

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: P1327090

Luminaire Tested: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MB\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327090  
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: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MB\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

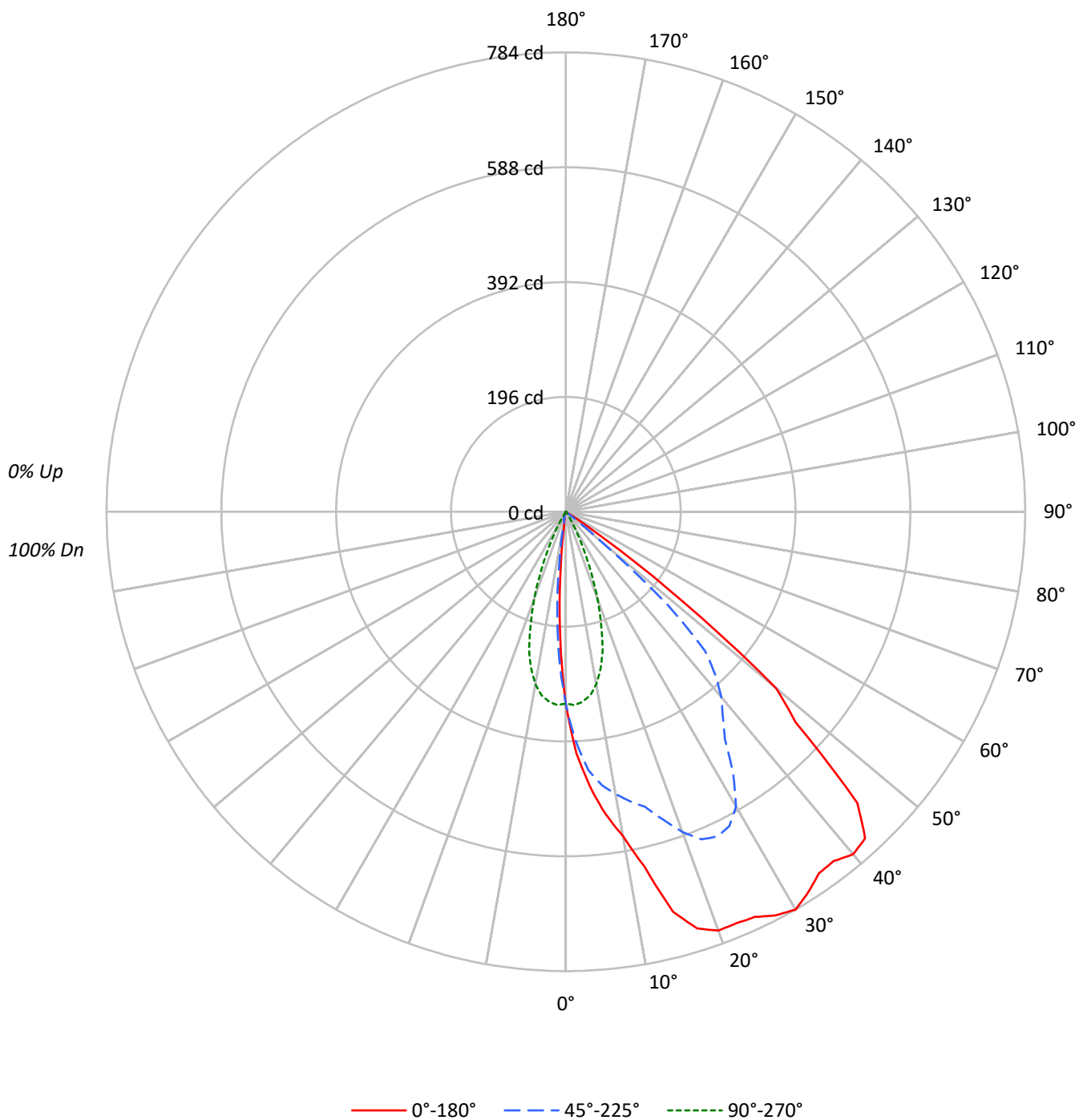
Lumens per Lamp: N/A  
Luminaire Lumens: 532.0 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1327090

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### Luminous Intensity Polar Plot



