 89.7  | 77.2   | 76.1  |
| 5°    | 141.9 | 82.9   | 54.5  | 42.0   | 39.7  |
| 7.5°  | 120.3 | 57.9   | 31.8  | 22.7   | 21.6  |
| 10°   | 98.8  | 39.7   | 19.3  | 15.9   | 14.8  |
| 12.5° | 78.3  | 26.1   | 13.6  | 12.5   | 11.4  |
| 15°   | 60.2  | 17.0   | 10.2  | 9.1    | 9.1   |
| 17.5° | 45.4  | 11.4   | 7.9   | 7.9    | 7.9   |
| 20°   | 34.1  | 7.9    | 5.7   | 6.8    | 6.8   |
| 22.5° | 23.8  | 5.7    | 4.5   | 5.7    | 5.7   |
| 25°   | 17.0  | 4.5    | 4.5   | 5.7    | 5.7   |
| 27.5° | 11.4  | 3.4    | 3.4   | 4.5    | 5.7   |
| 30°   | 6.8   | 2.3    | 3.4   | 4.5    | 5.7   |
| 32.5° | 3.4   | 2.3    | 3.4   | 5.7    | 5.7   |
| 35°   | 2.3   | 3.4    | 4.5   | 5.7    | 6.8   |
| 37.5° | 1.1   | 3.4    | 4.5   | 6.8    | 6.8   |
| 40°   | 1.1   | 3.4    | 4.5   | 6.8    | 7.9   |
| 42.5° | 2.3   | 4.5    | 5.7   | 7.9    | 9.1   |
| 45°   | 2.3   | 4.5    | 6.8   | 9.1    | 10.2  |
| 47.5° | 2.3   | 4.5    | 7.9   | 10.2   | 10.2  |
| 50°   | 3.4   | 5.7    | 7.9   | 10.2   | 11.4  |
| 52.5° | 3.4   | 5.7    | 7.9   | 11.4   | 12.5  |
| 55°   | 3.4   | 5.7    | 9.1   | 11.4   | 12.5  |
| 57.5° | 3.4   | 6.8    | 9.1   | 11.4   | 12.5  |
| 60°   | 3.4   | 5.7    | 9.1   | 11.4   | 12.5  |
| 62.5° | 4.5   | 5.7    | 7.9   | 11.4   | 11.4  |
| 65°   | 4.5   | 5.7    | 7.9   | 11.4   | 11.4  |
| 67.5° | 4.5   | 5.7    | 7.9   | 10.2   | 10.2  |
| 70°   | 4.5   | 5.7    | 6.8   | 9.1    | 9.1   |
| 72.5° | 4.5   | 5.7    | 6.8   | 7.9    | 9.1   |
| 75°   | 3.4   | 4.5    | 5.7   | 6.8    | 7.9   |
| 77.5° | 3.4   | 4.5    | 4.5   | 6.8    | 6.8   |
| 80°   | 3.4   | 3.4    | 3.4   | 4.5    | 4.5   |
| 82.5° | 3.4   | 3.4    | 2.3   | 3.4    | 3.4   |
| 85°   | 3.4   | 2.3    | 2.3   | 2.3    | 2.3   |
| 87.5° | 2.3   | 2.3    | 1.1   | 1.1    | 1.1   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)