

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: PORTFOLIO

Report Number: P1311376

Luminaire Tested: LDSQA3D09R609040DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311376  
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: PORTFOLIO  
Catalog Number: LDSQA3D09R609040DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

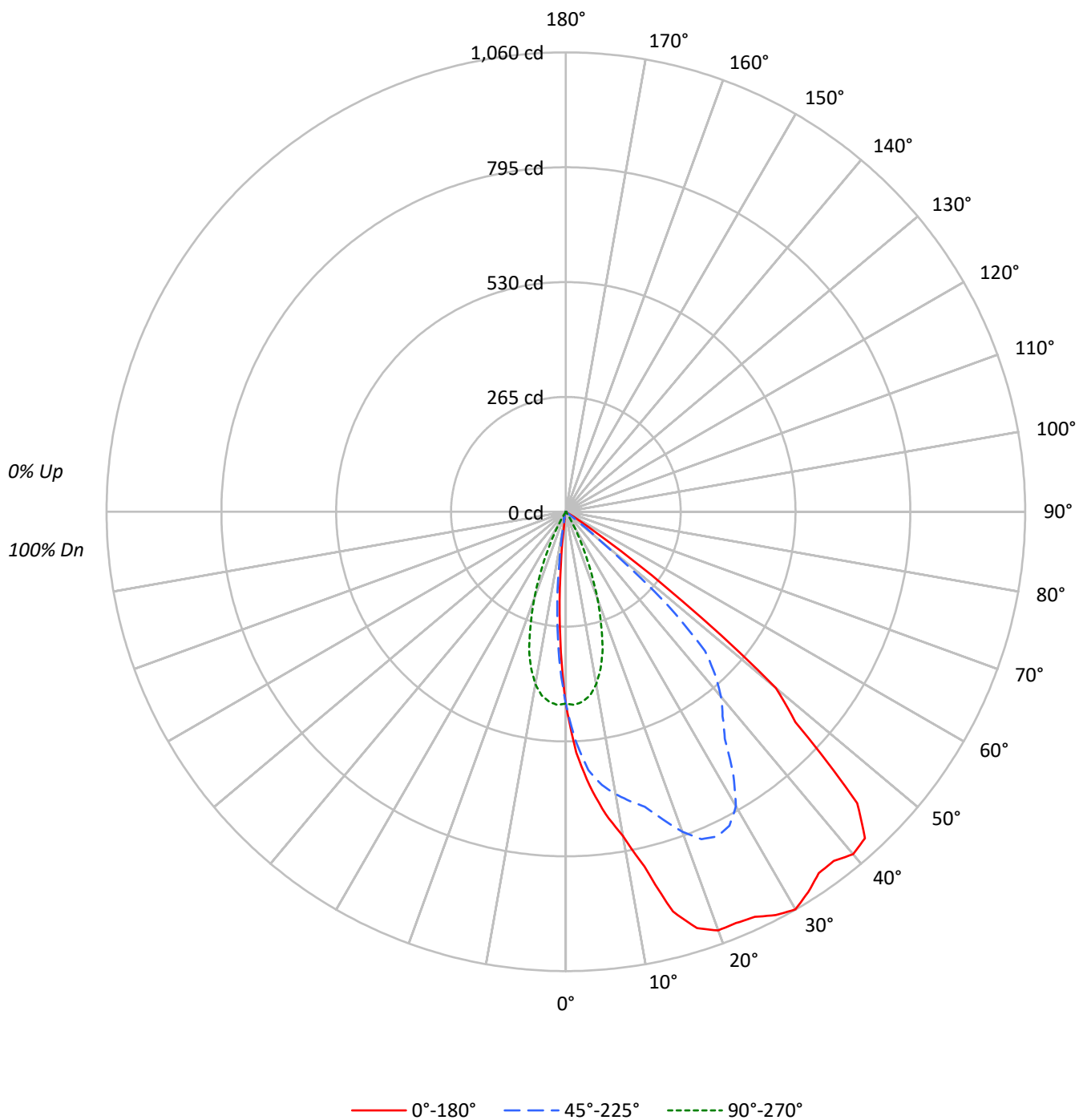
Lumens per Lamp: N/A  
Luminaire Lumens: 719.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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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### 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  |     |    | 0  |
| 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°  | 76191  | 76191  | 76191 | 76191 | 76191 |
| 5°  | 109814 | 103417 | 76067 | 39192 | 25171 |
| 10° | 132838 | 115630 | 70616 | 4687  | 2746  |
| 15° | 170239 | 125611 | 58517 | 3085  | 2532  |
| 20° | 188407 | 143981 | 39239 | 1723  | 293   |
| 25° | 195955 | 157057 | 19288 | 152   | 0     |
| 30° | 210698 | 156070 | 5330  | 0     | 0     |
| 35° | 213987 | 134389 | 0     | 0     | 0     |
| 40° | 231835 | 125293 | 0     | 0     | 0     |
| 45° | 231601 | 110625 | 0     | 0     | 0     |
| 50° | 169573 | 26793  | 0     | 0     | 0     |
| 55° | 33089  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 326    | 326   | 0     | 0     |
| 70° | 0      | 403    | 403   | 0     | 0     |
| 75° | 0      | 532    | 532   | 0     | 0     |
| 80° | 0      | 793    | 793   | 793   | 0     |
| 85° | 0      | 1581   | 1581  | 1581  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 231966 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.0   | 5.3       |
| 10°-20°   | 108.2  | 15.0      |
| 20°-30°   | 172.4  | 24.0      |
| 30°-40°   | 199.3  | 27.7      |
| 40°-50°   | 158.3  | 22.0      |
| 50°-60°   | 41.7   | 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°    | 318.6  | 44.3      |
| 0°-40°    | 517.9  | 72.0      |
| 0°-60°    | 717.8  | 99.8      |
| 0°-90°    | 719.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 719.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 442  | 442 | 442 | 442  | 442  |      |
| 5°  | 635  | 598 | 440 | 227  | 146  | 64   |
| 15° | 955  | 704 | 328 | 17   | 14   | 266  |
| 25° | 1031 | 826 | 102 | 1    | 0    | 481  |
| 35° | 1018 | 639 | 0   | 0    | 0    | 646  |
| 45° | 951  | 454 | 0   | 0    | 0    | 677  |
| 55° | 110  | 0   | 0   | 0    | 0    | 166  |
