

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: P1309640

Luminaire Tested: P3SQAS24R609035D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS24R609035D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

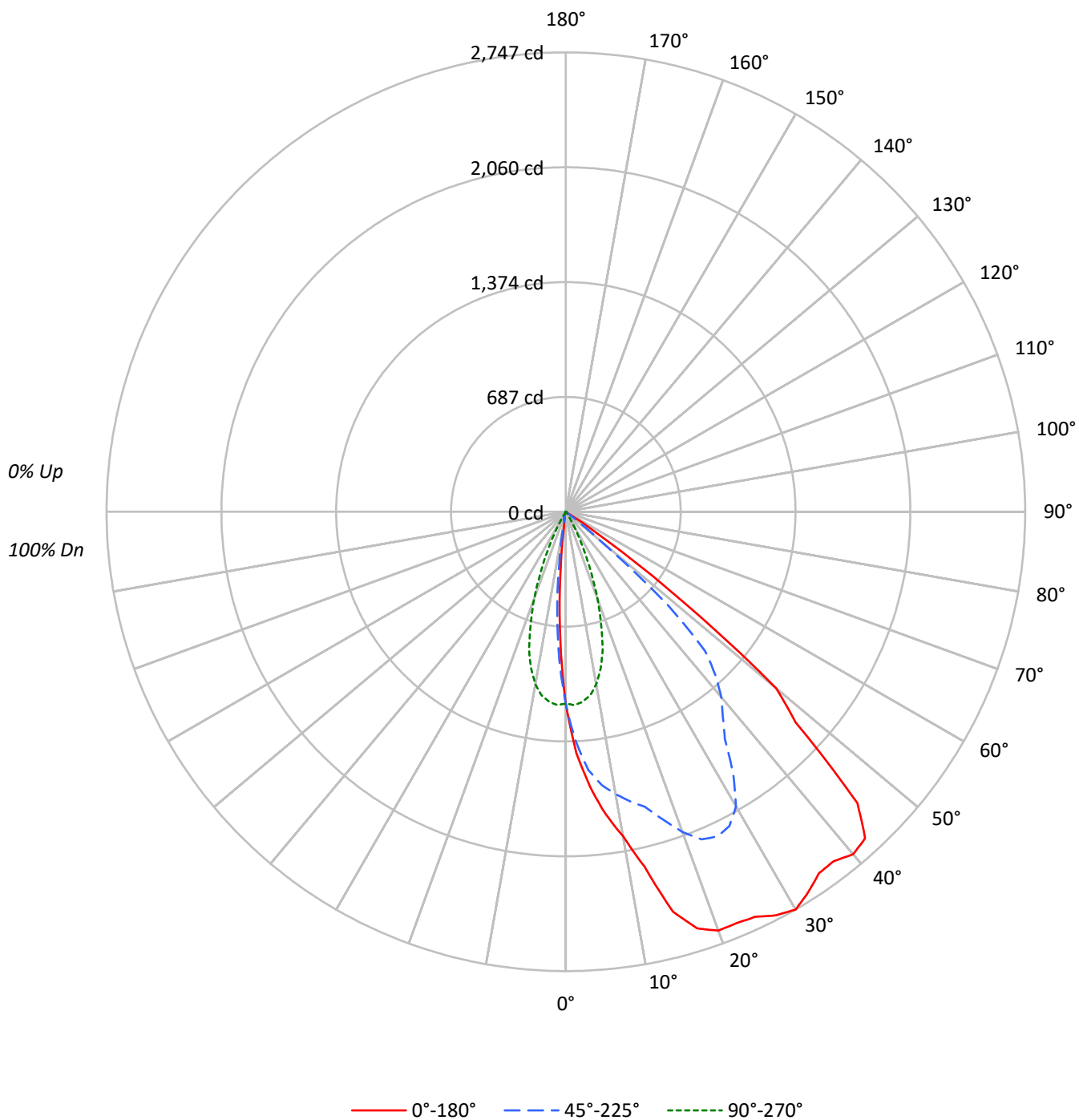
Lumens per Lamp: N/A  
Luminaire Lumens: 1863.9 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 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  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 60  |    |    |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 55  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 197522 | 197522 | 197522 | 197522 | 197522 |
| 5°  | 284700 | 268120 | 197205 | 101602 | 65262  |
| 10° | 344373 | 299778 | 183081 | 12137  | 7135   |
| 15° | 441341 | 325643 | 151732 | 8006   | 6544   |
| 20° | 488448 | 373259 | 101736 | 4490   | 751    |
| 25° | 507998 | 407170 | 50015  | 380    | 0      |
| 30° | 546224 | 404592 | 13801  | 0      | 0      |
| 35° | 554753 | 348376 | 0      | 0      | 0      |
| 40° | 601013 | 324821 | 0      | 0      | 0      |
| 45° | 600399 | 286791 | 0      | 0      | 0      |
| 50° | 439594 | 69448  | 0      | 0      | 0      |
| 55° | 85785  | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      | 0      | 0      |
| 65° | 0      | 815    | 815    | 0      | 0      |
| 70° | 0      | 1007   | 1007   | 0      | 0      |
| 75° | 0      | 1331   | 1331   | 0      | 0      |
| 80° | 0      | 1984   | 1984   | 1984   | 0      |
| 85° | 0      | 3952   | 3952   | 3952   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 601397 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.5   | 5.3       |
| 10°-20°   | 280.5  | 15.0      |
| 20°-30°   | 447.0  | 24.0      |
| 30°-40°   | 516.7  | 27.7      |
| 40°-50°   | 410.3  | 22.0      |
| 50°-60°   | 108.0  | 5.8       |
| 60°-70°   | 0.7    | 0.0       |
| 70°-80°   | 1.1    | 0.1       |
| 80°-90°   | 1.2    | 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°    | 825.9  | 44.3      |
| 0°-40°    | 1342.6 | 72.0      |
| 0°-60°    | 1860.9 | 99.8      |
| 0°-90°    | 1863.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1863.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1147 | 1147 | 1147 | 1147 | 1147 |      |
| 5°  | 1647 | 1551 | 1141 | 588  | 378  | 166  |
| 15° | 2475 | 1826 | 851  | 45   | 37   | 690  |
| 25° | 2673 | 2143 | 263  | 2    | 0    | 1247 |
