

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: P1314738

Luminaire Tested: LDSQA3D13R709730DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314738
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: LDSQA3D13R709730DE010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

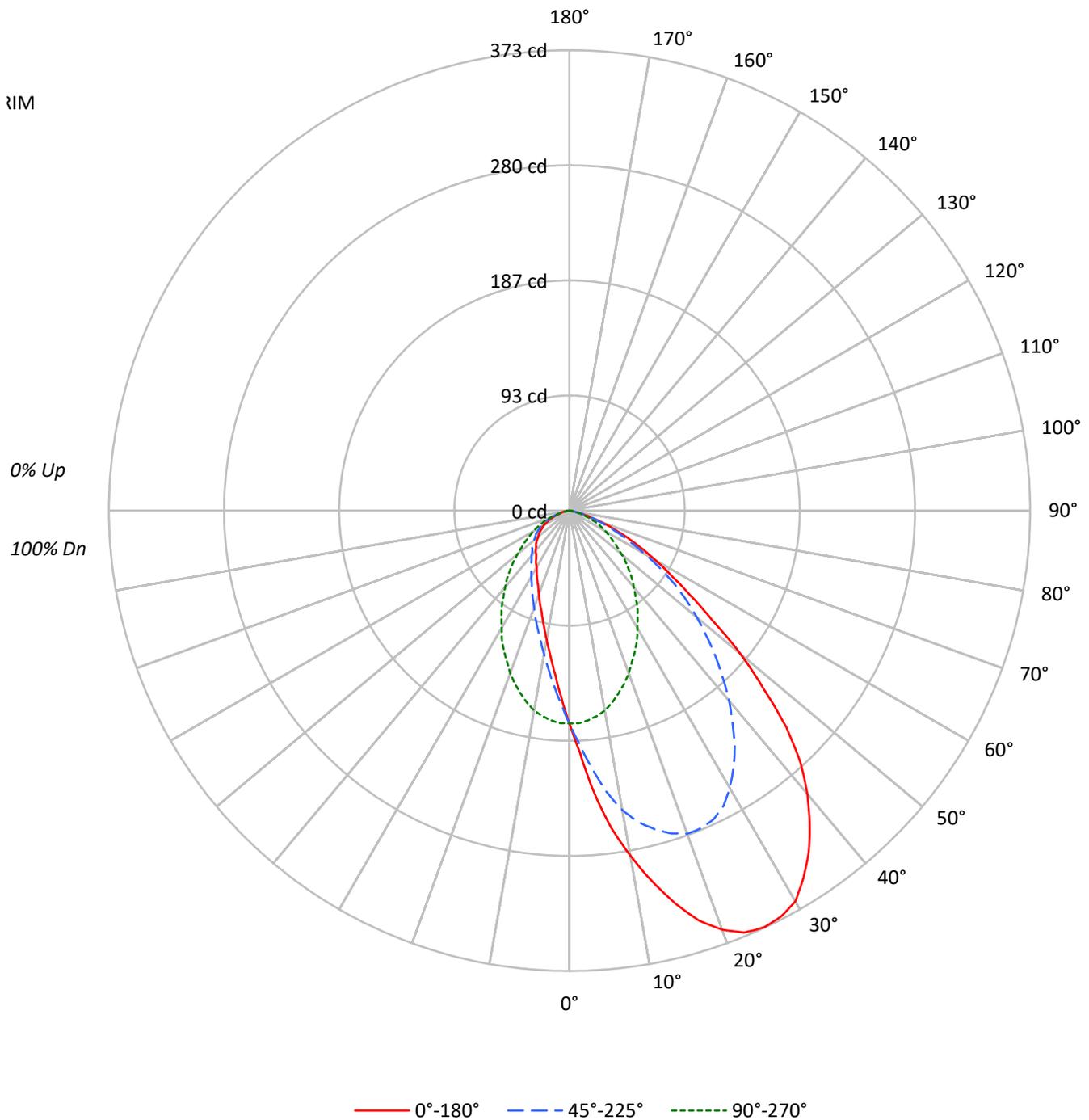
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 421.0 lumens
Efficiency: N/A
Efficacy: 28.8 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): 14.6
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: P1314738

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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° | 29691 | 29691 | 29691 | 29691 | 29691 |
| 5° | 39728 | 36270 | 29493 | 24687 | 23028 |
| 10° | 49631 | 43090 | 28768 | 20706 | 18572 |
| 15° | 58678 | 47659 | 27315 | 17687 | 15369 |
| 20° | 66217 | 51061 | 25695 | 15322 | 13251 |
| 25° | 70804 | 52447 | 23829 | 13568 | 11744 |
| 30° | 72705 | 51586 | 21816 | 12290 | 10560 |
| 35° | 71021 | 49050 | 20141 | 11353 | 9882 |
| 40° | 67334 | 45211 | 18210 | 10769 | 9600 |
| 45° | 60427 | 40699 | 16538 | 10400 | 9328 |
| 50° | 48522 | 36144 | 14683 | 10021 | 8869 |
| 55° | 35821 | 31107 | 13061 | 9939 | 8617 |
| 60° | 27590 | 24283 | 11711 | 9610 | 8404 |
| 65° | 20946 | 18094 | 10269 | 8884 | 7457 |
| 70° | 14049 | 12689 | 7906 | 7906 | 6143 |
| 75° | 7519 | 7519 | 5190 | 5190 | 4658 |
| 80° | 1686 | 3471 | 2579 | 3471 | 4364 |
| 85° | 0 | 1778 | 1778 | 3359 | 3359 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 60427 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.0 | 4.0 |
| 10°-20° | 51.7 | 12.3 |
| 20°-30° | 79.6 | 18.9 |
| 30°-40° | 90.4 | 21.5 |
| 40°-50° | 81.8 | 19.4 |
| 50°-60° | 57.2 | 13.6 |
| 60°-70° | 31.4 | 7.5 |
| 70°-80° | 10.5 | 2.5 |
| 80°-90° | 1.4 | 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° | 148.3 | 35.2 |
| 0°-40° | 238.7 | 56.7 |
| 0°-60° | 377.7 | 89.7 |
| 0°-90° | 421.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 421.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 172 | 172 | 172 | 172 | 172 | |
