

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: P1315736

Luminaire Tested: P3SQAS20R709740D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R709740D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

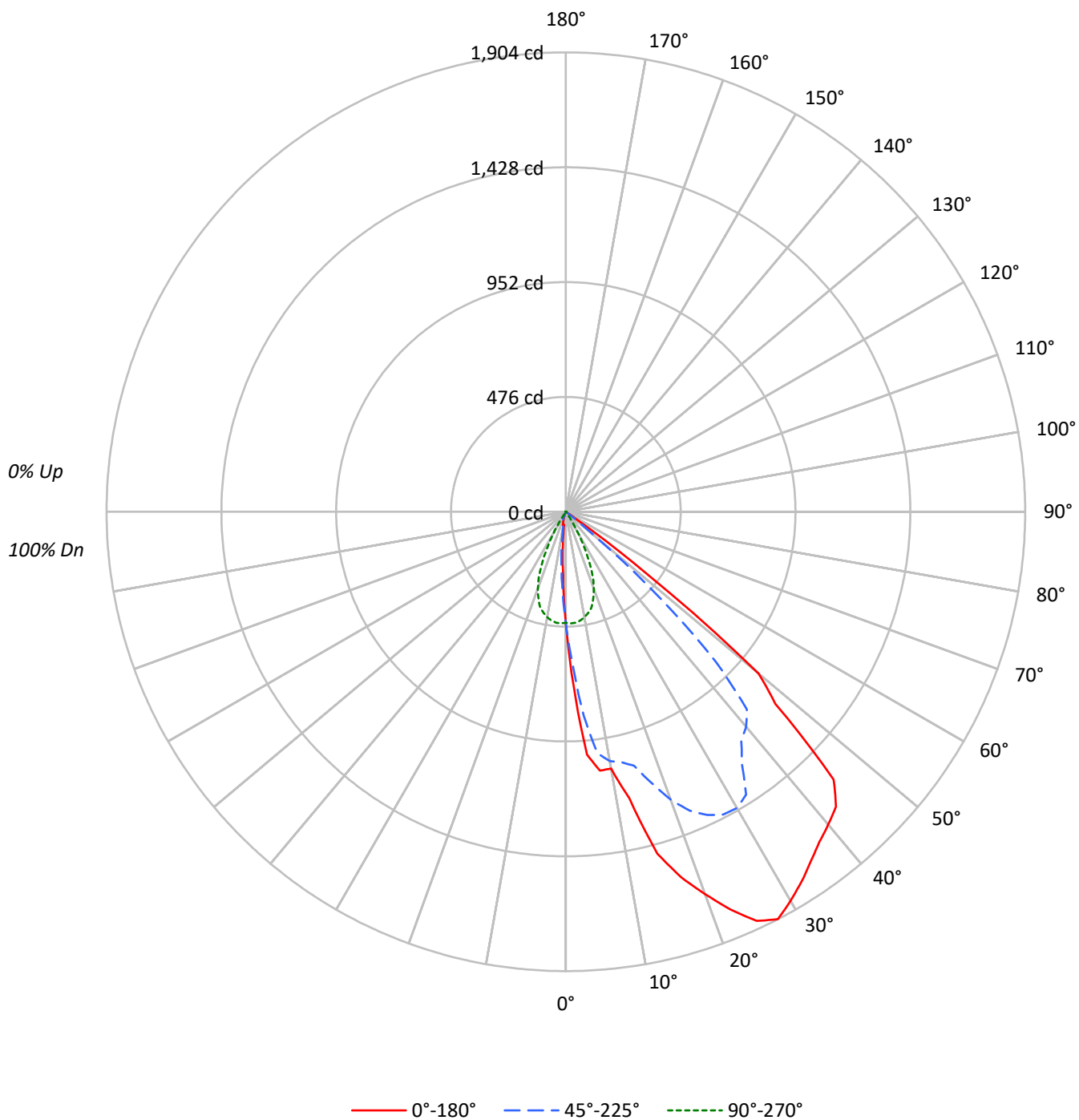
Lumens per Lamp: N/A  
Luminaire Lumens: 1238.9 lumens  
Efficiency: N/A  
Efficacy: 43.0 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1315736

CATALOG NUMBER: P3SQAS20R709740D010 E3SQCA301MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1315736

