

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: P1317119

Luminaire Tested: LDSQA3D02R709827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317119
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: LDSQA3D02R709827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

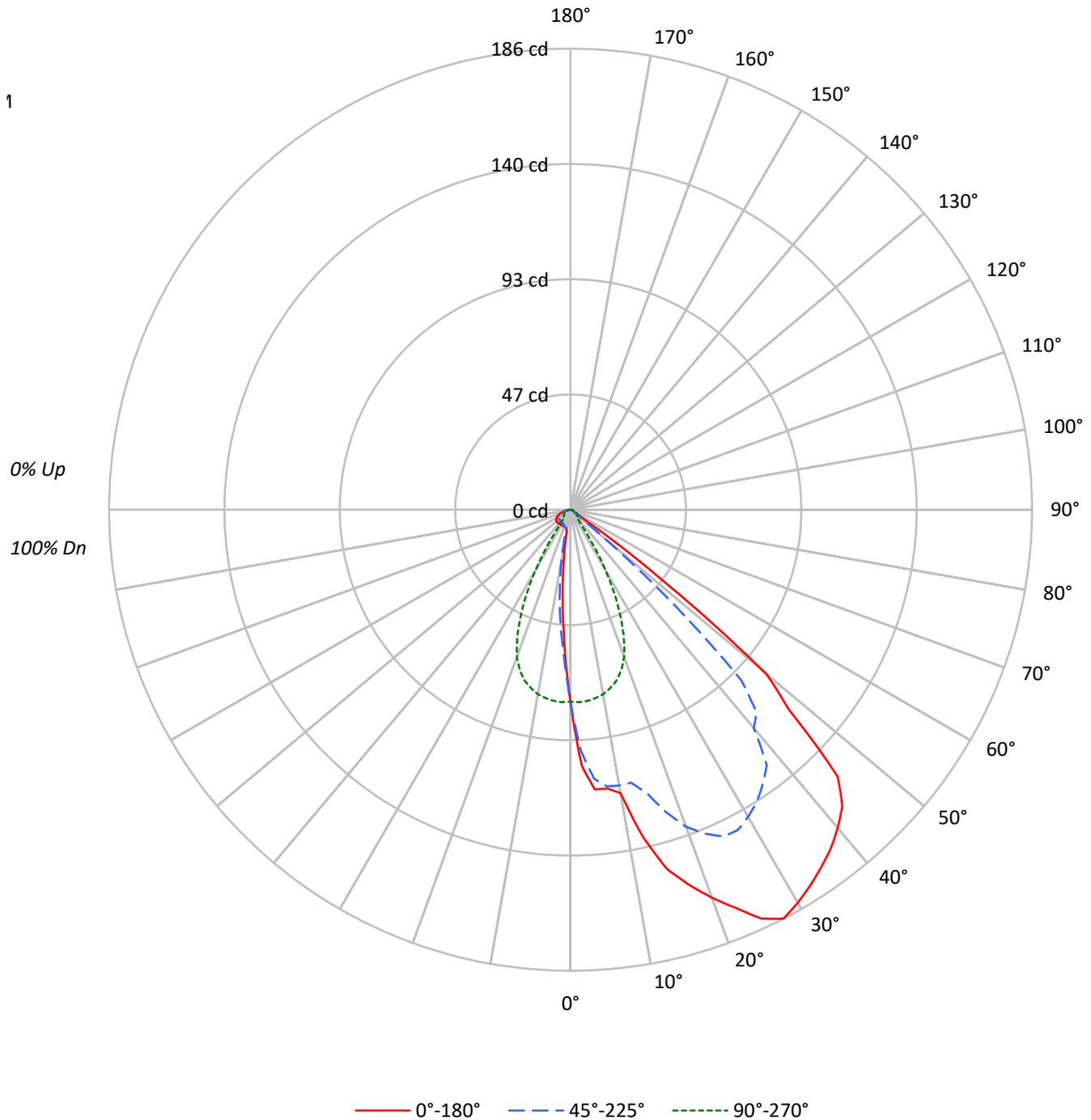
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 147.0 lumens
Efficiency: N/A
Efficacy: 40.8 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: P1317119

