

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: P1312134

Luminaire Tested: LDSQA3D02R509050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R509050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

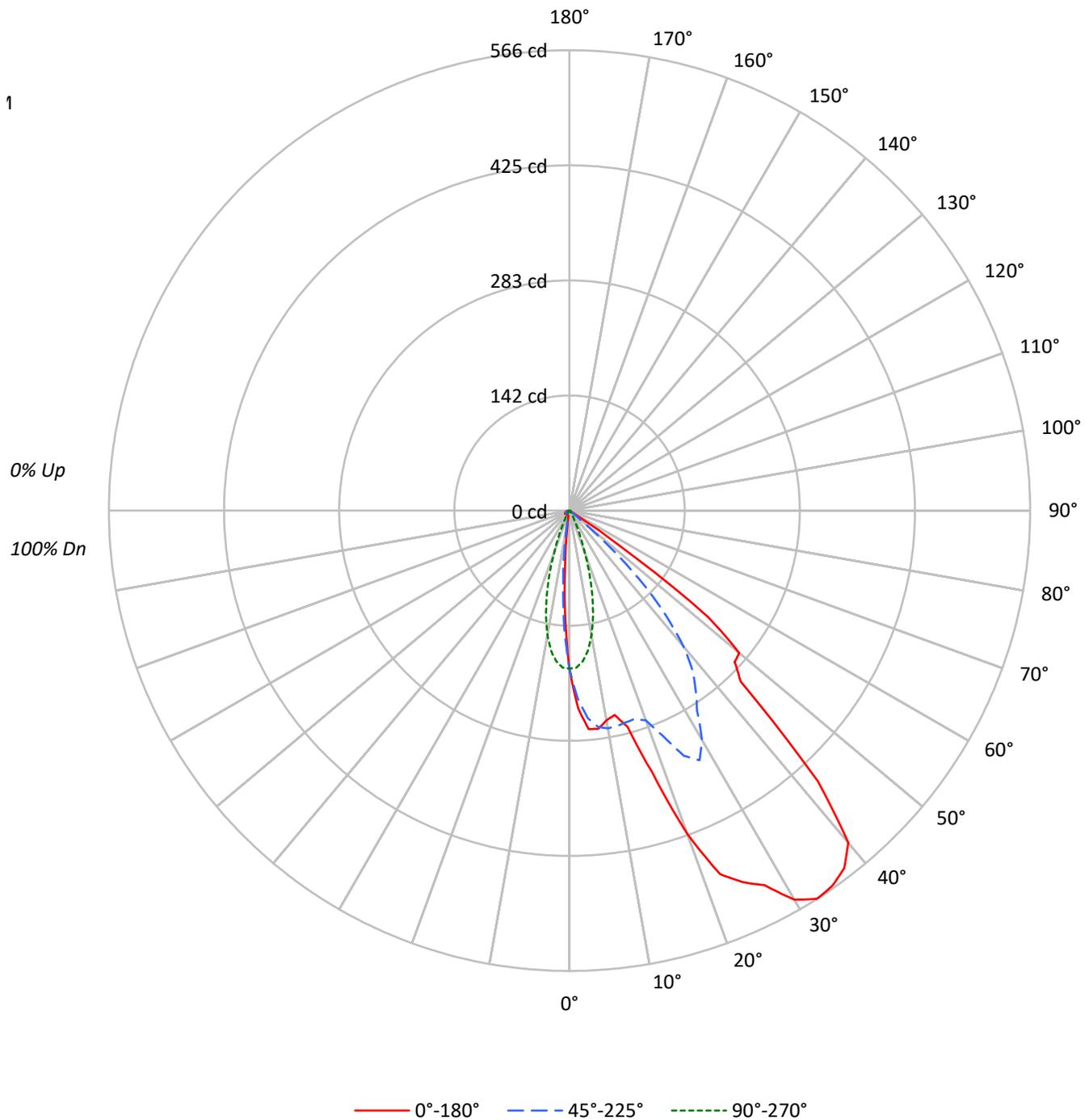
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 302.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 50  | 30  | 10  | 0   |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |   |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 95  | 94  | 93  | 91  |   |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 88  | 85  | 83  | 81  |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 81  | 77  | 74  | 73  |   |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 68  | 74  | 70  | 67  | 74  | 70  | 67  | 65  |   |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 68  | 64  | 60  | 58  |   |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 63  | 58  | 54  | 52  |   |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 58  | 53  | 49  | 47  |   |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 49  | 45  | 43  |   |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 50  | 45  | 41  | 39  |   |
| 10  | 61  | 50  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 37  | 46  | 41  | 37  | 46  | 41  | 37  | 36  |   |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 33446  | 33446 | 33446 | 33446 | 33446 |
| 5°  | 46626  | 44240 | 32138 | 15456 | 10027 |
| 10° | 45766  | 47532 | 27159 | 3253  | 1399  |
| 15° | 49085  | 48033 | 19203 | 1141  | 1088  |
| 20° | 77507  | 50309 | 10135 | 971   | 1026  |
| 25° | 95773  | 63184 | 4048  | 912   | 1007  |
| 30° | 109814 | 64790 | 1631  | 895   | 1054  |
| 35° | 118389 | 56871 | 736   | 946   | 1177  |
| 40° | 119829 | 48966 | 540   | 1079  | 1326  |
| 45° | 72435  | 31736 | 511   | 1169  | 1486  |
| 50° | 72984  | 5493  | 563   | 1366  | 1715  |
| 55° | 21559  | 330   | 631   | 1531  | 1922  |
| 60° | 379    | 379   | 654   | 1653  | 2101  |
| 65° | 326    | 326   | 652   | 1752  | 2282  |
| 70° | 403    | 403   | 655   | 1863  | 2568  |
| 75° | 333    | 333   | 732   | 1930  | 2662  |
| 80° | 298    | 496   | 793   | 1884  | 2876  |
| 85° | 593    | 988   | 988   | 2174  | 2569  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 82713 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.7   | 5.2       |
