

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: P1306740

Luminaire Tested: LDSQA3D02R709024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

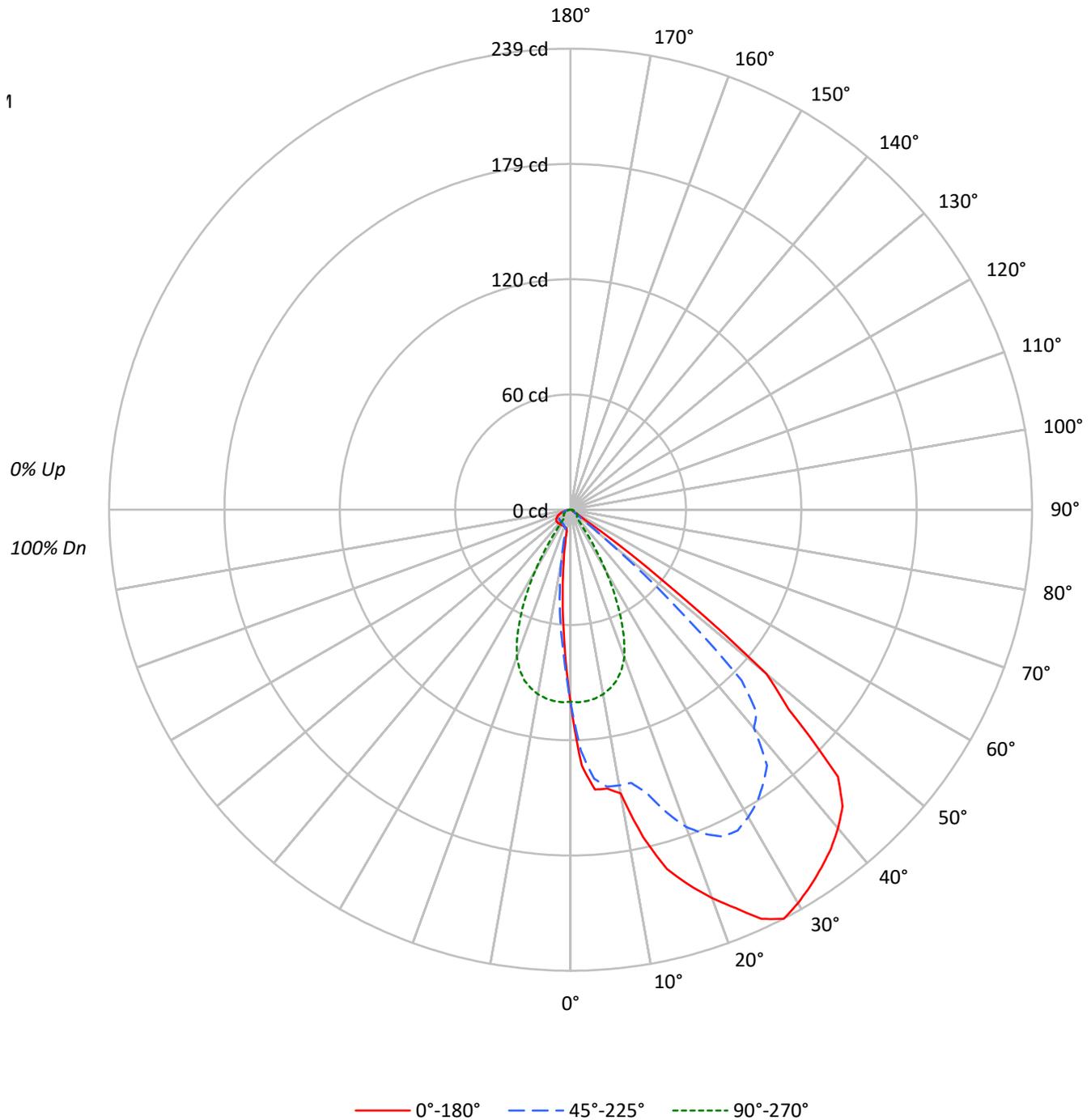
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 189.0 lumens  
Efficiency: N/A  
Efficacy: 52.5 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39  
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 (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: P1306740

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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 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 87  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 80  | 76  | 73  | 71  |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 64  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 63  | 59  | 57  |
| 6   | 79  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  | 63  | 58  | 53  | 62  | 57  | 53  | 51  |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 46  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 44  | 42  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |
| 10  | 60  | 49  | 42  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 36  | 45  | 40  | 36  | 35  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 17136 | 17136 | 17136 | 17136 | 17136 |
| 5°  | 25171 | 24203 | 17202 | 10269 | 8039  |
| 10° | 26110 | 25392 | 16981 | 4914  | 1994  |
| 15° | 34376 | 27066 | 16368 | 1765  | 1729  |
| 20° | 39258 | 32073 | 14900 | 1686  | 1723  |
| 25° | 44466 | 35535 | 11687 | 1634  | 1710  |
| 30° | 46833 | 36591 | 7259  | 1611  | 1830  |
| 35° | 47620 | 36520 | 2397  | 1661  | 1934  |
| 40° | 48449 | 33228 | 1147  | 1776  | 2113  |
| 45° | 47689 | 30494 | 1193  | 1875  | 2289  |
| 50° | 35447 | 5627  | 1206  | 2063  | 2519  |
| 55° | 2822  | 781   | 1291  | 2192  | 2702  |
| 60° | 586   | 827   | 1240  | 2204  | 2790  |
| 65° | 611   | 774   | 1223  | 2201  | 2893  |
| 70° | 554   | 755   | 1209  | 2065  | 2820  |
| 75° | 399   | 732   | 998   | 1996  | 2728  |
| 80° | 397   | 595   | 1091  | 1884  | 2579  |
| 85° | 395   | 790   | 1186  | 1778  | 2174  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 48274 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.1    | 4.8       |
| 10°-20°   | 25.5   | 13.5      |
| 20°-30°   | 42.8   | 22.6      |