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 13330 | 13330 | 13330 | 13330 | 13330 |
| 5° | 19587 | 18827 | 13381 | 7987 | 6258 |
| 10° | 20304 | 19744 | 13221 | 3830 | 1539 |
| 15° | 26745 | 21057 | 12730 | 1373 | 1337 |
| 20° | 30534 | 24944 | 11583 | 1320 | 1338 |
| 25° | 34585 | 27630 | 9102 | 1273 | 1330 |
| 30° | 36412 | 28458 | 5648 | 1253 | 1432 |
| 35° | 37024 | 28404 | 1850 | 1304 | 1514 |
| 40° | 37680 | 25832 | 899 | 1394 | 1641 |
| 45° | 37094 | 23723 | 926 | 1461 | 1778 |
| 50° | 27570 | 4367 | 938 | 1608 | 1956 |
| 55° | 2192 | 601 | 991 | 1711 | 2102 |
| 60° | 448 | 620 | 964 | 1722 | 2170 |
| 65° | 489 | 611 | 937 | 1712 | 2241 |
| 70° | 403 | 604 | 906 | 1611 | 2165 |
| 75° | 333 | 532 | 799 | 1530 | 2129 |
| 80° | 298 | 496 | 793 | 1488 | 1984 |
| 85° | 395 | 593 | 988 | 1383 | 1581 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 37533 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.0 | 4.8 |
| 10°-20° | 19.8 | 13.5 |
| 20°-30° | 33.3 | 22.6 |
| 30°-40° | 40.0 | 27.2 |
| 40°-50° | 31.7 | 21.6 |
| 50°-60° | 10.1 | 6.9 |
| 60°-70° | 2.8 | 1.9 |
| 70°-80° | 1.7 | 1.1 |
| 80°-90° | 0.5 | 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° | 60.1 | 40.9 |
| 0°-40° | 100.1 | 68.1 |
| 0°-60° | 141.9 | 96.6 |
| 0°-90° | 147.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 147.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 77 | 77 | 77 | 77 | 77 | |
| 5° | 113 | 109 | 77 | 46 | 36 | 11 |
| 15° | 150 | 118 | 71 | 8 | 8 | 42 |
| 25° | 182 | 145 | 48 | 7 | 7 | 83 |
| 35° | 176 | 135 | 9 | 6 | 7 | 110 |
| 45° | 152 | 97 | 4 | 6 | 7 | 109 |
| 55° | 7 | 2 | 3 | 6 | 7 | 23 |
| 65° | 1 | 2 | 2 | 4 | 6 | 1 |
| 75° | 0 | 1 | 1 | 2 | 3 | 1 |
| 85° | 0 | 0 | 0 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317119