CATALOG NUMBER: P3SQAS20R709740D010 E3SQCA301MMS

**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 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  |    |    |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 53  |    |    |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 79188  | 79188  | 79188 | 79188 | 79188 |
| 5°  | 174713 | 146603 | 79802 | 36270 | 23875 |
| 10° | 188957 | 183466 | 77664 | 10091 | 10388 |
| 15° | 261545 | 194220 | 73263 | 10288 | 7489  |
| 20° | 308911 | 232650 | 62167 | 6085  | 2236  |
| 25° | 355502 | 263472 | 43858 | 988   | 0     |
| 30° | 370308 | 281991 | 20165 | 0     | 0     |
| 35° | 372008 | 267242 | 1093  | 0     | 0     |
| 40° | 380509 | 261399 | 0     | 0     | 0     |
| 45° | 382413 | 214211 | 0     | 0     | 0     |
| 50° | 279211 | 44503  | 0     | 0     | 0     |
| 55° | 15764  | 0      | 0     | 0     | 0     |
| 60° | 0      | 586    | 586   | 0     | 0     |
| 65° | 0      | 0      | 693   | 0     | 0     |
| 70° | 0      | 856    | 856   | 0     | 0     |
| 75° | 0      | 1131   | 1131  | 0     | 0     |
| 80° | 0      | 1686   | 1686  | 1686  | 0     |
| 85° | 0      | 3359   | 3359  | 3359  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 389647 cd/sqm

TEST NUMBER: P1315736

CATALOG NUMBER: P3SQAS20R709740D010 E3SQCA301MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.3   | 4.1       |
| 10°-20°   | 168.0  | 13.6      |
| 20°-30°   | 301.9  | 24.4      |
| 30°-40°   | 367.1  | 29.6      |
| 40°-50°   | 283.4  | 22.9      |
| 50°-60°   | 65.9   | 5.3       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 0.9    | 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°    | 520.2  | 42.0      |
| 0°-40°    | 887.3  | 71.6      |
| 0°-60°    | 1236.7 | 99.8      |
| 0°-90°    | 1238.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1238.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 460  | 460  | 460 | 460  | 460  |      |
| 5°  | 1011 | 848  | 462 | 210  | 138  | 95   |
| 15° | 1467 | 1089 | 411 | 58   | 42   | 410  |
| 25° | 1871 | 1386 | 231 | 5    | 0    | 851  |
| 35° | 1769 | 1271 | 5   | 0    | 0    | 1111 |
| 45° | 1570 | 880  | 0   | 0    | 0    | 1110 |
| 55° | 52   | 0    | 0   | 0    | 0    | 216  |
| 65° | 0    | 0    | 2   | 0    | 0    | 0    |
| 75° | 0    | 2    | 2   | 0    | 0    | 0    |
| 85° | 0    | 2    | 2   | 2    | 0    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1315736

CATALOG NUMBER: P3SQAS20R709740D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 459.8  | 459.8  | 459.8  | 459.8  | 459.8  | 459.8  | 459.8  | 459.8  | 459.8  | 459.8  | 459.8  |
| 2.5°  | 716.9  | 716.9  | 720.4  | 718.6  | 702.9  | 695.9  | 673.1  | 660.9  | 657.4  | 629.4  | 618.9  |
| 5°    | 1010.6 | 1012.3 | 1003.6 | 1001.8 | 984.4  | 972.1  | 952.9  | 923.2  | 893.4  | 848.0  | 807.8  |
| 7.5°  | 1082.3 | 1080.5 | 1078.8 | 1078.8 | 1075.3 | 1068.3 | 1059.5 | 1050.8 | 1038.6 | 1010.6 | 979.1  |
| 10°   | 1080.5 | 1080.5 | 1078.8 | 1078.8 | 1077.0 | 1078.8 | 1077.0 | 1071.8 | 1066.5 | 1049.1 | 1031.6 |
| 12.5° | 1216.9 | 1206.4 | 1192.4 | 1171.4 | 1136.5 | 1110.3 | 1080.5 | 1071.8 | 1068.3 | 1063.0 | 1052.6 |
| 15°   | 1466.9 | 1458.2 | 1428.5 | 1391.7 | 1356.8 | 1297.3 | 1250.1 | 1185.4 | 1134.7 | 1089.3 | 1066.5 |
| 17.5° | 1587.6 | 1592.8 | 1559.6 | 1536.9 | 1503.6 | 1456.4 | 1400.5 | 1334.0 | 1262.4 | 1176.7 | 1108.5 |
| 20°   | 1685.5 | 1690.7 | 1662.8 | 1640.0 | 1601.6 | 1552.6 | 1503.6 | 1432.0 | 1363.8 | 1269.4 | 1180.2 |
| 22.5° | 1785.1 | 1788.6 | 1762.4 | 1729.2 | 1685.5 | 1634.8 | 1571.8 | 1498.4 | 1425.0 | 1341.0 | 1246.6 |
| 25°   | 1870.8 | 1867.3 | 1823.6 | 1776.4 | 1734.4 | 1680.2 | 1619.0 | 1547.4 | 1477.4 | 1386.5 | 1297.3 |
| 27.5° | 1904.0 | 1902.3 | 1853.3 | 1807.9 | 1758.9 | 1685.5 | 1631.3 | 1568.3 | 1494.9 | 1414.5 | 1323.6 |
| 30°   | 1862.1 | 1890.0 | 1858.6 | 1825.4 | 1765.9 | 1692.5 | 1640.0 | 1564.8 | 1496.7 | 1418.0 | 1314.8 |
| 32.5° | 1818.4 | 1853.3 | 1842.8 | 1827.1 | 1757.2 | 1699.5 | 1631.3 | 1561.3 | 1480.9 | 1390.0 | 1232.6 |
| 35°   | 1769.4 | 1806.1 | 1807.9 | 1790.4 | 1727.4 | 1669.7 | 1606.8 | 1533.4 | 1442.5 | 1271.1 | 1155.7 |
| 37.5° | 1725.7 | 1760.7 | 1771.2 | 1734.4 | 1685.5 | 1608.6 | 1550.9 | 1473.9 | 1309.6 | 1194.2 | 1134.7 |
| 40°   | 1692.5 | 1718.7 | 1734.4 | 1676.7 | 1627.8 | 1552.6 | 1486.2 | 1351.5 | 1202.9 | 1162.7 | 1078.8 |
| 42.5° | 1657.5 | 1682.0 | 1689.0 | 1626.0 | 1550.9 | 1479.2 | 1383.0 | 1213.4 | 1169.7 | 1110.3 | 884.7  |
| 45°   | 1570.1 | 1599.8 | 1582.3 | 1521.1 | 1465.2 | 1390.0 | 1246.6 | 1173.2 | 1126.0 | 879.5  | 543.8  |
| 47.5° | 1178.4 | 1211.7 | 1258.9 | 1276.4 | 1295.6 | 1241.4 | 1162.7 | 1136.5 | 924.9  | 533.3  | 169.6  |
| 50°   | 1042.1 | 1036.8 | 1036.8 | 1045.6 | 1061.3 | 1078.8 | 1101.5 | 958.1  | 556.0  | 166.1  | 0.0    |
| 52.5° | 424.9  | 445.8  | 549.0  | 641.7  | 748.3  | 855.0  | 888.2  | 587.5  | 216.8  | 3.5    | 0.0    |
| 55°   | 52.5   | 52.5   | 73.4   | 125.9  | 208.1  | 335.7  | 377.7  | 188.8  | 15.7   | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.7    | 14.0   | 38.5   | 26.2   | 7.0    | 1.7    | 1.7    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    | 1.7    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    | 1.7    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1315736

