

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: P1310723

Luminaire Tested: P3SQAS24R409040D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS24R409040D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

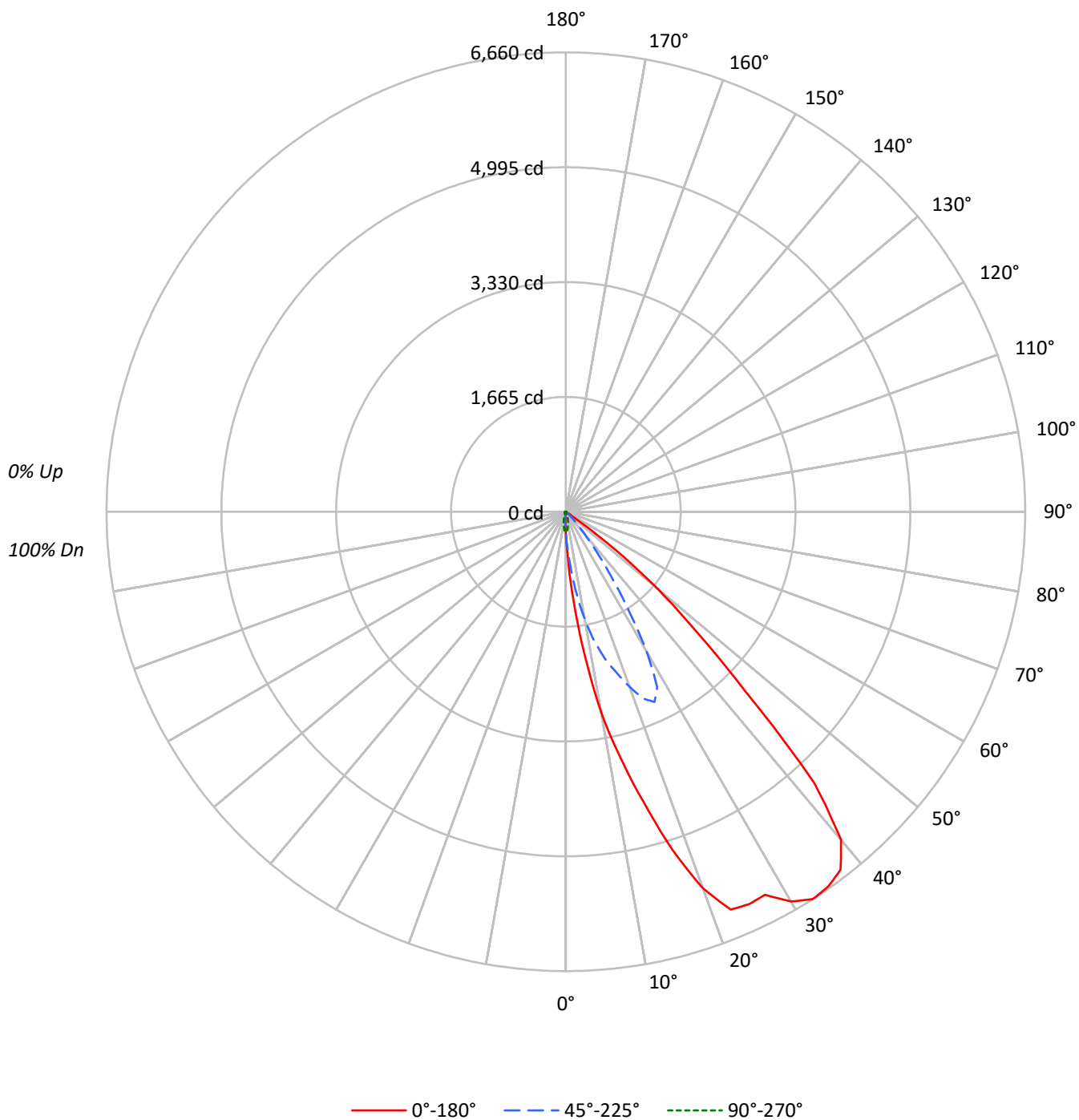
Lumens per Lamp: N/A  
Luminaire Lumens: 2457.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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  | 51  | 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°  | 50065   | 50065  | 50065 | 50065 | 50065 |
| 5°  | 225817  | 143958 | 44880 | 17236 | 12568 |
| 10° | 517853  | 278181 | 31601 | 6173  | 4722  |
| 15° | 777165  | 394698 | 19631 | 3334  | 2960  |
| 20° | 1064134 | 494771 | 11418 | 1906  | 2291  |
| 25° | 1192911 | 578099 | 5910  | 1577  | 1976  |
| 30° | 1297538 | 466658 | 2486  | 1233  | 2068  |
| 35° | 1394492 | 238817 | 883   | 1745  | 2628  |
| 40° | 1394990 | 95234  | 472   | 1866  | 3260  |
| 45° | 890673  | 31858  | 1023  | 3044  | 4555  |
| 50° | 462368  | 3885   | 1661  | 3885  | 5573  |
| 55° | 39905   | 631    | 1862  | 4984  | 6846  |
| 60° | 1447    | 723    | 2136  | 5718  | 7853  |
| 65° | 1712    | 856    | 3382  | 5909  | 8476  |
| 70° | 1057    | 1057   | 4179  | 6294  | 8359  |
| 75° | 1397    | 1397   | 4126  | 6920  | 9649  |
| 80° | 2083    | 2083   | 6149  | 6149  | 8232  |
| 85° | 0       | 4150   | 12251 | 8299  | 8299  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 890673 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.6   | 2.3       |
| 10°-20°   | 332.6  | 13.5      |
| 20°-30°   | 728.3  | 29.6      |
| 30°-40°   | 829.7  | 33.8      |
| 40°-50°   | 437.8  | 17.8      |
| 50°-60°   | 51.6   | 2.1       |
| 60°-70°   | 9.3    | 0.4       |
| 70°-80°   | 7.6    | 0.3       |
| 80°-90°   | 3.5    | 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°    | 1117.5 | 45.5      |
| 0°-40°    | 1947.2 | 79.3      |
| 0°-60°    | 2436.6 | 99.2      |