CATALOG NUMBER: LDSQA3D02R709827DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 |
| 2.5° | 103.2 | 103.9 | 103.9 | 103.1 | 103.4 | 102.1 | 101.1 | 99.6 | 99.2 | 97.4 | 95.1 |
| 5° | 113.3 | 112.9 | 112.9 | 112.3 | 112.6 | 112.1 | 111.6 | 111.3 | 110.3 | 108.9 | 107.6 |
| 7.5° | 113.4 | 113.8 | 113.9 | 113.8 | 114.4 | 113.9 | 113.9 | 113.9 | 113.3 | 112.6 | 111.3 |
| 10° | 116.1 | 115.6 | 115.1 | 113.9 | 113.3 | 112.8 | 112.8 | 112.9 | 113.3 | 112.9 | 112.1 |
| 12.5° | 135.3 | 133.4 | 132.6 | 129.8 | 127.6 | 123.9 | 119.8 | 116.6 | 113.8 | 112.8 | 112.1 |
| 15° | 150.0 | 149.6 | 148.0 | 145.3 | 142.6 | 138.3 | 133.4 | 128.6 | 123.4 | 118.1 | 114.3 |
| 17.5° | 158.6 | 158.0 | 156.3 | 153.5 | 150.3 | 146.3 | 142.4 | 138.8 | 133.8 | 127.8 | 121.6 |
| 20° | 166.6 | 165.1 | 163.0 | 159.6 | 156.5 | 152.6 | 148.5 | 144.9 | 140.8 | 136.1 | 128.9 |
| 22.5° | 173.8 | 172.5 | 169.0 | 164.5 | 161.3 | 157.6 | 154.0 | 150.6 | 146.8 | 141.4 | 134.9 |
| 25° | 182.0 | 179.0 | 173.3 | 167.5 | 163.6 | 160.6 | 158.0 | 155.3 | 151.3 | 145.4 | 137.8 |
| 27.5° | 186.0 | 181.8 | 175.6 | 169.8 | 166.1 | 163.0 | 160.1 | 157.5 | 153.0 | 145.8 | 136.9 |
| 30° | 183.1 | 180.8 | 176.5 | 172.0 | 169.0 | 166.0 | 162.6 | 158.6 | 151.5 | 143.1 | 134.9 |
| 32.5° | 179.8 | 178.6 | 176.6 | 174.0 | 172.1 | 169.1 | 164.5 | 158.0 | 148.0 | 139.8 | 130.9 |
| 35° | 176.1 | 175.6 | 175.0 | 173.8 | 172.6 | 169.8 | 164.0 | 154.5 | 144.4 | 135.1 | 126.6 |
| 37.5° | 172.3 | 171.8 | 172.3 | 172.1 | 171.1 | 167.5 | 158.6 | 149.8 | 139.4 | 129.9 | 113.4 |
| 40° | 167.6 | 167.3 | 168.1 | 169.0 | 167.8 | 163.0 | 153.5 | 142.8 | 133.6 | 114.9 | 109.3 |
| 42.5° | 162.1 | 162.0 | 163.5 | 164.1 | 162.5 | 155.3 | 144.1 | 136.3 | 116.9 | 110.9 | 97.6 |
| 45° | 152.3 | 152.6 | 153.3 | 154.1 | 153.1 | 145.3 | 135.1 | 120.8 | 112.3 | 97.4 | 55.5 |
| 47.5° | 119.3 | 119.6 | 122.9 | 129.9 | 134.8 | 132.1 | 123.4 | 112.8 | 100.4 | 55.7 | 17.5 |
| 50° | 102.9 | 102.6 | 102.7 | 104.4 | 108.3 | 111.9 | 109.3 | 103.4 | 59.9 | 16.3 | 2.2 |
| 52.5° | 45.2 | 50.2 | 55.5 | 70.6 | 80.2 | 90.4 | 92.4 | 64.7 | 19.5 | 2.2 | 2.2 |
| 55° | 7.3 | 7.7 | 9.7 | 14.2 | 25.5 | 38.5 | 46.7 | 21.7 | 2.0 | 2.0 | 2.0 |
| 57.5° | 1.5 | 1.5 | 1.5 | 1.7 | 2.5 | 5.3 | 6.2 | 1.8 | 1.8 | 1.8 | 2.0 |
| 60° | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.5 | 1.7 | 1.7 | 1.8 | 1.8 |
| 62.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.7 | 1.7 | 1.8 |
| 65° | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.7 |
| 67.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.5 |
| 70° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | 1.2 |
| 72.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 |
| 75° | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |
| 77.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 0.7 |
| 80° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 82.5° | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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 |