TEST NUMBER: P1327090

CATALOG NUMBER: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MB\_3000K

**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 |
| 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°  | 56368  | 56368  | 56368 | 56368 | 56368 |
| 5°  | 81254  | 76517  | 56290 | 28992 | 18619 |
| 10° | 98282  | 85551  | 52254 | 3463  | 2029  |
| 15° | 125968 | 92947  | 43309 | 2282  | 1872  |
| 20° | 139399 | 106538 | 29031 | 1283  | 220   |
| 25° | 144990 | 116201 | 14271 | 114   | 0     |
| 30° | 155891 | 115481 | 3938  | 0     | 0     |
| 35° | 158336 | 99425  | 0     | 0     | 0     |
| 40° | 171538 | 92716  | 0     | 0     | 0     |
| 45° | 171369 | 81860  | 0     | 0     | 0     |
| 50° | 125472 | 19827  | 0     | 0     | 0     |
| 55° | 24471  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 245    | 245   | 0     | 0     |
| 70° | 0      | 302    | 302   | 0     | 0     |
| 75° | 0      | 399    | 399   | 0     | 0     |
| 80° | 0      | 595    | 595   | 595   | 0     |
| 85° | 0      | 1186   | 1186  | 1186  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 171636 cd/sqm

TEST NUMBER: P1327090

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.1   | 5.3       |
| 10°-20°   | 80.1   | 15.0      |
| 20°-30°   | 127.6  | 24.0      |
| 30°-40°   | 147.5  | 27.7      |
| 40°-50°   | 117.1  | 22.0      |
| 50°-60°   | 30.8   | 5.8       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.3    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 235.7  | 44.3      |
| 0°-40°    | 383.2  | 72.0      |
| 0°-60°    | 531.1  | 99.8      |
| 0°-90°    | 532.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 532.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 327 | 327 | 327 | 327  | 327  |      |
| 5°  | 470 | 443 | 326 | 168  | 108  | 47   |
| 15° | 706 | 521 | 243 | 13   | 10   | 197  |
| 25° | 763 | 612 | 75  | 1    | 0    | 356  |
| 35° | 753 | 473 | 0   | 0    | 0    | 478  |
| 45° | 704 | 336 | 0   | 0    | 0    | 501  |
| 55° | 82  | 0   | 0   | 0    | 0    | 123  |
| 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°    | 327.3 | 327.3 | 327.3 | 327.3 | 327.3 | 327.3 | 327.3 | 327.3 | 327.3 | 327.3 | 327.3 |
| 2.5°  | 411.8 | 415.8 | 414.1 | 412.4 | 408.3 | 406.5 | 406.5 | 401.9 | 394.3 | 393.1 | 387.9 |
| 5°    | 470.0 | 471.2 | 471.2 | 470.0 | 467.1 | 462.4 | 461.3 | 456.6 | 449.6 | 442.6 | 435.7 |
| 7.5°  | 520.7 | 520.1 | 516.6 | 514.3 | 509.0 | 502.6 | 496.8 | 490.4 | 479.9 | 470.6 | 460.7 |
| 10°   | 562.0 | 563.8 | 560.9 | 555.0 | 548.1 | 539.3 | 530.0 | 518.9 | 503.2 | 489.2 | 476.4 |
| 12.5° | 620.3 | 619.7 | 612.1 | 602.2 | 585.3 | 569.0 | 554.5 | 542.2 | 523.0 | 506.1 | 490.4 |
| 15°   | 706.5 | 705.3 | 698.3 | 689.6 | 665.1 | 640.7 | 615.6 | 581.3 | 549.2 | 521.3 | 499.1 |
| 17.5° | 745.5 | 747.8 | 742.0 | 737.3 | 723.4 | 707.1 | 684.9 | 650.6 | 601.1 | 550.4 | 503.8 |
| 20°   | 760.6 | 763.6 | 759.5 | 758.9 | 752.5 | 744.9 | 726.9 | 689.6 | 641.2 | 581.3 | 523.6 |
| 22.5° | 760.1 | 762.4 | 760.6 | 768.2 | 775.8 | 771.7 | 749.6 | 712.3 | 662.8 | 605.1 | 539.9 |
| 25°   | 763.0 | 761.2 | 754.8 | 765.9 | 776.9 | 773.5 | 762.4 | 730.4 | 676.2 | 611.5 | 545.7 |
