

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: P1346067

Luminaire Tested: P3A13R409740DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1346067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R409740DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

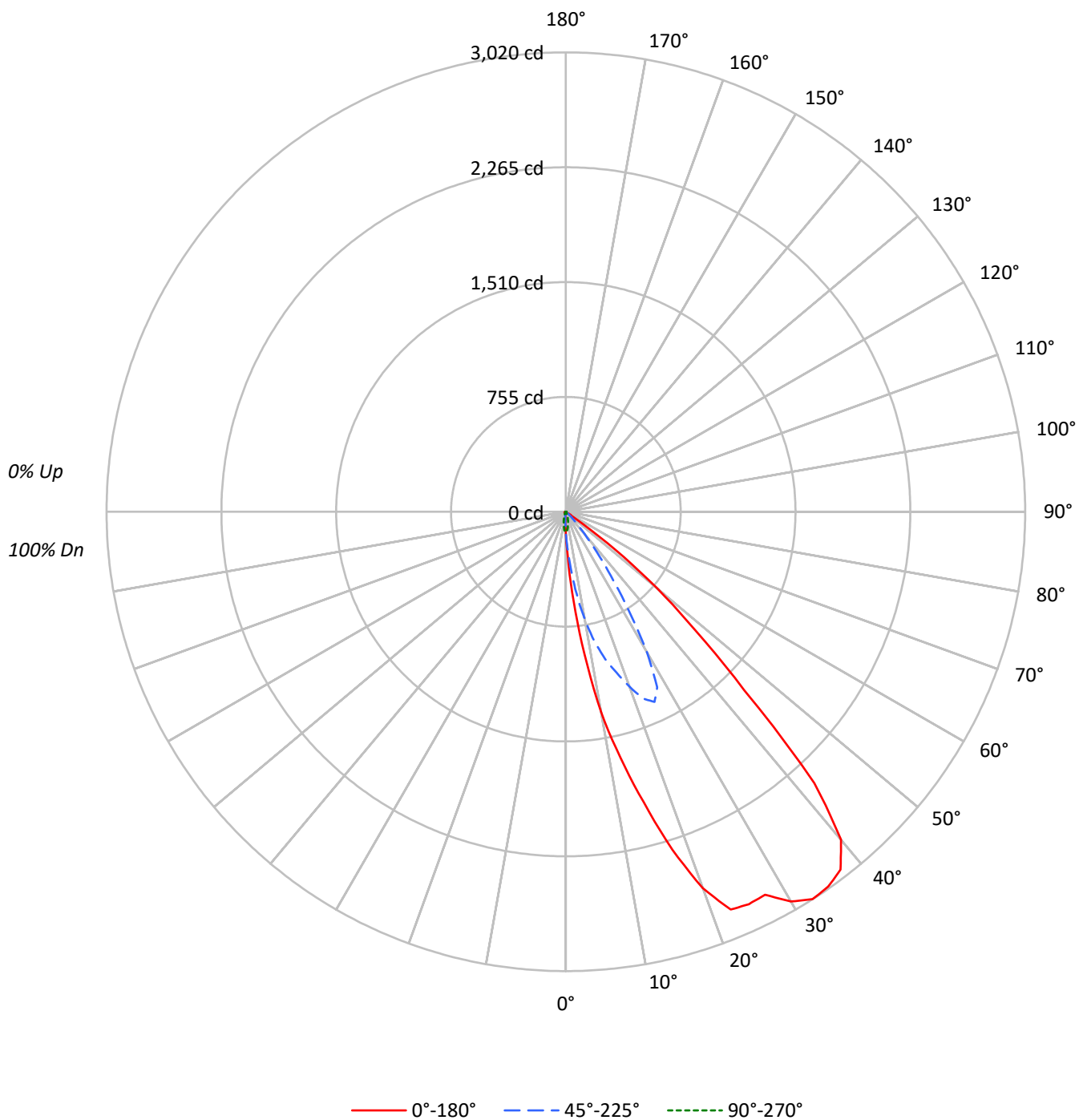
Lumens per Lamp: N/A  
Luminaire Lumens: 1114.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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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CATALOG NUMBER: P3A13R409740DE010 E3CA301MW

### 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°  | 28901  | 28901  | 28901 | 28901 | 28901 |
| 5°  | 130354 | 83117  | 25908 | 9949  | 7264  |
| 10° | 298948 | 160585 | 18236 | 3563  | 2716  |
| 15° | 448652 | 227856 | 11328 | 1930  | 1703  |
| 20° | 614303 | 285625 | 6581  | 1097  | 1307  |
| 25° | 688661 | 333721 | 3411  | 919   | 1137  |
| 30° | 749052 | 269383 | 1418  | 709   | 1190  |
| 35° | 805031 | 137862 | 509   | 1017  | 1499  |
| 40° | 805309 | 54989  | 258   | 1088  | 1889  |
| 45° | 514162 | 18390  | 589   | 1737  | 2636  |
| 50° | 266908 | 2252   | 955   | 2252  | 3207  |
| 55° | 23053  | 344    | 1070  | 2867  | 3976  |
| 60° | 833    | 395    | 1228  | 3289  | 4561  |
| 65° | 986    | 467    | 1972  | 3424  | 4877  |
| 70° | 577    | 577    | 2436  | 3590  | 4809  |
| 75° | 763    | 763    | 2372  | 3982  | 5592  |
| 80° | 1137   | 1137   | 3536  | 3536  | 4799  |
| 85° | 0      | 2264   | 7045  | 4780  | 4780  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 514162 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.7   | 2.3       |
| 10°-20°   | 150.8  | 13.5      |
| 20°-30°   | 330.2  | 29.6      |
| 30°-40°   | 376.2  | 33.8      |
| 40°-50°   | 198.5  | 17.8      |
| 50°-60°   | 23.4   | 2.1       |
| 60°-70°   | 4.2    | 0.4       |
| 70°-80°   | 3.4    | 0.3       |
| 80°-90°   | 1.6    | 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°    | 506.7  | 45.5      |
| 0°-40°    | 882.9  | 79.3      |
| 0°-60°    | 1104.7 | 99.2      |
| 0°-90°    | 1114.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1114.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 132  | 132  | 132 | 132  | 132  |      |
| 5°  | 592  | 378  | 118 | 45   | 33   | 80   |
| 15° | 1976 | 1004 | 50  | 8    | 8    | 582  |
| 25° | 2846 | 1379 | 14  | 4    | 5    | 1311 |
| 35° | 3007 | 515  | 2   | 4    | 6    | 1864 |
| 45° | 1658 | 59   | 2   | 6    | 8    | 1337 |
| 55° | 60   | 1    | 3   | 8    | 10   | 187  |
| 65° | 2    | 1    | 4   | 7    | 9    | 2    |