| 30°-40°   | 51.4   | 27.2      |
| 40°-50°   | 40.8   | 21.6      |
| 50°-60°   | 13.0   | 6.9       |
| 60°-70°   | 3.6    | 1.9       |
| 70°-80°   | 2.2    | 1.2       |
| 80°-90°   | 0.7    | 0.4       |
| 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°    | 77.3   | 40.9      |
| 0°-40°    | 128.7  | 68.1      |
| 0°-60°    | 182.5  | 96.6      |
| 0°-90°    | 189.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 189.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 100 | 100 | 100 | 100  | 100  |      |
| 5°  | 146 | 140 | 100 | 59   | 46   | 14   |
| 15° | 193 | 152 | 92  | 10   | 10   | 54   |
| 25° | 234 | 187 | 62  | 9    | 9    | 107  |
| 35° | 226 | 174 | 11  | 8    | 9    | 142  |
| 45° | 196 | 125 | 5   | 8    | 9    | 141  |
| 55° | 9   | 3   | 4   | 7    | 9    | 30   |
| 65° | 2   | 2   | 3   | 5    | 7    | 1    |
| 75° | 1   | 1   | 2   | 3    | 4    | 1    |
| 85° | 0   | 0   | 1   | 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°    | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  |
| 2.5°  | 132.7 | 133.6 | 133.6 | 132.5 | 133.0 | 131.2 | 130.0 | 128.0 | 127.6 | 125.2 | 122.2 |
| 5°    | 145.6 | 145.2 | 145.2 | 144.3 | 144.8 | 144.1 | 143.5 | 143.0 | 141.8 | 140.0 | 138.3 |
| 7.5°  | 145.8 | 146.3 | 146.5 | 146.3 | 147.1 | 146.5 | 146.5 | 146.5 | 145.6 | 144.8 | 143.0 |
| 10°   | 149.3 | 148.6 | 148.0 | 146.5 | 145.6 | 145.0 | 145.0 | 145.2 | 145.6 | 145.2 | 144.1 |
| 12.5° | 173.9 | 171.6 | 170.5 | 166.8 | 164.1 | 159.3 | 154.0 | 149.9 | 146.3 | 145.0 | 144.1 |
| 15°   | 192.8 | 192.4 | 190.2 | 186.8 | 183.4 | 177.8 | 171.6 | 165.3 | 158.7 | 151.8 | 146.9 |
| 17.5° | 203.9 | 203.1 | 200.9 | 197.3 | 193.2 | 188.1 | 183.1 | 178.4 | 172.0 | 164.3 | 156.3 |
| 20°   | 214.2 | 212.3 | 209.5 | 205.2 | 201.2 | 196.2 | 190.9 | 186.4 | 181.0 | 175.0 | 165.8 |
| 22.5° | 223.5 | 221.7 | 217.2 | 211.5 | 207.4 | 202.7 | 197.9 | 193.7 | 188.7 | 181.9 | 173.5 |
| 25°   | 234.0 | 230.1 | 222.8 | 215.3 | 210.4 | 206.5 | 203.1 | 199.7 | 194.5 | 187.0 | 177.1 |
| 27.5° | 239.1 | 233.8 | 225.8 | 218.3 | 213.6 | 209.5 | 205.9 | 202.4 | 196.7 | 187.4 | 176.1 |
| 30°   | 235.5 | 232.5 | 226.9 | 221.1 | 217.2 | 213.4 | 209.1 | 203.9 | 194.7 | 184.0 | 173.5 |
| 32.5° | 231.2 | 229.7 | 227.1 | 223.7 | 221.3 | 217.5 | 211.5 | 203.1 | 190.2 | 179.7 | 168.3 |
