

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: P1308954

Luminaire Tested: P3SQAS09R309035DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R309035DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

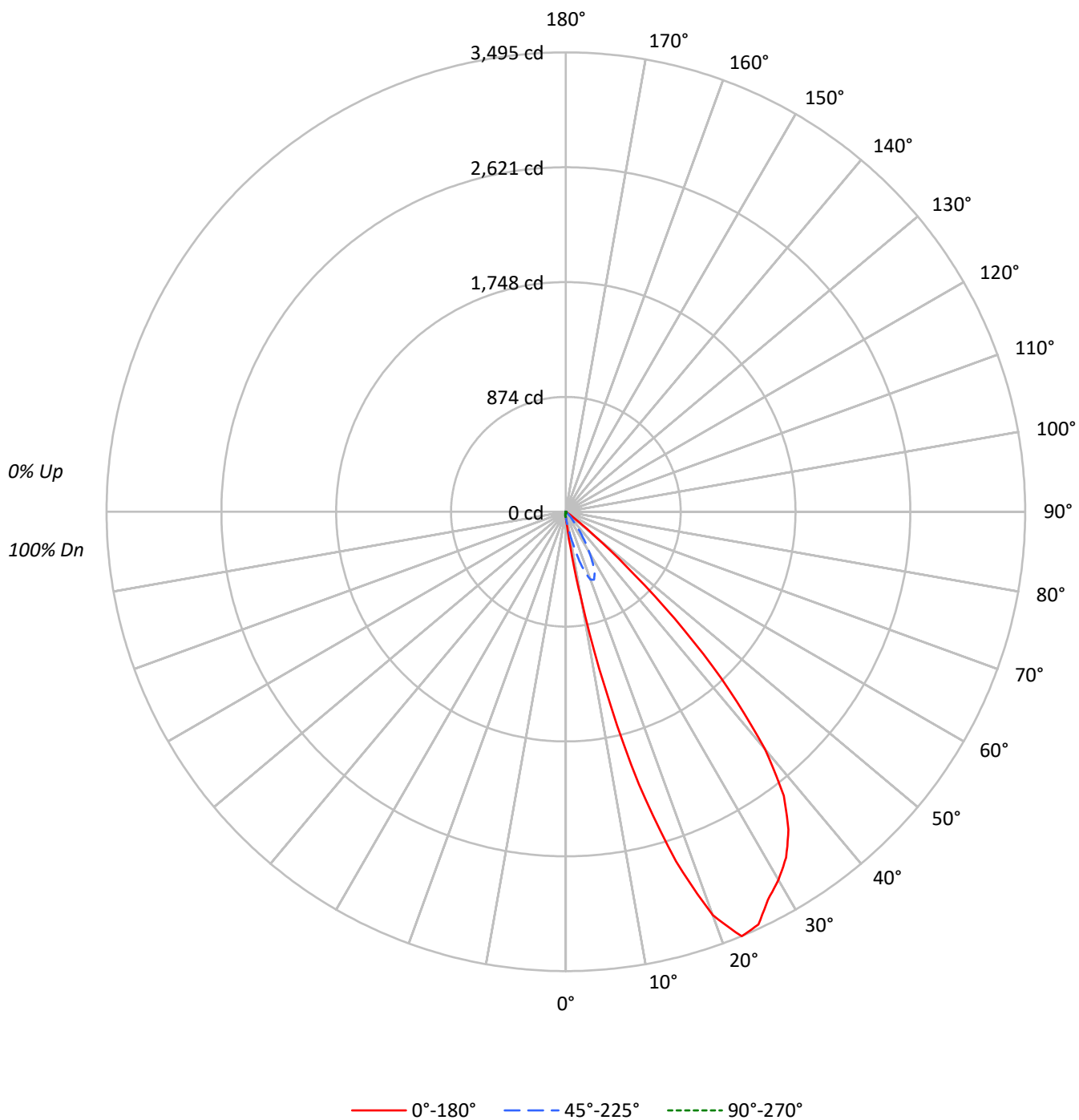
Lumens per Lamp: N/A  
Luminaire Lumens: 824.1 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  |
| 9   | 66  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  |