| 35° | 2639 | 1657 | 0    | 0    | 0    | 1676 |
| 45° | 2465 | 1178 | 0    | 0    | 0    | 1755 |
| 55° | 286  | 0    | 0    | 0    | 0    | 431  |
| 65° | 0    | 2    | 2    | 0    | 0    | 0    |
| 75° | 0    | 2    | 2    | 0    | 0    | 0    |
| 85° | 0    | 2    | 2    | 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°    | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 |
| 2.5°  | 1442.7 | 1457.0 | 1450.9 | 1444.8 | 1430.5 | 1424.4 | 1424.4 | 1408.1 | 1381.5 | 1377.4 | 1359.1 |
| 5°    | 1646.8 | 1650.9 | 1650.9 | 1646.8 | 1636.6 | 1620.3 | 1616.2 | 1599.9 | 1575.4 | 1550.9 | 1526.4 |
| 7.5°  | 1824.4 | 1822.3 | 1810.1 | 1801.9 | 1783.5 | 1761.1 | 1740.7 | 1718.2 | 1681.5 | 1648.9 | 1614.2 |
| 10°   | 1969.2 | 1975.4 | 1965.2 | 1944.8 | 1920.3 | 1889.7 | 1857.0 | 1818.2 | 1763.1 | 1714.2 | 1669.3 |
| 12.5° | 2173.3 | 2171.3 | 2144.7 | 2110.0 | 2050.9 | 1993.7 | 1942.7 | 1899.9 | 1832.5 | 1773.3 | 1718.2 |
| 15°   | 2475.3 | 2471.2 | 2446.8 | 2416.1 | 2330.4 | 2244.7 | 2157.0 | 2036.6 | 1924.3 | 1826.4 | 1748.8 |
| 17.5° | 2612.0 | 2620.2 | 2599.8 | 2583.5 | 2534.5 | 2477.4 | 2399.8 | 2279.4 | 2106.0 | 1928.4 | 1765.2 |
| 20°   | 2665.1 | 2675.3 | 2661.0 | 2659.0 | 2636.5 | 2610.0 | 2546.7 | 2416.1 | 2246.8 | 2036.6 | 1834.6 |
| 22.5° | 2663.1 | 2671.2 | 2665.1 | 2691.6 | 2718.2 | 2703.9 | 2626.3 | 2495.7 | 2322.3 | 2120.2 | 1891.7 |
| 25°   | 2673.3 | 2667.1 | 2644.7 | 2683.5 | 2722.2 | 2710.0 | 2671.2 | 2559.0 | 2369.2 | 2142.7 | 1912.1 |
| 27.5° | 2720.2 | 2675.3 | 2630.4 | 2679.4 | 2697.8 | 2701.8 | 2679.4 | 2546.7 | 2361.0 | 2118.2 | 1871.3 |
| 30°   | 2746.7 | 2697.8 | 2661.0 | 2701.8 | 2701.8 | 2724.3 | 2677.3 | 2526.3 | 2291.7 | 2034.5 | 1763.1 |
| 32.5° | 2697.8 | 2687.6 | 2720.2 | 2761.0 | 2771.2 | 2771.2 | 2667.1 | 2459.0 | 2175.3 | 1863.1 | 1589.7 |
| 35°   | 2638.6 | 2663.1 | 2756.9 | 2775.3 | 2775.3 | 2730.4 | 2603.9 | 2340.6 | 2001.9 | 1657.0 | 1461.1 |
| 37.5° | 2632.5 | 2671.2 | 2775.3 | 2752.9 | 2716.1 | 2632.5 | 2448.8 | 2134.5 | 1755.0 | 1540.7 | 1365.2 |
| 40°   | 2673.3 | 2710.0 | 2771.2 | 2689.6 | 2601.8 | 2471.2 | 2250.8 | 1865.2 | 1606.0 | 1444.8 | 1248.9 |
| 42.5° | 2648.8 | 2683.5 | 2685.5 | 2565.1 | 2440.6 | 2263.1 | 1971.3 | 1646.8 | 1497.8 | 1322.3 | 1116.2 |
| 45°   | 2465.1 | 2469.2 | 2461.0 | 2332.5 | 2203.9 | 2020.3 | 1710.1 | 1538.7 | 1379.5 | 1177.5 | 820.3  |
