

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: P1325191

Luminaire Tested: LDSQA3D05R45W2N902765DE010 3LSQCA30R 1MB\_6500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325191  
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: LDSQA3D05R45W2N902765DE010 3LSQCA30R 1MB\_6500K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 6500K CCT AND, 90CRI ,  
3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

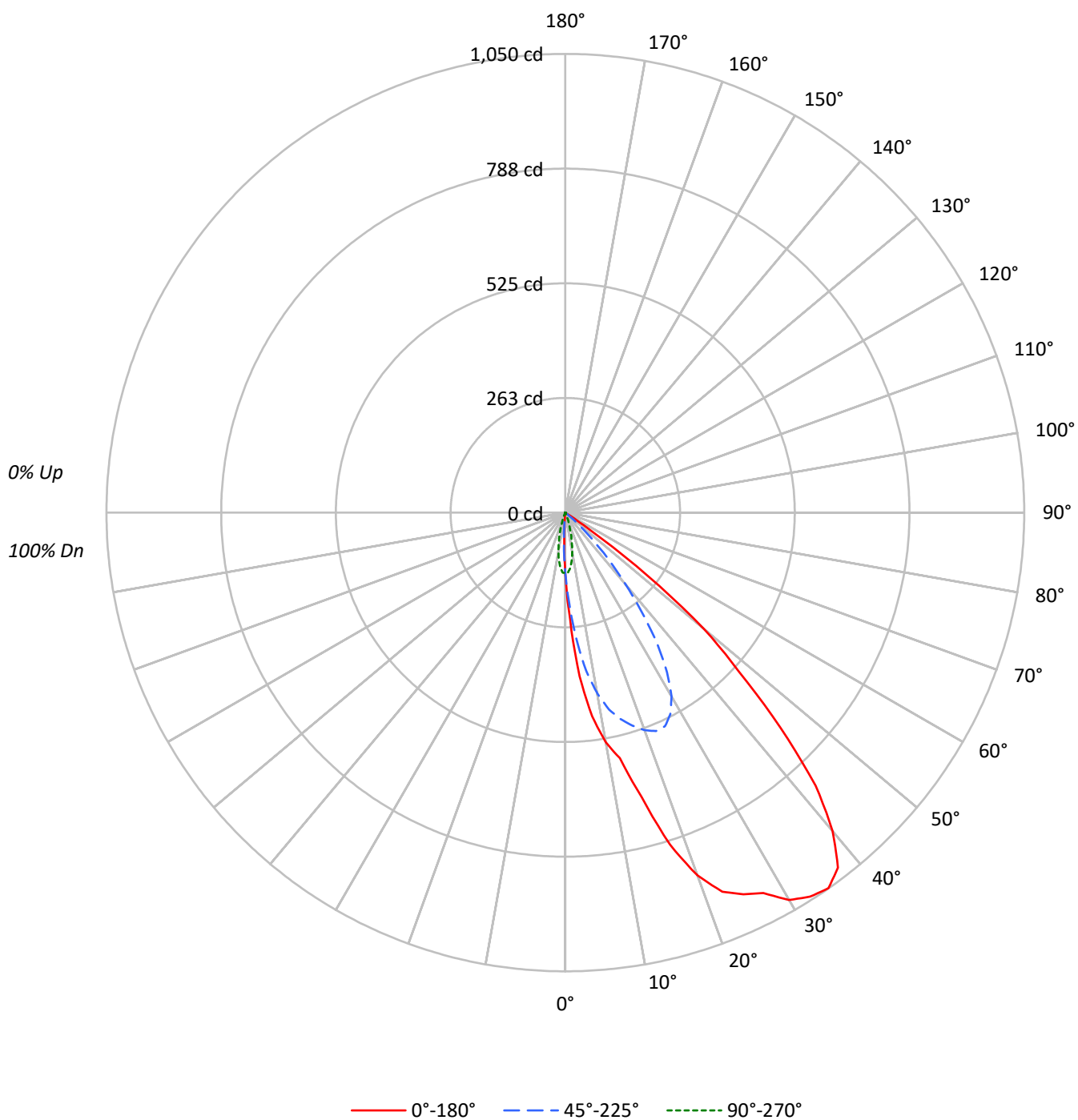
Lumens per Lamp: N/A  
Luminaire Lumens: 445.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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



