

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: P1306258

Luminaire Tested: P3SQAS20R459024D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306258  
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: P3SQAS20R459024D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

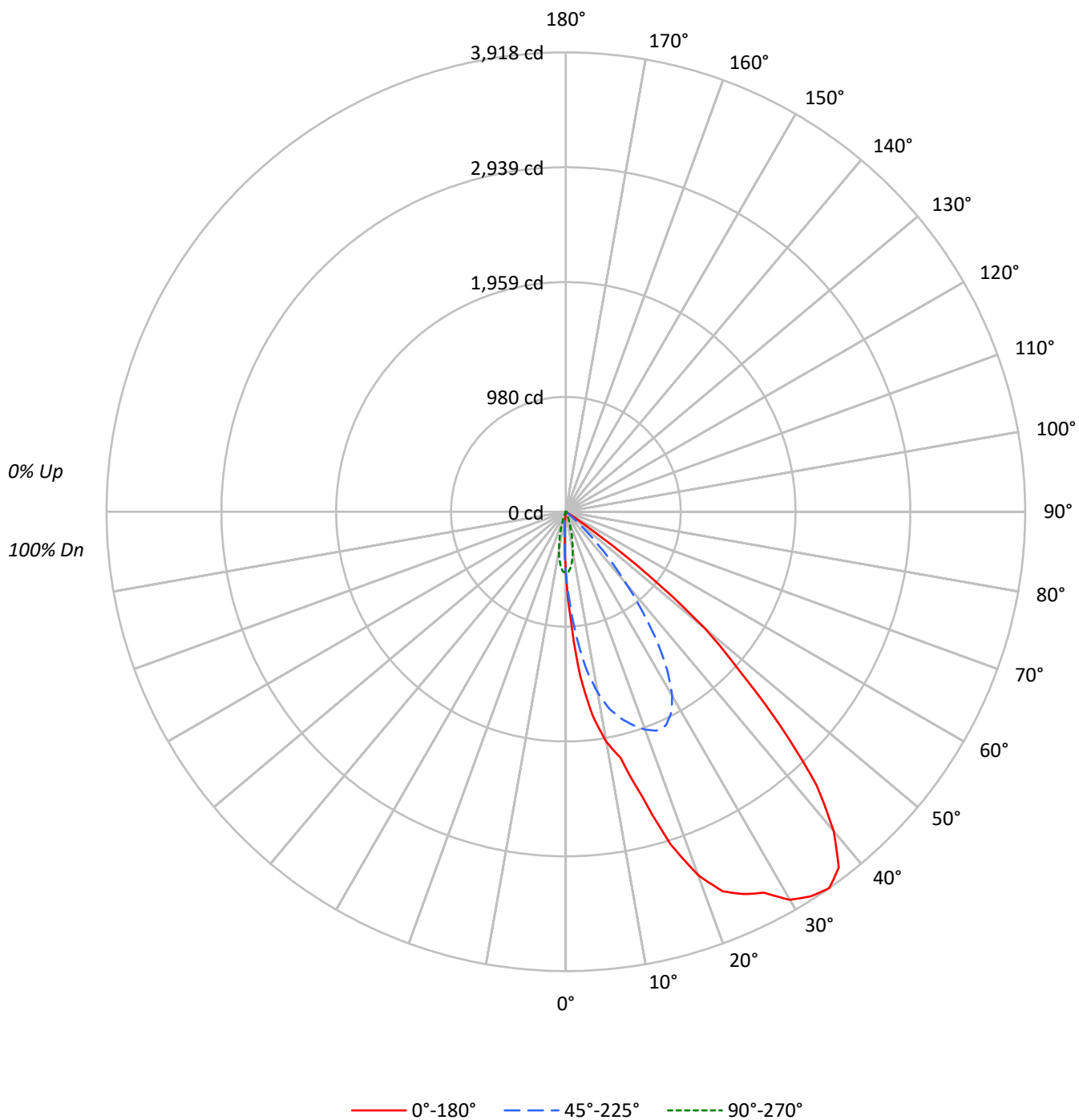
Lumens per Lamp: N/A  
Luminaire Lumens: 1661.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 68  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 62  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 56  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 51  | 51  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 46  | 46  | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 42  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 38  | 38  | 37  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 88850  | 88850  | 88850 | 88850 | 88850 |
| 5°  | 242551 | 186607 | 82222 | 16493 | 6189  |
| 10° | 348342 | 273774 | 59442 | 1556  | 1312  |
| 15° | 448455 | 325643 | 31630 | 535   | 0     |
| 20° | 604424 | 362336 | 12023 | 0     | 0     |
| 25° | 683640 | 382752 | 3116  | 0     | 0     |
| 30° | 759925 | 360842 | 298   | 0     | 0     |
| 35° | 823782 | 287762 | 0     | 0     | 0     |
| 40° | 798428 | 180666 | 0     | 0     | 0     |
| 45° | 632938 | 86074  | 0     | 0     | 0     |
| 50° | 414248 | 10798  | 0     | 0     | 0     |
| 55° | 71192  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 517   | 0     | 0     |
| 65° | 0      | 611    | 611   | 0     | 0     |
| 70° | 0      | 755    | 1511  | 0     | 0     |
| 75° | 0      | 998    | 1996  | 0     | 0     |
| 80° | 0      | 1488   | 2975  | 1488  | 0     |
| 85° | 0      | 2964   | 5928  | 2964  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 632938 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.4   | 3.7       |
| 10°-20°   | 236.6  | 14.2      |
| 20°-30°   | 443.0  | 26.7      |
| 30°-40°   | 517.0  | 31.1      |
| 40°-50°   | 337.2  | 20.3      |
| 50°-60°   | 62.6   | 3.8       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 1.2    | 0.1       |
| 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       |
| 0°-30°    | 741.0  | 44.6      |
| 0°-40°    | 1258.0 | 75.7      |
| 0°-60°    | 1657.8 | 99.8      |
| 0°-90°    | 1661.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1661.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 516  | 516  | 516 | 516  | 516  |      |
| 5°  | 1403 | 1079 | 476 | 95   | 36   | 150  |
| 15° | 2515 | 1826 | 177 | 3    | 0    | 749  |
| 25° | 3598 | 2014 | 16  | 0    | 0    | 1664 |
| 35° | 3918 | 1369 | 0   | 0    | 0    | 2403 |
| 45° | 2599 | 353  | 0   | 0    | 0    | 1976 |
| 55° | 237  | 0    | 0   | 0    | 0    | 412  |
| 65° | 0    | 2    | 2   | 0    | 0    | 0    |
