

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: P1317337

Luminaire Tested: P3SQAS17R659830DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R659830DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

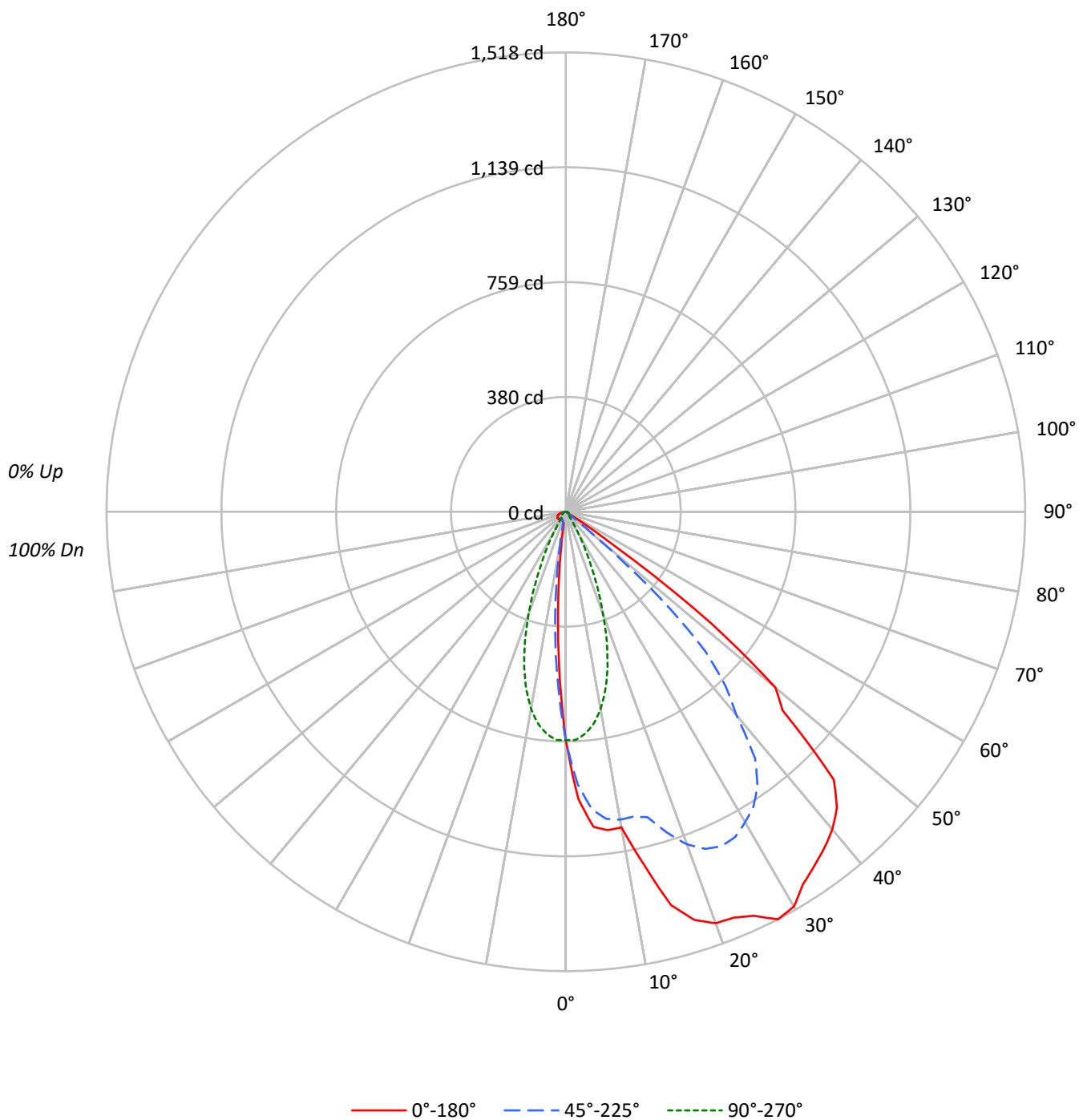
Lumens per Lamp: N/A  
Luminaire Lumens: 1131.0 lumens  
Efficiency: N/A  
Efficacy: 55.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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: P1317337

CATALOG NUMBER: P3SQAS17R659830DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1317337