| 27.5° | 776.4 | 763.6 | 750.7 | 764.7 | 770.0 | 771.1 | 764.7 | 726.9 | 673.9 | 604.6 | 534.1 |
| 30°   | 783.9 | 770.0 | 759.5 | 771.1 | 771.1 | 777.5 | 764.1 | 721.0 | 654.1 | 580.7 | 503.2 |
| 32.5° | 770.0 | 767.0 | 776.4 | 788.0 | 790.9 | 790.9 | 761.2 | 701.8 | 620.9 | 531.8 | 453.7 |
| 35°   | 753.1 | 760.1 | 786.9 | 792.1 | 792.1 | 779.3 | 743.2 | 668.0 | 571.4 | 472.9 | 417.0 |
| 37.5° | 751.3 | 762.4 | 792.1 | 785.7 | 775.2 | 751.3 | 698.9 | 609.2 | 500.9 | 439.7 | 389.6 |
| 40°   | 763.0 | 773.5 | 790.9 | 767.6 | 742.6 | 705.3 | 642.4 | 532.3 | 458.4 | 412.4 | 356.4 |
| 42.5° | 756.0 | 765.9 | 766.5 | 732.1 | 696.6 | 645.9 | 562.6 | 470.0 | 427.5 | 377.4 | 318.6 |
| 45°   | 703.6 | 704.7 | 702.4 | 665.7 | 629.0 | 576.6 | 488.1 | 439.1 | 393.7 | 336.1 | 234.1 |
| 47.5° | 531.8 | 529.4 | 538.2 | 527.7 | 529.4 | 498.0 | 443.2 | 403.0 | 348.9 | 235.9 | 71.1  |
| 50°   | 468.3 | 465.4 | 456.6 | 447.3 | 438.0 | 422.8 | 397.2 | 354.1 | 251.6 | 74.0  | 2.3   |
| 52.5° | 251.0 | 265.0 | 292.4 | 334.3 | 350.0 | 348.9 | 329.7 | 262.1 | 79.2  | 0.6   | 0.0   |
| 55°   | 81.5  | 80.4  | 89.7  | 106.0 | 145.6 | 167.7 | 174.7 | 89.1  | 1.7   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 1.7   | 5.8   | 15.1  | 19.8  | 1.2   | 0.0   | 0.6   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.0   | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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°    | 327.3 | 327.3 | 327.3 | 327.3 | 327.3  | 327.3 | 327.3  | 327.3 |
| 2.5°  | 380.9 | 372.7 | 363.4 | 330.2 | 291.2  | 253.4 | 226.0  | 219.0 |
| 5°    | 424.6 | 410.6 | 390.8 | 325.6 | 240.5  | 167.7 | 120.0  | 107.7 |
| 7.5°  | 447.3 | 435.1 | 414.1 | 316.3 | 186.4  | 82.7  | 30.9   | 21.0  |
| 10°   | 461.3 | 446.7 | 423.4 | 298.8 | 121.7  | 19.8  | 11.1   | 11.6  |
| 12.5° | 471.2 | 454.3 | 428.1 | 273.7 | 61.7   | 9.9   | 14.0   | 14.6  |
| 15°   | 475.3 | 457.2 | 427.5 | 242.9 | 22.1   | 12.8  | 12.2   | 10.5  |
| 17.5° | 472.9 | 450.2 | 419.9 | 198.6 | 7.6    | 12.2  | 6.4    | 5.2   |
| 20°   | 470.0 | 444.4 | 407.7 | 158.4 | 6.4    | 7.0   | 2.3    | 1.2   |
| 22.5° | 479.3 | 434.5 | 390.8 | 113.6 | 6.4    | 2.3   | 0.0    | 0.0   |
| 25°   | 480.5 | 430.4 | 369.3 | 75.1  | 2.9    | 0.6   | 0.0    | 0.0   |
| 27.5° | 468.8 | 406.5 | 336.1 | 44.3  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 431.6 | 376.8 | 300.5 | 19.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 394.9 | 343.6 | 260.9 | 4.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 365.8 | 309.3 | 217.2 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 329.7 | 268.5 | 161.9 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 291.8 | 216.7 | 81.0  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 227.7 | 103.1 | 8.2   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 87.4  | 9.3   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 4.7   | 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°   | 0.6   | 0.6   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.0    | 0.0   |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.0    | 0.0   |
| 87.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)