

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: P1325557

Luminaire Tested: LDSQA3D05R65W2N902765DE010 3LSQCA30R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R65W2N902765DE010 3LSQCA30R 1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R65 optic, 2700K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

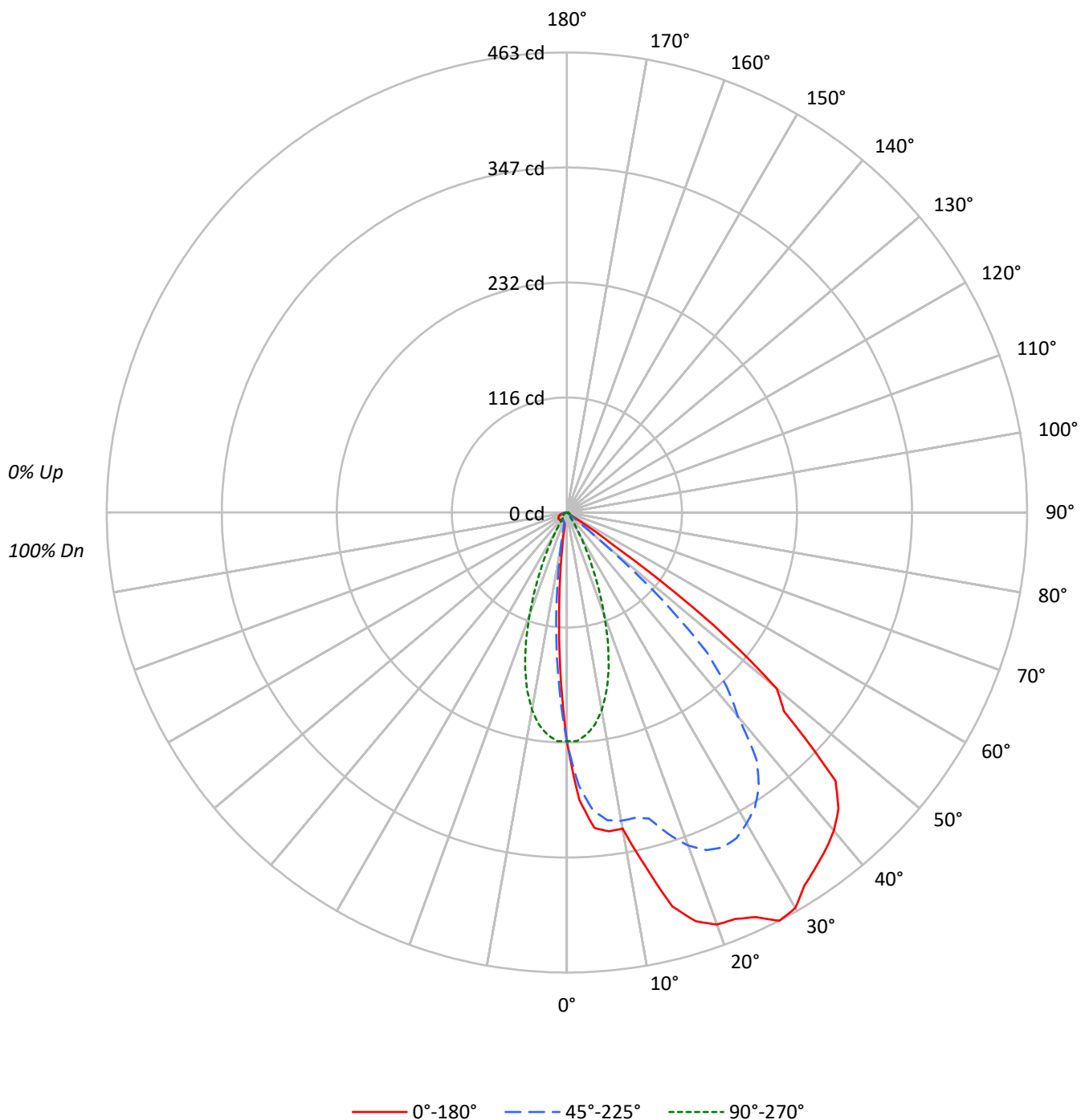
Lumens per Lamp: N/A  
Luminaire Lumens: 345.0 lumens  
Efficiency: N/A  
Efficacy: 58.5 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1325557

