

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: P1344947

Luminaire Tested: P3A13R309035DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344947  
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: P3A13R309035DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

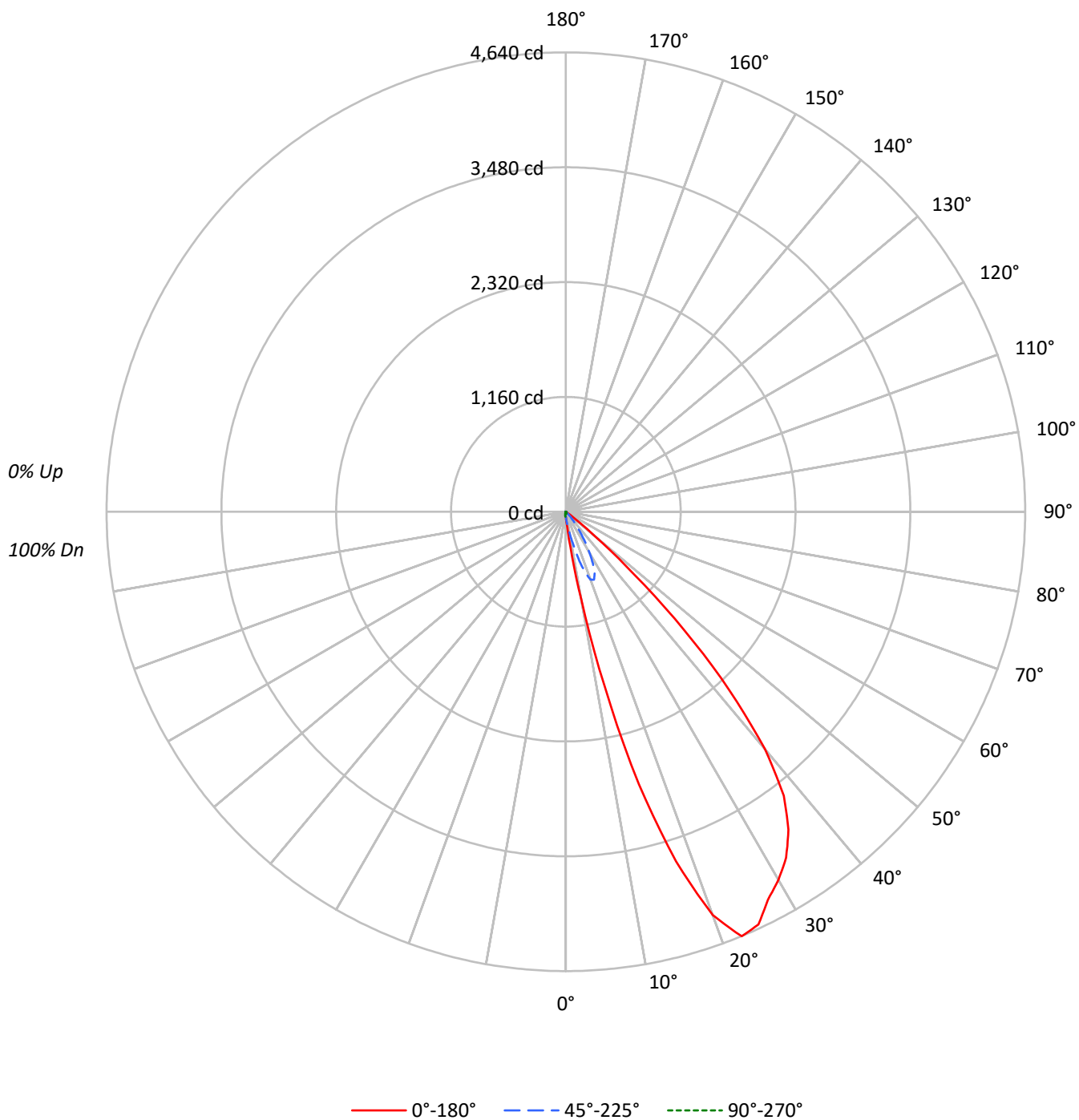
Lumens per Lamp: N/A  
Luminaire Lumens: 1094.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1344947

CATALOG NUMBER: P3A13R309035DE010 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 | 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°  | 11403   | 11403  | 11403 | 11403 | 11403 |
| 5°  | 34316   | 22892  | 10786 | 4843  | 3962  |
| 10° | 198772  | 48518  | 8461  | 2227  | 1559  |
| 15° | 646542  | 110057 | 5902  | 454   | 227   |
| 20° | 1011705 | 170301 | 3734  | 0     | 0     |
| 25° | 1113088 | 166413 | 1936  | 0     | 0     |
| 30° | 1087155 | 119968 | 760   | 0     | 0     |
| 35° | 1049273 | 68235  | 268   | 0     | 0     |
| 40° | 894819  | 28911  | 0     | 0     | 0     |
| 45° | 525140  | 10854  | 310   | 0     | 310   |
| 50° | 127552  | 2047   | 341   | 341   | 1023  |
| 55° | 11087   | 0      | 765   | 1147  | 1529  |
| 60° | 439     | 0      | 877   | 1316  | 2193  |
| 65° | 519     | 519    | 1557  | 1557  | 2594  |
| 70° | 641     | 641    | 1923  | 1923  | 2565  |
| 75° | 0       | 847    | 2542  | 2542  | 2542  |
| 80° | 0       | 1263   | 3788  | 2526  | 2526  |
| 85° | 0       | 2516   | 7548  | 2516  | 2516  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 525140 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.5    | 0.9       |
| 10°-20°   | 150.4  | 13.7      |
| 20°-30°   | 382.1  | 34.9      |
| 30°-40°   | 380.8  | 34.8      |
| 40°-50°   | 154.3  | 14.1      |
| 50°-60°   | 10.7   | 1.0       |
| 60°-70°   | 2.4    | 0.2       |
| 70°-80°   | 2.4    | 0.2       |
| 80°-90°   | 1.4    | 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°    | 542.0  | 49.5      |
| 0°-40°    | 922.9  | 84.4      |
| 0°-60°    | 1087.8 | 99.4      |
| 0°-90°    | 1094.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1094.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 52   | 52  | 52  | 52   | 52   |      |
| 5°  | 156  | 104 | 49  | 22   | 18   | 36   |
| 15° | 2848 | 485 | 26  | 2    | 1    | 829  |
| 25° | 4600 | 688 | 8   | 0    | 0    | 2077 |
| 35° | 3920 | 255 | 1   | 0    | 0    | 2403 |
| 45° | 1693 | 35  | 1   | 0    | 1    | 1292 |
| 55° | 29   | 0   | 2   | 3    | 4    | 76   |
| 65° | 1    | 1   | 3   | 3    | 5    | 1    |