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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 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 92  | 92  | 90  |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 88  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 83  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 74  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 67  | 67  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 60  | 60  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 54  | 54  | 53  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 49  | 49  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 45  | 45  | 43  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 41  | 41  | 40  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 38  | 38  | 36  |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 129959 | 129959 | 129959 | 129959 | 129959 |
| 5°  | 180643 | 170477 | 127205 | 69896  | 49167  |
| 10° | 185197 | 180668 | 115718 | 19534  | 7188   |
| 15° | 239953 | 186304 | 94730  | 6294   | 6080   |
| 20° | 265163 | 214341 | 65924  | 5608   | 5810   |
| 25° | 279852 | 231604 | 37302  | 5359   | 5815   |
| 30° | 299651 | 235596 | 16824  | 5369   | 6085   |
| 35° | 300734 | 232026 | 5445   | 5677   | 6665   |
| 40° | 308094 | 197123 | 3710   | 6070   | 7397   |
| 45° | 305156 | 158874 | 3726   | 6576   | 8013   |
| 50° | 242156 | 37484  | 3778   | 7234   | 9136   |
| 55° | 57530  | 2132   | 3873   | 8107   | 10239  |
| 60° | 2032   | 2446   | 4443   | 8508   | 10919  |
| 65° | 2404   | 2404   | 4320   | 9088   | 11981  |
| 70° | 1762   | 2367   | 4129   | 8862   | 12438  |
| 75° | 1597   | 2329   | 3926   | 9382   | 12510  |
| 80° | 1190   | 2380   | 4661   | 9323   | 12794  |
| 85° | 2371   | 4742   | 4742   | 9287   | 11659  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 45°

Luminance: 305740 cd/sqm

TEST NUMBER: P1317337

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.0   | 5.6       |
| 10°-20°   | 165.8  | 14.7      |
| 20°-30°   | 260.5  | 23.0      |
| 30°-40°   | 298.0  | 26.3      |
| 40°-50°   | 239.5  | 21.2      |
| 50°-60°   | 77.9   | 6.9       |
| 60°-70°   | 13.8   | 1.2       |
| 70°-80°   | 9.1    | 0.8       |
| 80°-90°   | 3.3    | 0.3       |
| 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°    | 489.3  | 43.3      |
| 0°-40°    | 787.3  | 69.6      |
| 0°-60°    | 1104.7 | 97.7      |
| 0°-90°    | 1131.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1131.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 755  | 755  | 755 | 755  | 755  |      |
| 5°  | 1045 | 986  | 736 | 404  | 284  | 99   |
| 15° | 1346 | 1045 | 531 | 35   | 34   | 375  |
| 25° | 1473 | 1219 | 196 | 28   | 31   | 686  |
| 35° | 1430 | 1104 | 26  | 27   | 32   | 898  |
| 45° | 1253 | 652  | 15  | 27   | 33   | 901  |
| 55° | 192  | 7    | 13  | 27   | 34   | 274  |
| 65° | 6    | 6    | 11  | 22   | 29   | 5    |
| 75° | 2    | 4    | 6   | 14   | 19   | 3    |
| 85° | 1    | 2    | 2   | 5    | 6    | 1    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1317337