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### Luminous Intensity Polar Plot



TEST NUMBER: P1325557

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 90  | 90  |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 88  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 81  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 72  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  | 53  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  | 43  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 40  | 40  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  | 36  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 39646 | 39646 | 39646 | 39646 | 39646 |
| 5°  | 55097 | 52002 | 38794 | 21316 | 15006 |
| 10° | 56486 | 55105 | 35291 | 5963  | 2186  |
| 15° | 73191 | 56824 | 28902 | 1926  | 1854  |
| 20° | 80879 | 65374 | 20105 | 1704  | 1778  |
| 25° | 85360 | 70652 | 11383 | 1634  | 1767  |
| 30° | 91399 | 71870 | 5131  | 1631  | 1849  |
| 35° | 91730 | 70789 | 1661  | 1724  | 2039  |
| 40° | 93975 | 60140 | 1124  | 1844  | 2248  |
| 45° | 93088 | 48468 | 1145  | 1997  | 2436  |
| 50° | 73869 | 11441 | 1152  | 2197  | 2786  |
| 55° | 17535 | 661   | 1171  | 2462  | 3123  |
| 60° | 620   | 758   | 1343  | 2583  | 3341  |
| 65° | 734   | 734   | 1304  | 2771  | 3668  |
| 70° | 554   | 705   | 1259  | 2719  | 3777  |
| 75° | 466   | 732   | 1198  | 2861  | 3793  |
| 80° | 397   | 694   | 1389  | 2876  | 3868  |
| 85° | 790   | 1383  | 1383  | 2766  | 3557  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 45°

