

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: P1306867

Luminaire Tested: LDSQA3D05R459024DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459024DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

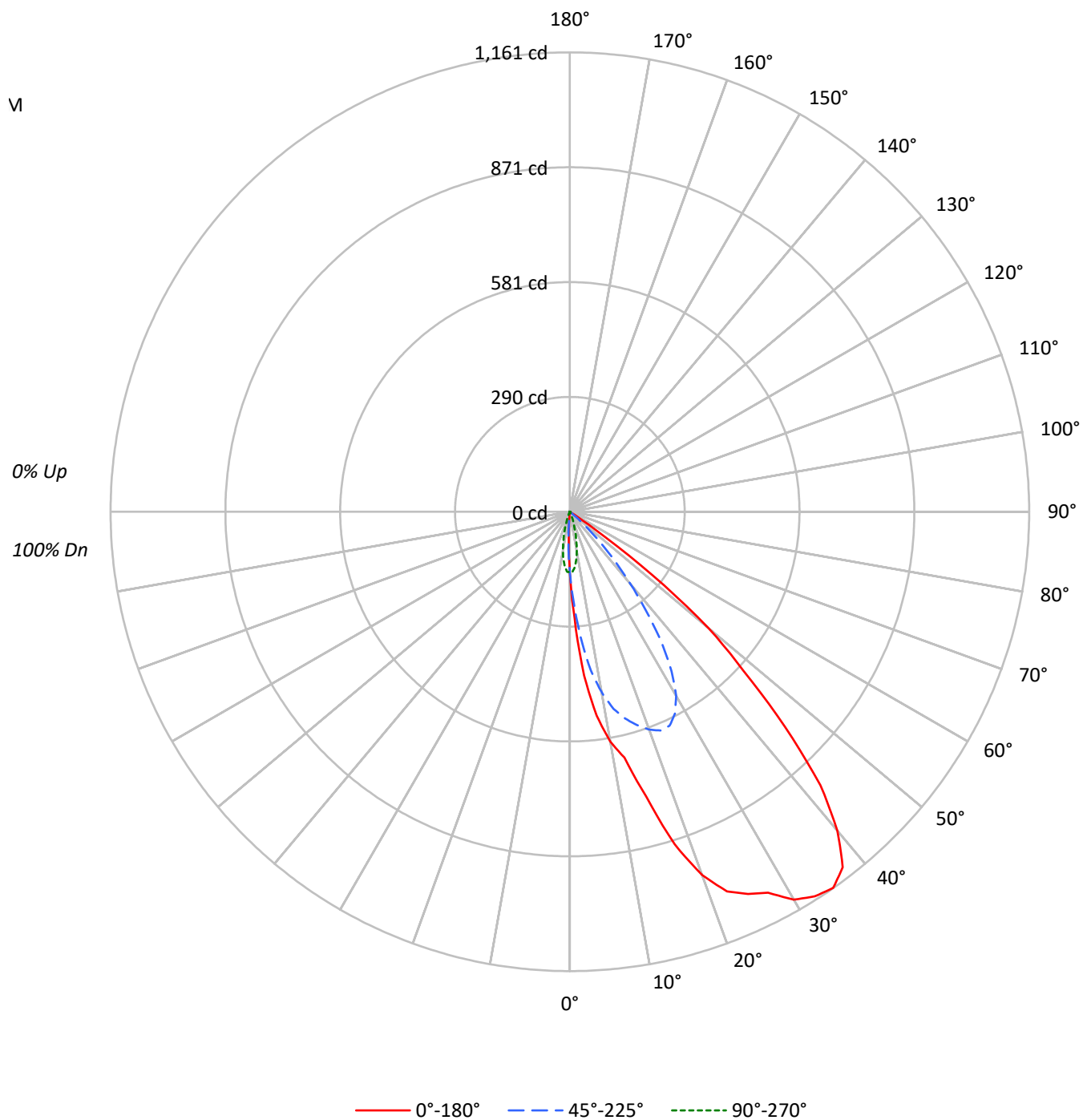
Lumens per Lamp: N/A  
Luminaire Lumens: 492.0 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 26316  | 26316  | 26316 | 26316 | 26316 |
| 5°  | 71849  | 55270  | 24359 | 4893  | 1833  |
| 10° | 103179 | 81092  | 17610 | 455   | 385   |
| 15° | 132832 | 96459  | 9378  | 160   | 0     |
| 20° | 179042 | 107326 | 3556  | 0     | 0     |
| 25° | 202492 | 113370 | 931   | 0     | 0     |
| 30° | 225096 | 106890 | 80    | 0     | 0     |
| 35° | 244010 | 85233  | 0     | 0     | 0     |
| 40° | 236489 | 53507  | 0     | 0     | 0     |
| 45° | 187492 | 25501  | 0     | 0     | 0     |
| 50° | 122712 | 3188   | 0     | 0     | 0     |
| 55° | 21078  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 138   | 0     | 0     |
| 65° | 0      | 163    | 163   | 0     | 0     |
| 70° | 0      | 201    | 453   | 0     | 0     |
| 75° | 0      | 266    | 599   | 0     | 0     |
| 80° | 0      | 397    | 893   | 397   | 0     |
| 85° | 0      | 790    | 1778  | 790   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 187492 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.2   | 3.7       |
| 10°-20°   | 70.1   | 14.2      |
| 20°-30°   | 131.2  | 26.7      |
| 30°-40°   | 153.2  | 31.1      |
| 40°-50°   | 99.9   | 20.3      |
| 50°-60°   | 18.5   | 3.8       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.4    | 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°    | 219.5  | 44.6      |
| 0°-40°    | 372.6  | 75.7      |
| 0°-60°    | 491.1  | 99.8      |
| 0°-90°    | 492.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 492.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 153  | 153 | 153 | 153  | 153  |      |
| 5°  | 416  | 320 | 141 | 28   | 11   | 45   |
| 15° | 745  | 541 | 53  | 1    | 0    | 222  |
| 25° | 1066 | 597 | 5   | 0    | 0    | 493  |
| 35° | 1161 | 405 | 0   | 0    | 0    | 712  |
| 45° | 770  | 105 | 0   | 0    | 0    | 585  |
| 55° | 70   | 0   | 0   | 0    | 0    | 122  |
| 65° | 0    | 0   | 0   | 0    | 0    | 0    |
| 75° | 0    | 0   | 1   | 0    | 0    | 0    |
| 85° | 0    | 0   | 1   | 0    | 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°    | 152.8  | 152.8  | 152.8  | 152.8  | 152.8  | 152.8 | 152.8 | 152.8 | 152.8 | 152.8 | 152.8 |
