

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: P1307897

Luminaire Tested: P3SQAS09R559030DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R559030DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

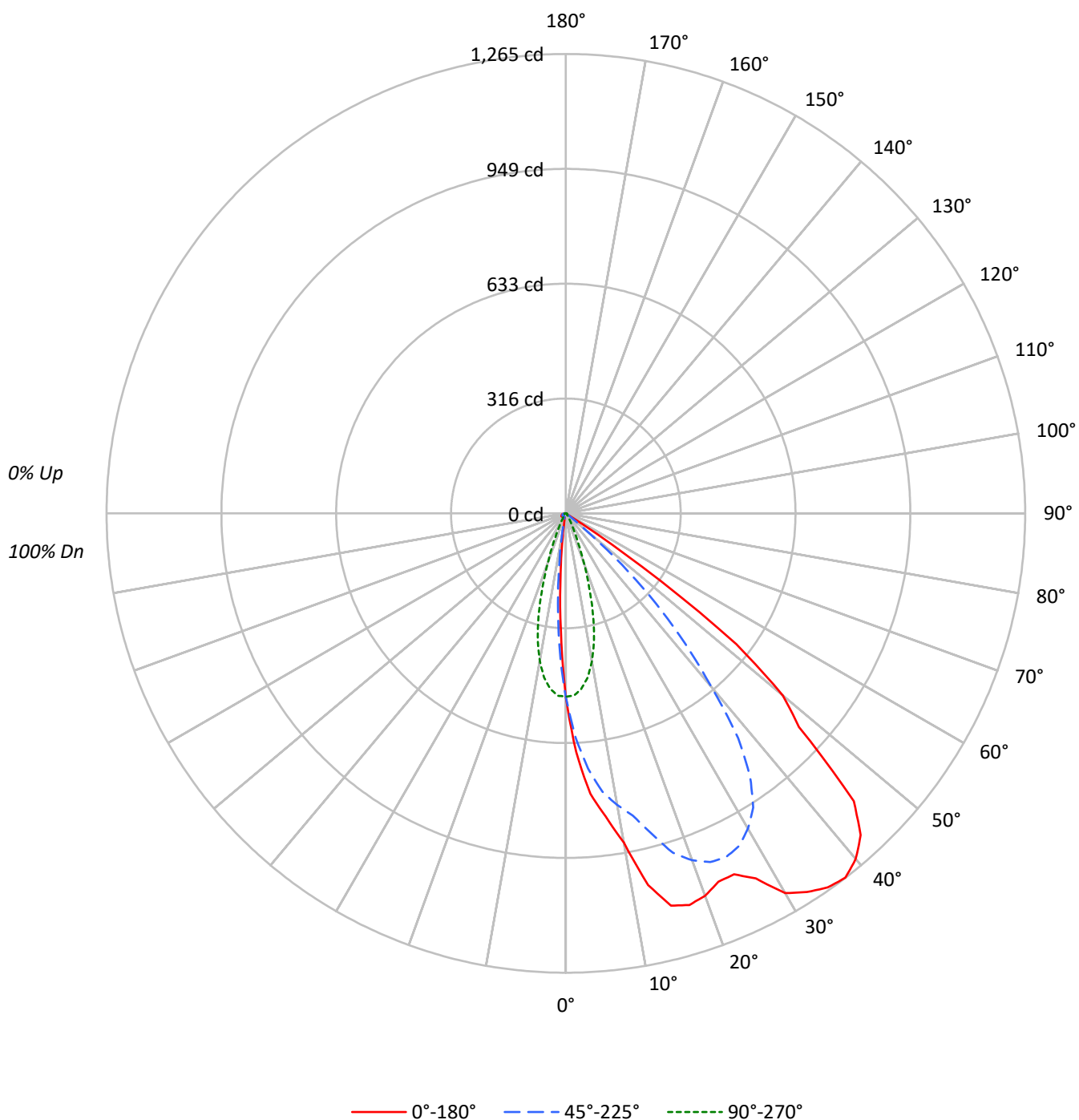
Lumens per Lamp: N/A  
Luminaire Lumens: 842.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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: P3SQAS09R559030DE010 E3SQCA301MW

### 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 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 86  | 83  | 81  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 59  | 55  | 63  | 59  | 55  | 53  |    |    |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 86921  | 86921  | 86921 | 86921 | 86921 |
| 5°  | 134034 | 122019 | 83951 | 43116 | 28318 |
| 10° | 161029 | 142614 | 72260 | 10878 | 4354  |
| 15° | 199391 | 162875 | 51635 | 2995  | 2354  |
| 20° | 205360 | 186318 | 26667 | 2016  | 2016  |
| 25° | 208345 | 198464 | 10699 | 1805  | 2090  |
| 30° | 240130 | 199403 | 4653  | 1889  | 2188  |
| 35° | 264341 | 185920 | 1997  | 1997  | 2460  |
| 40° | 279205 | 139928 | 1147  | 2293  | 2630  |
| 45° | 273079 | 85514  | 1072  | 2484  | 3215  |
| 50° | 208906 | 18219  | 1179  | 2947  | 3724  |
| 55° | 76657  | 661    | 1321  | 3303  | 4174  |
| 60° | 758    | 758    | 1516  | 3789  | 4788  |
| 65° | 897    | 897    | 1793  | 3871  | 5053  |
| 70° | 755    | 1108   | 1863  | 4431  | 5891  |
| 75° | 466    | 998    | 1930  | 4858  | 6787  |
| 80° | 694    | 1488   | 2182  | 5058  | 7240  |
| 85° | 0      | 1383   | 2964  | 5730  | 7311  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 273079 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.4   | 5.3       |
| 10°-20°   | 127.2  | 15.1      |
| 20°-30°   | 195.2  | 23.2      |
| 30°-40°   | 227.4  | 27.0      |
| 40°-50°   | 181.7  | 21.6      |
| 50°-60°   | 53.8   | 6.4       |
| 60°-70°   | 5.8    | 0.7       |
| 70°-80°   | 4.5    | 0.5       |
| 80°-90°   | 1.9    | 0.2       |
| 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°    | 366.8  | 43.6      |
| 0°-40°    | 594.3  | 70.6      |
| 0°-60°    | 829.8  | 98.5      |
