

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: P1325467

Luminaire Tested: LDSQA3D05R60W2N902750DE010 3LSQCA45R 1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R60W2N902750DE010 3LSQCA45R 1MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 5000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

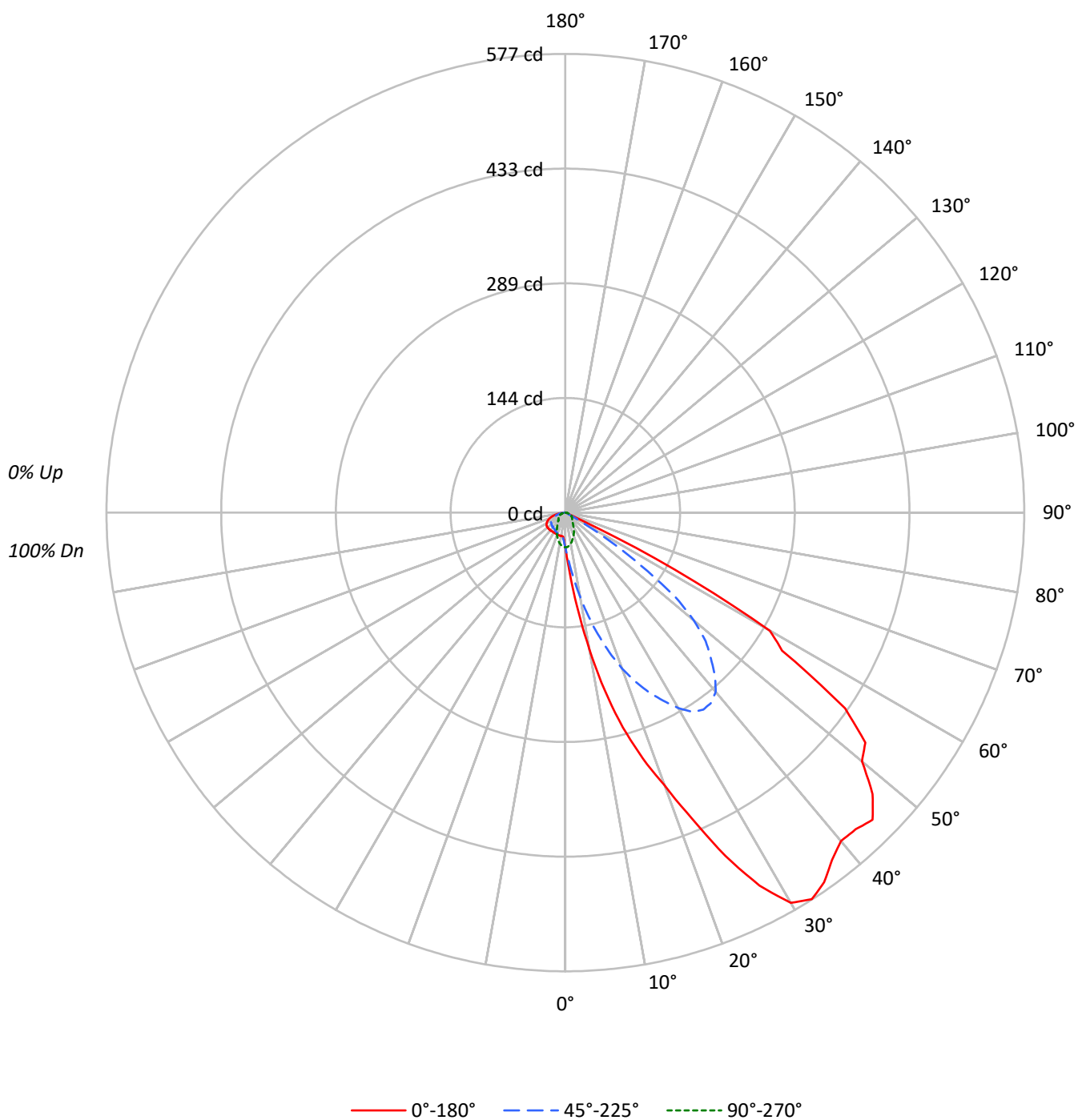
Lumens per Lamp: N/A  
Luminaire Lumens: 439.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1325467

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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   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 22  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 7492   | 7492  | 7492 | 7492 | 7492  |
| 5°  | 14764  | 11514 | 7382 | 5584 | 5307  |
| 10° | 30499  | 18765 | 6908 | 5089 | 5159  |
| 15° | 49870  | 28171 | 6187 | 5117 | 5260  |
| 20° | 66914  | 38176 | 5553 | 5113 | 5333  |
| 25° | 90548  | 47393 | 4846 | 5074 | 5530  |
| 30° | 112697 | 56418 | 4057 | 5071 | 5787  |
| 35° | 119314 | 63599 | 3448 | 5193 | 6034  |
| 40° | 121201 | 66120 | 3147 | 5373 | 6542  |
| 45° | 133057 | 62985 | 3020 | 5724 | 7088  |
| 50° | 130429 | 56453 | 3001 | 6082 | 7797  |
| 55° | 128932 | 34620 | 3003 | 6576 | 8617  |
| 60° | 102266 | 8232  | 3169 | 7027 | 9334  |
| 65° | 6520   | 1467  | 3097 | 7172 | 10066 |
| 70° | 1410   | 1611  | 3021 | 7452 | 10675 |
| 75° | 1331   | 1597  | 2662 | 7187 | 10913 |
| 80° | 1190   | 1587  | 2777 | 7141 | 10315 |
| 85° | 790    | 1581  | 3162 | 6323 | 10275 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 140435 cd/sqm

TEST NUMBER: P1325467

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.4    | 1.2       |
| 10°-20°   | 27.4   | 6.2       |
| 20°-30°   | 63.5   | 14.5      |
| 30°-40°   | 98.7   | 22.5      |
| 40°-50°   | 112.4  | 25.6      |
| 50°-60°   | 94.7   | 21.6      |
| 60°-70°   | 27.5   | 6.3       |
| 70°-80°   | 7.1    | 1.6       |