| 75° | 0    | 1   | 3   | 3    | 3    | 0    |
| 85° | 0    | 1   | 3   | 1    | 1    | 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°    | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0  | 52.0  |
| 2.5°  | 86.0   | 87.0   | 87.0   | 85.0   | 84.0   | 84.0   | 81.0   | 80.0   | 77.0   | 74.0  | 64.0  |
| 5°    | 155.9  | 152.9  | 149.0  | 149.0  | 140.0  | 135.0  | 128.0  | 120.0  | 114.0  | 104.0 | 74.0  |
| 7.5°  | 353.9  | 329.9  | 322.9  | 313.9  | 279.9  | 252.9  | 221.9  | 194.9  | 169.9  | 149.0 | 82.0  |
| 10°   | 892.7  | 845.7  | 806.7  | 727.8  | 628.8  | 533.8  | 445.9  | 343.9  | 273.9  | 217.9 | 88.0  |
| 12.5° | 1798.4 | 1735.4 | 1660.4 | 1516.5 | 1331.6 | 1094.6 | 884.7  | 660.8  | 463.8  | 320.9 | 90.0  |
| 15°   | 2848.0 | 2741.1 | 2624.1 | 2441.2 | 2138.3 | 1798.4 | 1419.5 | 1062.6 | 744.8  | 484.8 | 88.0  |
| 17.5° | 3703.8 | 3661.8 | 3488.8 | 3238.9 | 2868.0 | 2430.2 | 1963.3 | 1475.5 | 1004.7 | 634.8 | 82.0  |
| 20°   | 4335.5 | 4306.6 | 4097.6 | 3831.7 | 3413.9 | 2912.0 | 2319.2 | 1733.4 | 1185.6 | 729.8 | 73.0  |
| 22.5° | 4640.4 | 4635.4 | 4484.5 | 4212.6 | 3769.7 | 3200.9 | 2548.1 | 1882.4 | 1241.6 | 742.8 | 61.0  |
| 25°   | 4600.5 | 4618.5 | 4532.5 | 4330.6 | 3905.7 | 3319.9 | 2616.1 | 1882.4 | 1200.6 | 687.8 | 51.0  |
| 27.5° | 4418.5 | 4430.5 | 4376.5 | 4221.6 | 3825.7 | 3233.9 | 2521.2 | 1761.4 | 1081.6 | 590.8 | 42.0  |
| 30°   | 4293.6 | 4298.6 | 4231.6 | 4065.6 | 3645.8 | 3038.0 | 2297.2 | 1537.5 | 901.7  | 473.8 | 31.0  |
| 32.5° | 4141.6 | 4140.6 | 4062.6 | 3872.7 | 3409.9 | 2763.1 | 2013.3 | 1270.6 | 692.8  | 359.9 | 18.0  |
| 35°   | 3919.7 | 3894.7 | 3788.7 | 3569.8 | 3058.0 | 2393.2 | 1650.4 | 967.7  | 498.8  | 254.9 | 11.0  |
| 37.5° | 3614.8 | 3549.8 | 3399.9 | 3107.0 | 2564.1 | 1876.4 | 1223.6 | 679.8  | 340.9  | 168.9 | 7.0   |
| 40°   | 3126.0 | 3057.0 | 2853.0 | 2497.2 | 1939.4 | 1350.5 | 824.7  | 442.9  | 214.9  | 101.0 | 4.0   |
| 42.5° | 2451.2 | 2404.2 | 2129.3 | 1774.4 | 1280.6 | 861.7  | 495.8  | 261.9  | 121.0  | 58.0  | 1.0   |
| 45°   | 1693.4 | 1632.5 | 1416.5 | 1115.6 | 768.7  | 477.8  | 277.9  | 137.0  | 69.0   | 35.0  | 0.0   |
| 47.5° | 934.7  | 859.7  | 734.8  | 577.8  | 386.9  | 250.9  | 140.0  | 74.0   | 39.0   | 17.0  | 0.0   |
| 50°   | 373.9  | 370.9  | 294.9  | 209.9  | 148.0  | 114.0  | 70.0   | 40.0   | 20.0   | 6.0   | 1.0   |
| 52.5° | 131.0  | 131.0  | 113.0  | 92.0   | 72.0   | 52.0   | 35.0   | 19.0   | 7.0    | 2.0   | 1.0   |
| 55°   | 29.0   | 32.0   | 30.0   | 28.0   | 27.0   | 23.0   | 15.0   | 7.0    | 2.0    | 0.0   | 1.0   |
