

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: P1313791

Luminaire Tested: P3SQAS20R709730D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313791  
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: P3SQAS20R709730D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

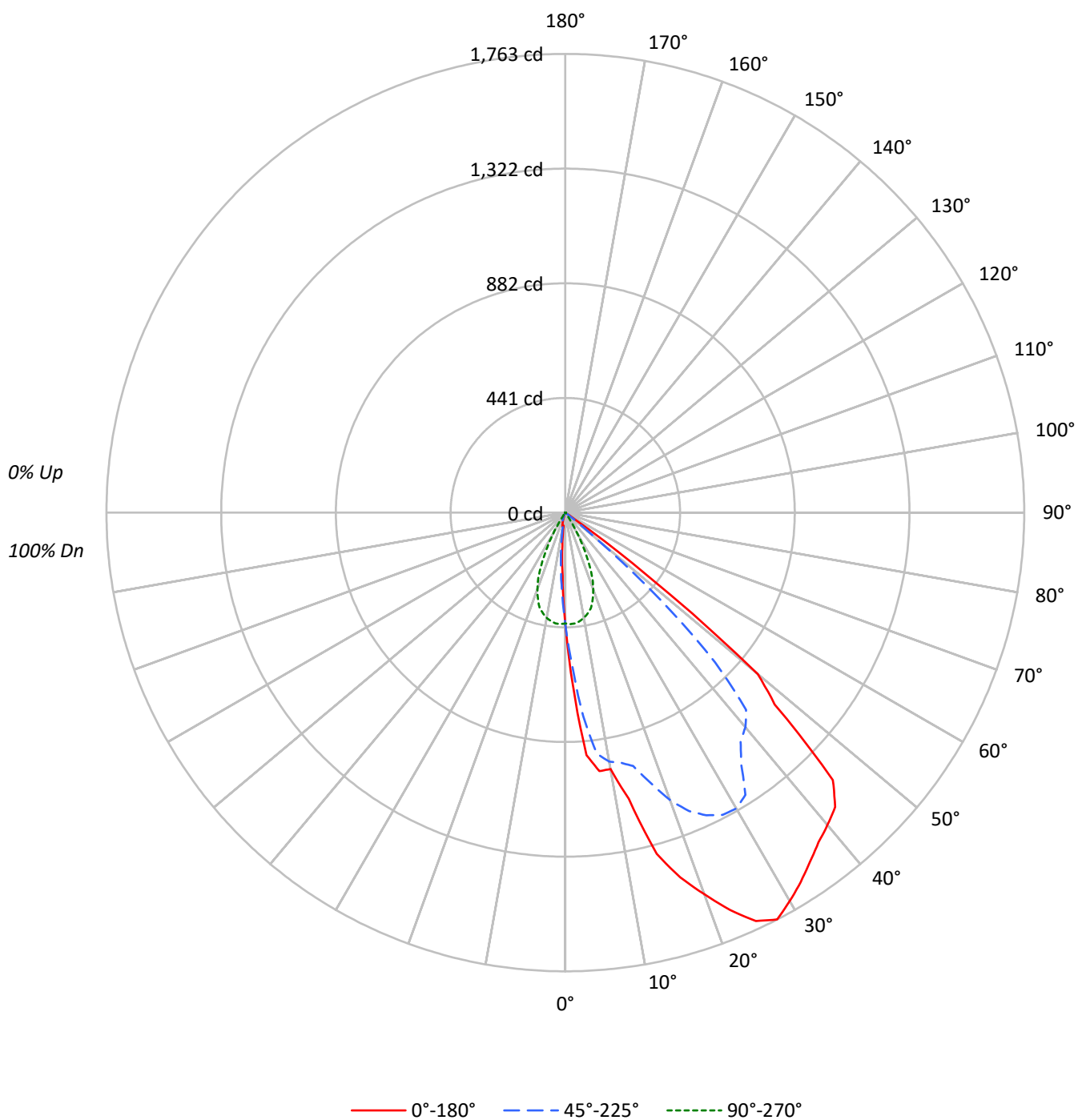
Lumens per Lamp: N/A  
Luminaire Lumens: 1147.0 lumens  
Efficiency: N/A  
Efficacy: 39.8 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA301MB

### 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 | 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°  | 73315  | 73315  | 73315 | 73315 | 73315 |
| 5°  | 161747 | 135711 | 73872 | 33573 | 22111 |
| 10° | 174932 | 169843 | 71893 | 9339  | 9618  |
| 15° | 242129 | 179796 | 67825 | 9521  | 6918  |
| 20° | 285965 | 215367 | 57549 | 5645  | 2071  |
| 25° | 329107 | 243899 | 40609 | 931   | 0     |
| 30° | 342804 | 261051 | 18673 | 0     | 0     |
| 35° | 344381 | 247395 | 1030  | 0     | 0     |
| 40° | 352249 | 241997 | 0     | 0     | 0     |
| 45° | 354014 | 198306 | 0     | 0     | 0     |
| 50° | 258473 | 41208  | 0     | 0     | 0     |
| 55° | 14593  | 0      | 0     | 0     | 0     |
| 60° | 0      | 551    | 551   | 0     | 0     |
| 65° | 0      | 0      | 652   | 0     | 0     |
| 70° | 0      | 806    | 806   | 0     | 0     |
| 75° | 0      | 1065   | 1065  | 0     | 0     |
| 80° | 0      | 1587   | 1587  | 1587  | 0     |
| 85° | 0      | 3162   | 3162  | 3162  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 360712 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.6   | 4.1       |
| 10°-20°   | 155.5  | 13.6      |
| 20°-30°   | 279.5  | 24.4      |
| 30°-40°   | 339.8  | 29.6      |
| 40°-50°   | 262.4  | 22.9      |
| 50°-60°   | 61.0   | 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°    | 481.6  | 42.0      |
| 0°-40°    | 821.4  | 71.6      |
| 0°-60°    | 1144.9 | 99.8      |
| 0°-90°    | 1147.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1147.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 426  | 426  | 426 | 426  | 426  |      |
| 5°  | 936  | 785  | 427 | 194  | 128  | 88   |
| 15° | 1358 | 1008 | 380 | 53   | 39   | 380  |
| 25° | 1732 | 1284 | 214 | 5    | 0    | 788  |
| 35° | 1638 | 1177 | 5   | 0    | 0    | 1029 |
| 45° | 1454 | 814  | 0   | 0    | 0    | 1027 |
| 55° | 49   | 0    | 0   | 0    | 0    | 200  |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 425.7  | 425.7  | 425.7  | 425.7  | 425.7  | 425.7  | 425.7  | 425.7  | 425.7  | 425.7  | 425.7  |