| 80°-90°   | 2.4    | 0.5       |
| 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°    | 96.3   | 21.9      |
| 0°-40°    | 194.9  | 44.4      |
| 0°-60°    | 402.1  | 91.6      |
| 0°-90°    | 439.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 439.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 44  | 44  | 44  | 44   | 44   |      |
| 5°  | 85  | 67  | 43  | 32   | 31   | 11   |
| 15° | 280 | 158 | 35  | 29   | 30   | 81   |
| 25° | 476 | 249 | 26  | 27   | 29   | 221  |
| 35° | 568 | 302 | 16  | 25   | 29   | 353  |
| 45° | 546 | 259 | 12  | 24   | 29   | 411  |
| 55° | 429 | 115 | 10  | 22   | 29   | 361  |
| 65° | 16  | 4   | 8   | 18   | 25   | 79   |
| 75° | 2   | 2   | 4   | 11   | 16   | 2    |
| 85° | 0   | 1   | 2   | 3    | 5    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 43.5  | 43.5  | 43.5  | 43.5  | 43.5  | 43.5  | 43.5  | 43.5  | 43.5  | 43.5  | 43.5 |
| 2.5°  | 58.7  | 58.3  | 58.3  | 57.9  | 57.5  | 57.1  | 55.9  | 55.5  | 53.1  | 48.3  | 43.5 |
| 5°    | 85.4  | 85.0  | 83.8  | 83.4  | 81.4  | 78.6  | 75.8  | 73.0  | 66.6  | 53.1  | 42.7 |
| 7.5°  | 123.7 | 124.5 | 123.7 | 119.3 | 116.5 | 112.1 | 103.8 | 97.8  | 85.0  | 57.9  | 41.1 |
| 10°   | 174.4 | 174.4 | 173.2 | 166.4 | 160.4 | 152.0 | 141.3 | 130.9 | 107.3 | 62.3  | 39.5 |
| 12.5° | 229.5 | 230.7 | 224.7 | 219.1 | 208.3 | 197.9 | 183.2 | 167.6 | 132.9 | 65.8  | 37.5 |
| 15°   | 279.7 | 278.9 | 273.0 | 265.8 | 254.6 | 240.2 | 224.7 | 204.7 | 158.0 | 68.2  | 34.7 |
| 17.5° | 324.4 | 322.8 | 317.6 | 309.7 | 296.1 | 280.1 | 260.2 | 238.6 | 184.0 | 70.2  | 32.7 |
| 20°   | 365.1 | 359.6 | 353.6 | 345.2 | 332.0 | 315.3 | 294.5 | 270.2 | 208.3 | 70.2  | 30.3 |
| 22.5° | 416.6 | 411.0 | 402.6 | 389.9 | 372.3 | 351.6 | 327.2 | 299.7 | 229.9 | 68.6  | 27.9 |
| 25°   | 476.5 | 472.1 | 457.7 | 441.4 | 418.6 | 393.9 | 365.5 | 328.4 | 249.4 | 66.2  | 25.5 |
| 27.5° | 528.8 | 524.0 | 509.6 | 485.7 | 458.1 | 428.6 | 398.7 | 360.7 | 266.6 | 61.9  | 22.7 |