| 57.5° | 3.0    | 3.0    | 3.0    | 4.0    | 5.0    | 5.0    | 4.0    | 2.0    | 0.0    | 0.0   | 1.0   |
| 60°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0   | 2.0   |
| 62.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0   | 2.0   |
| 65°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.0   |
| 67.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.0   |
| 70°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 3.0   |
| 72.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 3.0   |
| 75°   | 0.0    | 0.0    | 1.0    | 1.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 3.0   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0   | 2.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 2.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0   | 2.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0   | 2.0   |
| 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°    | 52.0 | 52.0   | 52.0 | 52.0   | 52.0 |
| 2.5°  | 52.0 | 41.0   | 34.0 | 30.0   | 29.0 |
| 5°    | 49.0 | 31.0   | 22.0 | 19.0   | 18.0 |
| 7.5°  | 44.0 | 23.0   | 15.0 | 12.0   | 11.0 |
| 10°   | 38.0 | 17.0   | 10.0 | 7.0    | 7.0  |
| 12.5° | 32.0 | 13.0   | 6.0  | 3.0    | 2.0  |
| 15°   | 26.0 | 8.0    | 2.0  | 1.0    | 1.0  |
| 17.5° | 20.0 | 5.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 16.0 | 2.0    | 0.0  | 0.0    | 0.0  |
| 22.5° | 12.0 | 1.0    | 0.0  | 0.0    | 0.0  |
| 25°   | 8.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 5.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 3.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.0  | 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°   | 1.0  | 0.0    | 0.0  | 1.0    | 1.0  |
| 47.5° | 1.0  | 1.0    | 1.0  | 2.0    | 2.0  |
| 50°   | 1.0  | 1.0    | 1.0  | 2.0    | 3.0  |
| 52.5° | 2.0  | 1.0    | 2.0  | 3.0    | 3.0  |
| 55°   | 2.0  | 2.0    | 3.0  | 4.0    | 4.0  |
| 57.5° | 2.0  | 2.0    | 3.0  | 4.0    | 4.0  |
| 60°   | 2.0  | 2.0    | 3.0  | 4.0    | 5.0  |
| 62.5° | 3.0  | 3.0    | 3.0  | 4.0    | 4.0  |
| 65°   | 3.0  | 3.0    | 3.0  | 4.0    | 5.0  |
| 67.5° | 3.0  | 3.0    | 3.0  | 4.0    | 5.0  |
| 70°   | 3.0  | 3.0    | 3.0  | 4.0    | 4.0  |
| 72.5° | 4.0  | 3.0    | 3.0  | 4.0    | 4.0  |
| 75°   | 3.0  | 3.0    | 3.0  | 3.0    | 3.0  |
| 77.5° | 3.0  | 3.0    | 2.0  | 3.0    | 3.0  |
| 80°   | 3.0  | 2.0    | 2.0  | 2.0    | 2.0  |
| 82.5° | 3.0  | 2.0    | 2.0  | 2.0    | 2.0  |
| 85°   | 3.0  | 2.0    | 1.0  | 1.0    | 1.0  |
| 87.5° | 3.0  | 2.0    | 1.0  | 1.0    | 1.0  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)