TEST NUMBER: P1317119

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0° | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 |
| 2.5° | 93.6 | 91.2 | 88.1 | 77.7 | 68.2 | 59.5 | 55.2 | 54.7 |
| 5° | 105.4 | 103.2 | 97.9 | 77.4 | 59.2 | 46.2 | 38.4 | 36.2 |
| 7.5° | 109.9 | 108.1 | 103.4 | 76.7 | 50.7 | 33.2 | 24.4 | 21.0 |
| 10° | 111.1 | 109.9 | 105.9 | 75.6 | 41.9 | 21.9 | 11.5 | 8.8 |
| 12.5° | 111.6 | 110.8 | 106.9 | 73.7 | 33.0 | 11.3 | 7.8 | 7.8 |
| 15° | 112.4 | 111.6 | 107.9 | 71.4 | 24.4 | 7.7 | 7.5 | 7.5 |
| 17.5° | 116.1 | 113.4 | 109.3 | 67.9 | 16.0 | 7.3 | 7.3 | 7.3 |
| 20° | 122.1 | 116.3 | 109.9 | 63.2 | 10.0 | 7.2 | 7.2 | 7.3 |
| 22.5° | 127.1 | 119.3 | 109.8 | 56.2 | 7.3 | 6.8 | 7.0 | 7.2 |
| 25° | 129.3 | 120.6 | 108.3 | 47.9 | 6.3 | 6.7 | 7.0 | 7.0 |
| 27.5° | 128.9 | 121.1 | 106.9 | 38.4 | 6.0 | 6.5 | 6.8 | 7.2 |
| 30° | 127.1 | 119.8 | 103.9 | 28.4 | 5.7 | 6.3 | 6.8 | 7.2 |
| 32.5° | 123.9 | 114.6 | 97.9 | 18.3 | 5.5 | 6.3 | 6.8 | 7.2 |
| 35° | 113.6 | 106.3 | 89.2 | 8.8 | 5.3 | 6.2 | 7.0 | 7.2 |
| 37.5° | 107.6 | 97.4 | 68.1 | 4.3 | 5.2 | 6.2 | 7.0 | 7.2 |
| 40° | 97.9 | 72.7 | 30.7 | 4.0 | 5.2 | 6.2 | 7.0 | 7.3 |
| 42.5° | 61.5 | 29.9 | 5.0 | 3.8 | 5.0 | 6.2 | 7.0 | 7.3 |
| 45° | 22.5 | 4.0 | 2.7 | 3.8 | 5.0 | 6.0 | 7.0 | 7.3 |
| 47.5° | 2.3 | 2.3 | 2.5 | 3.7 | 4.8 | 6.0 | 7.0 | 7.3 |
| 50° | 2.2 | 2.3 | 2.5 | 3.5 | 4.7 | 6.0 | 6.8 | 7.3 |
| 52.5° | 2.2 | 2.3 | 2.5 | 3.5 | 4.5 | 5.8 | 6.8 | 7.3 |
| 55° | 2.2 | 2.3 | 2.3 | 3.3 | 4.3 | 5.7 | 6.7 | 7.0 |
| 57.5° | 2.0 | 2.2 | 2.3 | 3.2 | 4.2 | 5.3 | 6.5 | 6.8 |
| 60° | 2.0 | 2.2 | 2.3 | 2.8 | 4.0 | 5.0 | 6.2 | 6.3 |
| 62.5° | 1.8 | 2.0 | 2.2 | 2.7 | 3.7 | 4.7 | 5.7 | 6.0 |
| 65° | 1.8 | 1.8 | 2.0 | 2.3 | 3.3 | 4.2 | 5.2 | 5.5 |
| 67.5° | 1.5 | 1.7 | 1.7 | 2.0 | 2.8 | 3.7 | 4.7 | 5.0 |
| 70° | 1.3 | 1.3 | 1.5 | 1.8 | 2.5 | 3.2 | 4.0 | 4.3 |
| 72.5° | 1.2 | 1.2 | 1.2 | 1.5 | 2.2 | 2.8 | 3.5 | 3.8 |
| 75° | 1.0 | 1.0 | 1.0 | 1.2 | 1.8 | 2.3 | 3.0 | 3.2 |
| 77.5° | 0.8 | 0.8 | 0.8 | 1.0 | 1.5 | 2.0 | 2.3 | 2.7 |
| 80° | 0.7 | 0.7 | 0.7 | 0.8 | 1.2 | 1.5 | 1.8 | 2.0 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.7 | 0.8 | 1.0 | 1.3 | 1.3 |
| 85° | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.7 | 0.8 | 0.8 |
| 87.5° | 0.2 | 0.2 | 0.2 | 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 |

(END OF REPORT)