Luminance: 93259 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.2   | 5.6       |
| 10°-20°   | 50.6   | 14.7      |
| 20°-30°   | 79.5   | 23.0      |
| 30°-40°   | 90.9   | 26.3      |
| 40°-50°   | 73.1   | 21.2      |
| 50°-60°   | 23.8   | 6.9       |
| 60°-70°   | 4.2    | 1.2       |
| 70°-80°   | 2.8    | 0.8       |
| 80°-90°   | 1.0    | 0.3       |
| 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°    | 149.3  | 43.3      |
| 0°-40°    | 240.2  | 69.6      |
| 0°-60°    | 337.0  | 97.7      |
| 0°-90°    | 345.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 345.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 230 | 230 | 230 | 230  | 230  |      |
| 5°  | 319 | 301 | 224 | 123  | 87   | 30   |
| 15° | 410 | 319 | 162 | 11   | 10   | 114  |
| 25° | 449 | 372 | 60  | 9    | 9    | 209  |
| 35° | 436 | 337 | 8   | 8    | 10   | 274  |
| 45° | 382 | 199 | 5   | 8    | 10   | 275  |
| 55° | 58  | 2   | 4   | 8    | 10   | 84   |
| 65° | 2   | 2   | 3   | 7    | 9    | 2    |
| 75° | 1   | 1   | 2   | 4    | 6    | 1    |
| 85° | 0   | 1   | 1   | 1    | 2    | 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°    | 230.2 | 230.2 | 230.2 | 230.2 | 230.2 | 230.2 | 230.2 | 230.2 | 230.2 | 230.2 | 230.2 |
| 2.5°  | 289.7 | 288.6 | 290.0 | 287.5 | 287.2 | 284.7 | 283.2 | 282.5 | 279.3 | 275.0 | 271.0 |
| 5°    | 318.7 | 314.4 | 315.5 | 315.1 | 313.4 | 312.3 | 310.8 | 309.0 | 304.7 | 300.8 | 295.8 |
| 7.5°  | 323.7 | 320.2 | 320.9 | 321.2 | 320.2 | 319.8 | 319.4 | 318.7 | 315.9 | 312.3 | 308.0 |
| 10°   | 323.0 | 319.4 | 319.1 | 318.0 | 316.9 | 317.3 | 317.3 | 317.3 | 316.6 | 315.1 | 313.7 |
| 12.5° | 364.6 | 359.6 | 358.5 | 351.0 | 344.2 | 332.4 | 324.8 | 317.7 | 314.4 | 314.8 | 313.7 |
| 15°   | 410.5 | 410.2 | 406.6 | 399.4 | 387.9 | 377.2 | 360.0 | 347.1 | 330.6 | 318.7 | 313.7 |
| 17.5° | 431.3 | 430.9 | 427.7 | 421.6 | 413.4 | 403.3 | 390.8 | 375.7 | 357.4 | 339.2 | 324.1 |
| 20°   | 441.3 | 443.9 | 440.3 | 435.2 | 427.4 | 418.0 | 406.2 | 392.6 | 375.4 | 356.7 | 338.8 |
| 22.5° | 442.8 | 446.0 | 442.8 | 439.2 | 433.5 | 427.4 | 417.3 | 403.3 | 385.8 | 367.8 | 350.3 |
| 25°   | 449.2 | 450.3 | 443.5 | 438.8 | 433.5 | 429.2 | 421.3 | 409.1 | 391.2 | 371.8 | 354.6 |
| 27.5° | 463.2 | 458.6 | 444.2 | 437.8 | 432.7 | 428.8 | 421.3 | 408.7 | 389.4 | 369.6 | 351.7 |
| 30°   | 459.6 | 457.8 | 445.3 | 439.2 | 434.9 | 430.9 | 421.6 | 405.5 | 382.2 | 361.4 | 342.7 |
| 32.5° | 444.9 | 448.5 | 444.2 | 442.1 | 439.9 | 434.9 | 421.3 | 399.4 | 373.2 | 352.1 | 327.0 |
| 35°   | 436.3 | 440.6 | 441.0 | 441.0 | 438.5 | 430.9 | 414.8 | 390.4 | 364.3 | 336.7 | 303.0 |
| 37.5° | 427.7 | 431.3 | 433.5 | 434.9 | 431.3 | 420.5 | 400.1 | 378.2 | 349.6 | 313.4 | 254.2 |
| 40°   | 418.0 | 420.5 | 422.3 | 423.1 | 417.7 | 403.7 | 385.1 | 360.3 | 328.1 | 267.5 | 226.9 |
| 42.5° | 404.4 | 405.9 | 405.5 | 405.1 | 399.4 | 384.0 | 366.4 | 340.6 | 276.8 | 238.4 | 189.3 |
| 45°   | 382.2 | 380.8 | 382.9 | 382.9 | 375.4 | 363.9 | 340.6 | 290.4 | 247.7 | 199.0 | 121.9 |
| 47.5° | 296.1 | 297.2 | 307.6 | 324.5 | 334.9 | 331.6 | 300.1 | 254.2 | 208.3 | 130.5 | 40.5  |
| 50°   | 275.7 | 274.6 | 275.0 | 276.8 | 277.9 | 268.9 | 246.3 | 214.8 | 137.7 | 42.7  | 2.9   |
| 52.5° | 185.0 | 186.1 | 194.3 | 213.3 | 219.4 | 213.0 | 191.5 | 143.4 | 50.2  | 2.9   | 2.5   |
| 55°   | 58.4  | 62.4  | 67.0  | 77.1  | 94.7  | 105.8 | 103.6 | 50.9  | 3.2   | 2.2   | 2.5   |
| 57.5° | 2.2   | 2.2   | 2.9   | 5.0   | 9.7   | 15.8  | 16.5  | 3.2   | 2.5   | 2.5   | 2.5   |
| 60°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   |