| 0°-90°    | 2457.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2457.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 291  | 291  | 291 | 291  | 291  |      |
| 5°  | 1306 | 833  | 260 | 100  | 73   | 176  |
| 15° | 4359 | 2214 | 110 | 19   | 17   | 1284 |
| 25° | 6278 | 3042 | 31  | 8    | 10   | 2892 |
| 35° | 6633 | 1136 | 4   | 8    | 12   | 4111 |
| 45° | 3657 | 131  | 4   | 12   | 19   | 2948 |
| 55° | 133  | 2    | 6   | 17   | 23   | 413  |
| 65° | 4    | 2    | 8   | 14   | 21   | 4    |
| 75° | 2    | 2    | 6   | 10   | 14   | 2    |
| 85° | 0    | 2    | 6   | 4    | 4    | 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°    | 290.7  | 290.7  | 290.7  | 290.7  | 290.7  | 290.7  | 290.7  | 290.7  | 290.7  | 290.7  | 290.7 |
| 2.5°  | 647.9  | 647.9  | 645.8  | 627.1  | 625.1  | 623.0  | 589.8  | 581.5  | 542.0  | 515.0  | 392.5 |
| 5°    | 1306.2 | 1277.1 | 1275.0 | 1241.8 | 1185.7 | 1111.0 | 1063.2 | 986.4  | 911.6  | 832.7  | 483.9 |
| 7.5°  | 2080.8 | 2105.7 | 2037.2 | 2001.9 | 1877.3 | 1788.0 | 1650.9 | 1530.5 | 1362.3 | 1204.4 | 558.6 |
| 10°   | 2961.2 | 2917.6 | 2849.1 | 2780.6 | 2645.6 | 2485.7 | 2282.2 | 2068.3 | 1825.3 | 1590.7 | 600.1 |
| 12.5° | 3648.6 | 3592.5 | 3551.0 | 3457.6 | 3324.7 | 3119.1 | 2876.1 | 2589.5 | 2267.7 | 1929.2 | 598.1 |
| 15°   | 4358.8 | 4302.7 | 4209.3 | 4126.2 | 3929.0 | 3698.4 | 3434.7 | 3056.8 | 2662.2 | 2213.7 | 554.5 |
| 17.5° | 5139.6 | 5066.9 | 4963.1 | 4836.4 | 4645.4 | 4390.0 | 4055.6 | 3594.6 | 3036.0 | 2446.2 | 475.5 |
| 20°   | 5806.2 | 5762.6 | 5658.8 | 5509.3 | 5322.4 | 5073.2 | 4686.9 | 4176.1 | 3494.9 | 2699.6 | 377.9 |
| 22.5° | 6242.3 | 6202.8 | 6132.2 | 6001.4 | 5860.2 | 5594.4 | 5241.4 | 4680.7 | 3879.1 | 2930.1 | 286.6 |
| 25°   | 6277.6 | 6261.0 | 6242.3 | 6198.7 | 6113.5 | 5924.6 | 5579.9 | 4975.6 | 4117.9 | 3042.2 | 211.8 |
| 27.5° | 6258.9 | 6252.7 | 6248.5 | 6225.7 | 6169.6 | 5982.7 | 5629.7 | 5019.2 | 4086.8 | 2867.8 | 155.7 |
| 30°   | 6524.7 | 6506.0 | 6495.6 | 6420.9 | 6273.4 | 5984.8 | 5523.8 | 4784.5 | 3632.0 | 2346.6 | 112.1 |
