

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: P1306779

Luminaire Tested: P3SQAS09R559027DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306779  
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: P3SQAS09R559027DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

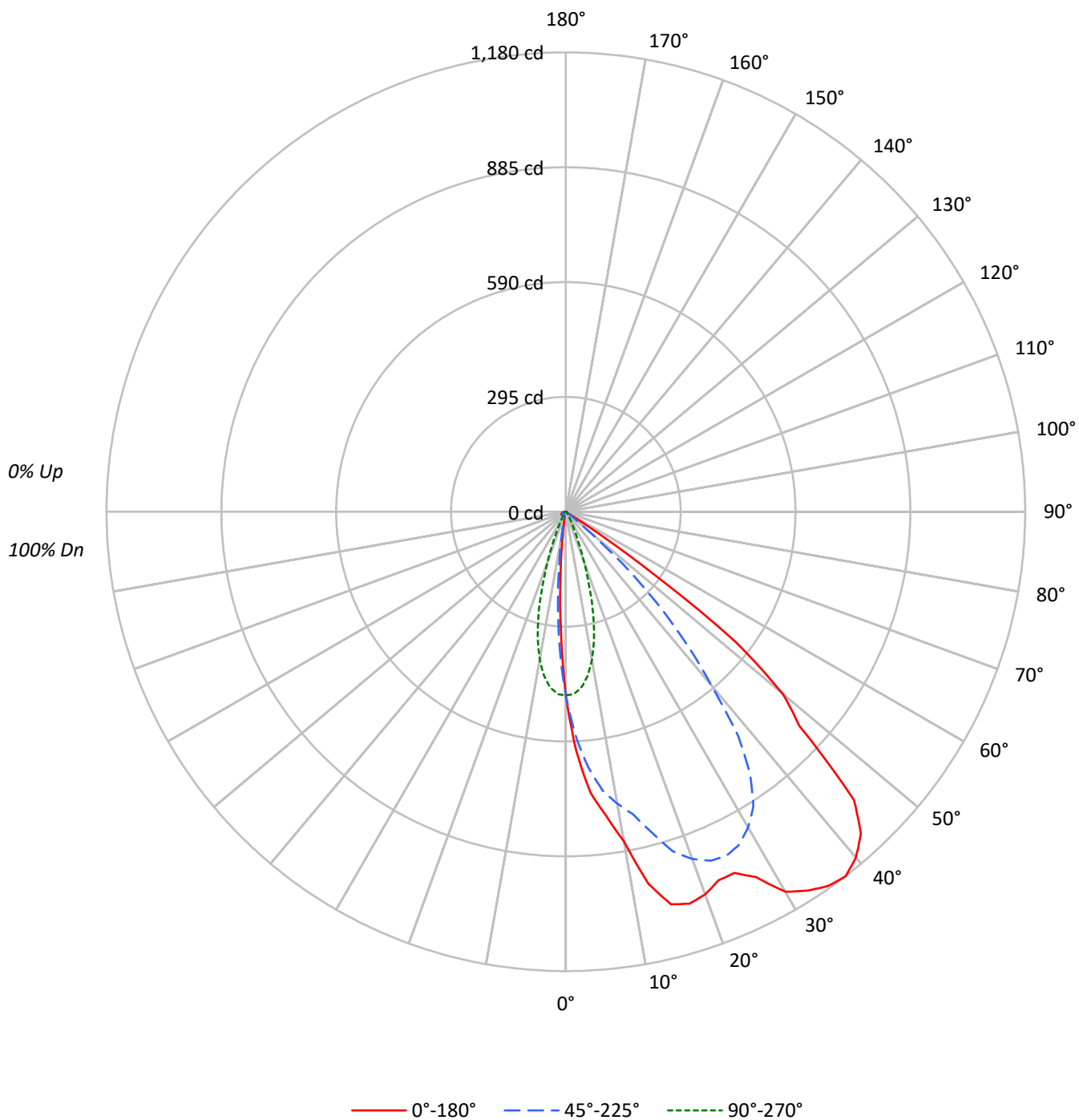
Lumens per Lamp: N/A  
Luminaire Lumens: 786.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1306779

CATALOG NUMBER: P3SQAS09R559027DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1306779

