

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: P1320950

Luminaire Tested: LDSQA3D02R45B2750DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320950
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: LDSQA3D02R45B2750DE010 3LSQCA30R 1MMS_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

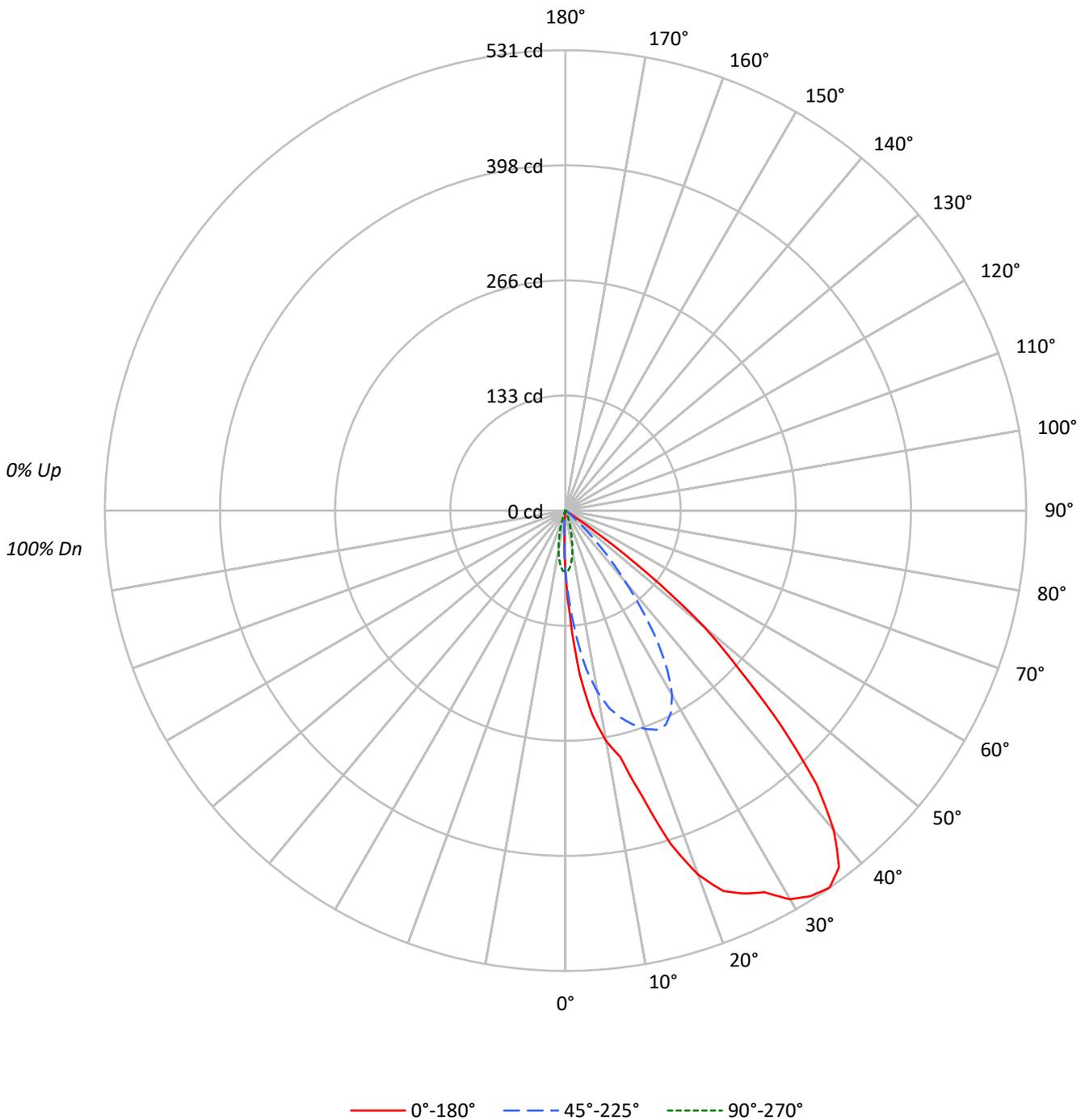
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 225.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
Input Voltage (V): NR
Input Current (A_{in}): 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: P1320950

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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 | 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° | 12038 | 12038 | 12038 | 12038 | 12038 |
| 5° | 32847 | 25275 | 11134 | 2230 | 830 |
| 10° | 47182 | 37092 | 8044 | 210 | 175 |
| 15° | 60746 | 44111 | 4279 | 71 | 0 |
| 20° | 81869 | 49081 | 1631 | 0 | 0 |
| 25° | 92600 | 51858 | 418 | 0 | 0 |
| 30° | 102933 | 48881 | 40 | 0 | 0 |
| 35° | 111598 | 38979 | 0 | 0 | 0 |
| 40° | 108161 | 24483 | 0 | 0 | 0 |
| 45° | 85733 | 11667 | 0 | 0 | 0 |
| 50° | 56105 | 1474 | 0 | 0 | 0 |
| 55° | 9638 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 69 | 0 | 0 |
| 65° | 0 | 82 | 82 | 0 | 0 |
| 70° | 0 | 101 | 201 | 0 | 0 |
| 75° | 0 | 133 | 266 | 0 | 0 |
| 80° | 0 | 198 | 397 | 198 | 0 |
| 85° | 0 | 395 | 790 | 395 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 85733 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 8.3 | 3.7 |
| 10°-20° | 32.1 | 14.2 |
| 20°-30° | 60.0 | 26.7 |
| 30°-40° | 70.0 | 31.1 |
| 40°-50° | 45.7 | 20.3 |
| 50°-60° | 8.5 | 3.8 |
| 60°-70° | 0.1 | 0.0 |
| 70°-80° | 0.2 | 0.1 |
| 80°-90° | 0.2 | 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° | 100.4 | 44.6 |
| 0°-40° | 170.4 | 75.7 |
| 0°-60° | 224.6 | 99.8 |
| 0°-90° | 225.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 225.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 70 | 70 | 70 | 70 | 70 | |
| 5° | 190 | 146 | 64 | 13 | 5 | 20 |
| 15° | 341 | 247 | 24 | 0 | 0 | 102 |
| 25° | 487 | 273 | 2 | 0 | 0 | 225 |
| 35° | 531 | 185 | 0 | 0 | 0 | 326 |
| 45° | 352 | 48 | 0 | 0 | 0 | 268 |
