

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: P1327257

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCLSWWR 1MW TRIM
Light Source: -
Ballast/Driver: -

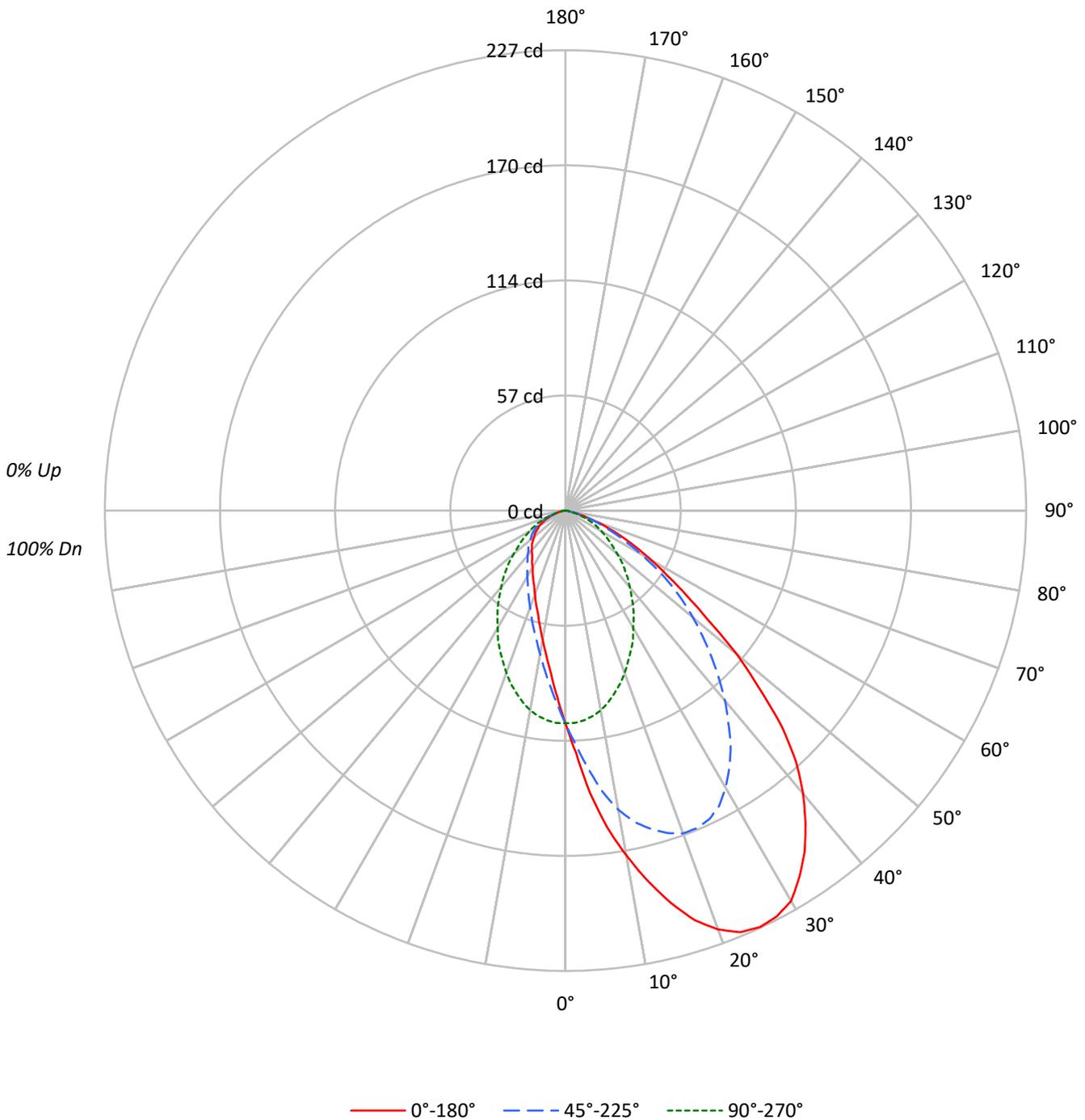
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 256.0 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1327257

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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 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99 | 100 | 98 | 95 | 97 | 95 | 93 | 93 | 91 | 90 | 90 | 90 | 90 | 88 | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 78 | 78 | 78 | 76 | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 72 | 81 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 68 | 68 | 68 | 66 | |
| 4 | 87 | 76 | 68 | 62 | 85 | 75 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 64 | 60 | 60 | 60 | 60 | 58 | |
| 5 | 80 | 69 | 61 | 55 | 78 | 68 | 60 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 53 | 53 | 53 | 51 | |
| 6 | 75 | 62 | 54 | 48 | 73 | 62 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 47 | 47 | 47 | 45 | |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 42 | 42 | 42 | 40 | |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 38 | 38 | 38 | 36 | |
| 9 | 61 | 48 | 40 | 35 | 59 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 35 | 35 | 35 | 33 | |
| 10 | 57 | 44 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 32 | 32 | 32 | 30 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 18049 | 18049 | 18049 | 18049 | 18049 |
| 5° | 24169 | 22060 | 17945 | 15006 | 14003 |
| 10° | 30184 | 26197 | 17488 | 12591 | 11297 |
| 15° | 35677 | 28973 | 16617 | 10751 | 9343 |
| 20° | 40266 | 31047 | 15615 | 9310 | 8046 |
| 25° | 43060 | 31886 | 14480 | 8247 | 7145 |
| 30° | 44208 | 31361 | 13264 | 7477 | 6423 |
| 35° | 43184 | 29834 | 12236 | 6896 | 6013 |
| 40° | 40940 | 27496 | 11061 | 6542 | 5823 |
| 45° | 36753 | 24746 | 10059 | 6308 | 5675 |
| 50° | 29499 | 21997 | 8922 | 6109 | 5385 |
| 55° | 21769 | 18916 | 7957 | 6035 | 5255 |
| 60° | 16774 | 14777 | 7096 | 5821 | 5098 |
| 65° | 12714 | 11003 | 6276 | 5379 | 4523 |
| 70° | 8510 | 7755 | 4784 | 4784 | 3726 |