| 5° | 230 | 210 | 171 | 143 | 133 | 24 |
| 15° | 329 | 267 | 153 | 99 | 86 | 94 |
| 25° | 373 | 276 | 125 | 71 | 62 | 171 |
| 35° | 338 | 233 | 96 | 54 | 47 | 210 |
| 45° | 248 | 167 | 68 | 43 | 38 | 188 |
| 55° | 119 | 104 | 44 | 33 | 29 | 110 |
| 65° | 51 | 44 | 25 | 22 | 18 | 51 |
| 75° | 11 | 11 | 8 | 8 | 7 | 13 |
| 85° | 0 | 1 | 1 | 2 | 2 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1314738

CATALOG NUMBER: LDSQA3D13R709730DE010 3LSQCLSWWR 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 |
| 2.5° | 196.7 | 198.5 | 199.4 | 197.6 | 196.7 | 195.9 | 194.1 | 193.3 | 191.5 | 189.8 | 188.9 |
| 5° | 229.8 | 229.8 | 229.8 | 228.1 | 225.5 | 223.7 | 220.2 | 217.6 | 213.3 | 209.8 | 206.3 |
| 7.5° | 259.4 | 259.4 | 258.6 | 255.9 | 254.2 | 249.8 | 245.5 | 242.0 | 235.0 | 229.8 | 222.9 |
| 10° | 283.8 | 283.8 | 282.9 | 278.6 | 276.0 | 270.7 | 266.4 | 260.3 | 253.3 | 246.4 | 238.5 |
| 12.5° | 307.3 | 307.3 | 303.8 | 300.3 | 295.1 | 288.2 | 282.1 | 276.0 | 266.4 | 258.6 | 249.0 |
| 15° | 329.1 | 329.1 | 327.3 | 321.2 | 314.3 | 306.4 | 297.7 | 289.0 | 277.7 | 267.3 | 256.8 |
| 17.5° | 348.2 | 347.3 | 344.7 | 337.8 | 330.8 | 321.2 | 310.8 | 300.3 | 286.4 | 274.2 | 261.2 |
| 20° | 361.3 | 361.3 | 357.8 | 350.0 | 342.1 | 331.7 | 320.4 | 308.2 | 293.4 | 278.6 | 262.9 |
| 22.5° | 370.0 | 369.1 | 365.6 | 357.8 | 348.2 | 337.8 | 324.7 | 311.7 | 295.1 | 278.6 | 262.0 |
| 25° | 372.6 | 371.7 | 368.2 | 359.5 | 350.0 | 338.6 | 324.7 | 310.8 | 293.4 | 276.0 | 257.7 |
| 27.5° | 370.9 | 370.0 | 366.5 | 356.9 | 347.3 | 334.3 | 320.4 | 305.6 | 288.2 | 269.9 | 251.6 |
| 30° | 365.6 | 363.0 | 359.5 | 350.8 | 340.4 | 327.3 | 312.5 | 296.0 | 278.6 | 259.4 | 241.1 |
| 32.5° | 352.6 | 352.6 | 348.2 | 339.5 | 329.1 | 315.1 | 300.3 | 284.7 | 265.5 | 247.2 | 228.1 |
| 35° | 337.8 | 336.9 | 333.4 | 323.8 | 314.3 | 301.2 | 286.4 | 269.9 | 251.6 | 233.3 | 215.0 |
| 37.5° | 319.5 | 318.6 | 315.1 | 306.4 | 296.0 | 283.8 | 268.1 | 252.5 | 235.0 | 216.8 | 200.2 |