| 10°-20°   | 39.0   | 12.9      |
| 20°-30°   | 73.0   | 24.2      |
| 30°-40°   | 87.3   | 28.9      |
| 40°-50°   | 62.6   | 20.7      |
| 50°-60°   | 19.3   | 6.4       |
| 60°-70°   | 2.5    | 0.8       |
| 70°-80°   | 1.8    | 0.6       |
| 80°-90°   | 0.7    | 0.2       |
| 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°    | 127.7  | 42.3      |
| 0°-40°    | 215.0  | 71.2      |
| 0°-60°    | 296.9  | 98.3      |
| 0°-90°    | 302.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 302.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 194 | 194 | 194 | 194  | 194  |      |
| 5°  | 270 | 256 | 186 | 89   | 58   | 25   |
| 15° | 275 | 269 | 108 | 6    | 6    | 88   |
| 25° | 504 | 332 | 21  | 5    | 5    | 232  |
| 35° | 563 | 270 | 4   | 4    | 6    | 349  |
| 45° | 297 | 130 | 2   | 5    | 6    | 273  |
| 55° | 72  | 1   | 2   | 5    | 6    | 92   |
| 65° | 1   | 1   | 2   | 4    | 6    | 1    |
| 75° | 0   | 0   | 1   | 3    | 4    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 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°    | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 |
| 2.5°  | 242.8 | 243.4 | 244.2 | 242.0 | 240.7 | 239.6 | 237.8 | 237.2 | 232.7 | 230.9 | 229.0 |
| 5°    | 269.7 | 269.2 | 269.7 | 268.9 | 268.4 | 266.8 | 265.2 | 262.5 | 259.6 | 255.9 | 251.6 |
| 7.5°  | 270.5 | 270.0 | 271.0 | 271.0 | 272.1 | 272.1 | 272.1 | 272.4 | 270.8 | 268.1 | 264.4 |
| 10°   | 261.7 | 261.7 | 262.8 | 262.2 | 264.1 | 264.9 | 266.8 | 270.0 | 271.6 | 271.8 | 270.8 |
| 12.5° | 257.2 | 257.2 | 257.5 | 256.4 | 256.9 | 257.7 | 259.9 | 263.6 | 267.3 | 271.0 | 273.2 |
| 15°   | 275.3 | 275.8 | 272.1 | 266.8 | 262.8 | 258.5 | 257.2 | 259.6 | 263.6 | 269.4 | 274.2 |
| 17.5° | 336.7 | 337.5 | 333.5 | 320.8 | 308.5 | 291.0 | 275.3 | 267.6 | 263.3 | 268.1 | 274.5 |
| 20°   | 422.9 | 420.0 | 413.1 | 399.5 | 381.7 | 354.5 | 330.1 | 305.3 | 281.7 | 274.5 | 276.6 |
| 22.5° | 483.8 | 482.7 | 477.2 | 462.0 | 446.6 | 421.3 | 390.2 | 355.6 | 321.3 | 299.5 | 288.0 |
| 25°   | 504.0 | 503.2 | 498.2 | 489.1 | 480.6 | 461.5 | 433.5 | 398.7 | 362.8 | 332.5 | 303.7 |
| 27.5° | 519.2 | 518.1 | 510.1 | 500.0 | 491.3 | 471.8 | 446.3 | 420.0 | 387.0 | 346.0 | 301.9 |
| 30°   | 552.2 | 549.2 | 538.1 | 520.0 | 503.2 | 476.4 | 448.2 | 415.4 | 370.8 | 325.8 | 282.7 |