| 35°   | 226.5 | 225.8 | 225.0 | 223.5 | 222.0 | 218.3 | 210.8 | 198.6 | 185.7 | 173.7 | 162.8 |
| 37.5° | 221.5 | 220.9 | 221.5 | 221.3 | 220.0 | 215.3 | 203.9 | 192.6 | 179.3 | 167.1 | 145.8 |
| 40°   | 215.5 | 215.1 | 216.2 | 217.2 | 215.7 | 209.5 | 197.3 | 183.6 | 171.8 | 147.8 | 140.5 |
| 42.5° | 208.5 | 208.2 | 210.2 | 211.0 | 208.9 | 199.7 | 185.3 | 175.2 | 150.3 | 142.6 | 125.5 |
| 45°   | 195.8 | 196.2 | 197.1 | 198.2 | 196.9 | 186.8 | 173.7 | 155.3 | 144.3 | 125.2 | 71.4  |
| 47.5° | 153.3 | 153.8 | 158.1 | 167.1 | 173.3 | 169.8 | 158.7 | 145.0 | 129.1 | 71.6  | 22.5  |
| 50°   | 132.3 | 131.9 | 132.1 | 134.2 | 139.2 | 143.9 | 140.5 | 133.0 | 77.0  | 21.0  | 2.8   |
| 52.5° | 58.1  | 64.6  | 71.4  | 90.7  | 103.2 | 116.2 | 118.8 | 83.2  | 25.1  | 2.8   | 2.8   |
| 55°   | 9.4   | 9.9   | 12.4  | 18.2  | 32.8  | 49.5  | 60.0  | 27.9  | 2.6   | 2.6   | 2.6   |
| 57.5° | 1.9   | 1.9   | 1.9   | 2.1   | 3.2   | 6.9   | 7.9   | 2.4   | 2.4   | 2.4   | 2.6   |
| 60°   | 1.7   | 1.7   | 1.7   | 1.7   | 1.9   | 1.9   | 1.9   | 2.1   | 2.1   | 2.4   | 2.4   |
| 62.5° | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.9   | 1.9   | 2.1   | 2.1   | 2.4   |
| 65°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.7   | 1.7   | 1.7   | 1.7   | 1.9   | 1.9   | 2.1   |
| 67.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.5   | 1.5   | 1.5   | 1.7   | 1.7   | 1.7   | 1.9   |
| 70°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.3   | 1.3   | 1.3   | 1.3   | 1.5   | 1.5   | 1.5   |
| 72.5° | 0.9   | 0.9   | 0.9   | 0.9   | 1.1   | 1.1   | 1.1   | 1.1   | 1.3   | 1.3   | 1.3   |
| 75°   | 0.6   | 0.6   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.1   | 1.1   | 1.1   |
| 77.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.9   | 0.9   | 0.9   | 0.9   |
| 80°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 82.5° | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 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°    | 99.5  | 99.5  | 99.5  | 99.5 | 99.5   | 99.5 | 99.5   | 99.5 |
| 2.5°  | 120.3 | 117.3 | 113.2 | 99.9 | 87.7   | 76.6 | 71.0   | 70.3 |
| 5°    | 135.5 | 132.7 | 125.9 | 99.5 | 76.1   | 59.4 | 49.3   | 46.5 |
| 7.5°  | 141.3 | 139.0 | 133.0 | 98.6 | 65.2   | 42.7 | 31.3   | 27.0 |
| 10°   | 142.8 | 141.3 | 136.2 | 97.1 | 53.8   | 28.1 | 14.8   | 11.4 |
