

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: P1327191

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MB_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MB_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

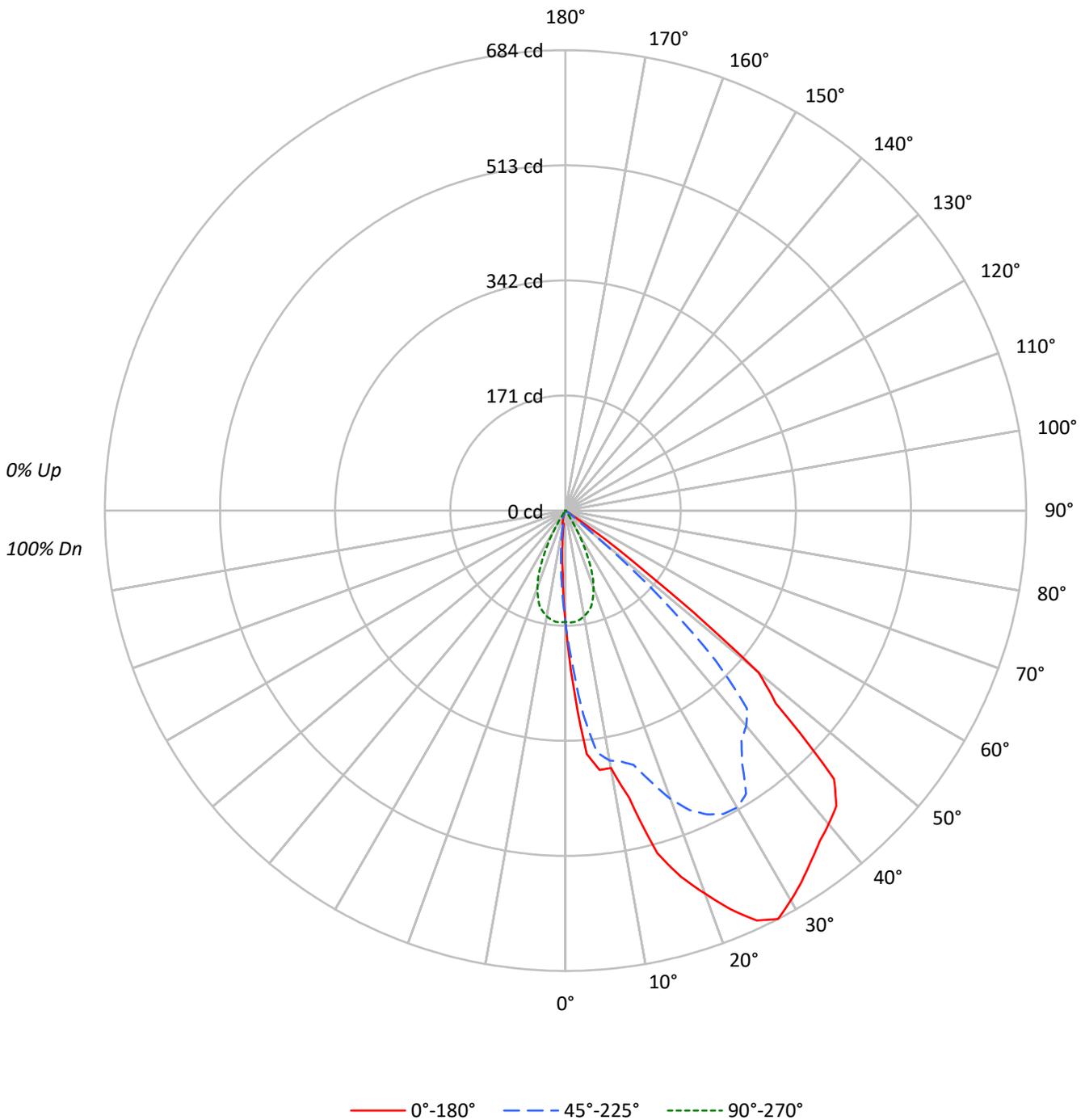
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 445.0 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
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

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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 | 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 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 98 | 93 | 89 | 94 | 91 | 87 | 91 | 88 | 85 | 88 | 86 | 84 | 82 |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 79 | 86 | 81 | 77 | 84 | 80 | 76 | 81 | 78 | 75 | 73 |
| 4 | 92 | 82 | 76 | 70 | 90 | 81 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 66 |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 55 | 53 |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 |
| 8 | 69 | 58 | 51 | 46 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 61 | 49 | 42 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 28451 | 28451 | 28451 | 28451 | 28451 |
| 5° | 62756 | 52659 | 28664 | 13035 | 8575 |
| 10° | 67871 | 65895 | 27893 | 3620 | 3742 |
| 15° | 93945 | 69750 | 26317 | 3691 | 2692 |
| 20° | 110955 | 83555 | 22323 | 2181 | 806 |
| 25° | 127679 | 94633 | 15753 | 361 | 0 |
| 30° | 133001 | 101282 | 7239 | 0 | 0 |
| 35° | 133611 | 95977 | 399 | 0 | 0 |
| 40° | 136668 | 93885 | 0 | 0 | 0 |
| 45° | 137343 | 76940 | 0 | 0 | 0 |
| 50° | 100287 | 15995 | 0 | 0 | 0 |
| 55° | 5645 | 0 | 0 | 0 | 0 |
| 60° | 0 | 207 | 207 | 0 | 0 |
| 65° | 0 | 0 | 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: 139949 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 18.1 | 4.1 |
| 10°-20° | 60.3 | 13.6 |
| 20°-30° | 108.4 | 24.4 |
| 30°-40° | 131.8 | 29.6 |
| 40°-50° | 101.8 | 22.9 |
| 50°-60° | 23.7 | 5.3 |
| 60°-70° | 0.1 | 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° | 186.9 | 42.0 |
| 0°-40° | 318.7 | 71.6 |
| 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° | 165 | 165 | 165 | 165 | 165 | |
| 5° | 363 | 305 | 166 | 75 | 50 | 34 |