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

|     | 0°     | 45°    | 90°  | 135° | 180° |
|-----|--------|--------|------|------|------|
| 0°  | 6751   | 6751   | 6751 | 6751 | 6751 |
| 5°  | 20313  | 13537  | 6379 | 2870 | 2351 |
| 10° | 117589 | 28698  | 5002 | 1312 | 927  |
| 15° | 382467 | 65114  | 3495 | 267  | 143  |
| 20° | 598486 | 100747 | 2199 | 0    | 0    |
| 25° | 658461 | 98434  | 1140 | 0    | 0    |
| 30° | 643111 | 70975  | 457  | 0    | 0    |
| 35° | 620706 | 40367  | 168  | 0    | 0    |
| 40° | 529340 | 17086  | 0    | 0    | 0    |
| 45° | 310660 | 6430   | 195  | 0    | 195  |
| 50° | 75449  | 1206   | 214  | 214  | 616  |
| 55° | 6546   | 0      | 450  | 691  | 901  |
| 60° | 276    | 0      | 517  | 792  | 1309 |
| 65° | 326    | 326    | 937  | 937  | 1549 |
| 70° | 403    | 403    | 1158 | 1158 | 1511 |
| 75° | 0      | 532    | 1530 | 1530 | 1530 |
| 80° | 0      | 793    | 2281 | 1488 | 1488 |
| 85° | 0      | 1581   | 4545 | 1581 | 1581 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 310660 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.2    | 0.9       |
| 10°-20°   | 113.3  | 13.7      |
| 20°-30°   | 287.8  | 34.9      |
| 30°-40°   | 286.9  | 34.8      |
| 40°-50°   | 116.2  | 14.1      |
| 50°-60°   | 8.0    | 1.0       |
| 60°-70°   | 1.8    | 0.2       |
| 70°-80°   | 1.8    | 0.2       |
| 80°-90°   | 1.1    | 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°    | 408.2  | 49.5      |
| 0°-40°    | 695.1  | 84.3      |
| 0°-60°    | 819.4  | 99.4      |
| 0°-90°    | 824.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 824.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 39   | 39  | 39  | 39   | 39   |      |
| 5°  | 118  | 78  | 37  | 17   | 14   | 27   |
| 15° | 2145 | 365 | 20  | 2    | 1    | 624  |
| 25° | 3465 | 518 | 6   | 0    | 0    | 1565 |
| 35° | 2952 | 192 | 1   | 0    | 0    | 1810 |
| 45° | 1276 | 26  | 1   | 0    | 1    | 973  |
| 55° | 22   | 0   | 2   | 2    | 3    | 57   |
| 65° | 1    | 1   | 2   | 2    | 4    | 1    |
| 75° | 0    | 1   | 2   | 2    | 2    | 0    |
| 85° | 0    | 1   | 2   | 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°    | 39.2   | 39.2   | 39.2   | 39.2   | 39.2   | 39.2   | 39.2   | 39.2   | 39.2  | 39.2  | 39.2  |
| 2.5°  | 64.8   | 65.5   | 65.5   | 64.0   | 63.2   | 63.2   | 61.0   | 60.2   | 58.0  | 55.7  | 48.2  |
| 5°    | 117.5  | 115.2  | 112.2  | 112.2  | 105.4  | 101.6  | 96.4   | 90.4   | 85.8  | 78.3  | 55.7  |
| 7.5°  | 266.5  | 248.5  | 243.2  | 236.4  | 210.8  | 190.5  | 167.2  | 146.8  | 128.0 | 112.2 | 61.7  |
| 10°   | 672.4  | 637.0  | 607.6  | 548.1  | 473.6  | 402.1  | 335.8  | 259.0  | 206.3 | 164.1 | 66.3  |
| 12.5° | 1354.6 | 1307.1 | 1250.6 | 1142.2 | 1002.9 | 824.5  | 666.4  | 497.7  | 349.4 | 241.7 | 67.8  |
| 15°   | 2145.1 | 2064.6 | 1976.5 | 1838.7 | 1610.6 | 1354.6 | 1069.2 | 800.4  | 560.9 | 365.2 | 66.3  |
| 17.5° | 2789.7 | 2758.0 | 2627.8 | 2439.5 | 2160.2 | 1830.4 | 1478.8 | 1111.4 | 756.7 | 478.1 | 61.7  |
| 20°   | 3265.5 | 3243.7 | 3086.3 | 2886.0 | 2571.3 | 2193.3 | 1746.8 | 1305.6 | 893.0 | 549.7 | 55.0  |
| 22.5° | 3495.2 | 3491.4 | 3377.7 | 3172.9 | 2839.4 | 2410.9 | 1919.3 | 1417.8 | 935.2 | 559.4 | 45.9  |
| 25°   | 3465.1 | 3478.6 | 3413.9 | 3261.8 | 2941.8 | 2500.5 | 1970.5 | 1417.8 | 904.3 | 518.0 | 38.4  |
| 27.5° | 3328.0 | 3337.1 | 3296.4 | 3179.7 | 2881.5 | 2435.8 | 1898.9 | 1326.7 | 814.7 | 445.0 | 31.6  |
| 30°   | 3233.9 | 3237.7 | 3187.2 | 3062.2 | 2746.0 | 2288.2 | 1730.3 | 1158.0 | 679.2 | 356.9 | 23.3  |