| 47.5° | 1863.1 | 1855.0 | 1885.6 | 1848.8 | 1855.0 | 1744.8 | 1552.9 | 1412.1 | 1222.4 | 826.5  | 249.0  |
| 50°   | 1640.7 | 1630.5 | 1599.9 | 1567.2 | 1534.6 | 1481.5 | 1391.7 | 1240.7 | 881.6  | 259.2  | 8.2    |
| 52.5° | 879.5  | 928.5  | 1024.4 | 1171.3 | 1226.4 | 1222.4 | 1155.0 | 918.3  | 277.5  | 2.0    | 0.0    |
| 55°   | 285.7  | 281.6  | 314.3  | 371.4  | 510.2  | 587.7  | 612.2  | 312.2  | 6.1    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 6.1    | 20.4   | 53.1   | 69.4   | 4.1    | 0.0    | 2.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    | 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):**

|       | 55°    | 60°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 |
| 2.5°  | 1334.6 | 1306.0 | 1273.4 | 1157.1 | 1020.3 | 887.7  | 791.8  | 767.3  |
| 5°    | 1487.6 | 1438.7 | 1369.3 | 1140.7 | 842.8  | 587.7  | 420.4  | 377.5  |
| 7.5°  | 1567.2 | 1524.4 | 1450.9 | 1108.1 | 653.0  | 289.8  | 108.2  | 73.5   |
| 10°   | 1616.2 | 1565.2 | 1483.6 | 1046.9 | 426.5  | 69.4   | 38.8   | 40.8   |
| 12.5° | 1650.9 | 1591.7 | 1499.9 | 959.1  | 216.3  | 34.7   | 49.0   | 51.0   |
| 15°   | 1665.2 | 1601.9 | 1497.8 | 851.0  | 77.5   | 44.9   | 42.9   | 36.7   |
| 17.5° | 1657.0 | 1577.4 | 1471.3 | 695.9  | 26.5   | 42.9   | 22.4   | 18.4   |
| 20°   | 1646.8 | 1557.0 | 1428.5 | 555.1  | 22.4   | 24.5   | 8.2    | 4.1    |
| 22.5° | 1679.5 | 1522.3 | 1369.3 | 397.9  | 22.4   | 8.2    | 0.0    | 0.0    |
| 25°   | 1683.5 | 1508.0 | 1293.8 | 263.2  | 10.2   | 2.0    | 0.0    | 0.0    |
| 27.5° | 1642.7 | 1424.4 | 1177.5 | 155.1  | 0.0    | 0.0    | 0.0    | 0.0    |
| 30°   | 1512.1 | 1320.3 | 1053.0 | 69.4   | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.5° | 1383.6 | 1204.0 | 914.2  | 16.3   | 0.0    | 0.0    | 0.0    | 0.0    |
| 35°   | 1281.5 | 1083.6 | 761.2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 1155.0 | 940.7  | 567.3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 1022.4 | 759.1  | 283.7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 797.9  | 361.2  | 28.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 306.1  | 32.7   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 16.3   | 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    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    |
| 82.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    |
| 87.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)