| 0°-90°    | 842.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 842.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 505  | 505  | 505 | 505  | 505  |      |
| 5°  | 775  | 706  | 486 | 249  | 164  | 77   |
| 15° | 1118 | 914  | 290 | 17   | 13   | 309  |
| 25° | 1096 | 1044 | 56  | 10   | 11   | 521  |
| 35° | 1257 | 884  | 10  | 10   | 12   | 783  |
| 45° | 1121 | 351  | 4   | 10   | 13   | 808  |
| 55° | 255  | 2    | 4   | 11   | 14   | 270  |
| 65° | 2    | 2    | 4   | 10   | 12   | 2    |
| 75° | 1    | 2    | 3   | 7    | 10   | 1    |
| 85° | 0    | 1    | 2   | 3    | 4    | 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°    | 504.7  | 504.7  | 504.7  | 504.7  | 504.7  | 504.7  | 504.7  | 504.7  | 504.7  | 504.7  | 504.7 |
| 2.5°  | 658.3  | 658.3  | 656.1  | 656.8  | 655.3  | 647.3  | 645.8  | 635.6  | 626.8  | 617.3  | 609.3 |
| 5°    | 775.3  | 776.7  | 774.6  | 770.2  | 764.3  | 758.5  | 746.0  | 736.5  | 724.1  | 705.8  | 689.0 |
| 7.5°  | 841.8  | 840.4  | 836.7  | 835.3  | 831.6  | 825.0  | 816.2  | 806.0  | 791.4  | 773.1  | 753.3 |
| 10°   | 920.8  | 908.4  | 904.7  | 898.9  | 887.2  | 874.0  | 858.7  | 844.8  | 832.3  | 815.5  | 794.3 |
| 12.5° | 1048.1 | 1045.9 | 1031.3 | 1020.3 | 1004.2 | 975.0  | 948.6  | 917.9  | 881.3  | 852.1  | 824.3 |
| 15°   | 1118.3 | 1119.8 | 1113.2 | 1104.4 | 1094.2 | 1070.0 | 1043.7 | 1007.9 | 964.7  | 913.5  | 868.2 |
| 17.5° | 1130.7 | 1132.9 | 1129.3 | 1125.6 | 1122.7 | 1108.8 | 1092.7 | 1067.1 | 1027.6 | 980.1  | 912.8 |
| 20°   | 1120.5 | 1124.9 | 1125.6 | 1130.0 | 1135.9 | 1130.0 | 1116.8 | 1099.3 | 1066.4 | 1016.6 | 952.3 |
| 22.5° | 1097.8 | 1105.9 | 1111.7 | 1127.1 | 1142.4 | 1142.4 | 1134.4 | 1120.5 | 1088.3 | 1039.3 | 973.5 |
| 25°   | 1096.4 | 1097.8 | 1100.0 | 1124.9 | 1149.0 | 1154.1 | 1146.8 | 1132.2 | 1097.1 | 1044.4 | 972.8 |
| 27.5° | 1132.9 | 1123.4 | 1108.8 | 1133.7 | 1162.2 | 1166.6 | 1156.3 | 1136.6 | 1094.9 | 1032.7 | 947.9 |
| 30°   | 1207.5 | 1186.3 | 1155.6 | 1173.9 | 1193.6 | 1188.5 | 1168.0 | 1136.6 | 1080.3 | 1002.7 | 901.1 |
| 32.5° | 1236.1 | 1224.4 | 1213.4 | 1233.1 | 1236.8 | 1215.6 | 1179.0 | 1132.2 | 1056.9 | 960.3  | 824.3 |
| 35°   | 1257.3 | 1258.0 | 1253.6 | 1257.3 | 1239.7 | 1209.7 | 1169.5 | 1108.1 | 1013.0 | 884.3  | 722.6 |