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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°  | 81134  | 81134  | 81134 | 81134 | 81134 |
| 5°  | 125114 | 113911 | 78367 | 40247 | 26433 |
| 10° | 150326 | 133136 | 67468 | 10143 | 4057  |
| 15° | 186125 | 152053 | 48212 | 2799  | 2193  |
| 20° | 191706 | 173928 | 24907 | 1869  | 1869  |
| 25° | 194492 | 185276 | 9995  | 1691  | 1938  |
| 30° | 224161 | 186158 | 4335  | 1770  | 2028  |
| 35° | 246765 | 173557 | 1871  | 1871  | 2292  |
| 40° | 260635 | 130621 | 1079  | 2158  | 2451  |
| 45° | 254934 | 79814  | 999   | 2338  | 2996  |
| 50° | 195000 | 17014  | 1099  | 2733  | 3483  |
| 55° | 71552  | 601    | 1231  | 3063  | 3903  |
| 60° | 689    | 689    | 1412  | 3513  | 4478  |
| 65° | 815    | 815    | 1671  | 3627  | 4727  |
| 70° | 705    | 1007   | 1712  | 4129  | 5489  |
| 75° | 466    | 932    | 1797  | 4525  | 6388  |
| 80° | 694    | 1389   | 1984  | 4761  | 6744  |
| 85° | 0      | 1383   | 2766  | 5335  | 6719  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 254934 cd/sqm

TEST NUMBER: P1306779

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.5   | 5.3       |
| 10°-20°   | 118.8  | 15.1      |
| 20°-30°   | 182.2  | 23.2      |
| 30°-40°   | 212.3  | 27.0      |
| 40°-50°   | 169.6  | 21.6      |
| 50°-60°   | 50.2   | 6.4       |
| 60°-70°   | 5.4    | 0.7       |
| 70°-80°   | 4.2    | 0.5       |
| 80°-90°   | 1.8    | 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°    | 342.4  | 43.6      |
| 0°-40°    | 554.7  | 70.6      |
| 0°-60°    | 774.6  | 98.6      |
| 0°-90°    | 786.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 786.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 471  | 471 | 471 | 471  | 471  |      |
| 5°  | 724  | 659 | 453 | 233  | 153  | 72   |
| 15° | 1044 | 853 | 270 | 16   | 12   | 288  |
| 25° | 1024 | 975 | 53  | 9    | 10   | 486  |
| 35° | 1174 | 826 | 9   | 9    | 11   | 731  |
| 45° | 1047 | 328 | 4   | 10   | 12   | 755  |
| 55° | 238  | 2   | 4   | 10   | 13   | 252  |
| 65° | 2    | 2   | 4   | 9    | 12   | 2    |
| 75° | 1    | 1   | 3   | 7    | 10   | 1    |
| 85° | 0    | 1   | 1   | 3    | 3    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1306779