| 75° | 1    | 1    | 3   | 5    | 7    | 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°    | 131.8  | 131.8  | 131.8  | 131.8  | 131.8  | 131.8  | 131.8  | 131.8  | 131.8  | 131.8  | 131.8 |
| 2.5°  | 293.8  | 293.8  | 292.8  | 284.3  | 283.4  | 282.5  | 267.4  | 263.6  | 245.7  | 233.5  | 177.9 |
| 5°    | 592.2  | 579.0  | 578.1  | 563.0  | 537.6  | 503.7  | 482.1  | 447.2  | 413.3  | 377.6  | 219.4 |
| 7.5°  | 943.4  | 954.7  | 923.6  | 907.6  | 851.1  | 810.7  | 748.5  | 693.9  | 617.6  | 546.1  | 253.3 |
| 10°   | 1342.6 | 1322.9 | 1291.8 | 1260.7 | 1199.5 | 1127.0 | 1034.7 | 937.8  | 827.6  | 721.2  | 272.1 |
| 12.5° | 1654.3 | 1628.9 | 1610.0 | 1567.7 | 1507.4 | 1414.2 | 1304.0 | 1174.1 | 1028.2 | 874.7  | 271.2 |
| 15°   | 1976.3 | 1950.9 | 1908.5 | 1870.8 | 1781.4 | 1676.9 | 1557.3 | 1385.9 | 1207.0 | 1003.7 | 251.4 |
| 17.5° | 2330.3 | 2297.3 | 2250.3 | 2192.8 | 2106.2 | 1990.4 | 1838.8 | 1629.8 | 1376.5 | 1109.1 | 215.6 |
| 20°   | 2632.5 | 2612.8 | 2565.7 | 2497.9 | 2413.1 | 2300.2 | 2125.0 | 1893.4 | 1584.6 | 1224.0 | 171.4 |
| 22.5° | 2830.2 | 2812.4 | 2780.3 | 2721.0 | 2657.0 | 2536.5 | 2376.4 | 2122.2 | 1758.8 | 1328.5 | 129.9 |
| 25°   | 2846.3 | 2838.7 | 2830.2 | 2810.5 | 2771.9 | 2686.2 | 2529.9 | 2255.9 | 1867.1 | 1379.3 | 96.0  |
| 27.5° | 2837.8 | 2835.0 | 2833.1 | 2822.7 | 2797.3 | 2712.6 | 2552.5 | 2275.7 | 1852.9 | 1300.3 | 70.6  |
| 30°   | 2958.3 | 2949.8 | 2945.1 | 2911.2 | 2844.4 | 2713.5 | 2504.5 | 2169.3 | 1646.7 | 1063.9 | 50.8  |
| 32.5° | 3019.5 | 3017.6 | 3012.9 | 2980.0 | 2885.8 | 2715.4 | 2423.5 | 1912.3 | 1305.9 | 768.3  | 34.8  |
| 35°   | 3007.3 | 2997.8 | 2980.9 | 2919.7 | 2788.8 | 2575.1 | 2161.8 | 1527.2 | 942.5  | 515.0  | 22.6  |
| 37.5° | 2965.8 | 2944.2 | 2911.2 | 2801.1 | 2626.9 | 2335.0 | 1753.1 | 1124.2 | 641.2  | 333.3  | 13.2  |
| 40°   | 2813.3 | 2784.1 | 2732.3 | 2597.7 | 2368.9 | 1924.5 | 1296.5 | 759.8  | 420.9  | 192.1  | 3.8   |
| 42.5° | 2418.8 | 2381.1 | 2343.5 | 2192.8 | 1931.1 | 1434.9 | 853.0  | 469.8  | 240.1  | 105.5  | 0.9   |
| 45°   | 1658.0 | 1611.0 | 1559.2 | 1450.0 | 1240.0 | 869.0  | 507.5  | 264.6  | 124.3  | 59.3   | 0.9   |
| 47.5° | 1151.5 | 1129.8 | 1039.5 | 900.1  | 690.1  | 460.4  | 262.7  | 129.9  | 65.9   | 27.3   | 0.9   |
| 50°   | 782.4  | 757.9  | 652.5  | 517.8  | 367.2  | 220.3  | 120.5  | 65.0   | 29.2   | 6.6    | 0.9   |
| 52.5° | 410.5  | 380.4  | 313.5  | 239.1  | 148.8  | 92.3   | 52.7   | 28.2   | 8.5    | 0.9    | 0.9   |
| 55°   | 60.3   | 55.6   | 45.2   | 36.7   | 33.0   | 25.4   | 15.1   | 6.6    | 0.9    | 0.9    | 1.9   |
| 57.5° | 1.9    | 1.9    | 1.9    | 1.9    | 2.8    | 2.8    | 1.9    | 0.9    | 0.9    | 0.9    | 1.9   |
| 60°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9   |
| 62.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9   |
