

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: P1323820

Luminaire Tested: LDSQA3D09R609030D2WDE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

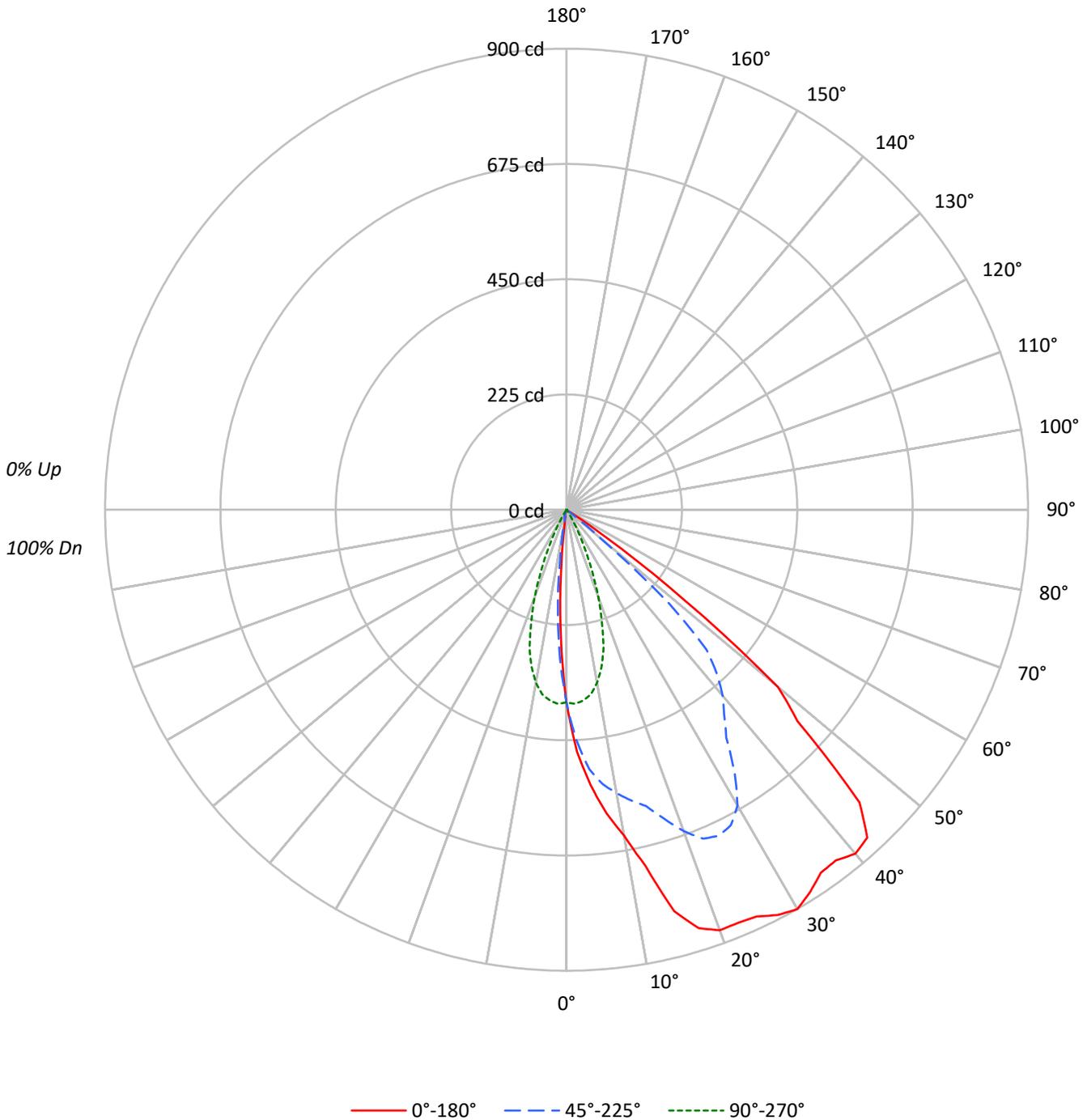
Test Method: LM-79-2019  
Report Number: P1323820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R609030D2WDE010 3LSQCA30R 1MB  
Description: 3in Adjustable Dim to Warm LED luminaire with, R60 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 611.0 lumens  
Efficiency: N/A  
Efficacy: 41.6 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): 14.7  
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: P1323820

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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  | 0   |
| 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°  | 64738  | 64738  | 64738 | 64738 | 64738 |
| 5°  | 93321  | 87892  | 64640 | 33297 | 21385 |
| 10° | 112885 | 98265  | 60001 | 3970  | 2343  |
| 15° | 144671 | 106747 | 49727 | 2621  | 2140  |
| 20° | 160109 | 122355 | 33338 | 1466  | 238   |
| 25° | 166520 | 133475 | 16399 | 133   | 0     |
| 30° | 179039 | 132623 | 4514  | 0     | 0     |
| 35° | 181841 | 114205 | 0     | 0     | 0     |
| 40° | 197010 | 106475 | 0     | 0     | 0     |
| 45° | 196796 | 94014  | 0     | 0     | 0     |
| 50° | 144093 | 22774  | 0     | 0     | 0     |
| 55° | 28104  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 285    | 285   | 0     | 0     |
| 70° | 0      | 352    | 352   | 0     | 0     |
| 75° | 0      | 466    | 466   | 0     | 0     |
| 80° | 0      | 694    | 694   | 694   | 0     |
| 85° | 0      | 1383   | 1383  | 1383  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 197137 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.3   | 5.3       |
| 10°-20°   | 91.9   | 15.0      |
| 20°-30°   | 146.5  | 24.0      |
| 30°-40°   | 169.4  | 27.7      |
| 40°-50°   | 134.5  | 22.0      |
| 50°-60°   | 35.4   | 5.8       |
| 60°-70°   | 0.3    | 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°    | 270.7  | 44.3      |
| 0°-40°    | 440.1  | 72.0      |
| 0°-60°    | 610.0  | 99.8      |
| 0°-90°    | 611.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 611.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 376 | 376 | 376 | 376  | 376  |      |
