

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: P1311166

Luminaire Tested: P3SQAS09R359050DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R359050DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

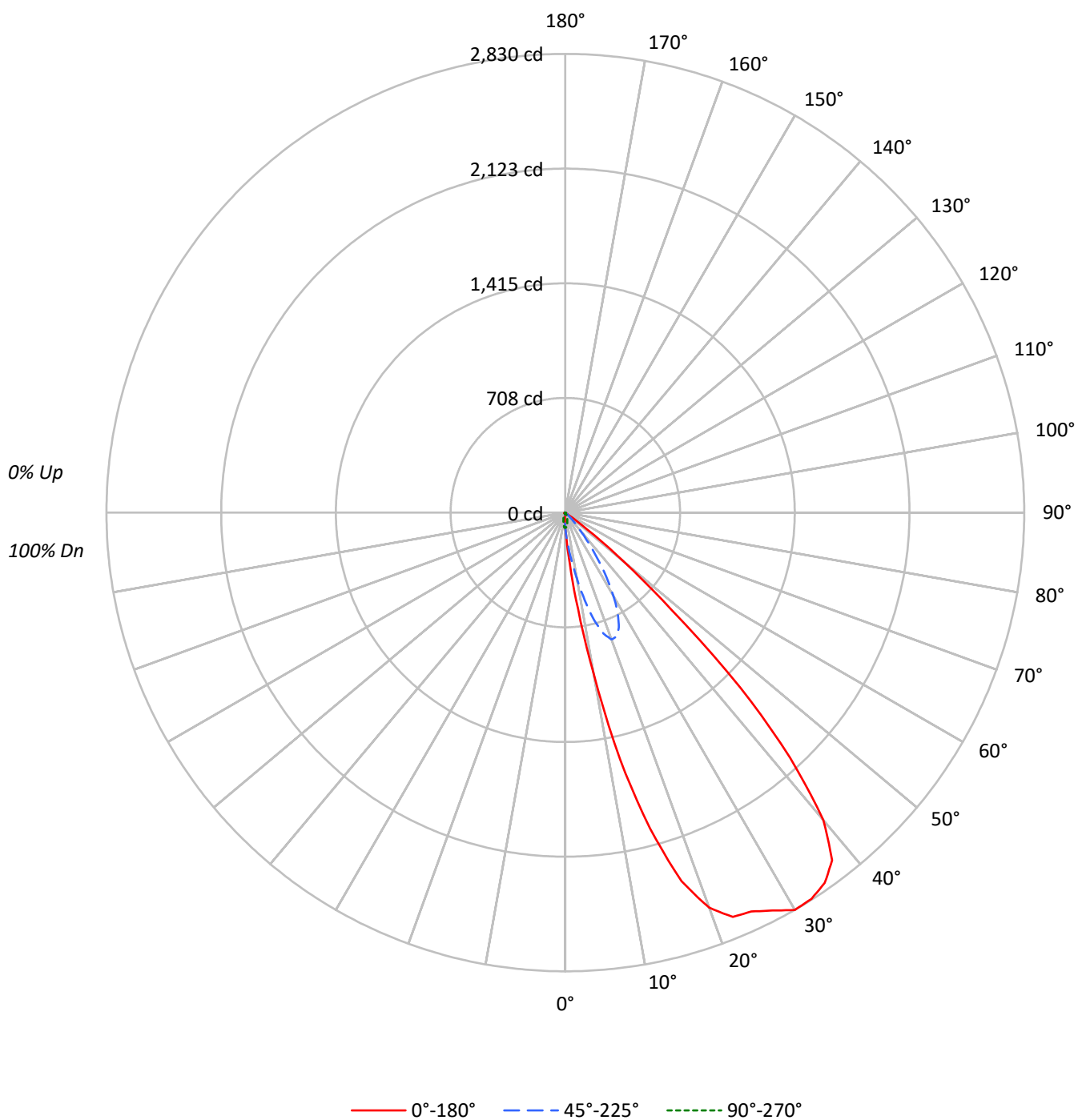
Lumens per Lamp: N/A  
Luminaire Lumens: 890.0 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 91  | 82  | 76  | 71  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |
| 10  | 62  | 50  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 16103  | 16103  | 16103 | 16103 | 16103 |
| 5°  | 54838  | 35631  | 15058 | 6362  | 4702  |
| 10° | 176453 | 72225  | 11874 | 2378  | 1539  |
| 15° | 359538 | 122509 | 8398  | 856   | 571   |
| 20° | 475435 | 152577 | 5425  | 293   | 293   |
| 25° | 515865 | 148316 | 3040  | 152   | 304   |
| 30° | 562750 | 118206 | 1273  | 159   | 318   |
| 35° | 586373 | 73565  | 336   | 168   | 336   |
| 40° | 556454 | 32149  | 180   | 360   | 540   |
| 45° | 371453 | 12836  | 195   | 585   | 974   |
| 50° | 124588 | 2143   | 429   | 857   | 1286  |
| 55° | 6966   | 240    | 480   | 1201  | 1681  |
| 60° | 551    | 276    | 827   | 1378  | 1929  |
| 65° | 652    | 326    | 978   | 1630  | 2282  |
| 70° | 403    | 403    | 1209  | 2014  | 2417  |
| 75° | 532    | 532    | 1597  | 2129  | 2662  |
| 80° | 0      | 793    | 2380  | 2380  | 2380  |
| 85° | 0      | 1581   | 4742  | 1581  | 3162  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 371453 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.2   | 1.8       |
| 10°-20°   | 127.8  | 14.4      |
| 20°-30°   | 269.8  | 30.3      |
| 30°-40°   | 306.1  | 34.4      |
| 40°-50°   | 150.7  | 16.9      |
| 50°-60°   | 13.1   | 1.5       |
| 60°-70°   | 2.7    | 0.3       |
| 70°-80°   | 2.5    | 0.3       |
| 80°-90°   | 1.2    | 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°    | 413.8  | 46.5      |
| 0°-40°    | 720.0  | 80.9      |
| 0°-60°    | 883.7  | 99.3      |
| 0°-90°    | 890.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 890.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 94   | 94  | 94  | 94   | 94   |      |
| 5°  | 317  | 206 | 87  | 37   | 27   | 52   |
| 15° | 2016 | 687 | 47  | 5    | 3    | 573  |
| 25° | 2715 | 780 | 16  | 1    | 2    | 1263 |
| 35° | 2789 | 350 | 2   | 1    | 2    | 1719 |
| 45° | 1525 | 53  | 1   | 2    | 4    | 1127 |
| 55° | 23   | 1   | 2   | 4    | 6    | 91   |
| 65° | 2    | 1   | 2   | 4    | 6    | 1    |
| 75° | 1    | 1   | 2   | 3    | 4    | 1    |