| 32.5° | 566.0 | 564.4 | 554.8 | 540.2 | 521.8 | 486.7 | 443.9 | 389.1 | 330.3 | 291.5 | 260.1 |
| 35°   | 563.1 | 560.7 | 550.8 | 534.1 | 511.7 | 478.0 | 420.8 | 345.5 | 297.6 | 270.5 | 235.1 |
| 37.5° | 554.3 | 550.8 | 539.1 | 519.4 | 492.3 | 448.2 | 373.4 | 310.1 | 279.3 | 248.7 | 201.1 |
| 40°   | 533.0 | 527.4 | 513.9 | 493.4 | 466.3 | 408.3 | 330.3 | 288.8 | 260.1 | 217.8 | 163.0 |
| 42.5° | 451.6 | 448.7 | 455.3 | 451.9 | 428.0 | 359.6 | 299.8 | 269.4 | 229.8 | 176.1 | 118.1 |
| 45°   | 297.4 | 302.4 | 314.4 | 334.9 | 339.6 | 309.3 | 274.8 | 237.5 | 189.1 | 130.3 | 68.1  |
| 47.5° | 275.3 | 274.2 | 277.1 | 281.1 | 281.9 | 269.2 | 237.8 | 196.3 | 140.4 | 74.5  | 18.9  |
| 50°   | 272.4 | 270.8 | 268.4 | 263.6 | 253.5 | 228.7 | 193.1 | 143.1 | 81.1  | 20.5  | 1.3   |
| 52.5° | 215.2 | 213.6 | 213.6 | 206.7 | 193.6 | 169.7 | 133.3 | 78.7  | 22.6  | 1.3   | 1.1   |
| 55°   | 71.8  | 76.6  | 75.8  | 75.5  | 81.4  | 75.0  | 57.5  | 20.2  | 1.9   | 1.1   | 1.1   |
| 57.5° | 1.3   | 1.3   | 1.3   | 2.4   | 3.7   | 5.3   | 3.2   | 1.6   | 1.1   | 1.1   | 1.1   |
| 60°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 62.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 65°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.1   |
| 67.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 70°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 72.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.8   | 0.8   | 0.8   |
| 75°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.8   |
| 77.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 80°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5   | 0.5   |
| 82.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5   |
| 85°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 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°    | 194.2 | 194.2 | 194.2 | 194.2 | 194.2  | 194.2 | 194.2  | 194.2 |
| 2.5°  | 224.7 | 221.0 | 213.8 | 193.4 | 170.8  | 145.0 | 127.4  | 125.3 |
| 5°    | 245.0 | 239.4 | 227.7 | 185.9 | 134.3  | 89.4  | 66.5   | 58.0  |
| 7.5°  | 258.3 | 250.8 | 236.4 | 173.7 | 97.9   | 47.1  | 25.3   | 20.2  |
| 10°   | 266.2 | 259.3 | 241.0 | 155.3 | 62.2   | 18.6  | 8.5    | 8.0   |
| 12.5° | 270.5 | 263.8 | 242.6 | 133.3 | 35.1   | 8.5   | 6.6    | 6.6   |