| 2.5°  | 269.4  | 271.6  | 267.2  | 265.4  | 259.7  | 261.0 | 251.3 | 247.3 | 241.1 | 231.0 | 226.1 |
| 5°    | 415.6  | 411.6  | 408.1  | 400.6  | 396.1  | 384.2 | 371.0 | 355.9 | 337.8 | 319.7 | 299.0 |
| 7.5°  | 519.8  | 516.7  | 515.4  | 509.2  | 500.4  | 488.0 | 470.8 | 451.8 | 428.4 | 404.1 | 372.7 |
| 10°   | 590.0  | 586.9  | 581.6  | 575.4  | 568.4  | 558.2 | 541.4 | 520.7 | 495.1 | 463.7 | 427.1 |
| 12.5° | 635.9  | 635.5  | 626.7  | 619.6  | 610.8  | 601.9 | 584.7 | 567.9 | 542.8 | 510.5 | 469.0 |
| 15°   | 745.0  | 738.0  | 726.5  | 706.6  | 681.9  | 658.9 | 631.1 | 604.6 | 577.2 | 541.0 | 494.6 |
| 17.5° | 881.0  | 873.1  | 853.7  | 828.5  | 788.7  | 745.0 | 697.3 | 655.4 | 614.3 | 565.3 | 510.5 |
| 20°   | 976.9  | 973.8  | 957.4  | 928.3  | 885.9  | 828.0 | 765.3 | 706.2 | 648.3 | 585.6 | 518.0 |
| 22.5° | 1038.3 | 1036.5 | 1029.9 | 1010.0 | 966.7  | 901.8 | 821.0 | 741.5 | 671.7 | 598.4 | 515.8 |
| 25°   | 1065.6 | 1067.8 | 1068.7 | 1059.0 | 1024.1 | 957.9 | 862.1 | 768.4 | 685.0 | 596.6 | 499.0 |
| 27.5° | 1085.1 | 1085.1 | 1088.6 | 1084.2 | 1048.9 | 979.1 | 877.9 | 777.7 | 680.5 | 575.0 | 463.7 |
| 30°   | 1131.9 | 1131.0 | 1133.2 | 1121.3 | 1072.3 | 985.7 | 870.9 | 762.7 | 655.4 | 537.5 | 412.9 |
| 32.5° | 1152.2 | 1153.1 | 1152.6 | 1133.7 | 1076.7 | 981.3 | 853.7 | 734.0 | 609.0 | 478.7 | 345.8 |
| 35°   | 1160.6 | 1156.6 | 1140.3 | 1097.0 | 1025.0 | 922.6 | 805.1 | 685.4 | 544.1 | 405.4 | 272.9 |
| 37.5° | 1132.8 | 1121.3 | 1085.1 | 1025.9 | 938.0  | 839.5 | 724.7 | 598.4 | 458.0 | 318.0 | 205.4 |
| 40°   | 1051.9 | 1036.9 | 991.4  | 919.9  | 839.5  | 750.8 | 629.8 | 496.4 | 358.2 | 238.0 | 144.0 |
| 42.5° | 937.6  | 920.3  | 871.3  | 809.1  | 735.7  | 642.6 | 522.0 | 388.6 | 262.3 | 164.3 | 91.4  |
| 45°   | 769.8  | 760.0  | 731.8  | 679.2  | 607.2  | 510.5 | 400.1 | 283.5 | 181.5 | 104.7 | 46.8  |
| 47.5° | 595.3  | 582.9  | 562.6  | 526.4  | 466.4  | 374.5 | 280.0 | 192.5 | 116.6 | 51.7  | 9.7   |
| 50°   | 458.0  | 443.4  | 418.7  | 378.5  | 315.8  | 250.0 | 181.5 | 120.1 | 59.2  | 11.9  | 0.4   |
| 52.5° | 263.6  | 266.7  | 254.8  | 229.2  | 194.3  | 149.7 | 105.1 | 60.5  | 13.2  | 0.4   | 0.0   |