| 32.5° | 3119.5 | 3118.7 | 3060.0 | 2916.9 | 2568.3 | 2081.1 | 1516.4 | 957.0  | 521.8 | 271.1 | 13.6  |
| 35°   | 2952.3 | 2933.5 | 2853.7 | 2688.8 | 2303.3 | 1802.6 | 1243.1 | 728.9  | 375.7 | 192.0 | 8.3   |
| 37.5° | 2722.7 | 2673.7 | 2560.8 | 2340.2 | 1931.3 | 1413.3 | 921.6  | 512.0  | 256.8 | 127.2 | 5.3   |
| 40°   | 2354.5 | 2302.5 | 2148.9 | 1880.9 | 1460.7 | 1017.2 | 621.2  | 333.6  | 161.9 | 76.0  | 3.0   |
| 42.5° | 1846.2 | 1810.8 | 1603.8 | 1336.5 | 964.5  | 649.0  | 373.5  | 197.3  | 91.1  | 43.7  | 0.8   |
| 45°   | 1275.5 | 1229.6 | 1066.9 | 840.3  | 579.0  | 359.9  | 209.3  | 103.2  | 52.0  | 26.4  | 0.0   |
| 47.5° | 704.0  | 647.5  | 553.4  | 435.2  | 291.4  | 189.0  | 105.4  | 55.7   | 29.4  | 12.8  | 0.0   |
| 50°   | 281.6  | 279.3  | 222.1  | 158.1  | 111.4  | 85.8   | 52.7   | 30.1   | 15.1  | 4.5   | 0.8   |
| 52.5° | 98.6   | 98.6   | 85.1   | 69.3   | 54.2   | 39.2   | 26.4   | 14.3   | 5.3   | 1.5   | 0.8   |
| 55°   | 21.8   | 24.1   | 22.6   | 21.1   | 20.3   | 17.3   | 11.3   | 5.3    | 1.5   | 0.0   | 0.8   |
| 57.5° | 2.3    | 2.3    | 2.3    | 3.0    | 3.8    | 3.8    | 3.0    | 1.5    | 0.0   | 0.0   | 0.8   |
| 60°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0    | 0.0   | 0.0   | 1.5   |
| 62.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 1.5   |
| 65°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 1.5   |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 1.5   |
| 70°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 2.3   |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 2.3   |
| 75°   | 0.0    | 0.0    | 0.8    | 0.8    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 2.3   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 1.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 1.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 1.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 1.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 1.5   |
| 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°    | 39.2 | 39.2   | 39.2 | 39.2   | 39.2 |
| 2.5°  | 39.2 | 30.9   | 25.6 | 22.6   | 21.8 |
| 5°    | 36.9 | 23.3   | 16.6 | 14.3   | 13.6 |
| 7.5°  | 33.1 | 17.3   | 11.3 | 9.0    | 8.3  |
| 10°   | 28.6 | 12.8   | 7.5  | 5.3    | 5.3  |
| 12.5° | 24.1 | 9.8    | 4.5  | 2.3    | 1.5  |
| 15°   | 19.6 | 6.0    | 1.5  | 0.8    | 0.8  |
| 17.5° | 15.1 | 3.8    | 0.0  | 0.0    | 0.0  |
| 20°   | 12.0 | 1.5    | 0.0  | 0.0    | 0.0  |
| 22.5° | 9.0  | 0.8    | 0.0  | 0.0    | 0.0  |
| 25°   | 6.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 3.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.8  | 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°   | 0.8  | 0.0    | 0.0  | 0.8    | 0.8  |
| 47.5° | 0.8  | 0.8    | 0.8  | 1.5    | 1.5  |
| 50°   | 0.8  | 0.8    | 0.8  | 1.5    | 2.3  |
| 52.5° | 1.5  | 0.8    | 1.5  | 2.3    | 2.3  |
| 55°   | 1.5  | 1.5    | 2.3  | 3.0    | 3.0  |
| 57.5° | 1.5  | 1.5    | 2.3  | 3.0    | 3.0  |
| 60°   | 1.5  | 1.5    | 2.3  | 3.0    | 3.8  |
| 62.5° | 2.3  | 2.3    | 2.3  | 3.0    | 3.0  |
| 65°   | 2.3  | 2.3    | 2.3  | 3.0    | 3.8  |
| 67.5° | 2.3  | 2.3    | 2.3  | 3.0    | 3.8  |
| 70°   | 2.3  | 2.3    | 2.3  | 3.0    | 3.0  |
| 72.5° | 3.0  | 2.3    | 2.3  | 3.0    | 3.0  |
| 75°   | 2.3  | 2.3    | 2.3  | 2.3    | 2.3  |
| 77.5° | 2.3  | 2.3    | 1.5  | 2.3    | 2.3  |
| 80°   | 2.3  | 1.5    | 1.5  | 1.5    | 1.5  |
| 82.5° | 2.3  | 1.5    | 1.5  | 1.5    | 1.5  |
| 85°   | 2.3  | 1.5    | 0.8  | 0.8    | 0.8  |
| 87.5° | 2.3  | 1.5    | 0.8  | 0.8    | 0.8  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)