TEST NUMBER: P1325191

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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  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 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°  | 23801  | 23801  | 23801 | 23801 | 23801 |
| 5°  | 64986  | 49997  | 22025 | 4426  | 1660  |
| 10° | 93316  | 73344  | 15932 | 420   | 350   |
| 15° | 120155 | 87241  | 8469  | 143   | 0     |
| 20° | 161942 | 97081  | 3226  | 0     | 0     |
| 25° | 183148 | 102538 | 836   | 0     | 0     |
| 30° | 203599 | 96669  | 80    | 0     | 0     |
| 35° | 220694 | 77097  | 0     | 0     | 0     |
| 40° | 213917 | 48404  | 0     | 0     | 0     |
| 45° | 169566 | 23065  | 0     | 0     | 0     |
| 50° | 110977 | 2894   | 0     | 0     | 0     |
| 55° | 19067  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 138   | 0     | 0     |
| 65° | 0      | 163    | 163   | 0     | 0     |
| 70° | 0      | 201    | 403   | 0     | 0     |
| 75° | 0      | 266    | 532   | 0     | 0     |
| 80° | 0      | 397    | 793   | 397   | 0     |
| 85° | 0      | 790    | 1581  | 790   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 169566 cd/sqm

TEST NUMBER: P1325191

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.5   | 3.7       |
| 10°-20°   | 63.4   | 14.2      |
| 20°-30°   | 118.7  | 26.7      |
| 30°-40°   | 138.5  | 31.1      |
| 40°-50°   | 90.3   | 20.3      |
| 50°-60°   | 16.8   | 3.8       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.3    | 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°    | 198.5  | 44.6      |
| 0°-40°    | 337.0  | 75.7      |
| 0°-60°    | 444.2  | 99.8      |
| 0°-90°    | 445.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 445.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 138  | 138 | 138 | 138  | 138  |      |
| 5°  | 376  | 289 | 127 | 26   | 10   | 40   |
| 15° | 674  | 489 | 48  | 1    | 0    | 201  |
| 25° | 964  | 540 | 4   | 0    | 0    | 446  |
| 35° | 1050 | 367 | 0   | 0    | 0    | 644  |
| 45° | 696  | 95  | 0   | 0    | 0    | 529  |
| 55° | 64   | 0   | 0   | 0    | 0    | 110  |
| 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°    | 138.2  | 138.2  | 138.2  | 138.2  | 138.2 | 138.2 | 138.2 | 138.2 | 138.2 | 138.2 | 138.2 |
| 2.5°  | 243.7  | 245.7  | 241.7  | 240.1  | 234.9 | 236.1 | 227.3 | 223.7 | 218.1 | 208.9 | 204.5 |
| 5°    | 375.9  | 372.3  | 369.1  | 362.3  | 358.3 | 347.5 | 335.5 | 321.9 | 305.6 | 289.2 | 270.4 |
| 7.5°  | 470.1  | 467.3  | 466.1  | 460.6  | 452.6 | 441.4 | 425.8 | 408.6 | 387.5 | 365.5 | 337.1 |
| 10°   | 533.6  | 530.9  | 526.1  | 520.5  | 514.1 | 504.9 | 489.7 | 470.9 | 447.8 | 419.4 | 386.3 |
| 12.5° | 575.2  | 574.8  | 566.8  | 560.4  | 552.4 | 544.4 | 528.9 | 513.7 | 490.9 | 461.7 | 424.2 |
| 15°   | 673.9  | 667.5  | 657.1  | 639.1  | 616.7 | 596.0 | 570.8 | 546.8 | 522.1 | 489.3 | 447.4 |
| 17.5° | 796.9  | 789.7  | 772.1  | 749.3  | 713.4 | 673.9 | 630.7 | 592.8 | 555.6 | 511.3 | 461.7 |
| 20°   | 883.6  | 880.8  | 866.0  | 839.6  | 801.3 | 748.9 | 692.2 | 638.7 | 586.4 | 529.7 | 468.5 |
| 22.5° | 939.1  | 937.5  | 931.5  | 913.5  | 874.4 | 815.7 | 742.6 | 670.7 | 607.5 | 541.2 | 466.5 |
| 25°   | 963.8  | 965.8  | 966.6  | 957.8  | 926.3 | 866.4 | 779.7 | 695.0 | 619.5 | 539.6 | 451.4 |
| 27.5° | 981.4  | 981.4  | 984.6  | 980.6  | 948.7 | 885.6 | 794.1 | 703.4 | 615.5 | 520.1 | 419.4 |