| 75° | 0    | 2    | 3   | 0    | 0    | 0    |
| 85° | 0    | 2    | 3   | 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°    | 515.9  | 515.9  | 515.9  | 515.9  | 515.9  | 515.9  | 515.9  | 515.9  | 515.9  | 515.9  | 515.9  |
| 2.5°  | 909.5  | 916.9  | 902.0  | 896.1  | 876.7  | 881.1  | 848.3  | 834.9  | 814.0  | 779.8  | 763.4  |
| 5°    | 1403.0 | 1389.5 | 1377.6 | 1352.3 | 1337.4 | 1297.1 | 1252.4 | 1201.7 | 1140.6 | 1079.4 | 1009.4 |
| 7.5°  | 1754.8 | 1744.4 | 1739.9 | 1719.0 | 1689.2 | 1647.5 | 1589.3 | 1525.2 | 1446.2 | 1364.2 | 1258.3 |
| 10°   | 1991.9 | 1981.4 | 1963.6 | 1942.7 | 1918.8 | 1884.5 | 1827.9 | 1757.8 | 1671.3 | 1565.5 | 1441.7 |
| 12.5° | 2146.9 | 2145.5 | 2115.6 | 2091.8 | 2062.0 | 2032.1 | 1974.0 | 1917.3 | 1832.4 | 1723.5 | 1583.4 |
| 15°   | 2515.2 | 2491.3 | 2452.6 | 2385.5 | 2302.0 | 2224.5 | 2130.5 | 2041.1 | 1948.6 | 1826.4 | 1669.8 |
| 17.5° | 2974.4 | 2947.6 | 2882.0 | 2797.0 | 2662.8 | 2515.2 | 2354.2 | 2212.5 | 2073.9 | 1908.4 | 1723.5 |
| 20°   | 3297.9 | 3287.5 | 3232.3 | 3133.9 | 2990.8 | 2795.5 | 2583.8 | 2384.0 | 2188.7 | 1977.0 | 1748.9 |
| 22.5° | 3505.2 | 3499.2 | 3476.9 | 3409.8 | 3263.7 | 3044.5 | 2771.6 | 2503.3 | 2267.7 | 2020.2 | 1741.4 |
| 25°   | 3597.6 | 3605.1 | 3608.1 | 3575.3 | 3457.5 | 3233.8 | 2910.3 | 2594.2 | 2312.4 | 2014.2 | 1684.8 |
| 27.5° | 3663.2 | 3663.2 | 3675.1 | 3660.2 | 3541.0 | 3305.4 | 2964.0 | 2625.5 | 2297.5 | 1941.2 | 1565.5 |
| 30°   | 3821.3 | 3818.3 | 3825.7 | 3785.5 | 3620.0 | 3327.8 | 2940.1 | 2574.8 | 2212.5 | 1814.5 | 1394.0 |
| 32.5° | 3889.8 | 3892.8 | 3891.3 | 3827.2 | 3634.9 | 3312.9 | 2882.0 | 2477.9 | 2056.0 | 1616.2 | 1167.4 |
| 35°   | 3918.2 | 3904.8 | 3849.6 | 3703.5 | 3460.5 | 3114.6 | 2718.0 | 2313.9 | 1836.8 | 1368.7 | 921.4  |
| 37.5° | 3824.2 | 3785.5 | 3663.2 | 3463.4 | 3166.7 | 2834.3 | 2446.6 | 2020.2 | 1546.1 | 1073.5 | 693.3  |
| 40°   | 3551.4 | 3500.7 | 3347.1 | 3105.6 | 2834.3 | 2534.6 | 2126.1 | 1675.8 | 1209.1 | 803.6  | 486.0  |
| 42.5° | 3165.2 | 3107.1 | 2941.6 | 2731.4 | 2483.9 | 2169.3 | 1762.3 | 1312.0 | 885.6  | 554.6  | 308.6  |
| 45°   | 2598.7 | 2565.9 | 2470.5 | 2293.1 | 2050.0 | 1723.5 | 1350.8 | 957.2  | 612.8  | 353.4  | 158.0  |
| 47.5° | 2009.8 | 1968.0 | 1899.4 | 1777.2 | 1574.4 | 1264.3 | 945.3  | 650.0  | 393.6  | 174.4  | 32.8   |
| 50°   | 1546.1 | 1496.9 | 1413.4 | 1277.7 | 1066.0 | 843.9  | 612.8  | 405.5  | 199.8  | 40.3   | 1.5    |
| 52.5° | 890.1  | 900.5  | 860.3  | 773.8  | 656.0  | 505.4  | 354.8  | 204.3  | 44.7   | 1.5    | 0.0    |
| 55°   | 237.1  | 256.4  | 250.5  | 269.9  | 237.1  | 199.8  | 147.6  | 38.8   | 3.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.5    | 3.0    | 8.9    | 13.4   | 4.5    | 1.5    | 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    | 1.5    | 1.5    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 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):**

