

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: P1308956

Luminaire Tested: LDSQA3D05R459030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308956  
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: LDSQA3D05R459030DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

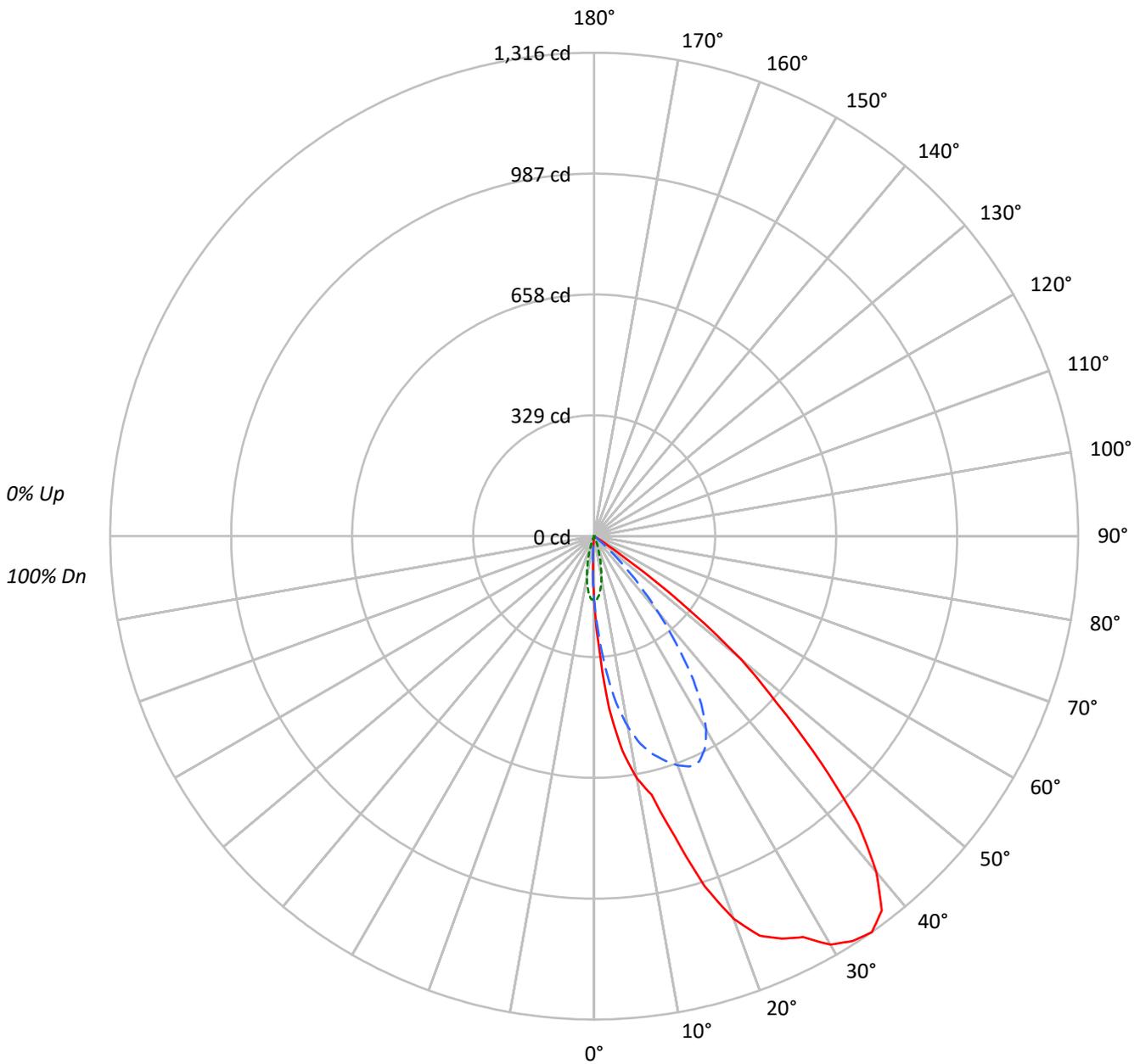
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 558.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 96  | 94  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 89  | 86  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 82  | 79  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 76  | 72  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 70  | 65  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 59  | 54  | 51  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 46  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 42  | 38  | 37  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 29846  | 29846  | 29846 | 29846 | 29846 |
| 5°  | 81479  | 62686  | 27626 | 5549  | 2075  |
| 10° | 117029 | 91969  | 19971 | 525   | 437   |
| 15° | 150662 | 109404 | 10627 | 178   | 0     |
| 20° | 203051 | 121713 | 4032  | 0     | 0     |
| 25° | 229666 | 128591 | 1045  | 0     | 0     |
| 30° | 255284 | 121228 | 99    | 0     | 0     |
| 35° | 276746 | 96671  | 0     | 0     | 0     |
| 40° | 268234 | 60702  | 0     | 0     | 0     |
| 45° | 212628 | 28911  | 0     | 0     | 0     |
| 50° | 139163 | 3617   | 0     | 0     | 0     |
| 55° | 23901  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 172   | 0     | 0     |
| 65° | 0      | 204    | 204   | 0     | 0     |
| 70° | 0      | 252    | 504   | 0     | 0     |
| 75° | 0      | 333    | 665   | 0     | 0     |
| 80° | 0      | 496    | 992   | 496   | 0     |
| 85° | 0      | 988    | 1976  | 988   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 212628 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.6   | 3.7       |
| 10°-20°   | 79.5   | 14.2      |
| 20°-30°   | 148.8  | 26.7      |
| 30°-40°   | 173.7  | 31.1      |
| 40°-50°   | 113.3  | 20.3      |
| 50°-60°   | 21.0   | 3.8       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 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°    | 248.9  | 44.6      |
| 0°-40°    | 422.6  | 75.7      |
| 0°-60°    | 556.9  | 99.8      |
| 0°-90°    | 558.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 558.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 173  | 173 | 173 | 173  | 173  |      |
| 5°  | 471  | 363 | 160 | 32   | 12   | 50   |
| 15° | 845  | 614 | 60  | 1    | 0    | 252  |