| 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°    | 442.4  | 442.4  | 442.4  | 442.4  | 442.4  | 442.4  | 442.4  | 442.4 | 442.4 | 442.4 | 442.4 |
| 2.5°  | 556.5  | 562.0  | 559.7  | 557.3  | 551.8  | 549.4  | 549.4  | 543.1 | 532.9 | 531.3 | 524.2 |
| 5°    | 635.2  | 636.8  | 636.8  | 635.2  | 631.3  | 625.0  | 623.4  | 617.1 | 607.7 | 598.2 | 588.8 |
| 7.5°  | 703.7  | 702.9  | 698.2  | 695.0  | 688.0  | 679.3  | 671.4  | 662.8 | 648.6 | 636.0 | 622.6 |
| 10°   | 759.6  | 762.0  | 758.0  | 750.1  | 740.7  | 728.9  | 716.3  | 701.3 | 680.1 | 661.2 | 643.9 |
| 12.5° | 838.3  | 837.5  | 827.3  | 813.9  | 791.1  | 769.0  | 749.4  | 732.8 | 706.9 | 684.0 | 662.8 |
| 15°   | 954.8  | 953.2  | 943.8  | 932.0  | 898.9  | 865.9  | 832.0  | 785.6 | 742.3 | 704.5 | 674.6 |
| 17.5° | 1007.5 | 1010.7 | 1002.8 | 996.5  | 977.6  | 955.6  | 925.7  | 879.2 | 812.3 | 743.9 | 680.9 |
| 20°   | 1028.0 | 1031.9 | 1026.4 | 1025.6 | 1017.0 | 1006.8 | 982.4  | 932.0 | 866.6 | 785.6 | 707.6 |
| 22.5° | 1027.2 | 1030.4 | 1028.0 | 1038.2 | 1048.5 | 1043.0 | 1013.1 | 962.7 | 895.8 | 817.8 | 729.7 |
| 25°   | 1031.2 | 1028.8 | 1020.1 | 1035.1 | 1050.0 | 1045.3 | 1030.4 | 987.1 | 913.9 | 826.5 | 737.6 |
| 27.5° | 1049.3 | 1031.9 | 1014.6 | 1033.5 | 1040.6 | 1042.2 | 1033.5 | 982.4 | 910.7 | 817.1 | 721.8 |
| 30°   | 1059.5 | 1040.6 | 1026.4 | 1042.2 | 1042.2 | 1050.8 | 1032.7 | 974.5 | 884.0 | 784.8 | 680.1 |
| 32.5° | 1040.6 | 1036.7 | 1049.3 | 1065.0 | 1068.9 | 1068.9 | 1028.8 | 948.5 | 839.1 | 718.7 | 613.2 |
| 35°   | 1017.8 | 1027.2 | 1063.4 | 1070.5 | 1070.5 | 1053.2 | 1004.4 | 902.9 | 772.2 | 639.2 | 563.6 |
| 37.5° | 1015.4 | 1030.4 | 1070.5 | 1061.9 | 1047.7 | 1015.4 | 944.6  | 823.4 | 676.9 | 594.3 | 526.6 |
| 40°   | 1031.2 | 1045.3 | 1068.9 | 1037.5 | 1003.6 | 953.2  | 868.2  | 719.4 | 619.5 | 557.3 | 481.7 |
| 42.5° | 1021.7 | 1035.1 | 1035.9 | 989.4  | 941.4  | 872.9  | 760.4  | 635.2 | 577.8 | 510.1 | 430.6 |
| 45°   | 950.9  | 952.4  | 949.3  | 899.7  | 850.1  | 779.3  | 659.6  | 593.5 | 532.1 | 454.2 | 316.4 |
| 47.5° | 718.7  | 715.5  | 727.3  | 713.2  | 715.5  | 673.0  | 599.0  | 544.7 | 471.5 | 318.8 | 96.0  |
| 50°   | 632.9  | 628.9  | 617.1  | 604.5  | 591.9  | 571.5  | 536.8  | 478.6 | 340.0 | 100.0 | 3.1   |
| 52.5° | 339.3  | 358.2  | 395.1  | 451.8  | 473.1  | 471.5  | 445.5  | 354.2 | 107.1 | 0.8   | 0.0   |