| 5°  | 540 | 508 | 374 | 193  | 124  | 55   |
| 15° | 811 | 599 | 279 | 15   | 12   | 226  |
| 25° | 876 | 702 | 86  | 1    | 0    | 409  |
| 35° | 865 | 543 | 0   | 0    | 0    | 549  |
| 45° | 808 | 386 | 0   | 0    | 0    | 575  |
| 55° | 94  | 0   | 0   | 0    | 0    | 141  |
| 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°    | 375.9 | 375.9 | 375.9 | 375.9 | 375.9 | 375.9 | 375.9 | 375.9 | 375.9 | 375.9 | 375.9 |
| 2.5°  | 472.9 | 477.6 | 475.6 | 473.6 | 468.9 | 466.9 | 466.9 | 461.5 | 452.9 | 451.5 | 445.5 |
| 5°    | 539.8 | 541.1 | 541.1 | 539.8 | 536.5 | 531.1 | 529.8 | 524.4 | 516.4 | 508.4 | 500.3 |
| 7.5°  | 598.0 | 597.3 | 593.3 | 590.6 | 584.6 | 577.3 | 570.6 | 563.2 | 551.2 | 540.5 | 529.1 |
| 10°   | 645.5 | 647.5 | 644.2 | 637.5 | 629.4 | 619.4 | 608.7 | 596.0 | 577.9 | 561.9 | 547.2 |
| 12.5° | 712.4 | 711.7 | 703.0 | 691.7 | 672.3 | 653.5 | 636.8 | 622.8 | 600.7 | 581.3 | 563.2 |
| 15°   | 811.4 | 810.0 | 802.0 | 792.0 | 763.9 | 735.8 | 707.0 | 667.6 | 630.8 | 598.7 | 573.3 |
| 17.5° | 856.2 | 858.9 | 852.2 | 846.8 | 830.8 | 812.1 | 786.6 | 747.2 | 690.3 | 632.1 | 578.6 |
| 20°   | 873.6 | 876.9 | 872.3 | 871.6 | 864.2 | 855.5 | 834.8 | 792.0 | 736.5 | 667.6 | 601.3 |
| 22.5° | 872.9 | 875.6 | 873.6 | 882.3 | 891.0 | 886.3 | 860.9 | 818.1 | 761.2 | 695.0 | 620.1 |
| 25°   | 876.3 | 874.3 | 866.9 | 879.6 | 892.3 | 888.3 | 875.6 | 838.8 | 776.6 | 702.4 | 626.8 |
| 27.5° | 891.7 | 876.9 | 862.2 | 878.3 | 884.3 | 885.6 | 878.3 | 834.8 | 773.9 | 694.3 | 613.4 |
| 30°   | 900.3 | 884.3 | 872.3 | 885.6 | 885.6 | 893.0 | 877.6 | 828.1 | 751.2 | 666.9 | 577.9 |
| 32.5° | 884.3 | 881.0 | 891.7 | 905.0 | 908.4 | 908.4 | 874.3 | 806.0 | 713.1 | 610.7 | 521.1 |
| 35°   | 864.9 | 872.9 | 903.7 | 909.7 | 909.7 | 895.0 | 853.5 | 767.2 | 656.2 | 543.2 | 478.9 |
| 37.5° | 862.9 | 875.6 | 909.7 | 902.4 | 890.3 | 862.9 | 802.7 | 699.7 | 575.3 | 505.0 | 447.5 |
| 40°   | 876.3 | 888.3 | 908.4 | 881.6 | 852.9 | 810.0 | 737.8 | 611.4 | 526.4 | 473.6 | 409.4 |
| 42.5° | 868.2 | 879.6 | 880.3 | 840.8 | 800.0 | 741.8 | 646.2 | 539.8 | 491.0 | 433.5 | 365.9 |
| 45°   | 808.0 | 809.4 | 806.7 | 764.6 | 722.4 | 662.2 | 560.5 | 504.4 | 452.2 | 386.0 | 268.9 |
| 47.5° | 610.7 | 608.0 | 618.1 | 606.0 | 608.0 | 571.9 | 509.0 | 462.9 | 400.7 | 270.9 | 81.6  |
