

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: P1337823

Luminaire Tested: P3A05R309030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R309030D2WDE010 E3CA301MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

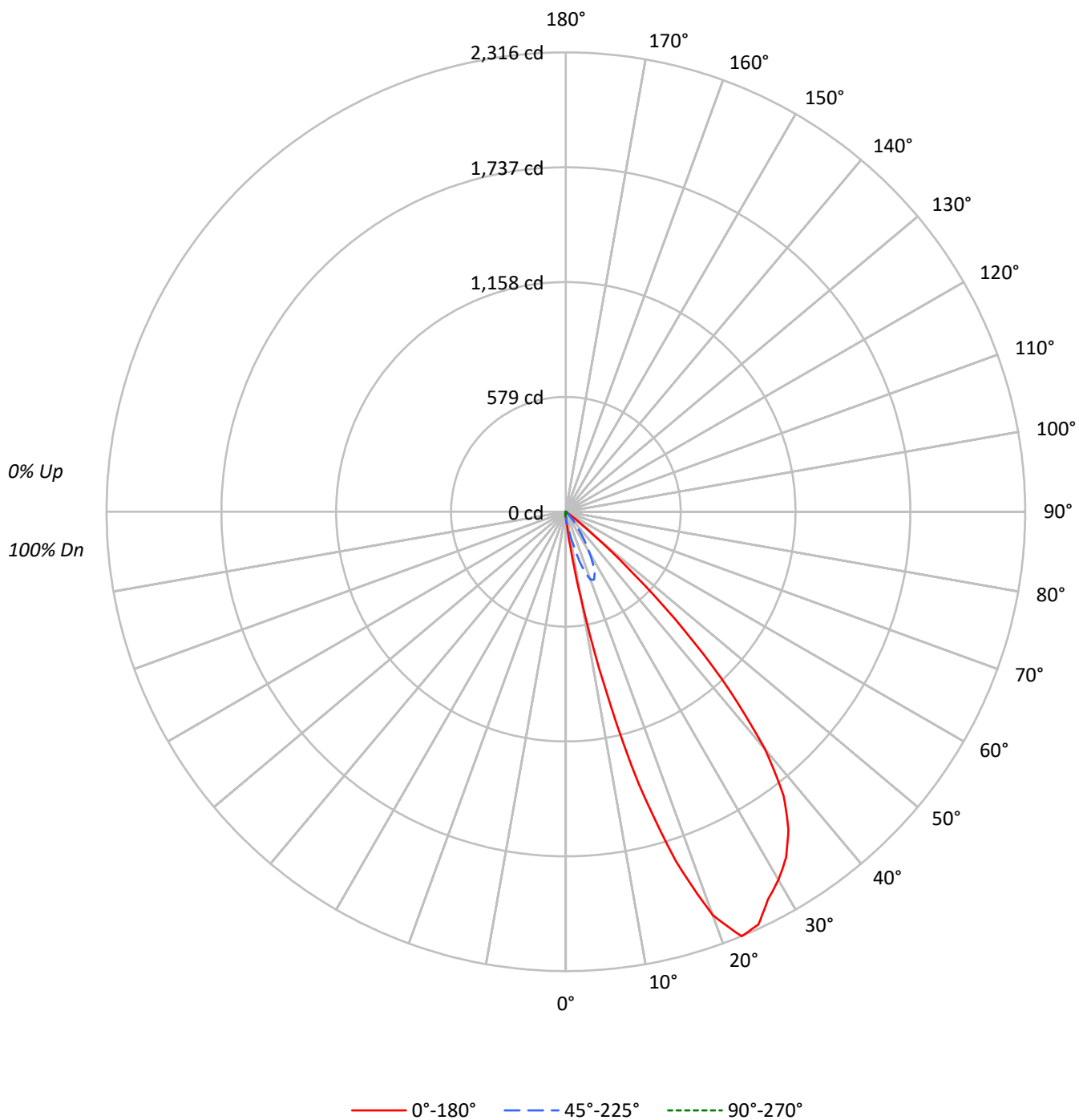
Lumens per Lamp: N/A  
Luminaire Lumens: 546.0 lumens  
Efficiency: N/A  
Efficacy: 49.2 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 69  | 69  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  | 43  | 43  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5679   | 5679  | 5679 | 5679 | 5679 |
| 5°  | 17125  | 11424 | 5371 | 2421 | 1981 |
| 10° | 99197  | 24226 | 4231 | 1113 | 779  |
| 15° | 322681 | 54938 | 2951 | 227  | 114  |
| 20° | 504931 | 84987 | 1867 | 0    | 0    |
| 25° | 555516 | 83061 | 968  | 0    | 0    |
| 30° | 542590 | 59883 | 380  | 0    | 0    |
| 35° | 523686 | 34050 | 134  | 0    | 0    |
| 40° | 446580 | 14427 | 0    | 0    | 0    |
| 45° | 262105 | 5427  | 155  | 0    | 155  |
| 50° | 63657  | 1023  | 171  | 171  | 512  |
| 55° | 5543   | 0     | 382  | 573  | 765  |
| 60° | 219    | 0     | 439  | 658  | 1096 |
| 65° | 259    | 259   | 778  | 778  | 1297 |
| 70° | 321    | 321   | 962  | 962  | 1282 |
| 75° | 0      | 424   | 1271 | 1271 | 1271 |
| 80° | 0      | 631   | 1894 | 1263 | 1263 |
| 85° | 0      | 1258  | 3774 | 1258 | 1258 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 262105 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.8    | 0.9       |
| 10°-20°   | 75.0   | 13.7      |
| 20°-30°   | 190.7  | 34.9      |
| 30°-40°   | 190.1  | 34.8      |
| 40°-50°   | 77.0   | 14.1      |
| 50°-60°   | 5.3    | 1.0       |
| 60°-70°   | 1.2    | 0.2       |
| 70°-80°   | 1.2    | 0.2       |
| 80°-90°   | 0.7    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 270.5  | 49.5      |
| 0°-40°    | 460.6  | 84.4      |
| 0°-60°    | 542.9  | 99.4      |
| 0°-90°    | 546.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 546.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 26   | 26  | 26  | 26   | 26   |      |
| 5°  | 78   | 52  | 24  | 11   | 9    | 18   |
| 15° | 1421 | 242 | 13  | 1    | 0    | 414  |
| 25° | 2296 | 343 | 4   | 0    | 0    | 1037 |
| 35° | 1956 | 127 | 0   | 0    | 0    | 1199 |
| 45° | 845  | 18  | 0   | 0    | 0    | 645  |
| 55° | 14   | 0   | 1   | 2    | 2    | 38   |
| 65° | 0    | 0   | 2   | 2    | 2    | 0    |
| 75° | 0    | 0   | 2   | 2    | 2    | 0    |
| 85° | 0    | 0   | 2   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1337823

