

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: P1310309

Luminaire Tested: P3SQAS13R609040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R609040DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

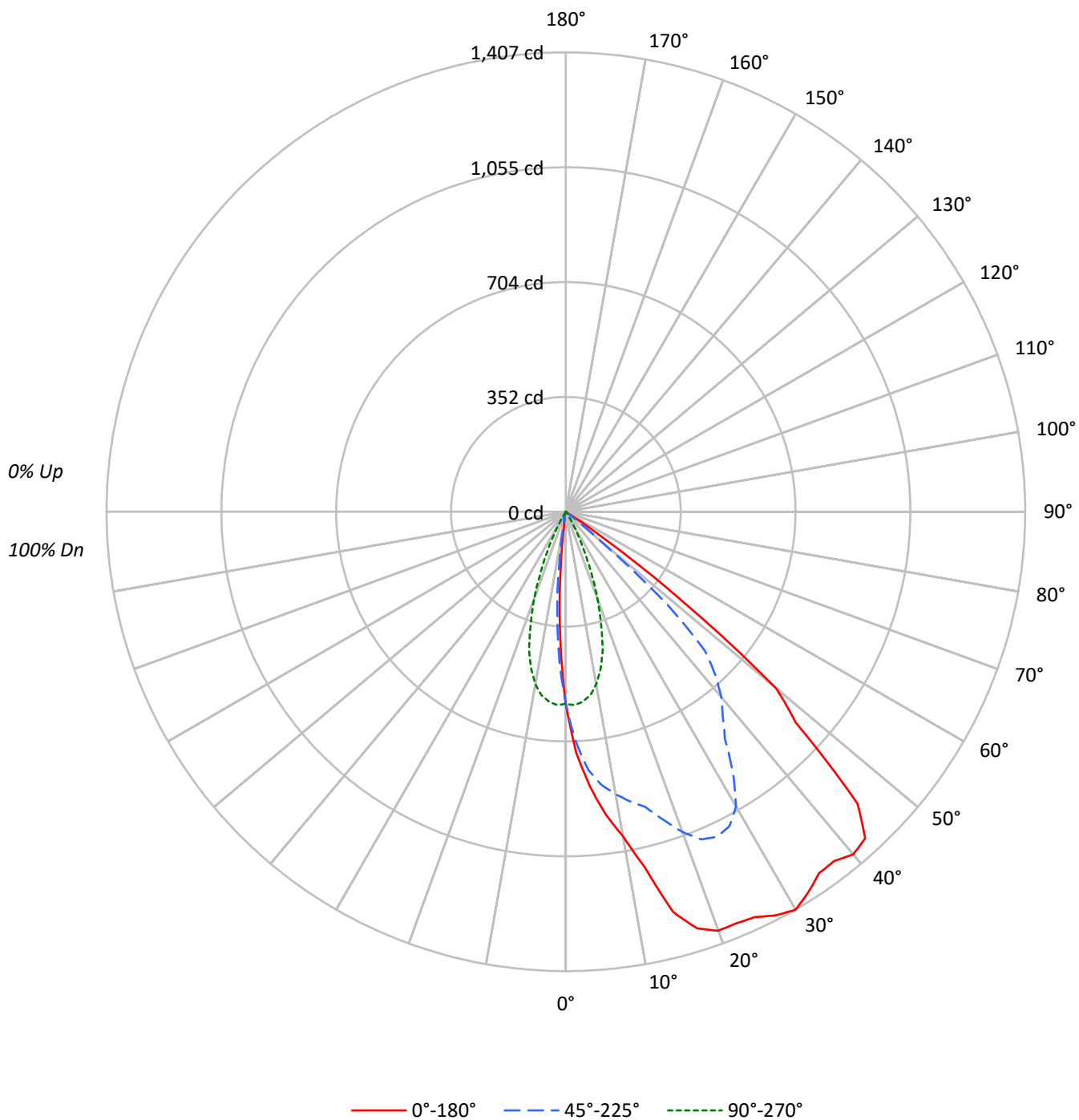
Lumens per Lamp: N/A  
Luminaire Lumens: 954.9 lumens  
Efficiency: N/A  
Efficacy: 65.4 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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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### 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 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 60  |    |    |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 55  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 101198 | 101198 | 101198 | 101198 | 101198 |
| 5°  | 145859 | 137371 | 101031 | 52054  | 33435  |
| 10° | 176436 | 153579 | 93788  | 6208   | 3655   |
| 15° | 226118 | 166833 | 77738  | 4101   | 3352   |
| 20° | 250244 | 191230 | 52124  | 2291   | 385    |
| 25° | 260261 | 208611 | 25635  | 190    | 0      |
| 30° | 279864 | 207297 | 7060   | 0      | 0      |
| 35° | 284209 | 178498 | 0      | 0      | 0      |
| 40° | 307914 | 166412 | 0      | 0      | 0      |
| 45° | 307616 | 146940 | 0      | 0      | 0      |
| 50° | 225223 | 35581  | 0      | 0      | 0      |
| 55° | 43958  | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      | 0      | 0      |
| 65° | 0      | 408    | 408    | 0      | 0      |
| 70° | 0      | 504    | 504    | 0      | 0      |
| 75° | 0      | 665    | 665    | 0      | 0      |
| 80° | 0      | 992    | 992    | 992    | 0      |
| 85° | 0      | 1976   | 1976   | 1976   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 308127 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.4   | 5.3       |
| 10°-20°   | 143.7  | 15.0      |
| 20°-30°   | 229.0  | 24.0      |
| 30°-40°   | 264.7  | 27.7      |
| 40°-50°   | 210.2  | 22.0      |
| 50°-60°   | 55.3   | 5.8       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.6    | 0.1       |
| 80°-90°   | 0.6    | 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°    | 423.2  | 44.3      |
| 0°-40°    | 687.9  | 72.0      |
| 0°-60°    | 953.4  | 99.8      |
| 0°-90°    | 954.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 954.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 588  | 588  | 588 | 588  | 588  |      |
| 5°  | 844  | 795  | 584 | 301  | 193  | 85   |
| 15° | 1268 | 936  | 436 | 23   | 19   | 353  |