| 40° | 299.5 | 297.7 | 293.4 | 286.4 | 277.7 | 263.8 | 249.8 | 234.2 | 217.6 | 201.1 | 184.6 |
| 42.5° | 276.8 | 275.1 | 271.6 | 266.4 | 255.9 | 243.8 | 230.7 | 215.9 | 200.2 | 183.7 | 171.5 |
| 45° | 248.1 | 248.1 | 246.4 | 241.1 | 233.3 | 223.7 | 209.8 | 196.7 | 181.9 | 167.1 | 154.1 |
| 47.5° | 212.4 | 214.2 | 213.3 | 210.7 | 207.2 | 198.5 | 188.9 | 177.6 | 163.7 | 150.6 | 138.4 |
| 50° | 181.1 | 181.9 | 182.8 | 181.1 | 178.5 | 172.4 | 166.3 | 159.3 | 147.1 | 134.9 | 123.6 |
| 52.5° | 145.4 | 148.0 | 148.0 | 148.9 | 148.9 | 147.1 | 145.4 | 137.5 | 131.5 | 119.3 | 108.8 |
| 55° | 119.3 | 119.3 | 119.3 | 121.0 | 121.9 | 122.7 | 121.0 | 119.3 | 112.3 | 103.6 | 94.0 |
| 57.5° | 97.5 | 97.5 | 99.2 | 98.4 | 98.4 | 100.1 | 100.1 | 99.2 | 94.9 | 87.1 | 78.3 |
| 60° | 80.1 | 80.1 | 80.1 | 80.1 | 81.0 | 81.0 | 81.0 | 81.0 | 77.5 | 70.5 | 63.6 |
| 62.5° | 64.4 | 64.4 | 64.4 | 65.3 | 65.3 | 65.3 | 66.2 | 65.3 | 61.8 | 56.6 | 50.5 |
| 65° | 51.4 | 50.5 | 51.4 | 51.4 | 52.2 | 52.2 | 52.2 | 51.4 | 47.9 | 44.4 | 40.0 |
| 67.5° | 38.3 | 39.2 | 39.2 | 39.2 | 40.0 | 40.9 | 40.0 | 39.2 | 36.6 | 33.1 | 31.3 |
| 70° | 27.9 | 28.7 | 28.7 | 28.7 | 29.6 | 30.5 | 29.6 | 28.7 | 27.0 | 25.2 | 23.5 |
| 72.5° | 18.3 | 19.2 | 19.2 | 20.0 | 20.9 | 20.9 | 20.0 | 20.0 | 19.2 | 17.4 | 16.5 |
| 75° | 11.3 | 11.3 | 12.2 | 12.2 | 13.1 | 13.1 | 13.1 | 12.2 | 12.2 | 11.3 | 11.3 |
| 77.5° | 5.2 | 5.2 | 6.1 | 6.1 | 6.1 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.1 |
| 80° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 3.5 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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° | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 |
| 2.5° | 187.2 | 184.6 | 181.1 | 172.4 | 163.7 | 156.7 | 152.3 | 151.5 |
| 5° | 202.0 | 197.6 | 189.8 | 170.6 | 155.0 | 142.8 | 135.8 | 133.2 |
| 7.5° | 216.8 | 208.9 | 197.6 | 168.0 | 144.5 | 129.7 | 121.9 | 118.4 |
| 10° | 229.0 | 219.4 | 204.6 | 164.5 | 135.8 | 118.4 | 108.8 | 106.2 |
| 12.5° | 238.5 | 227.2 | 208.9 | 159.3 | 127.1 | 107.9 | 98.4 | 95.8 |