| 55° | 32 | 0 | 0 | 0 | 0 | 56 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 |
| 2.5° | 123.2 | 124.2 | 122.2 | 121.4 | 118.8 | 119.4 | 114.9 | 113.1 | 110.3 | 105.6 | 103.4 |
| 5° | 190.0 | 188.2 | 186.6 | 183.2 | 181.2 | 175.7 | 169.6 | 162.8 | 154.5 | 146.2 | 136.7 |
| 7.5° | 237.7 | 236.3 | 235.7 | 232.9 | 228.8 | 223.2 | 215.3 | 206.6 | 195.9 | 184.8 | 170.5 |
| 10° | 269.8 | 268.4 | 266.0 | 263.2 | 259.9 | 255.3 | 247.6 | 238.1 | 226.4 | 212.1 | 195.3 |
| 12.5° | 290.8 | 290.6 | 286.6 | 283.4 | 279.3 | 275.3 | 267.4 | 259.7 | 248.2 | 233.5 | 214.5 |
| 15° | 340.7 | 337.5 | 332.2 | 323.1 | 311.8 | 301.3 | 288.6 | 276.5 | 264.0 | 247.4 | 226.2 |
| 17.5° | 402.9 | 399.3 | 390.4 | 378.9 | 360.7 | 340.7 | 318.9 | 299.7 | 280.9 | 258.5 | 233.5 |
| 20° | 446.7 | 445.3 | 437.9 | 424.5 | 405.1 | 378.7 | 350.0 | 322.9 | 296.5 | 267.8 | 236.9 |
| 22.5° | 474.8 | 474.0 | 471.0 | 461.9 | 442.1 | 412.4 | 375.4 | 339.1 | 307.2 | 273.7 | 235.9 |
| 25° | 487.3 | 488.3 | 488.7 | 484.3 | 468.4 | 438.1 | 394.2 | 351.4 | 313.2 | 272.9 | 228.2 |
| 27.5° | 496.2 | 496.2 | 497.8 | 495.8 | 479.7 | 447.8 | 401.5 | 355.7 | 311.2 | 263.0 | 212.1 |
| 30° | 517.6 | 517.2 | 518.2 | 512.8 | 490.4 | 450.8 | 398.3 | 348.8 | 299.7 | 245.8 | 188.8 |
| 32.5° | 526.9 | 527.3 | 527.1 | 518.4 | 492.4 | 448.8 | 390.4 | 335.7 | 278.5 | 218.9 | 158.1 |
| 35° | 530.8 | 528.9 | 521.5 | 501.7 | 468.8 | 421.9 | 368.2 | 313.4 | 248.8 | 185.4 | 124.8 |
| 37.5° | 518.0 | 512.8 | 496.2 | 469.2 | 429.0 | 383.9 | 331.4 | 273.7 | 209.4 | 145.4 | 93.9 |
| 40° | 481.1 | 474.2 | 453.4 | 420.7 | 383.9 | 343.3 | 288.0 | 227.0 | 163.8 | 108.9 | 65.8 |
| 42.5° | 428.8 | 420.9 | 398.5 | 370.0 | 336.5 | 293.9 | 238.7 | 177.7 | 120.0 | 75.1 | 41.8 |
| 45° | 352.0 | 347.6 | 334.7 | 310.6 | 277.7 | 233.5 | 183.0 | 129.7 | 83.0 | 47.9 | 21.4 |
| 47.5° | 272.2 | 266.6 | 257.3 | 240.7 | 213.3 | 171.3 | 128.0 | 88.1 | 53.3 | 23.6 | 4.4 |
| 50° | 209.4 | 202.8 | 191.5 | 173.1 | 144.4 | 114.3 | 83.0 | 54.9 | 27.1 | 5.5 | 0.2 |
| 52.5° | 120.6 | 122.0 | 116.5 | 104.8 | 88.9 | 68.5 | 48.1 | 27.7 | 6.1 | 0.2 | 0.0 |
