

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: P1318051

Luminaire Tested: P3SQAS13R559835DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318051  
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: P3SQAS13R559835DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

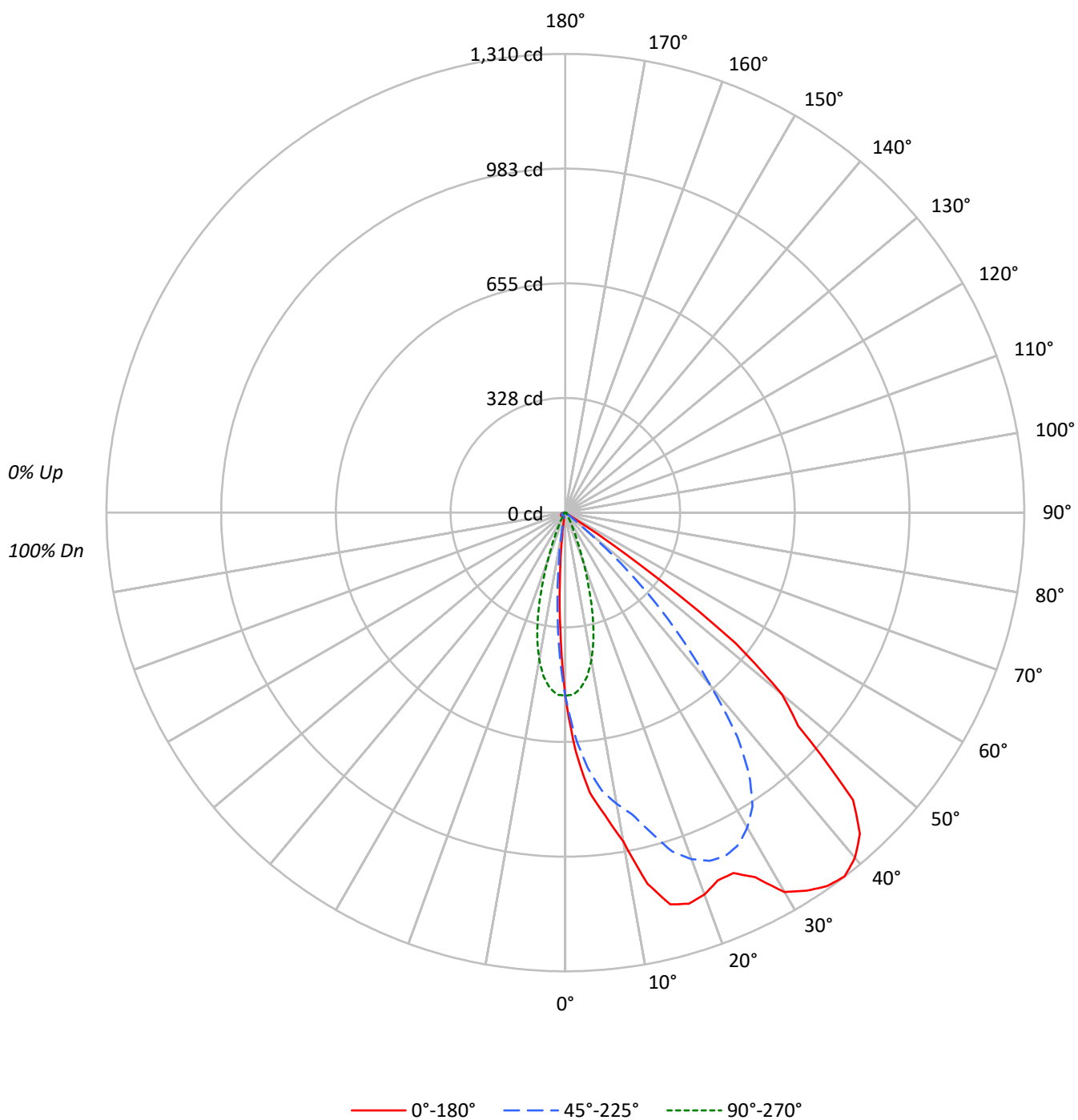
Lumens per Lamp: N/A  
Luminaire Lumens: 872.0 lumens  
Efficiency: N/A  
Efficacy: 60.1 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1318051

CATALOG NUMBER: P3SQAS13R559835DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1318051

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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°  | 90004  | 90004  | 90004 | 90004 | 90004 |
| 5°  | 138806 | 126358 | 86959 | 44655 | 29338 |
| 10° | 166765 | 147703 | 74848 | 11262 | 4512  |
| 15° | 206505 | 168688 | 53489 | 3102  | 2425  |
| 20° | 212673 | 192971 | 27620 | 2089  | 2089  |
| 25° | 215756 | 205552 | 11079 | 1862  | 2166  |
| 30° | 248701 | 206522 | 4813  | 1949  | 2267  |
| 35° | 273760 | 192542 | 2060  | 2060  | 2544  |
| 40° | 289164 | 144919 | 1192  | 2383  | 2720  |
| 45° | 282821 | 88558  | 1096  | 2582  | 3312  |
| 50° | 216354 | 18862  | 1206  | 3054  | 3858  |
| 55° | 79389  | 691    | 1351  | 3423  | 4324  |
| 60° | 792    | 792    | 1550  | 3927  | 4960  |
| 65° | 937    | 937    | 1834  | 3994  | 5257  |
| 70° | 755    | 1158   | 1913  | 4582  | 6093  |
| 75° | 532    | 998    | 1996  | 5057  | 7053  |
| 80° | 793    | 1488   | 2281  | 5256  | 7538  |
| 85° | 0      | 1581   | 2964  | 5928  | 7509  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 282821 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.0   | 5.3       |
| 10°-20°   | 131.8  | 15.1      |
| 20°-30°   | 202.1  | 23.2      |
| 30°-40°   | 235.5  | 27.0      |
| 40°-50°   | 188.2  | 21.6      |
| 50°-60°   | 55.7   | 6.4       |
| 60°-70°   | 6.0    | 0.7       |
| 70°-80°   | 4.7    | 0.5       |
| 80°-90°   | 2.0    | 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°    | 379.9  | 43.6      |
| 0°-40°    | 615.4  | 70.6      |
| 0°-60°    | 859.4  | 98.5      |
| 0°-90°    | 872.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 872.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 523  | 523  | 523 | 523  | 523  |      |
