

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: P1317488

Luminaire Tested: P3SQAS20R709830D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317488  
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: P3SQAS20R709830D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

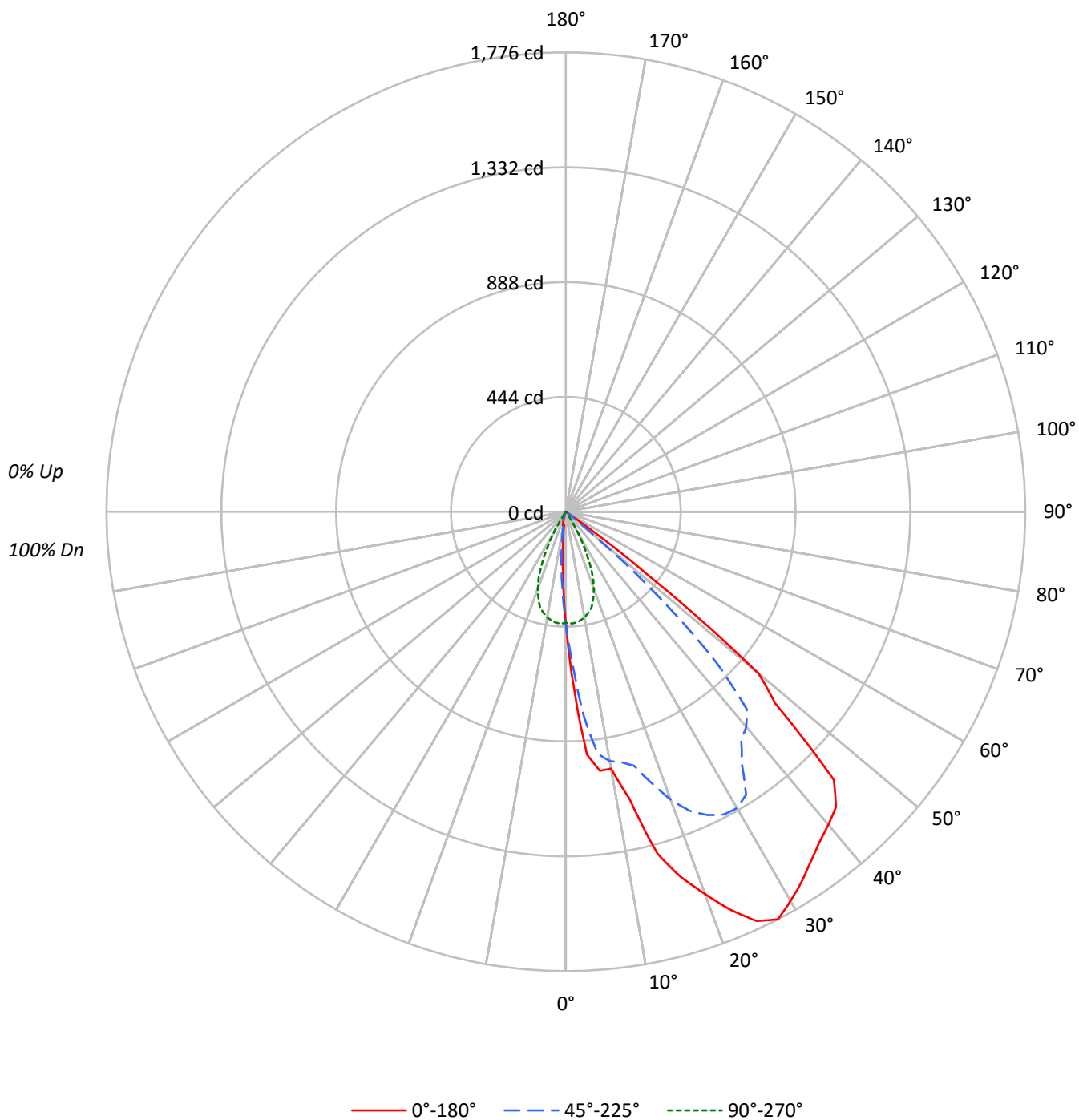
Lumens per Lamp: N/A  
Luminaire Lumens: 1156.0 lumens  
Efficiency: N/A  
Efficacy: 42.2 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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: P1317488

