

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: P1311808

Luminaire Tested: P3SQAS24R459050D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS24R459050D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

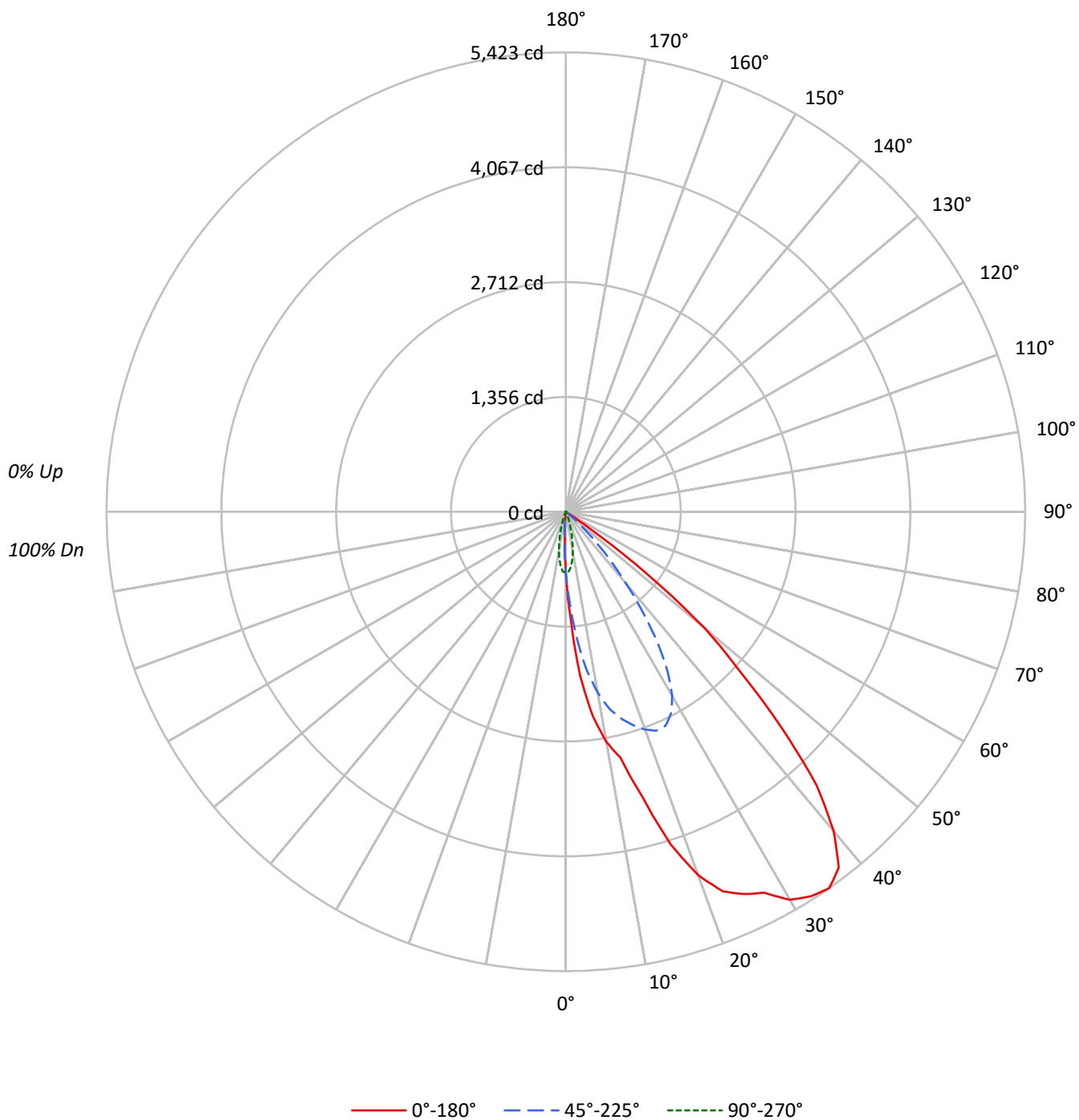
Lumens per Lamp: N/A  
Luminaire Lumens: 2299.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 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  | 98  | 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  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 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  | 59  | 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  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°      | 45°    | 90°    | 135°   | 180°   |
|-----|---------|--------|--------|--------|--------|
| 0°  | 122967  | 122967 | 122967 | 122967 | 122967 |
| 5°  | 335717  | 258301 | 113807 | 22838  | 8558   |
| 10° | 482143  | 378929 | 82281  | 2169   | 1801   |
| 15° | 620709  | 450720 | 43790  | 731    | 0      |
| 20° | 836598  | 501497 | 16641  | 0      | 0      |
| 25° | 946238  | 529775 | 4314   | 0      | 0      |
| 30° | 1051800 | 499431 | 418    | 0      | 0      |
| 35° | 1140201 | 398288 | 0      | 0      | 0      |
| 40° | 1105106 | 250068 | 0      | 0      | 0      |
| 45° | 876060  | 119125 | 0      | 0      | 0      |
| 50° | 573372  | 14924  | 0      | 0      | 0      |
| 55° | 98516   | 0      | 0      | 0      | 0      |
| 60° | 0       | 0      | 723    | 0      | 0      |
| 65° | 0       | 856    | 856    | 0      | 0      |
| 70° | 0       | 1057   | 2065   | 0      | 0      |
| 75° | 0       | 1397   | 2728   | 0      | 0      |
| 80° | 0       | 2083   | 4066   | 2083   | 0      |
| 85° | 0       | 4150   | 8102   | 4150   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 876060 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.0   | 3.7       |
| 10°-20°   | 327.5  | 14.2      |
| 20°-30°   | 613.1  | 26.7      |
| 30°-40°   | 715.6  | 31.1      |
| 40°-50°   | 466.7  | 20.3      |
| 50°-60°   | 86.6   | 3.8       |
| 60°-70°   | 0.8    | 0.0       |
| 70°-80°   | 1.7    | 0.1       |
| 80°-90°   | 1.9    | 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°    | 1025.6 | 44.6      |
| 0°-40°    | 1741.3 | 75.7      |
| 0°-60°    | 2294.6 | 99.8      |
| 0°-90°    | 2299.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2299.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 714  | 714  | 714 | 714  | 714  |      |
| 5°  | 1942 | 1494 | 658 | 132  | 50   | 208  |
| 15° | 3481 | 2528 | 246 | 4    | 0    | 1037 |
| 25° | 4980 | 2788 | 23  | 0    | 0    | 2303 |
| 35° | 5423 | 1894 | 0   | 0    | 0    | 3326 |
| 45° | 3597 | 489  | 0   | 0    | 0    | 2735 |
| 55° | 328  | 0    | 0   | 0    | 0    | 570  |
| 65° | 0    | 2    | 2   | 0    | 0    | 0    |