| 5°  | 803  | 731  | 503 | 258  | 170  | 80   |
| 15° | 1158 | 946  | 300 | 17   | 14   | 320  |
| 25° | 1135 | 1082 | 58  | 10   | 11   | 539  |
| 35° | 1302 | 916  | 10  | 10   | 12   | 811  |
| 45° | 1161 | 364  | 4   | 11   | 14   | 837  |
| 55° | 264  | 2    | 4   | 11   | 14   | 280  |
| 65° | 2    | 2    | 4   | 10   | 13   | 2    |
| 75° | 1    | 2    | 3   | 8    | 11   | 1    |
| 85° | 0    | 1    | 2   | 3    | 4    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1318051

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 522.6  | 522.6  | 522.6  | 522.6  | 522.6  | 522.6  | 522.6  | 522.6  | 522.6  | 522.6  | 522.6  |
| 2.5°  | 681.7  | 681.7  | 679.4  | 680.2  | 678.7  | 670.4  | 668.8  | 658.2  | 649.1  | 639.3  | 631.0  |
| 5°    | 802.9  | 804.4  | 802.1  | 797.6  | 791.5  | 785.5  | 772.6  | 762.8  | 749.9  | 730.9  | 713.5  |
| 7.5°  | 871.8  | 870.3  | 866.5  | 865.0  | 861.2  | 854.4  | 845.3  | 834.7  | 819.6  | 800.6  | 780.2  |
| 10°   | 953.6  | 940.8  | 937.0  | 930.9  | 918.8  | 905.2  | 889.3  | 874.9  | 862.0  | 844.6  | 822.6  |
| 12.5° | 1085.4 | 1083.2 | 1068.0 | 1056.7 | 1040.0 | 1009.7 | 982.4  | 950.6  | 912.7  | 882.4  | 853.7  |
| 15°   | 1158.2 | 1159.7 | 1152.9 | 1143.8 | 1133.2 | 1108.2 | 1080.9 | 1043.8 | 999.1  | 946.1  | 899.1  |
| 17.5° | 1171.0 | 1173.3 | 1169.5 | 1165.7 | 1162.7 | 1148.3 | 1131.6 | 1105.1 | 1064.2 | 1015.0 | 945.3  |
| 20°   | 1160.4 | 1165.0 | 1165.7 | 1170.3 | 1176.3 | 1170.3 | 1156.6 | 1138.5 | 1104.4 | 1052.9 | 986.2  |
| 22.5° | 1136.9 | 1145.3 | 1151.3 | 1167.2 | 1183.2 | 1183.2 | 1174.8 | 1160.4 | 1127.1 | 1076.3 | 1008.2 |
| 25°   | 1135.4 | 1136.9 | 1139.2 | 1165.0 | 1190.0 | 1195.3 | 1187.7 | 1172.5 | 1136.2 | 1081.7 | 1007.4 |
| 27.5° | 1173.3 | 1163.5 | 1148.3 | 1174.1 | 1203.6 | 1208.1 | 1197.5 | 1177.1 | 1133.9 | 1069.5 | 981.7  |
| 30°   | 1250.6 | 1228.6 | 1196.8 | 1215.7 | 1236.2 | 1230.9 | 1209.7 | 1177.1 | 1118.8 | 1038.5 | 933.2  |
| 32.5° | 1280.1 | 1268.0 | 1256.6 | 1277.1 | 1280.9 | 1258.9 | 1221.0 | 1172.5 | 1094.5 | 994.5  | 853.7  |
| 35°   | 1302.1 | 1302.8 | 1298.3 | 1302.1 | 1283.9 | 1252.8 | 1211.2 | 1147.6 | 1049.1 | 915.8  | 748.4  |