| 25° | 1370 | 1098 | 135 | 1    | 0    | 639  |
| 35° | 1352 | 849  | 0   | 0    | 0    | 859  |
| 45° | 1263 | 603  | 0   | 0    | 0    | 899  |
| 55° | 146  | 0    | 0   | 0    | 0    | 221  |
| 65° | 0    | 1    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 1   | 0    | 0    | 0    |
| 85° | 0    | 1    | 1   | 1    | 0    | 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°    | 587.6  | 587.6  | 587.6  | 587.6  | 587.6  | 587.6  | 587.6  | 587.6  | 587.6  | 587.6  | 587.6 |
| 2.5°  | 739.2  | 746.5  | 743.4  | 740.2  | 732.9  | 729.8  | 729.8  | 721.4  | 707.8  | 705.7  | 696.3 |
| 5°    | 843.7  | 845.8  | 845.8  | 843.7  | 838.5  | 830.1  | 828.0  | 819.7  | 807.1  | 794.6  | 782.0 |
| 7.5°  | 934.7  | 933.6  | 927.4  | 923.2  | 913.8  | 902.3  | 891.8  | 880.3  | 861.5  | 844.8  | 827.0 |
| 10°   | 1008.9 | 1012.1 | 1006.8 | 996.4  | 983.8  | 968.1  | 951.4  | 931.6  | 903.3  | 878.2  | 855.2 |
| 12.5° | 1113.5 | 1112.4 | 1098.8 | 1081.1 | 1050.7 | 1021.5 | 995.3  | 973.4  | 938.9  | 908.5  | 880.3 |
| 15°   | 1268.2 | 1266.1 | 1253.6 | 1237.9 | 1194.0 | 1150.1 | 1105.1 | 1043.4 | 985.9  | 935.7  | 896.0 |
| 17.5° | 1338.3 | 1342.4 | 1332.0 | 1323.6 | 1298.5 | 1269.2 | 1229.5 | 1167.8 | 1079.0 | 988.0  | 904.4 |
| 20°   | 1365.4 | 1370.7 | 1363.3 | 1362.3 | 1350.8 | 1337.2 | 1304.8 | 1237.9 | 1151.1 | 1043.4 | 939.9 |
| 22.5° | 1364.4 | 1368.6 | 1365.4 | 1379.0 | 1392.6 | 1385.3 | 1345.6 | 1278.7 | 1189.8 | 1086.3 | 969.2 |
| 25°   | 1369.6 | 1366.5 | 1355.0 | 1374.8 | 1394.7 | 1388.4 | 1368.6 | 1311.1 | 1213.8 | 1097.8 | 979.6 |
| 27.5° | 1393.7 | 1370.7 | 1347.7 | 1372.8 | 1382.2 | 1384.3 | 1372.8 | 1304.8 | 1209.7 | 1085.2 | 958.7 |
| 30°   | 1407.3 | 1382.2 | 1363.3 | 1384.3 | 1384.3 | 1395.8 | 1371.7 | 1294.3 | 1174.1 | 1042.4 | 903.3 |
| 32.5° | 1382.2 | 1376.9 | 1393.7 | 1414.6 | 1419.8 | 1419.8 | 1366.5 | 1259.8 | 1114.5 | 954.6  | 814.5 |
| 35°   | 1351.8 | 1364.4 | 1412.5 | 1421.9 | 1421.9 | 1398.9 | 1334.1 | 1199.2 | 1025.6 | 849.0  | 748.6 |
| 37.5° | 1348.7 | 1368.6 | 1421.9 | 1410.4 | 1391.6 | 1348.7 | 1254.6 | 1093.6 | 899.1  | 789.4  | 699.4 |
| 40°   | 1369.6 | 1388.4 | 1419.8 | 1378.0 | 1333.0 | 1266.1 | 1153.2 | 955.6  | 822.8  | 740.2  | 639.9 |
| 42.5° | 1357.1 | 1374.8 | 1375.9 | 1314.2 | 1250.4 | 1159.5 | 1010.0 | 843.7  | 767.4  | 677.5  | 571.9 |
| 45°   | 1263.0 | 1265.1 | 1260.9 | 1195.0 | 1129.2 | 1035.1 | 876.1  | 788.3  | 706.8  | 603.3  | 420.3 |