| 2.5°  | 663.6  | 663.6  | 666.9  | 665.2  | 650.7  | 644.2  | 623.2  | 611.8  | 608.6  | 582.7  | 573.0  |
| 5°    | 935.6  | 937.2  | 929.1  | 927.5  | 911.3  | 899.9  | 882.1  | 854.6  | 827.1  | 785.0  | 747.8  |
| 7.5°  | 1001.9 | 1000.3 | 998.7  | 998.7  | 995.4  | 989.0  | 980.9  | 972.8  | 961.4  | 935.6  | 906.4  |
| 10°   | 1000.3 | 1000.3 | 998.7  | 998.7  | 997.1  | 998.7  | 997.1  | 992.2  | 987.3  | 971.2  | 955.0  |
| 12.5° | 1126.5 | 1116.8 | 1103.9 | 1084.5 | 1052.1 | 1027.8 | 1000.3 | 992.2  | 989.0  | 984.1  | 974.4  |
| 15°   | 1358.0 | 1349.9 | 1322.4 | 1288.4 | 1256.0 | 1201.0 | 1157.3 | 1097.4 | 1050.5 | 1008.4 | 987.3  |
| 17.5° | 1469.7 | 1474.5 | 1443.8 | 1422.7 | 1392.0 | 1348.3 | 1296.5 | 1235.0 | 1168.6 | 1089.3 | 1026.2 |
| 20°   | 1560.3 | 1565.2 | 1539.3 | 1518.2 | 1482.6 | 1437.3 | 1392.0 | 1325.6 | 1262.5 | 1175.1 | 1092.6 |
| 22.5° | 1652.6 | 1655.8 | 1631.5 | 1600.8 | 1560.3 | 1513.4 | 1455.1 | 1387.1 | 1319.2 | 1241.5 | 1154.1 |
| 25°   | 1731.9 | 1728.7 | 1688.2 | 1644.5 | 1605.7 | 1555.5 | 1498.8 | 1432.5 | 1367.7 | 1283.5 | 1201.0 |
| 27.5° | 1762.7 | 1761.0 | 1715.7 | 1673.6 | 1628.3 | 1560.3 | 1510.2 | 1451.9 | 1383.9 | 1309.4 | 1225.3 |
| 30°   | 1723.8 | 1749.7 | 1720.6 | 1689.8 | 1634.8 | 1566.8 | 1518.2 | 1448.6 | 1385.5 | 1312.7 | 1217.2 |
| 32.5° | 1683.3 | 1715.7 | 1706.0 | 1691.4 | 1626.7 | 1573.3 | 1510.2 | 1445.4 | 1371.0 | 1286.8 | 1141.1 |
| 35°   | 1638.0 | 1672.0 | 1673.6 | 1657.4 | 1599.2 | 1545.8 | 1487.5 | 1419.5 | 1335.3 | 1176.7 | 1069.9 |
| 37.5° | 1597.6 | 1629.9 | 1639.6 | 1605.7 | 1560.3 | 1489.1 | 1435.7 | 1364.5 | 1212.3 | 1105.5 | 1050.5 |
| 40°   | 1566.8 | 1591.1 | 1605.7 | 1552.2 | 1506.9 | 1437.3 | 1375.8 | 1251.2 | 1113.6 | 1076.4 | 998.7  |
| 42.5° | 1534.4 | 1557.1 | 1563.6 | 1505.3 | 1435.7 | 1369.3 | 1280.3 | 1123.3 | 1082.8 | 1027.8 | 819.0  |
| 45°   | 1453.5 | 1481.0 | 1464.8 | 1408.2 | 1356.4 | 1286.8 | 1154.1 | 1086.1 | 1042.4 | 814.2  | 503.4  |
| 47.5° | 1090.9 | 1121.7 | 1165.4 | 1181.6 | 1199.4 | 1149.2 | 1076.4 | 1052.1 | 856.2  | 493.7  | 157.0  |
| 50°   | 964.7  | 959.8  | 959.8  | 967.9  | 982.5  | 998.7  | 1019.7 | 887.0  | 514.7  | 153.8  | 0.0    |
| 52.5° | 393.3  | 412.7  | 508.2  | 594.0  | 692.8  | 791.5  | 822.2  | 543.8  | 200.7  | 3.2    | 0.0    |