| 32.5° | 6659.7 | 6655.5 | 6645.2 | 6572.5 | 6364.8 | 5989.0 | 5345.2 | 4217.6 | 2880.3 | 1694.5 | 76.8  |
| 35°   | 6632.7 | 6611.9 | 6574.6 | 6439.6 | 6150.9 | 5679.5 | 4767.9 | 3368.3 | 2078.7 | 1135.9 | 49.8  |
| 37.5° | 6541.3 | 6493.6 | 6420.9 | 6177.9 | 5793.7 | 5150.0 | 3866.7 | 2479.5 | 1414.2 | 735.1  | 29.1  |
| 40°   | 6204.9 | 6140.5 | 6026.3 | 5729.4 | 5224.8 | 4244.6 | 2859.5 | 1675.8 | 928.2  | 423.6  | 8.3   |
| 42.5° | 5334.8 | 5251.8 | 5168.7 | 4836.4 | 4259.1 | 3164.8 | 1881.4 | 1036.2 | 529.5  | 232.6  | 2.1   |
| 45°   | 3656.9 | 3553.1 | 3438.9 | 3198.0 | 2734.9 | 1916.7 | 1119.3 | 583.5  | 274.1  | 130.8  | 2.1   |
| 47.5° | 2539.7 | 2491.9 | 2292.6 | 1985.2 | 1522.2 | 1015.5 | 579.4  | 286.6  | 145.4  | 60.2   | 2.1   |
| 50°   | 1725.7 | 1671.7 | 1439.1 | 1142.1 | 809.9  | 485.9  | 265.8  | 143.3  | 64.4   | 14.5   | 2.1   |
| 52.5° | 905.4  | 839.0  | 691.5  | 527.5  | 328.1  | 203.5  | 116.3  | 62.3   | 18.7   | 2.1    | 2.1   |
| 55°   | 132.9  | 122.5  | 99.7   | 81.0   | 72.7   | 56.1   | 33.2   | 14.5   | 2.1    | 2.1    | 4.2   |
| 57.5° | 4.2    | 4.2    | 4.2    | 4.2    | 6.2    | 6.2    | 4.2    | 2.1    | 2.1    | 2.1    | 4.2   |
| 60°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2   |
| 62.5° | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2   |
| 65°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2   |
| 67.5° | 4.2    | 4.2    | 4.2    | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2    | 6.2   |
| 70°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 6.2   |
| 72.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2    | 6.2   |
| 75°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 6.2   |
| 77.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2    | 6.2   |
| 80°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 6.2   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 4.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 4.2   |