| 75° | 4591 | 4591 | 3194 | 3194 | 2795 |
| 80° | 1091 | 2083 | 1587 | 2083 | 2579 |
| 85° | 0 | 988 | 988 | 2174 | 2174 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 36753 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|--------------|--------------|
| 0°-10° | 10.3 | 4.0 |
| 10°-20° | 31.4 | 12.3 |
| 20°-30° | 48.4 | 18.9 |
| 30°-40° | 55.0 | 21.5 |
| 40°-50° | 49.7 | 19.4 |
| 50°-60° | 34.8 | 13.6 |
| 60°-70° | 19.1 | 7.5 |
| 70°-80° | 6.4 | 2.5 |
| 80°-90° | 0.8 | 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° | 90.2 | 35.2 |
| 0°-40° | 145.1 | 56.7 |
| 0°-60° | 229.7 | 89.7 |
| 0°-90° | 256.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 256.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 105 | 105 | 105 | 105 | 105 | |
| 5° | 140 | 128 | 104 | 87 | 81 | 14 |
| 15° | 200 | 162 | 93 | 60 | 52 | 57 |
| 25° | 227 | 168 | 76 | 43 | 38 | 104 |
| 35° | 205 | 142 | 58 | 33 | 29 | 128 |
| 45° | 151 | 102 | 41 | 26 | 23 | 114 |
| 55° | 72 | 63 | 26 | 20 | 18 | 67 |
| 65° | 31 | 27 | 15 | 13 | 11 | 31 |
| 75° | 7 | 7 | 5 | 5 | 4 | 8 |
| 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° | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 |
| 2.5° | 119.6 | 120.7 | 121.2 | 120.2 | 119.6 | 119.1 | 118.0 | 117.5 | 116.5 | 115.4 | 114.9 |
| 5° | 139.8 | 139.8 | 139.8 | 138.7 | 137.1 | 136.0 | 133.9 | 132.3 | 129.7 | 127.6 | 125.5 |
| 7.5° | 157.7 | 157.7 | 157.2 | 155.6 | 154.6 | 151.9 | 149.3 | 147.2 | 142.9 | 139.8 | 135.5 |
| 10° | 172.6 | 172.6 | 172.0 | 169.4 | 167.8 | 164.6 | 162.0 | 158.3 | 154.0 | 149.8 | 145.0 |
| 12.5° | 186.9 | 186.9 | 184.7 | 182.6 | 179.5 | 175.2 | 171.5 | 167.8 | 162.0 | 157.2 | 151.4 |
| 15° | 200.1 | 200.1 | 199.0 | 195.3 | 191.1 | 186.3 | 181.0 | 175.7 | 168.9 | 162.5 | 156.2 |
| 17.5° | 211.7 | 211.2 | 209.6 | 205.4 | 201.2 | 195.3 | 189.0 | 182.6 | 174.2 | 166.7 | 158.8 |
| 20° | 219.7 | 219.7 | 217.6 | 212.8 | 208.0 | 201.7 | 194.8 | 187.4 | 178.4 | 169.4 | 159.9 |
| 22.5° | 225.0 | 224.4 | 222.3 | 217.6 | 211.7 | 205.4 | 197.5 | 189.5 | 179.5 | 169.4 | 159.3 |
| 25° | 226.6 | 226.0 | 223.9 | 218.6 | 212.8 | 205.9 | 197.5 | 189.0 | 178.4 | 167.8 | 156.7 |