| 85° | 0    | 1   | 2   | 1    | 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°    | 93.5   | 93.5   | 93.5   | 93.5   | 93.5   | 93.5   | 93.5   | 93.5   | 93.5   | 93.5  | 93.5  |
| 2.5°  | 162.2  | 166.2  | 164.6  | 163.8  | 163.0  | 159.8  | 152.6  | 151.8  | 144.6  | 139.8 | 115.8 |
| 5°    | 317.2  | 310.8  | 312.4  | 303.6  | 292.4  | 276.4  | 266.0  | 243.7  | 225.3  | 206.1 | 135.0 |
| 7.5°  | 597.6  | 588.8  | 572.0  | 546.5  | 520.1  | 485.7  | 433.8  | 392.3  | 344.3  | 298.8 | 150.2 |
| 10°   | 1009.0 | 1004.2 | 982.7  | 917.2  | 859.6  | 767.8  | 681.5  | 590.4  | 500.9  | 413.0 | 160.6 |
| 12.5° | 1558.7 | 1525.9 | 1486.8 | 1399.7 | 1286.3 | 1171.2 | 1001.0 | 843.7  | 700.7  | 553.7 | 161.4 |
| 15°   | 2016.5 | 1995.7 | 1940.6 | 1827.1 | 1690.5 | 1524.3 | 1322.2 | 1110.5 | 894.8  | 687.1 | 153.4 |
| 17.5° | 2384.8 | 2352.8 | 2281.7 | 2170.7 | 2013.3 | 1797.6 | 1561.1 | 1303.0 | 1040.2 | 782.1 | 139.8 |
| 20°   | 2594.1 | 2577.3 | 2523.0 | 2411.9 | 2240.2 | 2004.5 | 1735.3 | 1434.9 | 1131.3 | 832.5 | 122.2 |
| 22.5° | 2699.6 | 2687.6 | 2647.6 | 2558.9 | 2398.4 | 2161.1 | 1852.7 | 1503.6 | 1157.6 | 826.9 | 103.9 |
| 25°   | 2714.7 | 2711.5 | 2677.2 | 2610.1 | 2475.9 | 2241.0 | 1903.8 | 1516.4 | 1136.1 | 780.5 | 86.3  |
| 27.5° | 2767.5 | 2756.3 | 2715.5 | 2648.4 | 2513.4 | 2254.6 | 1886.3 | 1472.4 | 1066.6 | 699.1 | 71.9  |
| 30°   | 2829.8 | 2821.8 | 2781.0 | 2711.5 | 2551.8 | 2241.8 | 1823.9 | 1374.9 | 955.5  | 594.4 | 53.5  |
| 32.5° | 2825.0 | 2821.8 | 2787.4 | 2713.9 | 2524.6 | 2166.7 | 1712.9 | 1228.7 | 804.5  | 469.0 | 33.6  |
| 35°   | 2789.0 | 2777.8 | 2734.7 | 2621.3 | 2369.6 | 1973.3 | 1502.0 | 1030.6 | 636.7  | 349.9 | 21.6  |
| 37.5° | 2702.7 | 2678.8 | 2606.1 | 2413.5 | 2092.4 | 1675.3 | 1223.1 | 795.7  | 450.6  | 234.1 | 13.6  |
| 40°   | 2475.1 | 2444.7 | 2298.5 | 2066.0 | 1729.7 | 1319.8 | 910.0  | 547.3  | 297.2  | 143.0 | 5.6   |
| 42.5° | 2053.2 | 1991.7 | 1845.5 | 1606.6 | 1291.1 | 933.1  | 597.6  | 354.7  | 175.0  | 86.3  | 1.6   |
| 45°   | 1525.1 | 1478.0 | 1324.6 | 1108.1 | 846.1  | 598.4  | 361.9  | 191.7  | 96.7   | 52.7  | 0.8   |
| 47.5° | 888.4  | 859.6  | 780.5  | 638.3  | 467.4  | 314.0  | 185.3  | 103.1  | 56.7   | 25.6  | 0.8   |
| 50°   | 465.0  | 429.0  | 369.1  | 279.6  | 206.1  | 144.6  | 90.3   | 55.1   | 28.0   | 8.0   | 0.8   |
| 52.5° | 163.0  | 160.6  | 146.2  | 110.3  | 89.5   | 64.7   | 43.9   | 24.0   | 8.0    | 1.6   | 0.8   |