| 62.5° | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.2   | 2.2   | 2.2   | 2.2   |
| 65°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.2   |
| 67.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.8   | 1.8   | 1.8   | 1.8   |
| 70°   | 1.1   | 1.1   | 1.1   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.8   |
| 72.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.4   | 1.4   | 1.4   |
| 75°   | 0.7   | 0.7   | 0.7   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 77.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.1   | 1.1   | 1.1   |
| 80°   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.1   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 0.7   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 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°    | 230.2 | 230.2 | 230.2 | 230.2 | 230.2  | 230.2 | 230.2  | 230.2 |
| 2.5°  | 268.9 | 264.6 | 256.0 | 230.2 | 203.3  | 176.4 | 159.5  | 155.2 |
| 5°    | 290.0 | 285.0 | 272.8 | 224.4 | 169.9  | 123.3 | 96.8   | 86.8  |
| 7.5°  | 303.0 | 296.9 | 282.5 | 215.5 | 132.3  | 71.7  | 43.0   | 34.4  |
| 10°   | 308.7 | 303.3 | 287.2 | 201.8 | 95.7   | 34.1  | 15.1   | 12.5  |
| 12.5° | 311.2 | 306.9 | 289.0 | 183.9 | 62.4   | 15.1  | 11.1   | 10.8  |
| 15°   | 312.3 | 307.6 | 288.3 | 162.1 | 35.5   | 10.8  | 10.4   | 10.4  |
| 17.5° | 313.4 | 308.0 | 284.0 | 137.0 | 19.7   | 10.0  | 9.7    | 10.0  |
| 20°   | 322.0 | 306.5 | 276.4 | 109.7 | 12.9   | 9.3   | 9.3    | 9.7   |
| 22.5° | 330.6 | 306.2 | 263.2 | 83.9  | 10.0   | 9.0   | 9.3    | 9.3   |
| 25°   | 333.4 | 302.6 | 246.3 | 59.9  | 8.6    | 8.6   | 9.0    | 9.3   |
| 27.5° | 328.1 | 292.2 | 223.7 | 40.5  | 7.5    | 8.6   | 9.0    | 9.3   |
| 30°   | 315.5 | 274.6 | 196.5 | 25.8  | 7.2    | 8.2   | 9.0    | 9.3   |
| 32.5° | 292.2 | 239.9 | 166.0 | 15.4  | 6.8    | 8.2   | 9.3    | 9.3   |
| 35°   | 245.6 | 201.1 | 131.6 | 7.9   | 6.8    | 8.2   | 9.3    | 9.7   |
| 37.5° | 214.8 | 167.8 | 91.8  | 5.4   | 6.8    | 8.2   | 9.3    | 9.7   |
| 40°   | 178.2 | 121.2 | 38.4  | 5.0   | 6.8    | 8.2   | 9.3    | 10.0  |
| 42.5° | 123.3 | 52.7  | 6.1   | 4.7   | 6.5    | 8.2   | 9.7    | 10.0  |
| 45°   | 44.5  | 6.8   | 2.9   | 4.7   | 6.5    | 8.2   | 9.7    | 10.0  |
| 47.5° | 3.9   | 2.5   | 2.9   | 4.7   | 6.5    | 8.2   | 9.7    | 10.4  |
| 50°   | 2.5   | 2.5   | 2.5   | 4.3   | 6.5    | 8.2   | 9.7    | 10.4  |
| 52.5° | 2.5   | 2.5   | 2.5   | 4.3   | 6.1    | 8.2   | 10.0   | 10.4  |
| 55°   | 2.5   | 2.5   | 2.5   | 3.9   | 6.1    | 8.2   | 9.7    | 10.4  |
| 57.5° | 2.5   | 2.5   | 2.9   | 3.9   | 6.1    | 7.9   | 9.7    | 10.0  |
| 60°   | 2.5   | 2.5   | 2.5   | 3.9   | 5.7    | 7.5   | 9.3    | 9.7   |
| 62.5° | 2.2   | 2.5   | 2.5   | 3.6   | 5.4    | 7.2   | 9.0    | 9.3   |
| 65°   | 2.2   | 2.2   | 2.5   | 3.2   | 5.0    | 6.8   | 8.2    | 9.0   |
| 67.5° | 1.8   | 2.2   | 2.2   | 2.9   | 4.3    | 6.1   | 7.5    | 8.2   |
| 70°   | 1.8   | 1.8   | 1.8   | 2.5   | 3.9    | 5.4   | 7.2    | 7.5   |
| 72.5° | 1.4   | 1.8   | 1.8   | 2.2   | 3.2    | 4.7   | 6.1    | 6.8   |
| 75°   | 1.4   | 1.4   | 1.4   | 1.8   | 2.9    | 4.3   | 5.4    | 5.7   |
| 77.5° | 1.1   | 1.1   | 1.4   | 1.4   | 2.5    | 3.2   | 4.7    | 5.0   |
| 80°   | 1.1   | 1.1   | 1.1   | 1.4   | 1.8    | 2.9   | 3.6    | 3.9   |
| 82.5° | 0.7   | 0.7   | 0.7   | 1.1   | 1.4    | 1.8   | 2.5    | 2.9   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 1.1    | 1.4   | 1.8    | 1.8   |
| 87.5° | 0.4   | 0.4   | 0.4   | 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   |

(END OF REPORT)