| 15° | 527 | 391 | 148 | 21 | 15 | 147 |
| 25° | 672 | 498 | 83 | 2 | 0 | 306 |
| 35° | 636 | 456 | 2 | 0 | 0 | 399 |
| 45° | 564 | 316 | 0 | 0 | 0 | 399 |
| 55° | 19 | 0 | 0 | 0 | 0 | 77 |
| 65° | 0 | 0 | 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° | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 |
| 2.5° | 257.5 | 257.5 | 258.7 | 258.1 | 252.4 | 249.9 | 241.8 | 237.4 | 236.1 | 226.1 | 222.3 |
| 5° | 363.0 | 363.6 | 360.5 | 359.8 | 353.5 | 349.1 | 342.2 | 331.6 | 320.9 | 304.6 | 290.1 |
| 7.5° | 388.7 | 388.1 | 387.5 | 387.5 | 386.2 | 383.7 | 380.5 | 377.4 | 373.0 | 363.0 | 351.7 |
| 10° | 388.1 | 388.1 | 387.5 | 387.5 | 386.8 | 387.5 | 386.8 | 384.9 | 383.1 | 376.8 | 370.5 |
| 12.5° | 437.1 | 433.3 | 428.3 | 420.7 | 408.2 | 398.8 | 388.1 | 384.9 | 383.7 | 381.8 | 378.0 |
| 15° | 526.9 | 523.7 | 513.0 | 499.9 | 487.3 | 466.0 | 449.0 | 425.8 | 407.5 | 391.2 | 383.1 |
| 17.5° | 570.2 | 572.1 | 560.1 | 552.0 | 540.1 | 523.1 | 503.0 | 479.1 | 453.4 | 422.6 | 398.1 |
| 20° | 605.4 | 607.2 | 597.2 | 589.0 | 575.2 | 557.6 | 540.1 | 514.3 | 489.8 | 455.9 | 423.9 |
| 22.5° | 641.2 | 642.4 | 633.0 | 621.1 | 605.4 | 587.1 | 564.5 | 538.2 | 511.8 | 481.6 | 447.7 |
| 25° | 671.9 | 670.7 | 655.0 | 638.0 | 622.9 | 603.5 | 581.5 | 555.7 | 530.6 | 498.0 | 466.0 |
| 27.5° | 683.9 | 683.2 | 665.6 | 649.3 | 631.7 | 605.4 | 585.9 | 563.3 | 536.9 | 508.0 | 475.4 |
| 30° | 668.8 | 678.8 | 667.5 | 655.6 | 634.2 | 607.9 | 589.0 | 562.0 | 537.5 | 509.3 | 472.2 |
| 32.5° | 653.1 | 665.6 | 661.9 | 656.2 | 631.1 | 610.4 | 585.9 | 560.8 | 531.9 | 499.2 | 442.7 |
| 35° | 635.5 | 648.7 | 649.3 | 643.0 | 620.4 | 599.7 | 577.1 | 550.7 | 518.1 | 456.5 | 415.1 |
| 37.5° | 619.8 | 632.4 | 636.1 | 622.9 | 605.4 | 577.7 | 557.0 | 529.4 | 470.3 | 428.9 | 407.5 |
| 40° | 607.9 | 617.3 | 622.9 | 602.2 | 584.6 | 557.6 | 533.8 | 485.4 | 432.0 | 417.6 | 387.5 |
| 42.5° | 595.3 | 604.1 | 606.6 | 584.0 | 557.0 | 531.3 | 496.7 | 435.8 | 420.1 | 398.8 | 317.8 |
| 45° | 563.9 | 574.6 | 568.3 | 546.3 | 526.2 | 499.2 | 447.7 | 421.4 | 404.4 | 315.9 | 195.3 |
| 47.5° | 423.2 | 435.2 | 452.1 | 458.4 | 465.3 | 445.9 | 417.6 | 408.2 | 332.2 | 191.5 | 60.9 |
| 50° | 374.3 | 372.4 | 372.4 | 375.5 | 381.2 | 387.5 | 395.6 | 344.1 | 199.7 | 59.7 | 0.0 |