| 55°   | 48.6   | 48.6   | 68.0   | 116.5  | 192.6  | 310.8  | 349.6  | 174.8  | 14.6   | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.6    | 12.9   | 35.6   | 24.3   | 6.5    | 1.6    | 1.6    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 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    | 1.6    | 1.6    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 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°    | 425.7  | 425.7  | 425.7 | 425.7 | 425.7  | 425.7 | 425.7  | 425.7 |
| 2.5°  | 556.8  | 537.4  | 509.9 | 428.9 | 359.3  | 297.8 | 262.2  | 244.4 |
| 5°    | 712.2  | 665.2  | 602.1 | 427.3 | 291.3  | 194.2 | 145.7  | 127.9 |
| 7.5°  | 861.1  | 807.7  | 700.9 | 420.8 | 223.4  | 113.3 | 63.1   | 50.2  |
| 10°   | 925.8  | 887.0  | 791.5 | 411.1 | 161.9  | 53.4  | 53.4   | 55.0  |
| 12.5° | 951.7  | 922.6  | 844.9 | 396.6 | 106.8  | 51.8  | 55.0   | 51.8  |
| 15°   | 969.5  | 942.0  | 870.8 | 380.4 | 61.5   | 53.4  | 43.7   | 38.8  |
| 17.5° | 979.3  | 946.9  | 878.9 | 349.6 | 40.5   | 45.3  | 27.5   | 22.7  |
| 20°   | 1010.0 | 958.2  | 885.4 | 314.0 | 38.8   | 30.8  | 14.6   | 11.3  |
| 22.5° | 1061.8 | 980.9  | 887.0 | 270.3 | 30.8   | 17.8  | 4.9    | 0.0   |
| 25°   | 1108.7 | 1011.6 | 891.8 | 213.7 | 9.7    | 4.9   | 0.0    | 0.0   |
| 27.5° | 1131.4 | 1021.3 | 890.2 | 150.5 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1103.9 | 997.1  | 875.7 | 93.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 1039.1 | 979.3  | 830.3 | 40.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 1018.1 | 940.4  | 726.8 | 4.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 971.2  | 828.7  | 534.1 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 835.2  | 598.9  | 254.1 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 551.9  | 255.7  | 14.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 194.2  | 16.2   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 3.2    | 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°   | 1.6    | 1.6    | 1.6   | 1.6   | 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    | 1.6   | 1.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.6    | 1.6    | 1.6   | 1.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 1.6   | 0.0    | 0.0   |
| 82.5° | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 1.6   | 0.0    | 0.0   |
| 85°   | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 1.6   | 0.0    | 0.0   |
| 87.5° | 1.6    | 1.6    | 1.6   | 1.6   | 1.6    | 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)