CATALOG NUMBER: P3SQAS09R559027DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°   | 50°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 471.1  | 471.1  | 471.1  | 471.1  | 471.1  | 471.1  | 471.1  | 471.1  | 471.1  | 471.1 | 471.1 |
| 2.5°  | 614.5  | 614.5  | 612.4  | 613.1  | 611.7  | 604.2  | 602.9  | 593.3  | 585.1  | 576.2 | 568.7 |
| 5°    | 723.7  | 725.1  | 723.0  | 718.9  | 713.5  | 708.0  | 696.4  | 687.5  | 675.9  | 658.9 | 643.2 |
| 7.5°  | 785.9  | 784.5  | 781.1  | 779.7  | 776.3  | 770.1  | 762.0  | 752.4  | 738.7  | 721.7 | 703.2 |
| 10°   | 859.6  | 848.0  | 844.6  | 839.1  | 828.2  | 815.9  | 801.6  | 788.6  | 777.0  | 761.3 | 741.5 |
| 12.5° | 978.4  | 976.3  | 962.7  | 952.4  | 937.4  | 910.1  | 885.5  | 856.9  | 822.7  | 795.4 | 769.5 |
| 15°   | 1043.9 | 1045.3 | 1039.2 | 1031.0 | 1021.4 | 998.9  | 974.3  | 940.8  | 900.6  | 852.8 | 810.4 |
| 17.5° | 1055.5 | 1057.6 | 1054.2 | 1050.8 | 1048.0 | 1035.1 | 1020.0 | 996.1  | 959.3  | 914.9 | 852.1 |
| 20°   | 1046.0 | 1050.1 | 1050.8 | 1054.9 | 1060.3 | 1054.9 | 1042.6 | 1026.2 | 995.5  | 949.0 | 888.9 |
| 22.5° | 1024.8 | 1032.3 | 1037.8 | 1052.1 | 1066.5 | 1066.5 | 1059.0 | 1046.0 | 1015.9 | 970.2 | 908.7 |
| 25°   | 1023.5 | 1024.8 | 1026.9 | 1050.1 | 1072.6 | 1077.4 | 1070.6 | 1056.9 | 1024.1 | 975.0 | 908.1 |
| 27.5° | 1057.6 | 1048.7 | 1035.1 | 1058.3 | 1084.9 | 1089.0 | 1079.4 | 1061.0 | 1022.1 | 964.1 | 884.9 |
| 30°   | 1127.2 | 1107.4 | 1078.8 | 1095.8 | 1114.3 | 1109.5 | 1090.4 | 1061.0 | 1008.4 | 936.1 | 841.2 |
| 32.5° | 1153.9 | 1142.9 | 1132.7 | 1151.1 | 1154.5 | 1134.7 | 1100.6 | 1056.9 | 986.6  | 896.5 | 769.5 |
| 35°   | 1173.7 | 1174.3 | 1170.2 | 1173.7 | 1157.3 | 1129.3 | 1091.7 | 1034.4 | 945.6  | 825.5 | 674.6 |
| 37.5° | 1180.5 | 1181.8 | 1173.0 | 1160.7 | 1136.1 | 1104.0 | 1059.0 | 993.4  | 877.3  | 727.8 | 531.2 |
| 40°   | 1159.3 | 1155.2 | 1140.9 | 1123.8 | 1097.2 | 1064.4 | 1015.3 | 917.6  | 775.6  | 581.0 | 414.4 |
| 42.5° | 1121.8 | 1114.9 | 1097.9 | 1077.4 | 1049.4 | 1007.7 | 929.2  | 811.1  | 630.2  | 453.3 | 290.2 |
| 45°   | 1046.7 | 1041.9 | 1020.7 | 1005.7 | 972.2  | 918.3  | 817.3  | 668.4  | 487.5  | 327.7 | 168.0 |
| 47.5° | 813.2  | 813.8  | 830.2  | 837.7  | 826.1  | 783.1  | 664.3  | 508.0  | 355.7  | 195.3 | 56.7  |
| 50°   | 727.8  | 724.4  | 708.0  | 685.5  | 647.9  | 583.8  | 487.5  | 359.1  | 210.3  | 63.5  | 8.2   |
| 52.5° | 552.3  | 552.3  | 544.2  | 532.5  | 492.9  | 430.8  | 329.8  | 198.7  | 73.7   | 10.9  | 2.0   |
| 55°   | 238.3  | 226.0  | 232.8  | 245.8  | 235.6  | 204.8  | 154.3  | 59.4   | 13.0   | 2.0   | 2.0   |
| 57.5° | 3.4    | 8.2    | 12.3   | 19.8   | 26.6   | 32.1   | 17.1   | 6.1    | 2.0    | 2.0   | 2.0   |
| 60°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0   | 2.0   |
| 62.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0   | 2.0   |
| 65°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0   | 2.0   |
| 67.5° | 1.4    | 1.4    | 1.4    | 2.0    | 1.4    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0   | 2.0   |
| 70°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.0   | 2.0   |
| 72.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4   | 1.4   |