| 52.5° | 152.6 | 160.1 | 197.2 | 230.5 | 268.8 | 307.1 | 319.0 | 211.0 | 77.9 | 1.3 | 0.0 |
| 55° | 18.8 | 18.8 | 26.4 | 45.2 | 74.7 | 120.6 | 135.6 | 67.8 | 5.7 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.6 | 5.0 | 13.8 | 9.4 | 2.5 | 0.6 | 0.6 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 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 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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° | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 |
| 2.5° | 216.0 | 208.5 | 197.8 | 166.4 | 139.4 | 115.5 | 101.7 | 94.8 |
| 5° | 276.3 | 258.1 | 233.6 | 165.8 | 113.0 | 75.4 | 56.5 | 49.6 |
| 7.5° | 334.1 | 313.4 | 271.9 | 163.3 | 86.7 | 44.0 | 24.5 | 19.5 |
| 10° | 359.2 | 344.1 | 307.1 | 159.5 | 62.8 | 20.7 | 20.7 | 21.4 |
| 12.5° | 369.2 | 357.9 | 327.8 | 153.9 | 41.4 | 20.1 | 21.4 | 20.1 |
| 15° | 376.2 | 365.5 | 337.8 | 147.6 | 23.9 | 20.7 | 17.0 | 15.1 |
| 17.5° | 379.9 | 367.4 | 341.0 | 135.6 | 15.7 | 17.6 | 10.7 | 8.8 |
| 20° | 391.9 | 371.8 | 343.5 | 121.8 | 15.1 | 11.9 | 5.7 | 4.4 |
| 22.5° | 411.9 | 380.5 | 344.1 | 104.9 | 11.9 | 6.9 | 1.9 | 0.0 |
| 25° | 430.2 | 392.5 | 346.0 | 82.9 | 3.8 | 1.9 | 0.0 | 0.0 |
| 27.5° | 438.9 | 396.2 | 345.4 | 58.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 428.3 | 386.8 | 339.7 | 36.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 403.2 | 379.9 | 322.1 | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 395.0 | 364.8 | 282.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 376.8 | 321.5 | 207.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 324.0 | 232.3 | 98.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 214.1 | 99.2 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 75.4 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 1.3 | 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 | 0.6 | 0.6 | 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 |
| 65° | 0.0 | 0.0 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 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 | 0.6 | 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 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)