CATALOG NUMBER: P3A05R309030D2WDE010 E3CA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°   | 40°   | 45°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9  | 25.9  | 25.9  | 25.9  |
| 2.5°  | 42.9   | 43.4   | 43.4   | 42.4   | 41.9   | 41.9   | 40.4   | 39.9  | 38.4  | 36.9  | 31.9  |
| 5°    | 77.8   | 76.3   | 74.3   | 74.3   | 69.8   | 67.4   | 63.9   | 59.9  | 56.9  | 51.9  | 36.9  |
| 7.5°  | 176.6  | 164.6  | 161.2  | 156.7  | 139.7  | 126.2  | 110.8  | 97.3  | 84.8  | 74.3  | 40.9  |
| 10°   | 445.5  | 422.1  | 402.6  | 363.2  | 313.8  | 266.4  | 222.5  | 171.6 | 136.7 | 108.8 | 43.9  |
| 12.5° | 897.6  | 866.1  | 828.7  | 756.9  | 664.6  | 546.3  | 441.5  | 329.8 | 231.5 | 160.2 | 44.9  |
| 15°   | 1421.4 | 1368.0 | 1309.7 | 1218.4 | 1067.2 | 897.6  | 708.5  | 530.4 | 371.7 | 242.0 | 43.9  |
| 17.5° | 1848.5 | 1827.5 | 1741.2 | 1616.5 | 1431.4 | 1212.9 | 979.9  | 736.4 | 501.4 | 316.8 | 40.9  |
| 20°   | 2163.8 | 2149.3 | 2045.1 | 1912.4 | 1703.8 | 1453.4 | 1157.5 | 865.1 | 591.7 | 364.2 | 36.4  |
| 22.5° | 2316.0 | 2313.5 | 2238.2 | 2102.4 | 1881.4 | 1597.5 | 1271.7 | 939.5 | 619.7 | 370.7 | 30.4  |
| 25°   | 2296.0 | 2305.0 | 2262.1 | 2161.3 | 1949.3 | 1656.9 | 1305.7 | 939.5 | 599.2 | 343.3 | 25.4  |
| 27.5° | 2205.2 | 2211.2 | 2184.3 | 2106.9 | 1909.4 | 1614.0 | 1258.3 | 879.1 | 539.8 | 294.9 | 21.0  |
| 30°   | 2142.9 | 2145.4 | 2111.9 | 2029.1 | 1819.6 | 1516.2 | 1146.5 | 767.3 | 450.0 | 236.5 | 15.5  |
| 32.5° | 2067.0 | 2066.5 | 2027.6 | 1932.8 | 1701.8 | 1379.0 | 1004.8 | 634.1 | 345.8 | 179.6 | 9.0   |
| 35°   | 1956.3 | 1943.8 | 1890.9 | 1781.6 | 1526.2 | 1194.4 | 823.7  | 483.0 | 249.0 | 127.2 | 5.5   |
| 37.5° | 1804.1 | 1771.7 | 1696.8 | 1550.6 | 1279.7 | 936.5  | 610.7  | 339.3 | 170.1 | 84.3  | 3.5   |
| 40°   | 1560.1 | 1525.7 | 1423.9 | 1246.3 | 967.9  | 674.0  | 411.6  | 221.0 | 107.3 | 50.4  | 2.0   |
| 42.5° | 1223.3 | 1199.9 | 1062.7 | 885.6  | 639.1  | 430.1  | 247.5  | 130.7 | 60.4  | 28.9  | 0.5   |
| 45°   | 845.2  | 814.7  | 707.0  | 556.8  | 383.7  | 238.5  | 138.7  | 68.4  | 34.4  | 17.5  | 0.0   |
| 47.5° | 466.5  | 429.1  | 366.7  | 288.4  | 193.1  | 125.2  | 69.8   | 36.9  | 19.5  | 8.5   | 0.0   |
| 50°   | 186.6  | 185.1  | 147.2  | 104.8  | 73.8   | 56.9   | 34.9   | 20.0  | 10.0  | 3.0   | 0.5   |
| 52.5° | 65.4   | 65.4   | 56.4   | 45.9   | 35.9   | 25.9   | 17.5   | 9.5   | 3.5   | 1.0   | 0.5   |
| 55°   | 14.5   | 16.0   | 15.0   | 14.0   | 13.5   | 11.5   | 7.5    | 3.5   | 1.0   | 0.0   | 0.5   |
| 57.5° | 1.5    | 1.5    | 1.5    | 2.0    | 2.5    | 2.5    | 2.0    | 1.0   | 0.0   | 0.0   | 0.5   |
| 60°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.0   | 0.0   | 0.0   | 1.0   |
| 62.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 1.0   |
| 65°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 67.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 75°   | 0.0    | 0.0    | 0.5    | 0.5    | 0.0    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 1.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 1.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 1.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1337823