| 55°   | 23.2   | 23.2   | 21.6   | 24.0   | 25.6   | 23.2   | 15.2   | 6.4    | 1.6    | 0.8   | 0.8   |
| 57.5° | 1.6    | 1.6    | 1.6    | 2.4    | 3.2    | 3.2    | 2.4    | 0.8    | 0.8    | 0.8   | 1.6   |
| 60°   | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 62.5° | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 65°   | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 70°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 75°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 77.5° | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 1.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 1.6   |
| 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°    | 93.5 | 93.5   | 93.5 | 93.5   | 93.5 |
| 2.5°  | 92.7 | 74.3   | 59.1 | 51.9   | 49.5 |
| 5°    | 87.1 | 55.9   | 36.8 | 28.8   | 27.2 |
| 7.5°  | 77.5 | 39.9   | 22.4 | 16.0   | 15.2 |
| 10°   | 67.9 | 28.8   | 13.6 | 9.6    | 8.8  |
| 12.5° | 56.7 | 20.0   | 8.8  | 5.6    | 4.8  |
| 15°   | 47.1 | 13.6   | 4.8  | 4.0    | 3.2  |
| 17.5° | 37.5 | 8.8    | 3.2  | 2.4    | 3.2  |
| 20°   | 29.6 | 5.6    | 1.6  | 1.6    | 1.6  |
| 22.5° | 22.4 | 3.2    | 1.6  | 1.6    | 1.6  |
| 25°   | 16.0 | 1.6    | 0.8  | 0.8    | 1.6  |
| 27.5° | 11.2 | 0.8    | 0.8  | 0.8    | 1.6  |
| 30°   | 6.4  | 0.8    | 0.8  | 0.8    | 1.6  |
| 32.5° | 3.2  | 0.8    | 0.8  | 1.6    | 1.6  |
| 35°   | 1.6  | 0.8    | 0.8  | 1.6    | 1.6  |
| 37.5° | 0.8  | 0.8    | 0.8  | 1.6    | 2.4  |
| 40°   | 0.8  | 0.8    | 1.6  | 2.4    | 2.4  |
| 42.5° | 0.8  | 0.8    | 1.6  | 2.4    | 3.2  |
| 45°   | 0.8  | 1.6    | 2.4  | 3.2    | 4.0  |
| 47.5° | 1.6  | 1.6    | 3.2  | 4.0    | 4.8  |
| 50°   | 1.6  | 2.4    | 3.2  | 4.8    | 4.8  |
| 52.5° | 1.6  | 2.4    | 4.0  | 4.8    | 5.6  |
| 55°   | 1.6  | 3.2    | 4.0  | 5.6    | 5.6  |
| 57.5° | 2.4  | 3.2    | 4.0  | 5.6    | 5.6  |
| 60°   | 2.4  | 3.2    | 4.0  | 5.6    | 5.6  |
| 62.5° | 2.4  | 3.2    | 4.0  | 5.6    | 5.6  |
| 65°   | 2.4  | 3.2    | 4.0  | 5.6    | 5.6  |
| 67.5° | 2.4  | 3.2    | 4.0  | 4.8    | 5.6  |
| 70°   | 2.4  | 3.2    | 4.0  | 4.8    | 4.8  |
| 72.5° | 3.2  | 3.2    | 4.0  | 4.8    | 4.8  |
| 75°   | 2.4  | 3.2    | 3.2  | 4.0    | 4.0  |
| 77.5° | 2.4  | 2.4    | 2.4  | 3.2    | 3.2  |
| 80°   | 2.4  | 2.4    | 2.4  | 2.4    | 2.4  |
| 82.5° | 2.4  | 1.6    | 1.6  | 2.4    | 2.4  |
| 85°   | 2.4  | 1.6    | 0.8  | 1.6    | 1.6  |
| 87.5° | 1.6  | 1.6    | 0.8  | 0.8    | 0.8  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)