CATALOG NUMBER: P3SQAS20R709740D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|--------|-------|-------|--------|-------|--------|-------|
| 0°    | 459.8  | 459.8  | 459.8 | 459.8 | 459.8  | 459.8 | 459.8  | 459.8 |
| 2.5°  | 601.5  | 580.5  | 550.8 | 463.3 | 388.2  | 321.7 | 283.2  | 264.0 |
| 5°    | 769.3  | 718.6  | 650.4 | 461.6 | 314.7  | 209.8 | 157.4  | 138.1 |
| 7.5°  | 930.2  | 872.5  | 757.1 | 454.6 | 241.3  | 122.4 | 68.2   | 54.2  |
| 10°   | 1000.1 | 958.1  | 855.0 | 444.1 | 174.8  | 57.7  | 57.7   | 59.4  |
| 12.5° | 1028.1 | 996.6  | 912.7 | 428.4 | 115.4  | 55.9  | 59.4   | 55.9  |
| 15°   | 1047.3 | 1017.6 | 940.7 | 410.9 | 66.4   | 57.7  | 47.2   | 42.0  |
| 17.5° | 1057.8 | 1022.8 | 949.4 | 377.7 | 43.7   | 49.0  | 29.7   | 24.5  |
| 20°   | 1091.0 | 1035.1 | 956.4 | 339.2 | 42.0   | 33.2  | 15.7   | 12.2  |
| 22.5° | 1147.0 | 1059.5 | 958.1 | 292.0 | 33.2   | 19.2  | 5.2    | 0.0   |
| 25°   | 1197.7 | 1092.8 | 963.4 | 230.8 | 10.5   | 5.2   | 0.0    | 0.0   |
| 27.5° | 1222.2 | 1103.3 | 961.6 | 162.6 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1192.4 | 1077.0 | 945.9 | 101.4 | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 1122.5 | 1057.8 | 896.9 | 43.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 1099.8 | 1015.8 | 785.0 | 5.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 1049.1 | 895.2  | 577.0 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 902.2  | 646.9  | 274.5 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 596.2  | 276.3  | 15.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 209.8  | 17.5   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 3.5    | 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   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 1.7    | 1.7    | 1.7   | 1.7   | 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   |
| 65°   | 0.0    | 0.0    | 1.7   | 1.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.7    | 1.7    | 1.7   | 1.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 1.7   | 0.0    | 0.0   |
| 82.5° | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 1.7   | 0.0    | 0.0   |
| 85°   | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 1.7   | 0.0    | 0.0   |
| 87.5° | 1.7    | 1.7    | 1.7   | 1.7   | 1.7    | 0.0   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)