CATALOG NUMBER: P3A05R309030D2WDE010 E3CA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 25.9 | 25.9   | 25.9 | 25.9   | 25.9 |
| 2.5°  | 25.9 | 20.5   | 17.0 | 15.0   | 14.5 |
| 5°    | 24.4 | 15.5   | 11.0 | 9.5    | 9.0  |
| 7.5°  | 22.0 | 11.5   | 7.5  | 6.0    | 5.5  |
| 10°   | 19.0 | 8.5    | 5.0  | 3.5    | 3.5  |
| 12.5° | 16.0 | 6.5    | 3.0  | 1.5    | 1.0  |
| 15°   | 13.0 | 4.0    | 1.0  | 0.5    | 0.5  |
| 17.5° | 10.0 | 2.5    | 0.0  | 0.0    | 0.0  |
| 20°   | 8.0  | 1.0    | 0.0  | 0.0    | 0.0  |
| 22.5° | 6.0  | 0.5    | 0.0  | 0.0    | 0.0  |
| 25°   | 4.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 2.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.5  | 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°   | 0.5  | 0.0    | 0.0  | 0.5    | 0.5  |
| 47.5° | 0.5  | 0.5    | 0.5  | 1.0    | 1.0  |
| 50°   | 0.5  | 0.5    | 0.5  | 1.0    | 1.5  |
| 52.5° | 1.0  | 0.5    | 1.0  | 1.5    | 1.5  |
| 55°   | 1.0  | 1.0    | 1.5  | 2.0    | 2.0  |
| 57.5° | 1.0  | 1.0    | 1.5  | 2.0    | 2.0  |
| 60°   | 1.0  | 1.0    | 1.5  | 2.0    | 2.5  |
| 62.5° | 1.5  | 1.5    | 1.5  | 2.0    | 2.0  |
| 65°   | 1.5  | 1.5    | 1.5  | 2.0    | 2.5  |
| 67.5° | 1.5  | 1.5    | 1.5  | 2.0    | 2.5  |
| 70°   | 1.5  | 1.5    | 1.5  | 2.0    | 2.0  |
| 72.5° | 2.0  | 1.5    | 1.5  | 2.0    | 2.0  |
| 75°   | 1.5  | 1.5    | 1.5  | 1.5    | 1.5  |
| 77.5° | 1.5  | 1.5    | 1.0  | 1.5    | 1.5  |
| 80°   | 1.5  | 1.0    | 1.0  | 1.0    | 1.0  |
| 82.5° | 1.5  | 1.0    | 1.0  | 1.0    | 1.0  |
| 85°   | 1.5  | 1.0    | 0.5  | 0.5    | 0.5  |
| 87.5° | 1.5  | 1.0    | 0.5  | 0.5    | 0.5  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)