| 37.5° | 1264.6 | 1266.1 | 1256.5 | 1243.4 | 1217.0 | 1182.7 | 1134.4 | 1064.2 | 939.8  | 779.7  | 569.0 |
| 40°   | 1241.9 | 1237.5 | 1222.2 | 1203.9 | 1175.4 | 1140.3 | 1087.6 | 983.0  | 830.9  | 622.4  | 444.0 |
| 42.5° | 1201.7 | 1194.4 | 1176.1 | 1154.1 | 1124.2 | 1079.5 | 995.4  | 868.9  | 675.1  | 485.6  | 310.8 |
| 45°   | 1121.2 | 1116.1 | 1093.4 | 1077.4 | 1041.5 | 983.7  | 875.5  | 716.0  | 522.2  | 351.1  | 179.9 |
| 47.5° | 871.1  | 871.8  | 889.4  | 897.4  | 885.0  | 838.9  | 711.7  | 544.2  | 381.1  | 209.2  | 60.7  |
| 50°   | 779.7  | 776.0  | 758.5  | 734.3  | 694.1  | 625.3  | 522.2  | 384.7  | 225.3  | 68.0   | 8.8   |
| 52.5° | 591.7  | 591.7  | 582.9  | 570.5  | 528.1  | 461.5  | 353.3  | 212.8  | 79.0   | 11.7   | 2.2   |
| 55°   | 255.3  | 242.1  | 249.4  | 263.3  | 252.3  | 219.4  | 165.3  | 63.6   | 13.9   | 2.2    | 2.2   |
| 57.5° | 3.7    | 8.8    | 13.2   | 21.2   | 28.5   | 34.4   | 18.3   | 6.6    | 2.2    | 2.2    | 2.2   |
| 60°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2   |
| 62.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2   |
| 65°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2   |
| 67.5° | 1.5    | 1.5    | 1.5    | 2.2    | 1.5    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2   |
| 70°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 2.2    | 2.2   |
| 72.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 75°   | 0.7    | 0.7    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 77.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 80°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5    | 1.5   |
| 82.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   |
| 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°    | 504.7 | 504.7 | 504.7 | 504.7 | 504.7  | 504.7 | 504.7  | 504.7 |
| 2.5°  | 597.6 | 585.1 | 564.6 | 502.5 | 438.1  | 378.9 | 336.4  | 320.4 |
| 5°    | 670.0 | 647.3 | 612.9 | 485.6 | 357.7  | 249.4 | 188.0  | 163.8 |
| 7.5°  | 727.0 | 697.8 | 648.0 | 456.4 | 262.6  | 133.1 | 79.7   | 62.9  |
| 10°   | 765.0 | 732.9 | 667.8 | 413.2 | 174.1  | 62.2  | 30.0   | 24.9  |
| 12.5° | 792.8 | 752.6 | 675.1 | 357.7 | 102.4  | 28.5  | 16.1   | 14.6  |
| 15°   | 813.3 | 761.4 | 666.3 | 289.6 | 56.3   | 16.8  | 13.2   | 13.2  |