| 50°   | 537.8 | 534.5 | 524.4 | 513.7 | 503.0 | 485.6 | 456.2 | 406.7 | 289.0 | 85.0  | 2.7   |
| 52.5° | 288.3 | 304.4 | 335.8 | 384.0 | 402.0 | 400.7 | 378.6 | 301.0 | 91.0  | 0.7   | 0.0   |
| 55°   | 93.6  | 92.3  | 103.0 | 121.7 | 167.2 | 192.6 | 200.7 | 102.3 | 2.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 2.0   | 6.7   | 17.4  | 22.7  | 1.3   | 0.0   | 0.7   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.0   | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 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°    | 375.9 | 375.9 | 375.9 | 375.9 | 375.9  | 375.9 | 375.9  | 375.9 |
| 2.5°  | 437.5 | 428.1 | 417.4 | 379.3 | 334.5  | 291.0 | 259.5  | 251.5 |
| 5°    | 487.6 | 471.6 | 448.8 | 373.9 | 276.3  | 192.6 | 137.8  | 123.7 |
| 7.5°  | 513.7 | 499.7 | 475.6 | 363.2 | 214.1  | 95.0  | 35.5   | 24.1  |
| 10°   | 529.8 | 513.1 | 486.3 | 343.1 | 139.8  | 22.7  | 12.7   | 13.4  |
| 12.5° | 541.1 | 521.7 | 491.6 | 314.4 | 70.9   | 11.4  | 16.1   | 16.7  |
| 15°   | 545.8 | 525.1 | 491.0 | 278.9 | 25.4   | 14.7  | 14.0   | 12.0  |
| 17.5° | 543.2 | 517.1 | 482.3 | 228.1 | 8.7    | 14.0  | 7.4    | 6.0   |
| 20°   | 539.8 | 510.4 | 468.2 | 181.9 | 7.4    | 8.0   | 2.7    | 1.3   |
| 22.5° | 550.5 | 499.0 | 448.8 | 130.4 | 7.4    | 2.7   | 0.0    | 0.0   |
| 25°   | 551.8 | 494.3 | 424.1 | 86.3  | 3.3    | 0.7   | 0.0    | 0.0   |
| 27.5° | 538.5 | 466.9 | 386.0 | 50.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 495.7 | 432.8 | 345.2 | 22.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 453.5 | 394.7 | 299.7 | 5.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 420.1 | 355.2 | 249.5 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 378.6 | 308.4 | 186.0 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 335.1 | 248.8 | 93.0  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 261.5 | 118.4 | 9.4   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 100.3 | 10.7  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 5.4   | 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   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.7   | 0.7   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 82.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)