| 65°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9   |
| 67.5° | 1.9    | 1.9    | 1.9    | 1.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9    | 2.8   |
| 70°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 2.8   |
| 72.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9    | 2.8   |
| 75°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 2.8   |
| 77.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9    | 2.8   |
| 80°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 2.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 1.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 1.9   |
| 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):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 131.8 | 131.8  | 131.8 | 131.8  | 131.8 |
| 2.5°  | 129.9 | 96.0   | 74.4  | 64.0   | 63.1  |
| 5°    | 117.7 | 68.7   | 45.2  | 34.8   | 33.0  |
| 7.5°  | 99.8  | 48.0   | 26.4  | 18.8   | 17.9  |
| 10°   | 81.9  | 33.0   | 16.0  | 13.2   | 12.2  |
| 12.5° | 65.0  | 21.7   | 11.3  | 10.4   | 9.4   |
| 15°   | 49.9  | 14.1   | 8.5   | 7.5    | 7.5   |
| 17.5° | 37.7  | 9.4    | 6.6   | 6.6    | 6.6   |
| 20°   | 28.2  | 6.6    | 4.7   | 5.6    | 5.6   |
| 22.5° | 19.8  | 4.7    | 3.8   | 4.7    | 4.7   |
| 25°   | 14.1  | 3.8    | 3.8   | 4.7    | 4.7   |
| 27.5° | 9.4   | 2.8    | 2.8   | 3.8    | 4.7   |
| 30°   | 5.6   | 1.9    | 2.8   | 3.8    | 4.7   |
| 32.5° | 2.8   | 1.9    | 2.8   | 4.7    | 4.7   |
| 35°   | 1.9   | 2.8    | 3.8   | 4.7    | 5.6   |
| 37.5° | 0.9   | 2.8    | 3.8   | 5.6    | 5.6   |
| 40°   | 0.9   | 2.8    | 3.8   | 5.6    | 6.6   |
| 42.5° | 1.9   | 3.8    | 4.7   | 6.6    | 7.5   |
| 45°   | 1.9   | 3.8    | 5.6   | 7.5    | 8.5   |
| 47.5° | 1.9   | 3.8    | 6.6   | 8.5    | 8.5   |
| 50°   | 2.8   | 4.7    | 6.6   | 8.5    | 9.4   |
| 52.5° | 2.8   | 4.7    | 6.6   | 9.4    | 10.4  |
| 55°   | 2.8   | 4.7    | 7.5   | 9.4    | 10.4  |
| 57.5° | 2.8   | 5.6    | 7.5   | 9.4    | 10.4  |
| 60°   | 2.8   | 4.7    | 7.5   | 9.4    | 10.4  |
| 62.5° | 3.8   | 4.7    | 6.6   | 9.4    | 9.4   |
| 65°   | 3.8   | 4.7    | 6.6   | 9.4    | 9.4   |
| 67.5° | 3.8   | 4.7    | 6.6   | 8.5    | 8.5   |
| 70°   | 3.8   | 4.7    | 5.6   | 7.5    | 7.5   |
| 72.5° | 3.8   | 4.7    | 5.6   | 6.6    | 7.5   |
| 75°   | 2.8   | 3.8    | 4.7   | 5.6    | 6.6   |
| 77.5° | 2.8   | 3.8    | 3.8   | 5.6    | 5.6   |
| 80°   | 2.8   | 2.8    | 2.8   | 3.8    | 3.8   |
| 82.5° | 2.8   | 2.8    | 1.9   | 2.8    | 2.8   |
| 85°   | 2.8   | 1.9    | 1.9   | 1.9    | 1.9   |
| 87.5° | 1.9   | 1.9    | 0.9   | 0.9    | 0.9   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)