| 37.5° | 1309.6 | 1311.2 | 1301.3 | 1287.7 | 1260.4 | 1224.8 | 1174.8 | 1102.1 | 973.3  | 807.5  | 589.3  |
| 40°   | 1286.2 | 1281.6 | 1265.7 | 1246.8 | 1217.2 | 1180.9 | 1126.3 | 1018.0 | 860.5  | 644.6  | 459.8  |
| 42.5° | 1244.5 | 1236.9 | 1218.0 | 1195.3 | 1164.2 | 1118.0 | 1030.9 | 899.9  | 699.1  | 503.0  | 321.9  |
| 45°   | 1161.2 | 1155.9 | 1132.4 | 1115.7 | 1078.6 | 1018.8 | 906.7  | 741.6  | 540.8  | 363.6  | 186.3  |
| 47.5° | 902.1  | 902.9  | 921.1  | 929.4  | 916.5  | 868.8  | 737.0  | 563.5  | 394.6  | 216.6  | 62.9   |
| 50°   | 807.5  | 803.7  | 785.5  | 760.5  | 718.8  | 647.6  | 540.8  | 398.4  | 233.3  | 70.4   | 9.1    |
| 52.5° | 612.8  | 612.8  | 603.7  | 590.8  | 546.9  | 478.0  | 365.9  | 220.4  | 81.8   | 12.1   | 2.3    |
| 55°   | 264.4  | 250.7  | 258.3  | 272.7  | 261.3  | 227.2  | 171.2  | 65.9   | 14.4   | 2.3    | 2.3    |
| 57.5° | 3.8    | 9.1    | 13.6   | 22.0   | 29.5   | 35.6   | 18.9   | 6.8    | 2.3    | 2.3    | 2.3    |
| 60°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 62.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 65°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 67.5° | 1.5    | 1.5    | 1.5    | 2.3    | 1.5    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 70°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 2.3    | 2.3    |
| 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°   | 0.8    | 0.8    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 77.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 80°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    | 1.5    |
| 82.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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°    | 522.6 | 522.6 | 522.6 | 522.6 | 522.6  | 522.6 | 522.6  | 522.6 |
| 2.5°  | 618.8 | 606.0 | 584.8 | 520.4 | 453.7  | 392.4 | 348.4  | 331.8 |
| 5°    | 693.8 | 670.4 | 634.8 | 503.0 | 370.4  | 258.3 | 194.7  | 169.7 |
| 7.5°  | 752.9 | 722.6 | 671.1 | 472.7 | 271.9  | 137.9 | 82.6   | 65.1  |
| 10°   | 792.3 | 759.0 | 691.6 | 428.0 | 180.3  | 64.4  | 31.1   | 25.8  |
| 12.5° | 821.1 | 779.4 | 699.1 | 370.4 | 106.0  | 29.5  | 16.7   | 15.1  |
| 15°   | 842.3 | 788.5 | 690.0 | 300.0 | 58.3   | 17.4  | 13.6   | 13.6  |