| 75°   | 0.7    | 0.7    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4   | 1.4   |
| 77.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    | 1.4    | 1.4   | 1.4   |
| 80°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4   | 1.4   |
| 82.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4   | 1.4   |
| 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°    | 471.1 | 471.1 | 471.1 | 471.1 | 471.1  | 471.1 | 471.1  | 471.1 |
| 2.5°  | 557.8 | 546.2 | 527.1 | 469.1 | 409.0  | 353.7 | 314.1  | 299.0 |
| 5°    | 625.4 | 604.2 | 572.1 | 453.3 | 333.9  | 232.8 | 175.5  | 152.9 |
| 7.5°  | 678.7 | 651.3 | 604.9 | 426.0 | 245.1  | 124.3 | 74.4   | 58.7  |
| 10°   | 714.2 | 684.1 | 623.4 | 385.8 | 162.5  | 58.0  | 28.0   | 23.2  |
| 12.5° | 740.1 | 702.6 | 630.2 | 333.9 | 95.6   | 26.6  | 15.0   | 13.7  |
| 15°   | 759.2 | 710.7 | 622.0 | 270.4 | 52.6   | 15.7  | 12.3   | 12.3  |
| 17.5° | 785.9 | 714.8 | 602.2 | 199.4 | 30.0   | 11.6  | 11.6   | 11.6  |
| 20°   | 806.3 | 714.8 | 564.6 | 135.9 | 18.4   | 10.2  | 10.2   | 10.2  |
| 22.5° | 816.6 | 703.9 | 518.9 | 86.0  | 13.0   | 9.6   | 10.2   | 10.2  |
| 25°   | 806.3 | 677.3 | 460.2 | 52.6  | 10.2   | 8.9   | 9.6    | 10.2  |
| 27.5° | 768.8 | 624.0 | 381.7 | 33.5  | 8.2    | 8.9   | 9.6    | 10.2  |
| 30°   | 706.0 | 546.9 | 292.9 | 21.8  | 7.5    | 8.9   | 9.6    | 10.2  |
| 32.5° | 617.2 | 432.2 | 189.8 | 14.3  | 6.8    | 8.9   | 9.6    | 10.2  |
| 35°   | 482.0 | 305.9 | 114.7 | 8.9   | 6.8    | 8.9   | 10.2   | 10.9  |
| 37.5° | 361.2 | 204.1 | 62.1  | 5.5   | 6.8    | 8.9   | 10.2   | 10.9  |
| 40°   | 250.6 | 118.8 | 26.6  | 4.8   | 6.8    | 9.6   | 10.9   | 10.9  |
| 42.5° | 145.4 | 47.1  | 6.8   | 4.1   | 6.8    | 9.6   | 10.9   | 11.6  |
| 45°   | 53.3  | 9.6   | 2.0   | 4.1   | 7.5    | 9.6   | 10.9   | 12.3  |
| 47.5° | 7.5   | 2.0   | 2.0   | 4.1   | 7.5    | 9.6   | 11.6   | 12.3  |
| 50°   | 2.0   | 2.0   | 2.0   | 4.1   | 7.5    | 10.2  | 12.3   | 13.0  |
| 52.5° | 2.0   | 2.0   | 2.0   | 4.1   | 7.5    | 10.2  | 12.3   | 13.0  |
| 55°   | 2.0   | 2.0   | 2.0   | 4.1   | 7.5    | 10.2  | 12.3   | 13.0  |
| 57.5° | 2.0   | 2.0   | 2.0   | 4.1   | 7.5    | 10.2  | 12.3   | 13.0  |
| 60°   | 2.0   | 2.0   | 2.0   | 4.1   | 6.8    | 10.2  | 12.3   | 13.0  |
| 62.5° | 2.0   | 2.0   | 2.0   | 4.1   | 6.8    | 9.6   | 11.6   | 12.3  |
| 65°   | 2.0   | 2.0   | 2.0   | 4.1   | 6.1    | 8.9   | 11.6   | 11.6  |
| 67.5° | 2.0   | 2.0   | 2.0   | 3.4   | 6.1    | 8.9   | 10.9   | 11.6  |
| 70°   | 2.0   | 2.0   | 2.0   | 3.4   | 5.5    | 8.2   | 10.2   | 10.9  |
| 72.5° | 2.0   | 2.0   | 2.0   | 2.7   | 4.8    | 7.5   | 9.6    | 10.2  |
| 75°   | 1.4   | 2.0   | 2.0   | 2.7   | 4.8    | 6.8   | 8.9    | 9.6   |
| 77.5° | 1.4   | 2.0   | 2.0   | 2.0   | 4.1    | 5.5   | 7.5    | 8.2   |
| 80°   | 1.4   | 1.4   | 2.0   | 2.0   | 3.4    | 4.8   | 6.1    | 6.8   |
| 82.5° | 1.4   | 1.4   | 1.4   | 2.0   | 2.7    | 3.4   | 4.8    | 4.8   |
| 85°   | 1.4   | 1.4   | 1.4   | 1.4   | 2.0    | 2.7   | 3.4    | 3.4   |
| 87.5° | 0.7   | 0.7   | 1.4   | 1.4   | 1.4    | 1.4   | 1.4    | 1.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)