CATALOG NUMBER: P3SQAS20R709830D010 E3SQCA301MMS

### 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°  | 73884  | 73884  | 73884 | 73884 | 73884 |
| 5°  | 163009 | 136783 | 74460 | 33850 | 22284 |
| 10° | 176296 | 171172 | 72470 | 9409  | 9706  |
| 15° | 244036 | 181204 | 68359 | 9592  | 6989  |
| 20° | 288219 | 217053 | 58007 | 5682  | 2089  |
| 25° | 331692 | 245818 | 40913 | 931   | 0     |
| 30° | 345489 | 263099 | 18813 | 0     | 0     |
| 35° | 347094 | 249351 | 1030  | 0     | 0     |
| 40° | 355014 | 243885 | 0     | 0     | 0     |
| 45° | 356790 | 199841 | 0     | 0     | 0     |
| 50° | 260509 | 41529  | 0     | 0     | 0     |
| 55° | 14683  | 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: 363537 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.9   | 4.1       |
| 10°-20°   | 156.7  | 13.6      |
| 20°-30°   | 281.7  | 24.4      |
| 30°-40°   | 342.5  | 29.6      |
| 40°-50°   | 264.5  | 22.9      |
| 50°-60°   | 61.5   | 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°    | 485.4  | 42.0      |
| 0°-40°    | 827.9  | 71.6      |
| 0°-60°    | 1153.9 | 99.8      |
| 0°-90°    | 1156.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1156.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 429  | 429  | 429 | 429  | 429  |      |
| 5°  | 943  | 791  | 431 | 196  | 129  | 89   |
| 15° | 1369 | 1016 | 383 | 54   | 39   | 383  |
| 25° | 1746 | 1294 | 215 | 5    | 0    | 794  |
| 35° | 1651 | 1186 | 5   | 0    | 0    | 1037 |
| 45° | 1465 | 820  | 0   | 0    | 0    | 1035 |
| 55° | 49   | 0    | 0   | 0    | 0    | 201  |
| 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: P1317488