| 55° | 32.1 | 34.7 | 33.9 | 36.6 | 32.1 | 27.1 | 20.0 | 5.3 | 0.4 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.2 | 0.4 | 1.2 | 1.8 | 0.6 | 0.2 | 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 | 0.2 | 0.2 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| 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° | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 |
| 2.5° | 98.4 | 94.1 | 88.9 | 69.5 | 52.3 | 37.6 | 29.3 | 27.1 |
| 5° | 127.6 | 117.3 | 104.0 | 64.4 | 32.3 | 12.9 | 5.9 | 4.8 |
| 7.5° | 155.3 | 140.2 | 116.1 | 56.3 | 16.4 | 3.2 | 1.6 | 1.4 |
| 10° | 176.7 | 156.3 | 125.0 | 46.0 | 6.1 | 1.2 | 1.0 | 1.0 |
| 12.5° | 191.5 | 166.6 | 128.2 | 34.9 | 2.2 | 0.6 | 0.6 | 0.4 |
| 15° | 199.9 | 170.7 | 125.2 | 24.0 | 0.8 | 0.4 | 0.0 | 0.0 |
| 17.5° | 202.6 | 169.0 | 117.1 | 15.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| 20° | 200.3 | 161.2 | 104.4 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 193.1 | 148.8 | 89.1 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 179.5 | 131.5 | 71.1 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 157.5 | 109.1 | 53.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 132.5 | 85.0 | 38.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 103.4 | 62.6 | 24.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 77.8 | 43.8 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 54.1 | 27.7 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 33.7 | 14.9 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 18.8 | 5.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 4.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.2 | 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 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 |
| 70° | 0.2 | 0.2 | 0.2 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 |
| 75° | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.2 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.0 | 0.0 |
| 80° | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.0 | 0.0 |
| 82.5° | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.0 | 0.0 |
| 85° | 0.2 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.0 | 0.0 |
| 87.5° | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)