| 27.5° | 225.5 | 225.0 | 222.9 | 217.0 | 211.2 | 203.3 | 194.8 | 185.8 | 175.2 | 164.1 | 153.0 |
| 30° | 222.3 | 220.7 | 218.6 | 213.3 | 207.0 | 199.0 | 190.0 | 180.0 | 169.4 | 157.7 | 146.6 |
| 32.5° | 214.4 | 214.4 | 211.7 | 206.5 | 200.1 | 191.6 | 182.6 | 173.1 | 161.5 | 150.3 | 138.7 |
| 35° | 205.4 | 204.9 | 202.7 | 196.9 | 191.1 | 183.2 | 174.2 | 164.1 | 153.0 | 141.9 | 130.8 |
| 37.5° | 194.3 | 193.7 | 191.6 | 186.3 | 180.0 | 172.6 | 163.0 | 153.5 | 142.9 | 131.8 | 121.8 |
| 40° | 182.1 | 181.0 | 178.4 | 174.2 | 168.9 | 160.4 | 151.9 | 142.4 | 132.3 | 122.3 | 112.2 |
| 42.5° | 168.3 | 167.3 | 165.2 | 162.0 | 155.6 | 148.2 | 140.3 | 131.3 | 121.8 | 111.7 | 104.3 |
| 45° | 150.9 | 150.9 | 149.8 | 146.6 | 141.9 | 136.0 | 127.6 | 119.6 | 110.6 | 101.6 | 93.7 |
| 47.5° | 129.2 | 130.2 | 129.7 | 128.1 | 126.0 | 120.7 | 114.9 | 108.0 | 99.5 | 91.6 | 84.2 |
| 50° | 110.1 | 110.6 | 111.2 | 110.1 | 108.5 | 104.8 | 101.1 | 96.9 | 89.5 | 82.1 | 75.2 |
| 52.5° | 88.4 | 90.0 | 90.0 | 90.5 | 90.5 | 89.5 | 88.4 | 83.6 | 79.9 | 72.5 | 66.2 |
| 55° | 72.5 | 72.5 | 72.5 | 73.6 | 74.1 | 74.6 | 73.6 | 72.5 | 68.3 | 63.0 | 57.2 |
| 57.5° | 59.3 | 59.3 | 60.3 | 59.8 | 59.8 | 60.9 | 60.9 | 60.3 | 57.7 | 52.9 | 47.6 |
| 60° | 48.7 | 48.7 | 48.7 | 48.7 | 49.2 | 49.2 | 49.2 | 49.2 | 47.1 | 42.9 | 38.6 |
| 62.5° | 39.2 | 39.2 | 39.2 | 39.7 | 39.7 | 39.7 | 40.2 | 39.7 | 37.6 | 34.4 | 30.7 |
| 65° | 31.2 | 30.7 | 31.2 | 31.2 | 31.8 | 31.8 | 31.8 | 31.2 | 29.1 | 27.0 | 24.4 |
| 67.5° | 23.3 | 23.8 | 23.8 | 23.8 | 24.4 | 24.9 | 24.4 | 23.8 | 22.2 | 20.1 | 19.1 |
| 70° | 16.9 | 17.5 | 17.5 | 17.5 | 18.0 | 18.5 | 18.0 | 17.5 | 16.4 | 15.4 | 14.3 |
| 72.5° | 11.1 | 11.6 | 11.6 | 12.2 | 12.7 | 12.7 | 12.2 | 12.2 | 11.6 | 10.6 | 10.1 |
| 75° | 6.9 | 6.9 | 7.4 | 7.4 | 7.9 | 7.9 | 7.9 | 7.4 | 7.4 | 6.9 | 6.9 |
| 77.5° | 3.2 | 3.2 | 3.7 | 3.7 | 3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 3.7 |
| 80° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.6 | 1.6 | 1.6 | 2.1 | 2.1 | 2.1 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 1.1 | 1.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 |
| 2.5° | 113.8 | 112.2 | 110.1 | 104.8 | 99.5 | 95.3 | 92.6 | 92.1 |
| 5° | 122.8 | 120.2 | 115.4 | 103.8 | 94.2 | 86.8 | 82.6 | 81.0 |