CATALOG NUMBER: P3SQAS20R709830D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 429.0  | 429.0  | 429.0  | 429.0  | 429.0  | 429.0  | 429.0  | 429.0  | 429.0  | 429.0  | 429.0  |
| 2.5°  | 668.8  | 668.8  | 672.1  | 670.5  | 655.8  | 649.3  | 628.1  | 616.6  | 613.4  | 587.3  | 577.5  |
| 5°    | 942.9  | 944.5  | 936.4  | 934.7  | 918.4  | 907.0  | 889.1  | 861.3  | 833.6  | 791.2  | 753.7  |
| 7.5°  | 1009.8 | 1008.1 | 1006.5 | 1006.5 | 1003.2 | 996.7  | 988.6  | 980.4  | 969.0  | 942.9  | 913.5  |
| 10°   | 1008.1 | 1008.1 | 1006.5 | 1006.5 | 1004.9 | 1006.5 | 1004.9 | 1000.0 | 995.1  | 978.8  | 962.5  |
| 12.5° | 1135.4 | 1125.6 | 1112.5 | 1093.0 | 1060.3 | 1035.9 | 1008.1 | 1000.0 | 996.7  | 991.8  | 982.0  |
| 15°   | 1368.7 | 1360.5 | 1332.8 | 1298.5 | 1265.9 | 1210.4 | 1166.4 | 1106.0 | 1058.7 | 1016.3 | 995.1  |
| 17.5° | 1481.2 | 1486.1 | 1455.1 | 1433.9 | 1402.9 | 1358.9 | 1306.7 | 1244.7 | 1177.8 | 1097.9 | 1034.2 |
| 20°   | 1572.6 | 1577.5 | 1551.4 | 1530.2 | 1494.3 | 1448.6 | 1402.9 | 1336.0 | 1272.4 | 1184.3 | 1101.1 |
| 22.5° | 1665.6 | 1668.8 | 1644.4 | 1613.4 | 1572.6 | 1525.3 | 1466.5 | 1398.0 | 1329.5 | 1251.2 | 1163.1 |
| 25°   | 1745.5 | 1742.2 | 1701.4 | 1657.4 | 1618.3 | 1567.7 | 1510.6 | 1443.7 | 1378.4 | 1293.6 | 1210.4 |
| 27.5° | 1776.5 | 1774.9 | 1729.2 | 1686.8 | 1641.1 | 1572.6 | 1522.0 | 1463.3 | 1394.8 | 1319.7 | 1234.9 |
| 30°   | 1737.3 | 1763.4 | 1734.1 | 1703.1 | 1647.6 | 1579.1 | 1530.2 | 1460.0 | 1396.4 | 1323.0 | 1226.7 |
| 32.5° | 1696.6 | 1729.2 | 1719.4 | 1704.7 | 1639.5 | 1585.6 | 1522.0 | 1456.8 | 1381.7 | 1296.9 | 1150.1 |
| 35°   | 1650.9 | 1685.1 | 1686.8 | 1670.5 | 1611.7 | 1557.9 | 1499.2 | 1430.7 | 1345.8 | 1186.0 | 1078.3 |
| 37.5° | 1610.1 | 1642.7 | 1652.5 | 1618.3 | 1572.6 | 1500.8 | 1447.0 | 1375.2 | 1221.8 | 1114.2 | 1058.7 |
| 40°   | 1579.1 | 1603.6 | 1618.3 | 1564.4 | 1518.7 | 1448.6 | 1386.6 | 1261.0 | 1122.3 | 1084.8 | 1006.5 |
| 42.5° | 1546.5 | 1569.3 | 1575.8 | 1517.1 | 1447.0 | 1380.1 | 1290.4 | 1132.1 | 1091.3 | 1035.9 | 825.4  |
| 45°   | 1464.9 | 1492.6 | 1476.3 | 1419.2 | 1367.0 | 1296.9 | 1163.1 | 1094.6 | 1050.6 | 820.5  | 507.3  |
| 47.5° | 1099.5 | 1130.5 | 1174.5 | 1190.8 | 1208.8 | 1158.2 | 1084.8 | 1060.3 | 863.0  | 497.5  | 158.2  |
| 50°   | 972.3  | 967.4  | 967.4  | 975.5  | 990.2  | 1006.5 | 1027.7 | 894.0  | 518.8  | 155.0  | 0.0    |
| 52.5° | 396.4  | 416.0  | 512.2  | 598.7  | 698.2  | 797.7  | 828.7  | 548.1  | 202.3  | 3.3    | 0.0    |
| 55°   | 48.9   | 48.9   | 68.5   | 117.5  | 194.1  | 313.2  | 352.4  | 176.2  | 14.7   | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.6    | 13.1   | 35.9   | 24.5   | 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°    | 429.0  | 429.0  | 429.0 | 429.0 | 429.0  | 429.0 | 429.0  | 429.0 |
| 2.5°  | 561.2  | 541.6  | 513.9 | 432.3 | 362.1  | 300.2 | 264.3  | 246.3 |
| 5°    | 717.8  | 670.5  | 606.8 | 430.7 | 293.6  | 195.8 | 146.8  | 128.9 |
| 7.5°  | 867.9  | 814.0  | 706.4 | 424.1 | 225.1  | 114.2 | 63.6   | 50.6  |
| 10°   | 933.1  | 894.0  | 797.7 | 414.4 | 163.1  | 53.8  | 53.8   | 55.5  |
| 12.5° | 959.2  | 929.8  | 851.5 | 399.7 | 107.7  | 52.2  | 55.5   | 52.2  |
| 15°   | 977.1  | 949.4  | 877.6 | 383.4 | 62.0   | 53.8  | 44.0   | 39.2  |
| 17.5° | 986.9  | 954.3  | 885.8 | 352.4 | 40.8   | 45.7  | 27.7   | 22.8  |
| 20°   | 1017.9 | 965.7  | 892.3 | 316.5 | 39.2   | 31.0  | 14.7   | 11.4  |
| 22.5° | 1070.1 | 988.6  | 894.0 | 272.4 | 31.0   | 17.9  | 4.9    | 0.0   |
| 25°   | 1117.4 | 1019.6 | 898.8 | 215.3 | 9.8    | 4.9   | 0.0    | 0.0   |
| 27.5° | 1140.3 | 1029.4 | 897.2 | 151.7 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1112.5 | 1004.9 | 882.5 | 94.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 1047.3 | 986.9  | 836.9 | 40.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 1026.1 | 947.8  | 732.5 | 4.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 978.8  | 835.2  | 538.3 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 841.8  | 603.6  | 256.1 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 556.3  | 257.7  | 14.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 195.8  | 16.3   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 3.3    | 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°   | 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)