| 17.5° | 871.8 | 793.1 | 668.1 | 221.2 | 33.3   | 12.9  | 12.9   | 12.9  |
| 20°   | 894.6 | 793.1 | 626.4 | 150.7 | 20.5   | 11.4  | 11.4   | 11.4  |
| 22.5° | 905.9 | 780.9 | 575.7 | 95.4  | 14.4   | 10.6  | 11.4   | 11.4  |
| 25°   | 894.6 | 751.4 | 510.5 | 58.3  | 11.4   | 9.8   | 10.6   | 11.4  |
| 27.5° | 852.9 | 692.3 | 423.4 | 37.1  | 9.1    | 9.8   | 10.6   | 11.4  |
| 30°   | 783.2 | 606.7 | 324.9 | 24.2  | 8.3    | 9.8   | 10.6   | 11.4  |
| 32.5° | 684.7 | 479.5 | 210.6 | 15.9  | 7.6    | 9.8   | 10.6   | 11.4  |
| 35°   | 534.8 | 339.3 | 127.3 | 9.8   | 7.6    | 9.8   | 11.4   | 12.1  |
| 37.5° | 400.7 | 226.5 | 68.9  | 6.1   | 7.6    | 9.8   | 11.4   | 12.1  |
| 40°   | 278.0 | 131.8 | 29.5  | 5.3   | 7.6    | 10.6  | 12.1   | 12.1  |
| 42.5° | 161.3 | 52.3  | 7.6   | 4.5   | 7.6    | 10.6  | 12.1   | 12.9  |
| 45°   | 59.1  | 10.6  | 2.3   | 4.5   | 8.3    | 10.6  | 12.1   | 13.6  |
| 47.5° | 8.3   | 2.3   | 2.3   | 4.5   | 8.3    | 10.6  | 12.9   | 13.6  |
| 50°   | 2.3   | 2.3   | 2.3   | 4.5   | 8.3    | 11.4  | 13.6   | 14.4  |
| 52.5° | 2.3   | 2.3   | 2.3   | 4.5   | 8.3    | 11.4  | 13.6   | 14.4  |
| 55°   | 2.3   | 2.3   | 2.3   | 4.5   | 8.3    | 11.4  | 13.6   | 14.4  |
| 57.5° | 2.3   | 2.3   | 2.3   | 4.5   | 8.3    | 11.4  | 13.6   | 14.4  |
| 60°   | 2.3   | 2.3   | 2.3   | 4.5   | 7.6    | 11.4  | 13.6   | 14.4  |
| 62.5° | 2.3   | 2.3   | 2.3   | 4.5   | 7.6    | 10.6  | 12.9   | 13.6  |
| 65°   | 2.3   | 2.3   | 2.3   | 4.5   | 6.8    | 9.8   | 12.9   | 12.9  |
| 67.5° | 2.3   | 2.3   | 2.3   | 3.8   | 6.8    | 9.8   | 12.1   | 12.9  |
| 70°   | 2.3   | 2.3   | 2.3   | 3.8   | 6.1    | 9.1   | 11.4   | 12.1  |
| 72.5° | 2.3   | 2.3   | 2.3   | 3.0   | 5.3    | 8.3   | 10.6   | 11.4  |
| 75°   | 1.5   | 2.3   | 2.3   | 3.0   | 5.3    | 7.6   | 9.8    | 10.6  |
| 77.5° | 1.5   | 2.3   | 2.3   | 2.3   | 4.5    | 6.1   | 8.3    | 9.1   |
| 80°   | 1.5   | 1.5   | 2.3   | 2.3   | 3.8    | 5.3   | 6.8    | 7.6   |
| 82.5° | 1.5   | 1.5   | 1.5   | 2.3   | 3.0    | 3.8   | 5.3    | 5.3   |
| 85°   | 1.5   | 1.5   | 1.5   | 1.5   | 2.3    | 3.0   | 3.8    | 3.8   |
| 87.5° | 0.8   | 0.8   | 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)