| 55°   | 110.2  | 108.6  | 121.2  | 143.3  | 196.8  | 226.7  | 236.1  | 120.4 | 2.4   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 2.4    | 7.9    | 20.5   | 26.8   | 1.6   | 0.0   | 0.8   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 0.0   | 0.0   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.8   | 0.8   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 0.8   | 0.8   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 0.8   | 0.8   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 0.8   | 0.8   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 0.8   | 0.8   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 0.8   | 0.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 0.8   | 0.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 0.8   | 0.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 0.8   | 0.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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°    | 442.4 | 442.4 | 442.4 | 442.4 | 442.4  | 442.4 | 442.4  | 442.4 |
| 2.5°  | 514.8 | 503.8 | 491.2 | 446.3 | 393.6  | 342.4 | 305.4  | 296.0 |
| 5°    | 573.8 | 554.9 | 528.2 | 440.0 | 325.1  | 226.7 | 162.2  | 145.6 |
| 7.5°  | 604.5 | 588.0 | 559.7 | 427.4 | 251.9  | 111.8 | 41.7   | 28.3  |
| 10°   | 623.4 | 603.7 | 572.3 | 403.8 | 164.5  | 26.8  | 15.0   | 15.7  |
| 12.5° | 636.8 | 614.0 | 578.6 | 370.0 | 83.4   | 13.4  | 18.9   | 19.7  |
| 15°   | 642.3 | 617.9 | 577.8 | 328.2 | 29.9   | 17.3  | 16.5   | 14.2  |
| 17.5° | 639.2 | 608.5 | 567.5 | 268.4 | 10.2   | 16.5  | 8.7    | 7.1   |
| 20°   | 635.2 | 600.6 | 551.0 | 214.1 | 8.7    | 9.4   | 3.1    | 1.6   |
| 22.5° | 647.8 | 587.2 | 528.2 | 153.5 | 8.7    | 3.1   | 0.0    | 0.0   |
| 25°   | 649.4 | 581.7 | 499.0 | 101.5 | 3.9    | 0.8   | 0.0    | 0.0   |
| 27.5° | 633.7 | 549.4 | 454.2 | 59.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 583.3 | 509.3 | 406.2 | 26.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 533.7 | 464.4 | 352.6 | 6.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 494.3 | 418.0 | 293.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 445.5 | 362.9 | 218.8 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 394.4 | 292.8 | 109.4 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 307.8 | 139.3 | 11.0  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 118.1 | 12.6  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 6.3   | 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°   | 0.8   | 0.8   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.8   | 0.0    | 0.0   |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.8   | 0.0    | 0.0   |
| 87.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.8   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)