| 15°   | 273.4 | 266.2 | 240.2 | 107.7 | 17.6   | 6.4   | 6.1    | 6.1   |
| 17.5° | 274.8 | 266.0 | 233.3 | 81.1  | 9.3    | 5.9   | 5.9    | 5.9   |
| 20°   | 275.5 | 263.0 | 220.5 | 55.3  | 6.4    | 5.3   | 5.6    | 5.6   |
| 22.5° | 276.3 | 255.9 | 203.7 | 35.1  | 5.1    | 5.1   | 5.3    | 5.3   |
| 25°   | 274.8 | 243.4 | 180.1 | 21.3  | 4.5    | 4.8   | 5.1    | 5.3   |
| 27.5° | 263.3 | 224.5 | 151.3 | 13.0  | 4.0    | 4.5   | 5.1    | 5.3   |
| 30°   | 243.6 | 196.8 | 118.1 | 8.2   | 3.7    | 4.5   | 5.1    | 5.3   |
| 32.5° | 218.1 | 165.2 | 84.3  | 5.1   | 3.7    | 4.5   | 5.1    | 5.3   |
| 35°   | 183.8 | 126.3 | 54.8  | 3.5   | 3.7    | 4.5   | 5.3    | 5.6   |
| 37.5° | 145.2 | 88.3  | 29.5  | 2.7   | 3.7    | 4.5   | 5.3    | 5.6   |
| 40°   | 104.5 | 52.9  | 10.6  | 2.4   | 3.5    | 4.8   | 5.6    | 5.9   |
| 42.5° | 61.2  | 19.7  | 1.9   | 2.1   | 3.5    | 4.8   | 5.6    | 5.9   |
| 45°   | 17.6  | 2.1   | 1.1   | 2.1   | 3.5    | 4.8   | 5.9    | 6.1   |
| 47.5° | 1.3   | 0.8   | 1.1   | 2.1   | 3.5    | 4.8   | 5.9    | 6.4   |
| 50°   | 0.8   | 0.8   | 0.8   | 2.1   | 3.5    | 5.1   | 6.1    | 6.4   |
| 52.5° | 1.1   | 1.1   | 1.1   | 2.1   | 3.5    | 5.1   | 6.1    | 6.4   |
| 55°   | 1.1   | 1.1   | 1.1   | 2.1   | 3.5    | 5.1   | 6.1    | 6.4   |
| 57.5° | 1.1   | 1.1   | 1.1   | 2.1   | 3.5    | 4.8   | 6.1    | 6.4   |
| 60°   | 1.1   | 1.1   | 1.1   | 1.9   | 3.2    | 4.8   | 5.9    | 6.1   |
| 62.5° | 1.1   | 1.1   | 1.1   | 1.9   | 3.2    | 4.5   | 5.9    | 5.9   |
| 65°   | 1.1   | 1.1   | 1.1   | 1.6   | 2.9    | 4.3   | 5.3    | 5.6   |
| 67.5° | 1.1   | 1.1   | 1.1   | 1.6   | 2.7    | 4.0   | 5.1    | 5.3   |
| 70°   | 0.8   | 1.1   | 1.1   | 1.3   | 2.4    | 3.7   | 4.8    | 5.1   |
| 72.5° | 0.8   | 0.8   | 1.1   | 1.3   | 2.1    | 3.2   | 4.3    | 4.5   |
| 75°   | 0.8   | 0.8   | 0.8   | 1.1   | 1.9    | 2.9   | 3.7    | 4.0   |
| 77.5° | 0.8   | 0.8   | 0.8   | 1.1   | 1.6    | 2.4   | 3.5    | 3.5   |
| 80°   | 0.5   | 0.8   | 0.8   | 0.8   | 1.3    | 1.9   | 2.7    | 2.9   |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.8   | 1.1    | 1.6   | 2.1    | 2.1   |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.8    | 1.1   | 1.3    | 1.3   |
| 87.5° | 0.3   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5   | 0.5    | 0.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)