

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: P1305983

Luminaire Tested: P3SQAS13R609024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305983  
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: P3SQAS13R609024DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

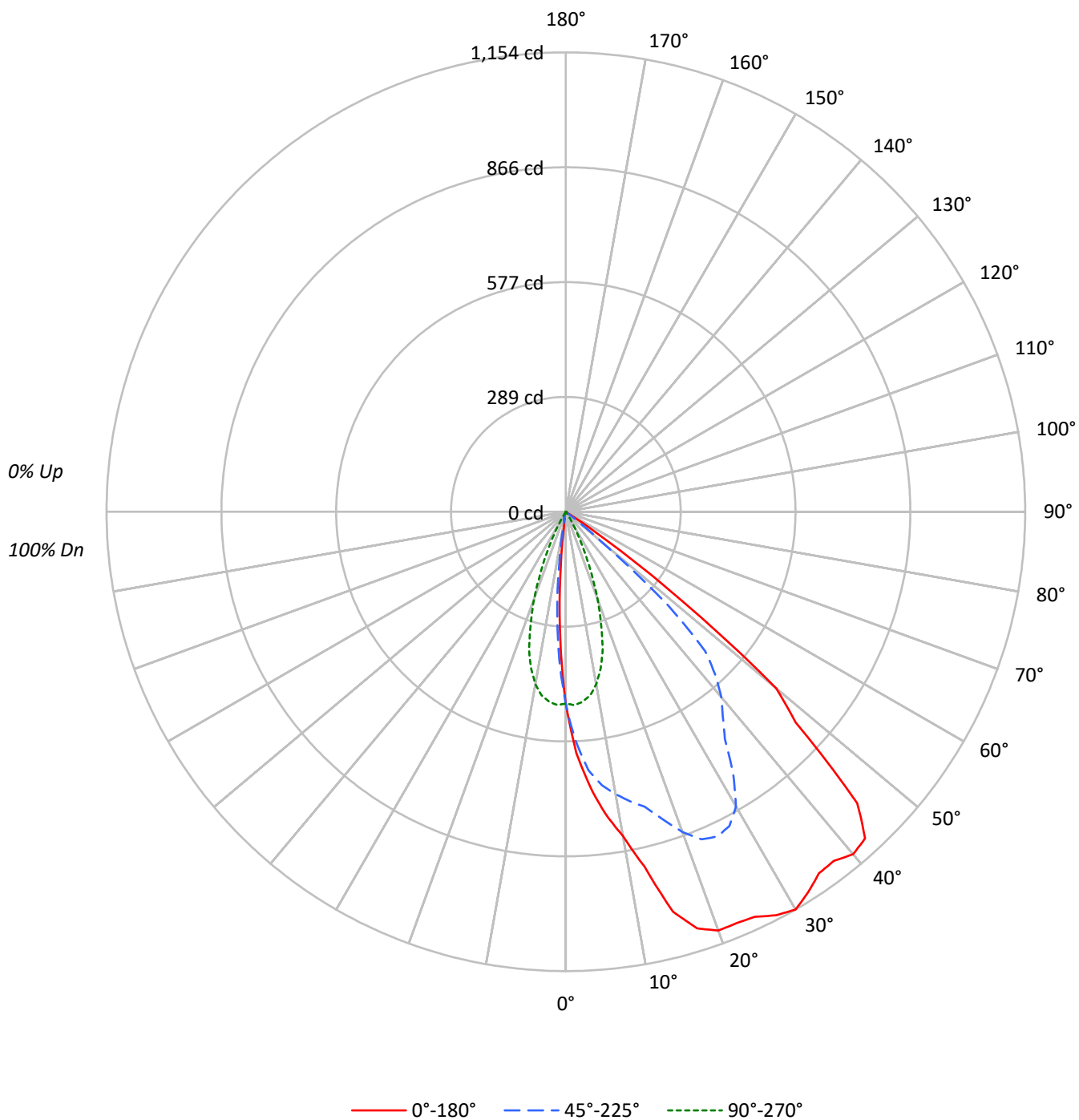
Lumens per Lamp: N/A  
Luminaire Lumens: 783.1 lumens  
Efficiency: N/A  
Efficacy: 53.6 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 63  | 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°  | 82977  | 82977  | 82977 | 82977 | 82977 |
| 5°  | 119599 | 112632 | 82844 | 42684 | 27419 |
| 10° | 144660 | 125931 | 76894 | 5089  | 2990  |
| 15° | 185394 | 136790 | 63742 | 3370  | 2746  |
| 20° | 205177 | 156792 | 42740 | 1888  | 312   |
| 25° | 213381 | 171043 | 21017 | 171   | 0     |
| 30° | 229451 | 169951 | 5787  | 0     | 0     |
| 35° | 233036 | 146352 | 0     | 0     | 0     |
| 40° | 252451 | 136444 | 0     | 0     | 0     |
| 45° | 252206 | 120465 | 0     | 0     | 0     |
| 50° | 184658 | 29178  | 0     | 0     | 0     |
| 55° | 36031  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 367    | 367   | 0     | 0     |
| 70° | 0      | 453    | 453   | 0     | 0     |
| 75° | 0      | 599    | 599   | 0     | 0     |
| 80° | 0      | 893    | 893   | 893   | 0     |
| 85° | 0      | 1778   | 1778  | 1778  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 252620 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.4   | 5.3       |
| 10°-20°   | 117.8  | 15.0      |
| 20°-30°   | 187.8  | 24.0      |
| 30°-40°   | 217.0  | 27.7      |
| 40°-50°   | 172.4  | 22.0      |
| 50°-60°   | 45.4   | 5.8       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.5    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 346.9  | 44.3      |
| 0°-40°    | 564.0  | 72.0      |
| 0°-60°    | 781.7  | 99.8      |
| 0°-90°    | 783.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 783.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 482  | 482 | 482 | 482  | 482  |      |
| 5°  | 692  | 652 | 479 | 247  | 159  | 70   |
| 15° | 1040 | 767 | 358 | 19   | 15   | 290  |
| 25° | 1123 | 900 | 111 | 1    | 0    | 524  |
| 35° | 1108 | 696 | 0   | 0    | 0    | 704  |
| 45° | 1036 | 495 | 0   | 0    | 0    | 737  |
| 55° | 120  | 0   | 0   | 0    | 0    | 181  |
| 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°    | 481.8  | 481.8  | 481.8  | 481.8  | 481.8  | 481.8  | 481.8  | 481.8  | 481.8 | 481.8 | 481.8 |