| 30°   | 566.7 | 560.7 | 549.5 | 526.8 | 493.2 | 457.3 | 421.8 | 385.5 | 283.7 | 56.7  | 20.4 |
| 32.5° | 576.6 | 575.8 | 567.5 | 550.7 | 520.8 | 481.3 | 439.0 | 399.5 | 297.3 | 49.9  | 18.4 |
| 35°   | 567.5 | 568.7 | 567.1 | 558.7 | 536.7 | 498.0 | 450.1 | 407.0 | 302.5 | 43.1  | 16.4 |
| 37.5° | 550.7 | 552.3 | 555.1 | 556.3 | 542.3 | 508.0 | 456.5 | 410.2 | 301.3 | 36.3  | 15.2 |
| 40°   | 539.1 | 538.3 | 538.3 | 546.3 | 543.5 | 512.4 | 457.3 | 407.8 | 294.1 | 29.1  | 14.0 |
| 42.5° | 540.3 | 531.5 | 525.6 | 538.3 | 542.3 | 510.4 | 452.1 | 401.5 | 278.5 | 22.3  | 12.8 |
| 45°   | 546.3 | 527.6 | 517.2 | 533.5 | 539.9 | 503.6 | 442.6 | 391.9 | 258.6 | 15.6  | 12.4 |
| 47.5° | 524.0 | 511.6 | 510.0 | 533.1 | 535.5 | 492.0 | 427.8 | 376.7 | 239.4 | 10.8  | 11.6 |
| 50°   | 486.8 | 484.9 | 493.2 | 517.2 | 517.6 | 472.9 | 411.0 | 349.2 | 210.7 | 7.6   | 11.2 |
| 52.5° | 475.3 | 476.5 | 484.1 | 496.4 | 484.9 | 440.6 | 380.7 | 326.0 | 174.4 | 6.0   | 10.8 |
| 55°   | 429.4 | 431.4 | 438.6 | 446.1 | 437.8 | 401.1 | 344.0 | 298.1 | 115.3 | 5.6   | 10.0 |
| 57.5° | 323.2 | 328.4 | 341.6 | 348.4 | 349.2 | 326.8 | 311.7 | 257.0 | 65.0  | 5.6   | 9.6  |
| 60°   | 296.9 | 290.1 | 284.1 | 270.2 | 257.4 | 254.6 | 256.2 | 192.7 | 23.9  | 5.2   | 9.2  |
| 62.5° | 155.2 | 152.0 | 161.2 | 167.2 | 168.8 | 177.6 | 166.0 | 101.8 | 5.2   | 5.2   | 8.4  |
| 65°   | 16.0  | 16.0  | 19.6  | 25.9  | 43.1  | 57.5  | 54.7  | 29.5  | 3.6   | 4.8   | 7.6  |
| 67.5° | 4.8   | 4.8   | 4.8   | 5.6   | 7.2   | 7.2   | 6.0   | 4.4   | 3.6   | 4.4   | 6.8  |
| 70°   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 3.2   | 2.8   | 3.2   | 4.0   | 6.0  |
| 72.5° | 2.4   | 2.4   | 2.4   | 2.4   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 3.6   | 5.2  |
| 75°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.4   | 2.4   | 2.8   | 4.0  |
| 77.5° | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.0   | 2.0   | 2.0   | 2.4   | 3.2  |