|       | 55°    | 60°    | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|--------|-------|-------|--------|-------|--------|-------|
| 0°    | 515.9  | 515.9  | 515.9 | 515.9 | 515.9  | 515.9 | 515.9  | 515.9 |
| 2.5°  | 726.1  | 694.8  | 656.0 | 512.9 | 386.2  | 277.3 | 216.2  | 199.8 |
| 5°    | 942.3  | 866.2  | 767.8 | 475.6 | 238.5  | 95.4  | 43.2   | 35.8  |
| 7.5°  | 1146.5 | 1034.7 | 857.3 | 416.0 | 120.8  | 23.9  | 11.9   | 10.4  |
| 10°   | 1304.6 | 1154.0 | 922.9 | 339.9 | 44.7   | 8.9   | 7.5    | 7.5   |
| 12.5° | 1413.4 | 1230.0 | 946.7 | 257.9 | 16.4   | 4.5   | 4.5    | 3.0   |
| 15°   | 1476.0 | 1259.8 | 924.4 | 177.4 | 6.0    | 3.0   | 0.0    | 0.0   |
| 17.5° | 1495.4 | 1247.9 | 864.7 | 111.8 | 1.5    | 0.0   | 0.0    | 0.0   |
| 20°   | 1479.0 | 1189.8 | 770.8 | 65.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 1425.3 | 1098.8 | 657.5 | 35.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 1325.4 | 970.6  | 524.8 | 16.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 1162.9 | 805.1  | 395.1 | 6.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 978.1  | 627.7  | 280.3 | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 763.4  | 462.2  | 180.4 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 574.0  | 323.5  | 107.3 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 399.6  | 204.3  | 56.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 249.0  | 110.3  | 19.4  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 138.7  | 38.8   | 1.5   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 32.8   | 3.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 1.5    | 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   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 1.5    | 1.5   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 1.5    | 1.5    | 1.5   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.5    | 1.5    | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.5    | 1.5    | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.5    | 1.5    | 1.5   | 3.0   | 1.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.5    | 1.5    | 3.0   | 3.0   | 1.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.5    | 1.5    | 3.0   | 3.0   | 1.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.5    | 3.0    | 3.0   | 3.0   | 1.5    | 1.5   | 0.0    | 0.0   |
| 80°   | 1.5    | 3.0    | 3.0   | 3.0   | 3.0    | 1.5   | 0.0    | 0.0   |
| 82.5° | 1.5    | 3.0    | 3.0   | 3.0   | 3.0    | 1.5   | 0.0    | 0.0   |
| 85°   | 1.5    | 3.0    | 3.0   | 3.0   | 1.5    | 1.5   | 0.0    | 0.0   |
| 87.5° | 1.5    | 3.0    | 3.0   | 3.0   | 3.0    | 1.5   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)