| 2.5°  | 606.0  | 612.0  | 609.5  | 606.9  | 600.9  | 598.3  | 598.3  | 591.5  | 580.3 | 578.6 | 570.9 |
| 5°    | 691.8  | 693.5  | 693.5  | 691.8  | 687.5  | 680.6  | 678.9  | 672.1  | 661.8 | 651.5 | 641.2 |
| 7.5°  | 766.3  | 765.5  | 760.3  | 756.9  | 749.2  | 739.8  | 731.2  | 721.8  | 706.3 | 692.6 | 678.1 |
| 10°   | 827.2  | 829.8  | 825.5  | 816.9  | 806.6  | 793.8  | 780.1  | 763.8  | 740.6 | 720.1 | 701.2 |
| 12.5° | 912.9  | 912.1  | 900.9  | 886.4  | 861.5  | 837.5  | 816.1  | 798.1  | 769.8 | 744.9 | 721.8 |
| 15°   | 1039.8 | 1038.1 | 1027.8 | 1014.9 | 978.9  | 942.9  | 906.1  | 855.5  | 808.3 | 767.2 | 734.6 |
| 17.5° | 1097.2 | 1100.7 | 1092.1 | 1085.2 | 1064.7 | 1040.7 | 1008.1 | 957.5  | 884.6 | 810.1 | 741.5 |
| 20°   | 1119.5 | 1123.8 | 1117.8 | 1116.9 | 1107.5 | 1096.4 | 1069.8 | 1014.9 | 943.8 | 855.5 | 770.6 |
| 22.5° | 1118.7 | 1122.1 | 1119.5 | 1130.7 | 1141.8 | 1135.8 | 1103.2 | 1048.4 | 975.5 | 890.6 | 794.6 |
| 25°   | 1122.9 | 1120.4 | 1110.9 | 1127.2 | 1143.5 | 1138.4 | 1122.1 | 1074.9 | 995.2 | 900.1 | 803.2 |
| 27.5° | 1142.7 | 1123.8 | 1104.9 | 1125.5 | 1133.2 | 1134.9 | 1125.5 | 1069.8 | 991.8 | 889.8 | 786.1 |
| 30°   | 1153.8 | 1133.2 | 1117.8 | 1134.9 | 1134.9 | 1144.4 | 1124.7 | 1061.2 | 962.6 | 854.6 | 740.6 |
| 32.5° | 1133.2 | 1128.9 | 1142.7 | 1159.8 | 1164.1 | 1164.1 | 1120.4 | 1032.9 | 913.8 | 782.6 | 667.8 |
| 35°   | 1108.4 | 1118.7 | 1158.1 | 1165.8 | 1165.8 | 1146.9 | 1093.8 | 983.2  | 840.9 | 696.1 | 613.8 |
| 37.5° | 1105.8 | 1122.1 | 1165.8 | 1156.4 | 1140.9 | 1105.8 | 1028.7 | 896.6  | 737.2 | 647.2 | 573.5 |
| 40°   | 1122.9 | 1138.4 | 1164.1 | 1129.8 | 1092.9 | 1038.1 | 945.5  | 783.5  | 674.6 | 606.9 | 524.6 |
| 42.5° | 1112.7 | 1127.2 | 1128.1 | 1077.5 | 1025.2 | 950.6  | 828.1  | 691.8  | 629.2 | 555.5 | 468.9 |
| 45°   | 1035.5 | 1037.2 | 1033.8 | 979.8  | 925.8  | 848.6  | 718.3  | 646.3  | 579.5 | 494.6 | 344.6 |
| 47.5° | 782.6  | 779.2  | 792.1  | 776.6  | 779.2  | 732.9  | 652.3  | 593.2  | 513.5 | 347.2 | 104.6 |
| 50°   | 689.2  | 684.9  | 672.1  | 658.3  | 644.6  | 622.3  | 584.6  | 521.2  | 370.3 | 108.9 | 3.4   |
| 52.5° | 369.5  | 390.0  | 430.3  | 492.0  | 515.2  | 513.5  | 485.2  | 385.7  | 116.6 | 0.9   | 0.0   |