| 55°   | 70.2   | 76.0   | 74.2   | 79.9   | 70.2   | 59.2  | 43.7  | 11.5  | 0.9   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.4    | 0.9    | 2.6    | 4.0   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 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°    | 152.8 | 152.8 | 152.8 | 152.8 | 152.8  | 152.8 | 152.8  | 152.8 |
| 2.5°  | 215.1 | 205.8 | 194.3 | 151.9 | 114.4  | 82.1  | 64.0   | 59.2  |
| 5°    | 279.1 | 256.6 | 227.4 | 140.9 | 70.7   | 28.3  | 12.8   | 10.6  |
| 7.5°  | 339.6 | 306.5 | 253.9 | 123.2 | 35.8   | 7.1   | 3.5    | 3.1   |
| 10°   | 386.4 | 341.8 | 273.4 | 100.7 | 13.2   | 2.6   | 2.2    | 2.2   |
| 12.5° | 418.7 | 364.3 | 280.4 | 76.4  | 4.9    | 1.3   | 1.3    | 0.9   |
| 15°   | 437.2 | 373.2 | 273.8 | 52.6  | 1.8    | 0.9   | 0.0    | 0.0   |
| 17.5° | 442.9 | 369.6 | 256.1 | 33.1  | 0.4    | 0.0   | 0.0    | 0.0   |
| 20°   | 438.1 | 352.4 | 228.3 | 19.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 422.2 | 325.5 | 194.8 | 10.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 392.6 | 287.5 | 155.5 | 4.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 344.5 | 238.5 | 117.0 | 1.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 289.7 | 185.9 | 83.0  | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 226.1 | 136.9 | 53.4  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 170.0 | 95.8  | 31.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 118.4 | 60.5  | 16.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 73.8  | 32.7  | 5.7   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 41.1  | 11.5  | 0.4   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 9.7   | 0.9   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.4   | 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   | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.4   | 0.4   | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.4   | 0.4   | 0.4   | 0.9   | 0.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.4   | 0.4   | 0.9   | 0.9   | 0.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.4   | 0.4   | 0.9   | 0.9   | 0.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.4   | 0.9   | 0.9   | 0.9   | 0.4    | 0.4   | 0.0    | 0.0   |
| 80°   | 0.4   | 0.9   | 0.9   | 0.9   | 0.9    | 0.4   | 0.0    | 0.0   |
| 82.5° | 0.4   | 0.9   | 0.9   | 0.9   | 0.9    | 0.4   | 0.0    | 0.0   |
| 85°   | 0.4   | 0.9   | 0.9   | 0.9   | 0.4    | 0.4   | 0.0    | 0.0   |
| 87.5° | 0.4   | 0.9   | 0.9   | 0.9   | 0.9    | 0.4   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)