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 754.6  | 754.6  | 754.6  | 754.6  | 754.6  | 754.6  | 754.6  | 754.6  | 754.6  | 754.6  | 754.6  |
| 2.5°  | 949.7  | 946.1  | 950.8  | 942.6  | 941.4  | 933.2  | 928.5  | 926.2  | 915.6  | 901.5  | 888.6  |
| 5°    | 1044.9 | 1030.8 | 1034.3 | 1033.1 | 1027.2 | 1023.7 | 1019.0 | 1013.1 | 999.0  | 986.1  | 969.7  |
| 7.5°  | 1061.3 | 1049.6 | 1051.9 | 1053.1 | 1049.6 | 1048.4 | 1047.2 | 1044.9 | 1035.5 | 1023.7 | 1009.6 |
| 10°   | 1059.0 | 1047.2 | 1046.1 | 1042.5 | 1039.0 | 1040.2 | 1040.2 | 1040.2 | 1037.8 | 1033.1 | 1028.4 |
| 12.5° | 1195.3 | 1178.9 | 1175.3 | 1150.7 | 1128.3 | 1089.5 | 1064.9 | 1041.4 | 1030.8 | 1031.9 | 1028.4 |
| 15°   | 1345.8 | 1344.6 | 1332.8 | 1309.3 | 1271.7 | 1236.5 | 1180.0 | 1137.7 | 1083.7 | 1044.9 | 1028.4 |
| 17.5° | 1413.9 | 1412.8 | 1402.2 | 1382.2 | 1355.2 | 1322.3 | 1281.1 | 1231.8 | 1171.8 | 1111.9 | 1062.5 |
| 20°   | 1446.8 | 1455.1 | 1443.3 | 1426.9 | 1401.0 | 1370.4 | 1331.7 | 1287.0 | 1230.6 | 1169.5 | 1110.7 |
| 22.5° | 1451.5 | 1462.1 | 1451.5 | 1439.8 | 1421.0 | 1401.0 | 1368.1 | 1322.3 | 1264.7 | 1205.9 | 1148.3 |
| 25°   | 1472.7 | 1476.2 | 1453.9 | 1438.6 | 1421.0 | 1406.9 | 1381.0 | 1341.1 | 1282.3 | 1218.8 | 1162.4 |
| 27.5° | 1518.5 | 1503.3 | 1456.2 | 1435.1 | 1418.6 | 1405.7 | 1381.0 | 1339.9 | 1276.4 | 1211.8 | 1153.0 |
| 30°   | 1506.8 | 1500.9 | 1459.8 | 1439.8 | 1425.7 | 1412.8 | 1382.2 | 1329.3 | 1252.9 | 1184.7 | 1123.6 |
| 32.5° | 1458.6 | 1470.3 | 1456.2 | 1449.2 | 1442.1 | 1425.7 | 1381.0 | 1309.3 | 1223.5 | 1154.2 | 1071.9 |
| 35°   | 1430.4 | 1444.5 | 1445.7 | 1445.7 | 1437.4 | 1412.8 | 1359.9 | 1279.9 | 1194.1 | 1103.6 | 993.2  |
| 37.5° | 1402.2 | 1413.9 | 1421.0 | 1425.7 | 1413.9 | 1378.7 | 1311.7 | 1240.0 | 1146.0 | 1027.2 | 833.3  |
| 40°   | 1370.4 | 1378.7 | 1384.5 | 1386.9 | 1369.3 | 1323.4 | 1262.3 | 1181.2 | 1075.4 | 876.8  | 744.0  |
| 42.5° | 1325.8 | 1330.5 | 1329.3 | 1328.1 | 1309.3 | 1258.8 | 1201.2 | 1116.6 | 907.4  | 781.6  | 620.6  |
| 45°   | 1252.9 | 1248.2 | 1255.3 | 1255.3 | 1230.6 | 1193.0 | 1116.6 | 952.0  | 812.2  | 652.3  | 399.6  |
| 47.5° | 970.8  | 974.4  | 1008.4 | 1063.7 | 1097.8 | 1087.2 | 983.8  | 833.3  | 682.9  | 427.8  | 132.8  |
| 50°   | 903.8  | 900.3  | 901.5  | 907.4  | 910.9  | 881.5  | 807.5  | 704.0  | 451.3  | 139.9  | 9.4    |
| 52.5° | 606.5  | 610.0  | 637.0  | 699.3  | 719.3  | 698.2  | 627.6  | 470.1  | 164.5  | 9.4    | 8.2    |
| 55°   | 191.6  | 204.5  | 219.8  | 252.7  | 310.3  | 346.7  | 339.7  | 166.9  | 10.6   | 7.1    | 8.2    |
| 57.5° | 7.1    | 7.1    | 9.4    | 16.5   | 31.7   | 51.7   | 54.1   | 10.6   | 8.2    | 8.2    | 8.2    |
| 60°   | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 62.5° | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 7.1    | 7.1    | 7.1    | 7.1    |
| 65°   | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 7.1    |
| 67.5° | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 5.9    | 5.9    | 5.9    | 5.9    |
| 70°   | 3.5    | 3.5    | 3.5    | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 5.9    |
| 72.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 4.7    | 4.7    | 4.7    |
| 75°   | 2.4    | 2.4    | 2.4    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 77.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.5    | 3.5    | 3.5    |