| 25° | 1209 | 677 | 6   | 0    | 0    | 559  |
| 35° | 1316 | 460 | 0   | 0    | 0    | 807  |
| 45° | 873  | 119 | 0   | 0    | 0    | 664  |
| 55° | 80   | 0   | 0   | 0    | 0    | 138  |
| 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°    | 173.3  | 173.3  | 173.3  | 173.3  | 173.3  | 173.3  | 173.3 | 173.3 | 173.3 | 173.3 | 173.3 |
| 2.5°  | 305.5  | 308.0  | 303.0  | 301.0  | 294.5  | 296.0  | 285.0 | 280.5 | 273.5 | 262.0 | 256.4 |
| 5°    | 471.3  | 466.8  | 462.8  | 454.3  | 449.3  | 435.8  | 420.7 | 403.7 | 383.2 | 362.6 | 339.1 |
| 7.5°  | 589.5  | 586.0  | 584.5  | 577.5  | 567.5  | 553.5  | 533.9 | 512.4 | 485.8 | 458.3 | 422.7 |
| 10°   | 669.2  | 665.7  | 659.6  | 652.6  | 644.6  | 633.1  | 614.1 | 590.5 | 561.5 | 525.9 | 484.3 |
| 12.5° | 721.2  | 720.7  | 710.7  | 702.7  | 692.7  | 682.7  | 663.1 | 644.1 | 615.6 | 579.0 | 531.9 |
| 15°   | 845.0  | 836.9  | 823.9  | 801.4  | 773.3  | 747.3  | 715.7 | 685.7 | 654.6 | 613.6 | 561.0 |
| 17.5° | 999.2  | 990.2  | 968.2  | 939.6  | 894.5  | 845.0  | 790.9 | 743.3 | 696.7 | 641.1 | 579.0 |
| 20°   | 1107.9 | 1104.4 | 1085.9 | 1052.8 | 1004.7 | 939.1  | 868.0 | 800.9 | 735.3 | 664.1 | 587.5 |
| 22.5° | 1177.5 | 1175.5 | 1168.0 | 1145.5 | 1096.4 | 1022.8 | 931.1 | 841.0 | 761.8 | 678.7 | 585.0 |
| 25°   | 1208.6 | 1211.1 | 1212.1 | 1201.1 | 1161.5 | 1086.4 | 977.7 | 871.5 | 776.8 | 676.7 | 566.0 |
| 27.5° | 1230.6 | 1230.6 | 1234.6 | 1229.6 | 1189.6 | 1110.4 | 995.7 | 882.0 | 771.8 | 652.1 | 525.9 |
| 30°   | 1283.7 | 1282.7 | 1285.2 | 1271.7 | 1216.1 | 1117.9 | 987.7 | 865.0 | 743.3 | 609.6 | 468.3 |
| 32.5° | 1306.8 | 1307.8 | 1307.3 | 1285.7 | 1221.1 | 1112.9 | 968.2 | 832.4 | 690.7 | 542.9 | 392.2 |
| 35°   | 1316.3 | 1311.8 | 1293.2 | 1244.2 | 1162.5 | 1046.3 | 913.1 | 777.3 | 617.1 | 459.8 | 309.5 |
| 37.5° | 1284.7 | 1271.7 | 1230.6 | 1163.5 | 1063.8 | 952.1  | 821.9 | 678.7 | 519.4 | 360.6 | 232.9 |
| 40°   | 1193.1 | 1176.0 | 1124.4 | 1043.3 | 952.1  | 851.5  | 714.2 | 563.0 | 406.2 | 270.0 | 163.3 |
| 42.5° | 1063.3 | 1043.8 | 988.2  | 917.6  | 834.4  | 728.8  | 592.0 | 440.8 | 297.5 | 186.3 | 103.7 |
| 45°   | 873.0  | 862.0  | 829.9  | 770.3  | 688.7  | 579.0  | 453.8 | 321.6 | 205.9 | 118.7 | 53.1  |
| 47.5° | 675.2  | 661.1  | 638.1  | 597.0  | 528.9  | 424.7  | 317.5 | 218.4 | 132.2 | 58.6  | 11.0  |
| 50°   | 519.4  | 502.9  | 474.8  | 429.2  | 358.1  | 283.5  | 205.9 | 136.2 | 67.1  | 13.5  | 0.5   |
| 52.5° | 299.0  | 302.5  | 289.0  | 259.9  | 220.4  | 169.8  | 119.2 | 68.6  | 15.0  | 0.5   | 0.0   |