| 80°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.6   | 1.6   | 1.6   | 1.6   | 2.0   | 2.8  |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.6   | 2.0  |
| 85°   | 0.4   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.2   | 1.6  |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   | 0.8   | 1.2  |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 43.5   | 43.5 | 43.5   | 43.5 |
| 2.5°  | 39.5   | 36.7 | 35.1   | 34.3 |
| 5°    | 35.9   | 32.3 | 31.1   | 30.7 |
| 7.5°  | 32.7   | 30.3 | 29.9   | 29.9 |
| 10°   | 30.7   | 29.1 | 29.5   | 29.5 |
| 12.5° | 29.5   | 29.1 | 29.5   | 29.9 |
| 15°   | 28.3   | 28.7 | 29.5   | 29.5 |
| 17.5° | 27.5   | 28.3 | 29.1   | 29.5 |
| 20°   | 26.3   | 27.9 | 29.1   | 29.1 |
| 22.5° | 25.5   | 27.5 | 28.7   | 29.1 |
| 25°   | 24.7   | 26.7 | 28.3   | 29.1 |
| 27.5° | 23.5   | 26.3 | 28.3   | 28.7 |
| 30°   | 22.3   | 25.5 | 27.9   | 29.1 |
| 32.5° | 21.2   | 25.1 | 27.9   | 28.7 |
| 35°   | 20.4   | 24.7 | 27.9   | 28.7 |
| 37.5° | 19.6   | 24.3 | 27.9   | 29.1 |
| 40°   | 19.2   | 23.9 | 27.5   | 29.1 |
| 42.5° | 18.4   | 23.9 | 27.5   | 29.1 |
| 45°   | 18.0   | 23.5 | 27.5   | 29.1 |
| 47.5° | 17.6   | 23.1 | 27.5   | 29.1 |
| 50°   | 16.8   | 22.7 | 27.1   | 29.1 |
| 52.5° | 16.4   | 22.3 | 27.1   | 29.1 |
| 55°   | 15.6   | 21.9 | 26.7   | 28.7 |
| 57.5° | 15.2   | 21.2 | 26.3   | 27.9 |
| 60°   | 14.4   | 20.4 | 25.5   | 27.1 |
| 62.5° | 13.2   | 19.2 | 24.3   | 26.3 |
| 65°   | 12.0   | 17.6 | 23.1   | 24.7 |
| 67.5° | 10.8   | 16.4 | 21.5   | 23.1 |
| 70°   | 9.6    | 14.8 | 19.6   | 21.2 |
| 72.5° | 8.4    | 12.8 | 17.6   | 18.8 |
| 75°   | 7.2    | 10.8 | 14.8   | 16.4 |
| 77.5° | 5.6    | 8.8  | 12.4   | 13.6 |
| 80°   | 4.4    | 7.2  | 9.6    | 10.4 |
| 82.5° | 3.6    | 5.2  | 7.2    | 7.6  |
| 85°   | 2.4    | 3.2  | 4.4    | 5.2  |
| 87.5° | 1.2    | 1.6  | 2.0    | 2.4  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)