| 7.5° | 131.8 | 127.0 | 120.2 | 102.2 | 87.9 | 78.9 | 74.1 | 72.0 |
| 10° | 139.2 | 133.4 | 124.4 | 100.0 | 82.6 | 72.0 | 66.2 | 64.6 |
| 12.5° | 145.0 | 138.2 | 127.0 | 96.9 | 77.3 | 65.6 | 59.8 | 58.2 |
| 15° | 148.8 | 141.3 | 128.6 | 93.2 | 72.0 | 60.3 | 54.5 | 52.4 |
| 17.5° | 150.3 | 141.3 | 128.1 | 89.5 | 67.2 | 55.6 | 49.8 | 48.2 |
| 20° | 150.3 | 140.3 | 126.5 | 85.2 | 62.5 | 50.8 | 45.5 | 43.9 |
| 22.5° | 148.8 | 138.2 | 122.8 | 80.5 | 58.2 | 47.1 | 41.8 | 40.2 |
| 25° | 145.6 | 133.9 | 118.6 | 76.2 | 54.0 | 43.4 | 38.6 | 37.6 |
| 27.5° | 140.8 | 129.2 | 113.3 | 72.0 | 50.3 | 40.2 | 36.0 | 34.9 |
| 30° | 135.0 | 123.3 | 107.5 | 66.7 | 46.6 | 37.6 | 33.9 | 32.3 |
| 32.5° | 127.6 | 116.5 | 101.1 | 62.5 | 43.4 | 34.9 | 31.8 | 30.7 |
| 35° | 119.6 | 109.6 | 94.2 | 58.2 | 40.2 | 32.8 | 29.6 | 28.6 |
| 37.5° | 111.7 | 101.1 | 88.4 | 53.5 | 37.6 | 30.7 | 28.1 | 27.0 |
| 40° | 103.2 | 95.3 | 82.1 | 49.2 | 35.5 | 29.1 | 26.5 | 25.9 |
| 42.5° | 94.8 | 86.3 | 73.1 | 45.5 | 32.8 | 27.0 | 24.9 | 24.4 |
| 45° | 84.7 | 76.8 | 66.2 | 41.3 | 30.7 | 25.9 | 23.8 | 23.3 |
| 47.5° | 76.2 | 68.8 | 59.3 | 37.6 | 28.6 | 24.4 | 22.2 | 21.7 |
| 50° | 68.3 | 60.9 | 51.9 | 33.3 | 26.5 | 22.8 | 21.2 | 20.1 |
| 52.5° | 59.3 | 52.9 | 45.0 | 29.6 | 24.4 | 21.2 | 19.6 | 19.1 |
| 55° | 51.3 | 45.0 | 37.6 | 26.5 | 22.2 | 20.1 | 18.0 | 17.5 |
| 57.5° | 42.3 | 37.1 | 31.8 | 23.3 | 20.1 | 18.0 | 16.9 | 15.9 |
| 60° | 34.4 | 30.7 | 27.0 | 20.6 | 18.0 | 16.9 | 15.4 | 14.8 |
| 62.5° | 28.1 | 25.4 | 22.8 | 18.0 | 15.9 | 14.8 | 13.8 | 12.7 |
| 65° | 22.2 | 20.6 | 18.5 | 15.4 | 13.8 | 13.2 | 12.2 | 11.1 |
| 67.5° | 17.5 | 16.4 | 14.8 | 12.2 | 11.6 | 11.1 | 10.1 | 9.0 |
| 70° | 13.2 | 12.7 | 11.6 | 9.5 | 9.0 | 9.5 | 8.5 | 7.4 |
| 72.5° | 9.5 | 9.0 | 8.5 | 6.9 | 6.9 | 6.9 | 6.4 | 5.3 |
| 75° | 6.4 | 5.8 | 5.3 | 4.8 | 4.8 | 4.8 | 4.8 | 4.2 |
| 77.5° | 3.7 | 3.7 | 3.2 | 2.6 | 3.2 | 3.2 | 3.7 | 3.7 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 2.1 | 2.1 | 2.6 | 2.6 |
| 82.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.6 | 1.6 | 1.6 | 1.6 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 1.1 | 1.1 |
| 87.5° | 0.5 | 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)