| 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°    | 290.7 | 290.7  | 290.7 | 290.7  | 290.7 |
| 2.5°  | 286.6 | 211.8  | 164.1 | 141.2  | 139.1 |
| 5°    | 259.6 | 151.6  | 99.7  | 76.8   | 72.7  |
| 7.5°  | 220.1 | 105.9  | 58.1  | 41.5   | 39.5  |
| 10°   | 180.7 | 72.7   | 35.3  | 29.1   | 27.0  |
| 12.5° | 143.3 | 47.8   | 24.9  | 22.8   | 20.8  |
| 15°   | 110.1 | 31.1   | 18.7  | 16.6   | 16.6  |
| 17.5° | 83.1  | 20.8   | 14.5  | 14.5   | 14.5  |
| 20°   | 62.3  | 14.5   | 10.4  | 12.5   | 12.5  |
| 22.5° | 43.6  | 10.4   | 8.3   | 10.4   | 10.4  |
| 25°   | 31.1  | 8.3    | 8.3   | 10.4   | 10.4  |
| 27.5° | 20.8  | 6.2    | 6.2   | 8.3    | 10.4  |
| 30°   | 12.5  | 4.2    | 6.2   | 8.3    | 10.4  |
| 32.5° | 6.2   | 4.2    | 6.2   | 10.4   | 10.4  |
| 35°   | 4.2   | 6.2    | 8.3   | 10.4   | 12.5  |
| 37.5° | 2.1   | 6.2    | 8.3   | 12.5   | 12.5  |
| 40°   | 2.1   | 6.2    | 8.3   | 12.5   | 14.5  |
| 42.5° | 4.2   | 8.3    | 10.4  | 14.5   | 16.6  |
| 45°   | 4.2   | 8.3    | 12.5  | 16.6   | 18.7  |
| 47.5° | 4.2   | 8.3    | 14.5  | 18.7   | 18.7  |
| 50°   | 6.2   | 10.4   | 14.5  | 18.7   | 20.8  |
| 52.5° | 6.2   | 10.4   | 14.5  | 20.8   | 22.8  |
| 55°   | 6.2   | 10.4   | 16.6  | 20.8   | 22.8  |
| 57.5° | 6.2   | 12.5   | 16.6  | 20.8   | 22.8  |
| 60°   | 6.2   | 10.4   | 16.6  | 20.8   | 22.8  |
| 62.5° | 8.3   | 10.4   | 14.5  | 20.8   | 20.8  |
| 65°   | 8.3   | 10.4   | 14.5  | 20.8   | 20.8  |
| 67.5° | 8.3   | 10.4   | 14.5  | 18.7   | 18.7  |
| 70°   | 8.3   | 10.4   | 12.5  | 16.6   | 16.6  |
| 72.5° | 8.3   | 10.4   | 12.5  | 14.5   | 16.6  |
| 75°   | 6.2   | 8.3    | 10.4  | 12.5   | 14.5  |
| 77.5° | 6.2   | 8.3    | 8.3   | 12.5   | 12.5  |
| 80°   | 6.2   | 6.2    | 6.2   | 8.3    | 8.3   |
| 82.5° | 6.2   | 6.2    | 4.2   | 6.2    | 6.2   |
| 85°   | 6.2   | 4.2    | 4.2   | 4.2    | 4.2   |
| 87.5° | 4.2   | 4.2    | 2.1   | 2.1    | 2.1   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)