| 12.5° | 143.5 | 142.4 | 137.5 | 94.8 | 42.5   | 14.6 | 10.1   | 10.1 |
| 15°   | 144.5 | 143.5 | 138.8 | 91.8 | 31.3   | 9.9  | 9.7    | 9.7  |
| 17.5° | 149.3 | 145.8 | 140.5 | 87.3 | 20.6   | 9.4  | 9.4    | 9.4  |
| 20°   | 157.0 | 149.5 | 141.3 | 81.3 | 12.9   | 9.2  | 9.2    | 9.4  |
| 22.5° | 163.4 | 153.3 | 141.1 | 72.3 | 9.4    | 8.8  | 9.0    | 9.2  |
| 25°   | 166.2 | 155.1 | 139.2 | 61.5 | 8.1    | 8.6  | 9.0    | 9.0  |
| 27.5° | 165.8 | 155.7 | 137.5 | 49.3 | 7.7    | 8.4  | 8.8    | 9.2  |
| 30°   | 163.4 | 154.0 | 133.6 | 36.5 | 7.3    | 8.1  | 8.8    | 9.2  |
| 32.5° | 159.3 | 147.3 | 125.9 | 23.6 | 7.1    | 8.1  | 8.8    | 9.2  |
| 35°   | 146.0 | 136.6 | 114.7 | 11.4 | 6.9    | 7.9  | 9.0    | 9.2  |
| 37.5° | 138.3 | 125.2 | 87.5  | 5.6  | 6.6    | 7.9  | 9.0    | 9.2  |
| 40°   | 125.9 | 93.5  | 39.5  | 5.1  | 6.6    | 7.9  | 9.0    | 9.4  |
| 42.5° | 79.1  | 38.4  | 6.4   | 4.9  | 6.4    | 7.9  | 9.0    | 9.4  |
| 45°   | 29.0  | 5.1   | 3.4   | 4.9  | 6.4    | 7.7  | 9.0    | 9.4  |
| 47.5° | 3.0   | 3.0   | 3.2   | 4.7  | 6.2    | 7.7  | 9.0    | 9.4  |
| 50°   | 2.8   | 3.0   | 3.2   | 4.5  | 6.0    | 7.7  | 8.8    | 9.4  |
| 52.5° | 2.8   | 3.0   | 3.2   | 4.5  | 5.8    | 7.5  | 8.8    | 9.4  |
| 55°   | 2.8   | 3.0   | 3.0   | 4.3  | 5.6    | 7.3  | 8.6    | 9.0  |
| 57.5° | 2.6   | 2.8   | 3.0   | 4.1  | 5.4    | 6.9  | 8.4    | 8.8  |
| 60°   | 2.6   | 2.8   | 3.0   | 3.6  | 5.1    | 6.4  | 7.9    | 8.1  |
| 62.5° | 2.4   | 2.6   | 2.8   | 3.4  | 4.7    | 6.0  | 7.3    | 7.7  |
| 65°   | 2.4   | 2.4   | 2.6   | 3.0  | 4.3    | 5.4  | 6.6    | 7.1  |
| 67.5° | 1.9   | 2.1   | 2.1   | 2.6  | 3.6    | 4.7  | 6.0    | 6.4  |
| 70°   | 1.7   | 1.7   | 1.9   | 2.4  | 3.2    | 4.1  | 5.1    | 5.6  |
| 72.5° | 1.5   | 1.5   | 1.5   | 1.9  | 2.8    | 3.6  | 4.5    | 4.9  |
| 75°   | 1.3   | 1.3   | 1.3   | 1.5  | 2.4    | 3.0  | 3.9    | 4.1  |
| 77.5° | 1.1   | 1.1   | 1.1   | 1.3  | 1.9    | 2.6  | 3.0    | 3.4  |
| 80°   | 0.9   | 0.9   | 0.9   | 1.1  | 1.5    | 1.9  | 2.4    | 2.6  |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.9  | 1.1    | 1.3  | 1.7    | 1.7  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.6  | 0.6    | 0.9  | 1.1    | 1.1  |
| 87.5° | 0.2   | 0.2   | 0.2   | 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  |

(END OF REPORT)