| 75° | 0    | 2    | 4   | 0    | 0    | 0    |
| 85° | 0    | 2    | 4   | 2    | 0    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 714.0  | 714.0  | 714.0  | 714.0  | 714.0  | 714.0  | 714.0  | 714.0  | 714.0  | 714.0  | 714.0  |
| 2.5°  | 1258.8 | 1269.1 | 1248.5 | 1240.2 | 1213.4 | 1219.6 | 1174.2 | 1155.6 | 1126.7 | 1079.3 | 1056.6 |
| 5°    | 1941.9 | 1923.3 | 1906.8 | 1871.7 | 1851.1 | 1795.3 | 1733.4 | 1663.3 | 1578.7 | 1494.1 | 1397.1 |
| 7.5°  | 2428.9 | 2414.4 | 2408.2 | 2379.3 | 2338.1 | 2280.3 | 2199.8 | 2111.1 | 2001.7 | 1888.2 | 1741.7 |
| 10°   | 2757.0 | 2742.5 | 2717.8 | 2688.9 | 2655.9 | 2608.4 | 2530.0 | 2433.0 | 2313.3 | 2166.8 | 1995.5 |
| 12.5° | 2971.6 | 2969.5 | 2928.3 | 2895.2 | 2854.0 | 2812.7 | 2732.2 | 2653.8 | 2536.2 | 2385.5 | 2191.6 |
| 15°   | 3481.3 | 3448.3 | 3394.6 | 3301.8 | 3186.2 | 3078.9 | 2948.9 | 2825.1 | 2697.1 | 2527.9 | 2311.2 |
| 17.5° | 4116.9 | 4079.8 | 3989.0 | 3871.3 | 3685.6 | 3481.3 | 3258.4 | 3062.4 | 2870.5 | 2641.4 | 2385.5 |
| 20°   | 4564.7 | 4550.3 | 4473.9 | 4337.7 | 4139.6 | 3869.3 | 3576.2 | 3299.7 | 3029.4 | 2736.3 | 2420.6 |
| 22.5° | 4851.5 | 4843.3 | 4812.3 | 4719.5 | 4517.2 | 4213.9 | 3836.2 | 3464.8 | 3138.7 | 2796.2 | 2410.3 |
| 25°   | 4979.5 | 4989.8 | 4993.9 | 4948.5 | 4785.5 | 4476.0 | 4028.2 | 3590.7 | 3200.7 | 2787.9 | 2331.9 |
| 27.5° | 5070.3 | 5070.3 | 5086.8 | 5066.2 | 4901.1 | 4575.0 | 4102.5 | 3634.0 | 3180.0 | 2686.8 | 2166.8 |
| 30°   | 5289.0 | 5284.9 | 5295.2 | 5239.5 | 5010.4 | 4606.0 | 4069.4 | 3563.9 | 3062.4 | 2511.4 | 1929.5 |
| 32.5° | 5384.0 | 5388.1 | 5386.0 | 5297.3 | 5031.1 | 4585.3 | 3989.0 | 3429.7 | 2845.7 | 2237.0 | 1615.8 |
| 35°   | 5423.2 | 5404.6 | 5328.2 | 5126.0 | 4789.6 | 4310.9 | 3762.0 | 3202.7 | 2542.4 | 1894.4 | 1275.3 |
| 37.5° | 5293.2 | 5239.5 | 5070.3 | 4793.8 | 4383.1 | 3922.9 | 3386.4 | 2796.2 | 2140.0 | 1485.8 | 959.6  |
| 40°   | 4915.5 | 4845.4 | 4632.8 | 4298.5 | 3922.9 | 3508.1 | 2942.7 | 2319.5 | 1673.6 | 1112.3 | 672.7  |
| 42.5° | 4381.0 | 4300.6 | 4071.5 | 3780.5 | 3438.0 | 3002.5 | 2439.2 | 1816.0 | 1225.8 | 767.7  | 427.2  |
| 45°   | 3596.9 | 3551.5 | 3419.4 | 3173.8 | 2837.5 | 2385.5 | 1869.6 | 1324.8 | 848.1  | 489.1  | 218.7  |
| 47.5° | 2781.7 | 2724.0 | 2629.0 | 2459.8 | 2179.2 | 1749.9 | 1308.3 | 899.7  | 544.8  | 241.4  | 45.4   |
| 50°   | 2140.0 | 2071.9 | 1956.3 | 1768.5 | 1475.5 | 1168.0 | 848.1  | 561.3  | 276.5  | 55.7   | 2.1    |
| 52.5° | 1232.0 | 1246.4 | 1190.7 | 1071.0 | 908.0  | 699.6  | 491.1  | 282.7  | 61.9   | 2.1    | 0.0    |
| 55°   | 328.1  | 354.9  | 346.7  | 373.5  | 328.1  | 276.5  | 204.3  | 53.7   | 4.1    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 2.1    | 4.1    | 12.4   | 18.6   | 6.2    | 2.1    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 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):**