| 55°   | 79.6   | 86.1   | 84.1   | 90.7   | 79.6   | 67.1   | 49.6  | 13.0  | 1.0   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.5    | 1.0    | 3.0    | 4.5    | 1.5   | 0.5   | 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   | 0.5   | 0.5   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 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°    | 173.3 | 173.3 | 173.3 | 173.3 | 173.3  | 173.3 | 173.3  | 173.3 |
| 2.5°  | 243.9 | 233.4 | 220.4 | 172.3 | 129.7  | 93.2  | 72.6   | 67.1  |
| 5°    | 316.5 | 291.0 | 257.9 | 159.8 | 80.1   | 32.1  | 14.5   | 12.0  |
| 7.5°  | 385.2 | 347.6 | 288.0 | 139.7 | 40.6   | 8.0   | 4.0    | 3.5   |
| 10°   | 438.3 | 387.7 | 310.0 | 114.2 | 15.0   | 3.0   | 2.5    | 2.5   |
| 12.5° | 474.8 | 413.2 | 318.1 | 86.6  | 5.5    | 1.5   | 1.5    | 1.0   |
| 15°   | 495.9 | 423.2 | 310.5 | 59.6  | 2.0    | 1.0   | 0.0    | 0.0   |
| 17.5° | 502.4 | 419.2 | 290.5 | 37.6  | 0.5    | 0.0   | 0.0    | 0.0   |
| 20°   | 496.9 | 399.7 | 258.9 | 22.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 478.8 | 369.1 | 220.9 | 12.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 445.3 | 326.1 | 176.3 | 5.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 390.7 | 270.5 | 132.7 | 2.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 328.6 | 210.9 | 94.2  | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 256.4 | 155.3 | 60.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 192.8 | 108.7 | 36.1  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 134.2 | 68.6  | 19.0  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 83.6  | 37.1  | 6.5   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 46.6  | 13.0  | 0.5   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 11.0  | 1.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.5   | 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   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.5   | 0.5   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.5   | 0.5   | 0.5   | 1.0   | 0.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.5   | 0.5   | 1.0   | 1.0   | 0.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.5   | 0.5   | 1.0   | 1.0   | 0.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.5   | 1.0   | 1.0   | 1.0   | 0.5    | 0.5   | 0.0    | 0.0   |
| 80°   | 0.5   | 1.0   | 1.0   | 1.0   | 1.0    | 0.5   | 0.0    | 0.0   |
| 82.5° | 0.5   | 1.0   | 1.0   | 1.0   | 1.0    | 0.5   | 0.0    | 0.0   |
| 85°   | 0.5   | 1.0   | 1.0   | 1.0   | 0.5    | 0.5   | 0.0    | 0.0   |
| 87.5° | 0.5   | 1.0   | 1.0   | 1.0   | 1.0    | 0.5   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)