| 30°   | 1023.8 | 1023.0 | 1025.0 | 1014.2 | 969.8 | 891.5 | 787.7 | 689.8 | 592.8 | 486.1 | 373.5 |
| 32.5° | 1042.1 | 1042.9 | 1042.5 | 1025.4 | 973.8 | 887.5 | 772.1 | 663.9 | 550.8 | 433.0 | 312.8 |
| 35°   | 1049.7 | 1046.1 | 1031.3 | 992.2  | 927.1 | 834.4 | 728.2 | 619.9 | 492.1 | 366.7 | 246.9 |
| 37.5° | 1024.6 | 1014.2 | 981.4  | 927.9  | 848.4 | 759.3 | 655.5 | 541.2 | 414.2 | 287.6 | 185.7 |
| 40°   | 951.5  | 937.9  | 896.7  | 832.0  | 759.3 | 679.0 | 569.6 | 449.0 | 323.9 | 215.3 | 130.2 |
| 42.5° | 848.0  | 832.4  | 788.1  | 731.8  | 665.5 | 581.2 | 472.1 | 351.5 | 237.3 | 148.6 | 82.7  |
| 45°   | 696.2  | 687.4  | 661.9  | 614.3  | 549.2 | 461.7 | 361.9 | 256.4 | 164.2 | 94.7  | 42.3  |
| 47.5° | 538.4  | 527.3  | 508.9  | 476.1  | 421.8 | 338.7 | 253.2 | 174.2 | 105.5 | 46.7  | 8.8   |
| 50°   | 414.2  | 401.0  | 378.7  | 342.3  | 285.6 | 226.1 | 164.2 | 108.6 | 53.5  | 10.8  | 0.4   |
| 52.5° | 238.5  | 241.3  | 230.5  | 207.3  | 175.8 | 135.4 | 95.1  | 54.7  | 12.0  | 0.4   | 0.0   |
| 55°   | 63.5   | 68.7   | 67.1   | 72.3   | 63.5  | 53.5  | 39.5  | 10.4  | 0.8   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.4    | 0.8    | 2.4   | 3.6   | 1.2   | 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°    | 138.2 | 138.2 | 138.2 | 138.2 | 138.2  | 138.2 | 138.2  | 138.2 |
| 2.5°  | 194.5 | 186.1 | 175.8 | 137.4 | 103.5  | 74.3  | 57.9   | 53.5  |
| 5°    | 252.4 | 232.1 | 205.7 | 127.4 | 63.9   | 25.6  | 11.6   | 9.6   |
| 7.5°  | 307.2 | 277.2 | 229.7 | 111.4 | 32.4   | 6.4   | 3.2    | 2.8   |
| 10°   | 349.5 | 309.2 | 247.3 | 91.1  | 12.0   | 2.4   | 2.0    | 2.0   |
| 12.5° | 378.7 | 329.5 | 253.6 | 69.1  | 4.4    | 1.2   | 1.2    | 0.8   |
| 15°   | 395.4 | 337.5 | 247.7 | 47.5  | 1.6    | 0.8   | 0.0    | 0.0   |
| 17.5° | 400.6 | 334.3 | 231.7 | 30.0  | 0.4    | 0.0   | 0.0    | 0.0   |
| 20°   | 396.2 | 318.8 | 206.5 | 17.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 381.9 | 294.4 | 176.2 | 9.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 355.1 | 260.0 | 140.6 | 4.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 311.6 | 215.7 | 105.9 | 1.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 262.0 | 168.2 | 75.1  | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 204.5 | 123.8 | 48.3  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 153.8 | 86.7  | 28.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 107.0 | 54.7  | 15.2  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 66.7  | 29.6  | 5.2   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 37.1  | 10.4  | 0.4   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 8.8   | 0.8   | 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   | 0.8   | 0.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.4   | 0.4   | 0.8   | 0.8   | 0.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.4   | 0.4   | 0.8   | 0.8   | 0.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.4   | 0.8   | 0.8   | 0.8   | 0.4    | 0.4   | 0.0    | 0.0   |
| 80°   | 0.4   | 0.8   | 0.8   | 0.8   | 0.8    | 0.4   | 0.0    | 0.0   |
| 82.5° | 0.4   | 0.8   | 0.8   | 0.8   | 0.8    | 0.4   | 0.0    | 0.0   |
| 85°   | 0.4   | 0.8   | 0.8   | 0.8   | 0.4    | 0.4   | 0.0    | 0.0   |
| 87.5° | 0.4   | 0.8   | 0.8   | 0.8   | 0.8    | 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)