| 15° | 244.6 | 232.4 | 211.5 | 153.2 | 118.4 | 99.2 | 89.7 | 86.2 |
| 17.5° | 247.2 | 232.4 | 210.7 | 147.1 | 110.6 | 91.4 | 81.8 | 79.2 |
| 20° | 247.2 | 230.7 | 208.1 | 140.2 | 102.7 | 83.6 | 74.9 | 72.3 |
| 22.5° | 244.6 | 227.2 | 202.0 | 132.3 | 95.8 | 77.5 | 68.8 | 66.2 |
| 25° | 239.4 | 220.2 | 195.0 | 125.4 | 88.8 | 71.4 | 63.6 | 61.8 |
| 27.5° | 231.6 | 212.4 | 186.3 | 118.4 | 82.7 | 66.2 | 59.2 | 57.5 |
| 30° | 222.0 | 202.8 | 176.7 | 109.7 | 76.6 | 61.8 | 55.7 | 53.1 |
| 32.5° | 209.8 | 191.5 | 166.3 | 102.7 | 71.4 | 57.5 | 52.2 | 50.5 |
| 35° | 196.7 | 180.2 | 155.0 | 95.8 | 66.2 | 54.0 | 48.8 | 47.0 |
| 37.5° | 183.7 | 166.3 | 145.4 | 87.9 | 61.8 | 50.5 | 46.1 | 44.4 |
| 40° | 169.8 | 156.7 | 134.9 | 81.0 | 58.3 | 47.9 | 43.5 | 42.7 |
| 42.5° | 155.8 | 141.9 | 120.1 | 74.9 | 54.0 | 44.4 | 40.9 | 40.0 |
| 45° | 139.3 | 126.2 | 108.8 | 67.9 | 50.5 | 42.7 | 39.2 | 38.3 |
| 47.5° | 125.4 | 113.2 | 97.5 | 61.8 | 47.0 | 40.0 | 36.6 | 35.7 |
| 50° | 112.3 | 100.1 | 85.3 | 54.8 | 43.5 | 37.4 | 34.8 | 33.1 |
| 52.5° | 97.5 | 87.1 | 74.0 | 48.8 | 40.0 | 34.8 | 32.2 | 31.3 |
| 55° | 84.4 | 74.0 | 61.8 | 43.5 | 36.6 | 33.1 | 29.6 | 28.7 |
| 57.5° | 69.6 | 60.9 | 52.2 | 38.3 | 33.1 | 29.6 | 27.9 | 26.1 |
| 60° | 56.6 | 50.5 | 44.4 | 34.0 | 29.6 | 27.9 | 25.2 | 24.4 |
| 62.5° | 46.1 | 41.8 | 37.4 | 29.6 | 26.1 | 24.4 | 22.6 | 20.9 |
| 65° | 36.6 | 34.0 | 30.5 | 25.2 | 22.6 | 21.8 | 20.0 | 18.3 |
| 67.5° | 28.7 | 27.0 | 24.4 | 20.0 | 19.2 | 18.3 | 16.5 | 14.8 |
| 70° | 21.8 | 20.9 | 19.2 | 15.7 | 14.8 | 15.7 | 13.9 | 12.2 |
| 72.5° | 15.7 | 14.8 | 13.9 | 11.3 | 11.3 | 11.3 | 10.4 | 8.7 |
| 75° | 10.4 | 9.6 | 8.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.0 |
| 77.5° | 6.1 | 6.1 | 5.2 | 4.4 | 5.2 | 5.2 | 6.1 | 6.1 |
| 80° | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 4.4 | 4.4 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 2.6 | 2.6 |
| 85° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 |
| 87.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)