| 17.5° | 841.8 | 765.8 | 645.1 | 213.6 | 32.2   | 12.4  | 12.4   | 12.4  |
| 20°   | 863.8 | 765.8 | 604.9 | 145.5 | 19.7   | 11.0  | 11.0   | 11.0  |
| 22.5° | 874.8 | 754.1 | 555.9 | 92.2  | 13.9   | 10.2  | 11.0   | 11.0  |
| 25°   | 863.8 | 725.5 | 493.0 | 56.3  | 11.0   | 9.5   | 10.2   | 11.0  |
| 27.5° | 823.6 | 668.5 | 408.9 | 35.8  | 8.8    | 9.5   | 10.2   | 11.0  |
| 30°   | 756.3 | 585.9 | 313.8 | 23.4  | 8.0    | 9.5   | 10.2   | 11.0  |
| 32.5° | 661.2 | 463.0 | 203.3 | 15.4  | 7.3    | 9.5   | 10.2   | 11.0  |
| 35°   | 516.4 | 327.7 | 122.9 | 9.5   | 7.3    | 9.5   | 11.0   | 11.7  |
| 37.5° | 386.9 | 218.7 | 66.6  | 5.9   | 7.3    | 9.5   | 11.0   | 11.7  |
| 40°   | 268.4 | 127.3 | 28.5  | 5.1   | 7.3    | 10.2  | 11.7   | 11.7  |
| 42.5° | 155.8 | 50.5  | 7.3   | 4.4   | 7.3    | 10.2  | 11.7   | 12.4  |
| 45°   | 57.0  | 10.2  | 2.2   | 4.4   | 8.0    | 10.2  | 11.7   | 13.2  |
| 47.5° | 8.0   | 2.2   | 2.2   | 4.4   | 8.0    | 10.2  | 12.4   | 13.2  |
| 50°   | 2.2   | 2.2   | 2.2   | 4.4   | 8.0    | 11.0  | 13.2   | 13.9  |
| 52.5° | 2.2   | 2.2   | 2.2   | 4.4   | 8.0    | 11.0  | 13.2   | 13.9  |
| 55°   | 2.2   | 2.2   | 2.2   | 4.4   | 8.0    | 11.0  | 13.2   | 13.9  |
| 57.5° | 2.2   | 2.2   | 2.2   | 4.4   | 8.0    | 11.0  | 13.2   | 13.9  |
| 60°   | 2.2   | 2.2   | 2.2   | 4.4   | 7.3    | 11.0  | 13.2   | 13.9  |
| 62.5° | 2.2   | 2.2   | 2.2   | 4.4   | 7.3    | 10.2  | 12.4   | 13.2  |
| 65°   | 2.2   | 2.2   | 2.2   | 4.4   | 6.6    | 9.5   | 12.4   | 12.4  |
| 67.5° | 2.2   | 2.2   | 2.2   | 3.7   | 6.6    | 9.5   | 11.7   | 12.4  |
| 70°   | 2.2   | 2.2   | 2.2   | 3.7   | 5.9    | 8.8   | 11.0   | 11.7  |
| 72.5° | 2.2   | 2.2   | 2.2   | 2.9   | 5.1    | 8.0   | 10.2   | 11.0  |
| 75°   | 1.5   | 2.2   | 2.2   | 2.9   | 5.1    | 7.3   | 9.5    | 10.2  |
| 77.5° | 1.5   | 2.2   | 2.2   | 2.2   | 4.4    | 5.9   | 8.0    | 8.8   |
| 80°   | 1.5   | 1.5   | 2.2   | 2.2   | 3.7    | 5.1   | 6.6    | 7.3   |
| 82.5° | 1.5   | 1.5   | 1.5   | 2.2   | 2.9    | 3.7   | 5.1    | 5.1   |
| 85°   | 1.5   | 1.5   | 1.5   | 1.5   | 2.2    | 2.9   | 3.7    | 3.7   |
| 87.5° | 0.7   | 0.7   | 1.5   | 1.5   | 1.5    | 1.5   | 1.5    | 1.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)