|       | 55°    | 60°    | 67.5°  | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|--------|--------|-------|--------|-------|--------|-------|
| 0°    | 714.0  | 714.0  | 714.0  | 714.0 | 714.0  | 714.0 | 714.0  | 714.0 |
| 2.5°  | 1005.0 | 961.6  | 908.0  | 709.9 | 534.5  | 383.8 | 299.2  | 276.5 |
| 5°    | 1304.2 | 1199.0 | 1062.8 | 658.3 | 330.2  | 132.1 | 59.8   | 49.5  |
| 7.5°  | 1586.9 | 1432.1 | 1186.6 | 575.7 | 167.2  | 33.0  | 16.5   | 14.4  |
| 10°   | 1805.7 | 1597.2 | 1277.4 | 470.5 | 61.9   | 12.4  | 10.3   | 10.3  |
| 12.5° | 1956.3 | 1702.5 | 1310.4 | 357.0 | 22.7   | 6.2   | 6.2    | 4.1   |
| 15°   | 2043.0 | 1743.7 | 1279.4 | 245.6 | 8.3    | 4.1   | 0.0    | 0.0   |
| 17.5° | 2069.8 | 1727.2 | 1196.9 | 154.8 | 2.1    | 0.0   | 0.0    | 0.0   |
| 20°   | 2047.1 | 1646.8 | 1066.9 | 90.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 1972.8 | 1520.9 | 910.1  | 49.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 1834.5 | 1343.4 | 726.4  | 22.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 1609.6 | 1114.3 | 546.9  | 8.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1353.7 | 868.8  | 388.0  | 2.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 1056.6 | 639.7  | 249.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 794.5  | 447.8  | 148.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 553.0  | 282.7  | 78.4   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 344.6  | 152.7  | 26.8   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 191.9  | 53.7   | 2.1    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 45.4   | 4.1    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 2.1    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 2.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 2.1    | 2.1    | 2.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 2.1    | 2.1    | 2.1    | 2.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 2.1    | 2.1    | 2.1    | 2.1   | 2.1    | 0.0   | 0.0    | 0.0   |
| 67.5° | 2.1    | 2.1    | 2.1    | 2.1   | 2.1    | 0.0   | 0.0    | 0.0   |
| 70°   | 2.1    | 2.1    | 2.1    | 4.1   | 2.1    | 0.0   | 0.0    | 0.0   |
| 72.5° | 2.1    | 2.1    | 4.1    | 4.1   | 2.1    | 0.0   | 0.0    | 0.0   |
| 75°   | 2.1    | 2.1    | 4.1    | 4.1   | 2.1    | 0.0   | 0.0    | 0.0   |
| 77.5° | 2.1    | 4.1    | 4.1    | 4.1   | 2.1    | 2.1   | 0.0    | 0.0   |
| 80°   | 2.1    | 4.1    | 4.1    | 4.1   | 4.1    | 2.1   | 0.0    | 0.0   |
| 82.5° | 2.1    | 4.1    | 4.1    | 4.1   | 4.1    | 2.1   | 0.0    | 0.0   |
| 85°   | 2.1    | 4.1    | 4.1    | 4.1   | 2.1    | 2.1   | 0.0    | 0.0   |
| 87.5° | 2.1    | 4.1    | 4.1    | 4.1   | 4.1    | 2.1   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)