| 80°   | 1.2    | 1.2    | 1.2    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.5    |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.4    | 2.4    | 2.4    |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.4    | 2.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 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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CATALOG NUMBER: P3SQAS17R659830DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|--------|-------|-------|--------|-------|--------|-------|
| 0°    | 754.6  | 754.6  | 754.6 | 754.6 | 754.6  | 754.6 | 754.6  | 754.6 |
| 2.5°  | 881.5  | 867.4  | 839.2 | 754.6 | 666.4  | 578.3 | 523.0  | 508.9 |
| 5°    | 950.8  | 934.4  | 894.4 | 735.8 | 557.1  | 404.3 | 317.3  | 284.4 |
| 7.5°  | 993.2  | 973.2  | 926.2 | 706.4 | 433.7  | 235.1 | 141.0  | 112.8 |
| 10°   | 1012.0 | 994.3  | 941.4 | 661.7 | 313.8  | 111.7 | 49.4   | 41.1  |
| 12.5° | 1020.2 | 1006.1 | 947.3 | 602.9 | 204.5  | 49.4  | 36.4   | 35.3  |
| 15°   | 1023.7 | 1008.4 | 945.0 | 531.3 | 116.4  | 35.3  | 34.1   | 34.1  |
| 17.5° | 1027.2 | 1009.6 | 930.9 | 449.0 | 64.6   | 32.9  | 31.7   | 32.9  |
| 20°   | 1055.5 | 1004.9 | 906.2 | 359.7 | 42.3   | 30.6  | 30.6   | 31.7  |
| 22.5° | 1083.7 | 1003.7 | 862.7 | 275.0 | 32.9   | 29.4  | 30.6   | 30.6  |
| 25°   | 1093.1 | 992.0  | 807.5 | 196.3 | 28.2   | 28.2  | 29.4   | 30.6  |
| 27.5° | 1075.4 | 957.9  | 733.4 | 132.8 | 24.7   | 28.2  | 29.4   | 30.6  |
| 30°   | 1034.3 | 900.3  | 644.1 | 84.6  | 23.5   | 27.0  | 29.4   | 30.6  |
| 32.5° | 957.9  | 786.3  | 544.2 | 50.5  | 22.3   | 27.0  | 30.6   | 30.6  |
| 35°   | 805.1  | 659.4  | 431.3 | 25.9  | 22.3   | 27.0  | 30.6   | 31.7  |
| 37.5° | 704.0  | 550.1  | 300.9 | 17.6  | 22.3   | 27.0  | 30.6   | 31.7  |
| 40°   | 584.1  | 397.3  | 125.8 | 16.5  | 22.3   | 27.0  | 30.6   | 32.9  |
| 42.5° | 404.3  | 172.8  | 20.0  | 15.3  | 21.2   | 27.0  | 31.7   | 32.9  |
| 45°   | 145.7  | 22.3   | 9.4   | 15.3  | 21.2   | 27.0  | 31.7   | 32.9  |
| 47.5° | 12.9   | 8.2    | 9.4   | 15.3  | 21.2   | 27.0  | 31.7   | 34.1  |
| 50°   | 8.2    | 8.2    | 8.2   | 14.1  | 21.2   | 27.0  | 31.7   | 34.1  |
| 52.5° | 8.2    | 8.2    | 8.2   | 14.1  | 20.0   | 27.0  | 32.9   | 34.1  |
| 55°   | 8.2    | 8.2    | 8.2   | 12.9  | 20.0   | 27.0  | 31.7   | 34.1  |
| 57.5° | 8.2    | 8.2    | 9.4   | 12.9  | 20.0   | 25.9  | 31.7   | 32.9  |
| 60°   | 8.2    | 8.2    | 8.2   | 12.9  | 18.8   | 24.7  | 30.6   | 31.7  |
| 62.5° | 7.1    | 8.2    | 8.2   | 11.8  | 17.6   | 23.5  | 29.4   | 30.6  |
| 65°   | 7.1    | 7.1    | 8.2   | 10.6  | 16.5   | 22.3  | 27.0   | 29.4  |
| 67.5° | 5.9    | 7.1    | 7.1   | 9.4   | 14.1   | 20.0  | 24.7   | 27.0  |
| 70°   | 5.9    | 5.9    | 5.9   | 8.2   | 12.9   | 17.6  | 23.5   | 24.7  |
| 72.5° | 4.7    | 5.9    | 5.9   | 7.1   | 10.6   | 15.3  | 20.0   | 22.3  |
| 75°   | 4.7    | 4.7    | 4.7   | 5.9   | 9.4    | 14.1  | 17.6   | 18.8  |
| 77.5° | 3.5    | 3.5    | 4.7   | 4.7   | 8.2    | 10.6  | 15.3   | 16.5  |
| 80°   | 3.5    | 3.5    | 3.5   | 4.7   | 5.9    | 9.4   | 11.8   | 12.9  |
| 82.5° | 2.4    | 2.4    | 2.4   | 3.5   | 4.7    | 5.9   | 8.2    | 9.4   |
| 85°   | 2.4    | 2.4    | 2.4   | 2.4   | 3.5    | 4.7   | 5.9    | 5.9   |
| 87.5° | 1.2    | 1.2    | 1.2   | 2.4   | 2.4    | 2.4   | 2.4    | 2.4   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)