| 55°   | 120.0  | 118.3  | 132.0  | 156.0  | 214.3  | 246.9  | 257.2  | 131.2  | 2.6   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 2.6    | 8.6    | 22.3   | 29.1   | 1.7    | 0.0   | 0.9   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9   | 0.0   | 0.0   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.9   | 0.9   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9   | 0.9   | 0.9   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 0.9   | 0.9   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 0.9   | 0.9   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9   | 0.9   | 0.9   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   | 0.9   | 0.9   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   | 0.9   | 0.9   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   | 0.9   | 0.9   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 0.9   | 0.9   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 0.9   | 0.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   | 0.9   | 0.9   |
| 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°    | 481.8 | 481.8 | 481.8 | 481.8 | 481.8  | 481.8 | 481.8  | 481.8 |
| 2.5°  | 560.6 | 548.6 | 534.9 | 486.0 | 428.6  | 372.9 | 332.6  | 322.3 |
| 5°    | 624.9 | 604.3 | 575.2 | 479.2 | 354.0  | 246.9 | 176.6  | 158.6 |
| 7.5°  | 658.3 | 640.3 | 609.5 | 465.5 | 274.3  | 121.7 | 45.4   | 30.9  |
| 10°   | 678.9 | 657.5 | 623.2 | 439.7 | 179.2  | 29.1  | 16.3   | 17.1  |
| 12.5° | 693.5 | 668.6 | 630.0 | 402.9 | 90.9   | 14.6  | 20.6   | 21.4  |
| 15°   | 699.5 | 672.9 | 629.2 | 357.5 | 32.6   | 18.9  | 18.0   | 15.4  |
| 17.5° | 696.1 | 662.6 | 618.0 | 292.3 | 11.1   | 18.0  | 9.4    | 7.7   |
| 20°   | 691.8 | 654.1 | 600.0 | 233.2 | 9.4    | 10.3  | 3.4    | 1.7   |
| 22.5° | 705.5 | 639.5 | 575.2 | 167.2 | 9.4    | 3.4   | 0.0    | 0.0   |
| 25°   | 707.2 | 633.5 | 543.5 | 110.6 | 4.3    | 0.9   | 0.0    | 0.0   |
| 27.5° | 690.1 | 598.3 | 494.6 | 65.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 635.2 | 554.6 | 442.3 | 29.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 581.2 | 505.8 | 384.0 | 6.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 538.3 | 455.2 | 319.7 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 485.2 | 395.2 | 238.3 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 429.5 | 318.9 | 119.2 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 335.2 | 151.7 | 12.0  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 128.6 | 13.7  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 6.9   | 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°   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 82.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 87.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)