| 47.5° | 954.6  | 950.4  | 966.1  | 947.2  | 950.4  | 893.9  | 795.6  | 723.5  | 626.3  | 423.4  | 127.6 |
| 50°   | 840.6  | 835.4  | 819.7  | 803.0  | 786.2  | 759.0  | 713.0  | 635.7  | 451.7  | 132.8  | 4.2   |
| 52.5° | 450.6  | 475.7  | 524.8  | 600.1  | 628.4  | 626.3  | 591.8  | 470.5  | 142.2  | 1.0    | 0.0   |
| 55°   | 146.4  | 144.3  | 161.0  | 190.3  | 261.4  | 301.1  | 313.7  | 160.0  | 3.1    | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 3.1    | 10.5   | 27.2   | 35.5   | 2.1    | 0.0    | 1.0    | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   |
| 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°    | 587.6 | 587.6 | 587.6 | 587.6 | 587.6  | 587.6 | 587.6  | 587.6 |
| 2.5°  | 683.8 | 669.1 | 652.4 | 592.8 | 522.8  | 454.8 | 405.7  | 393.1 |
| 5°    | 762.2 | 737.1 | 701.5 | 584.4 | 431.8  | 301.1 | 215.4  | 193.4 |
| 7.5°  | 803.0 | 781.0 | 743.4 | 567.7 | 334.6  | 148.5 | 55.4   | 37.6  |
| 10°   | 828.0 | 801.9 | 760.1 | 536.3 | 218.5  | 35.5  | 19.9   | 20.9  |
| 12.5° | 845.8 | 815.5 | 768.5 | 491.4 | 110.8  | 17.8  | 25.1   | 26.1  |
| 15°   | 853.1 | 820.7 | 767.4 | 436.0 | 39.7   | 23.0  | 22.0   | 18.8  |
| 17.5° | 849.0 | 808.2 | 753.8 | 356.5 | 13.6   | 22.0  | 11.5   | 9.4   |
| 20°   | 843.7 | 797.7 | 731.9 | 284.4 | 11.5   | 12.5  | 4.2    | 2.1   |
| 22.5° | 860.5 | 780.0 | 701.5 | 203.9 | 11.5   | 4.2   | 0.0    | 0.0   |
| 25°   | 862.5 | 772.6 | 662.9 | 134.9 | 5.2    | 1.0   | 0.0    | 0.0   |
| 27.5° | 841.6 | 729.8 | 603.3 | 79.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 774.7 | 676.4 | 539.5 | 35.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 708.9 | 616.9 | 468.4 | 8.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 656.6 | 555.2 | 390.0 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 591.8 | 482.0 | 290.7 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 523.8 | 388.9 | 145.3 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 408.8 | 185.1 | 14.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 156.8 | 16.7  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 8.4   | 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°   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 1.0   | 1.0   | 1.0   | 1.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 82.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 0.0   | 0.0    | 0.0   |
| 85°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 87.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)