

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: P1318590

Luminaire Tested: LDSQA3D17R709830DE010 3LSQCLSWWR 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R709830DE010 3LSQCLSWWR 1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCLSWWR 1MMS T
Light Source: -
Ballast/Driver: -

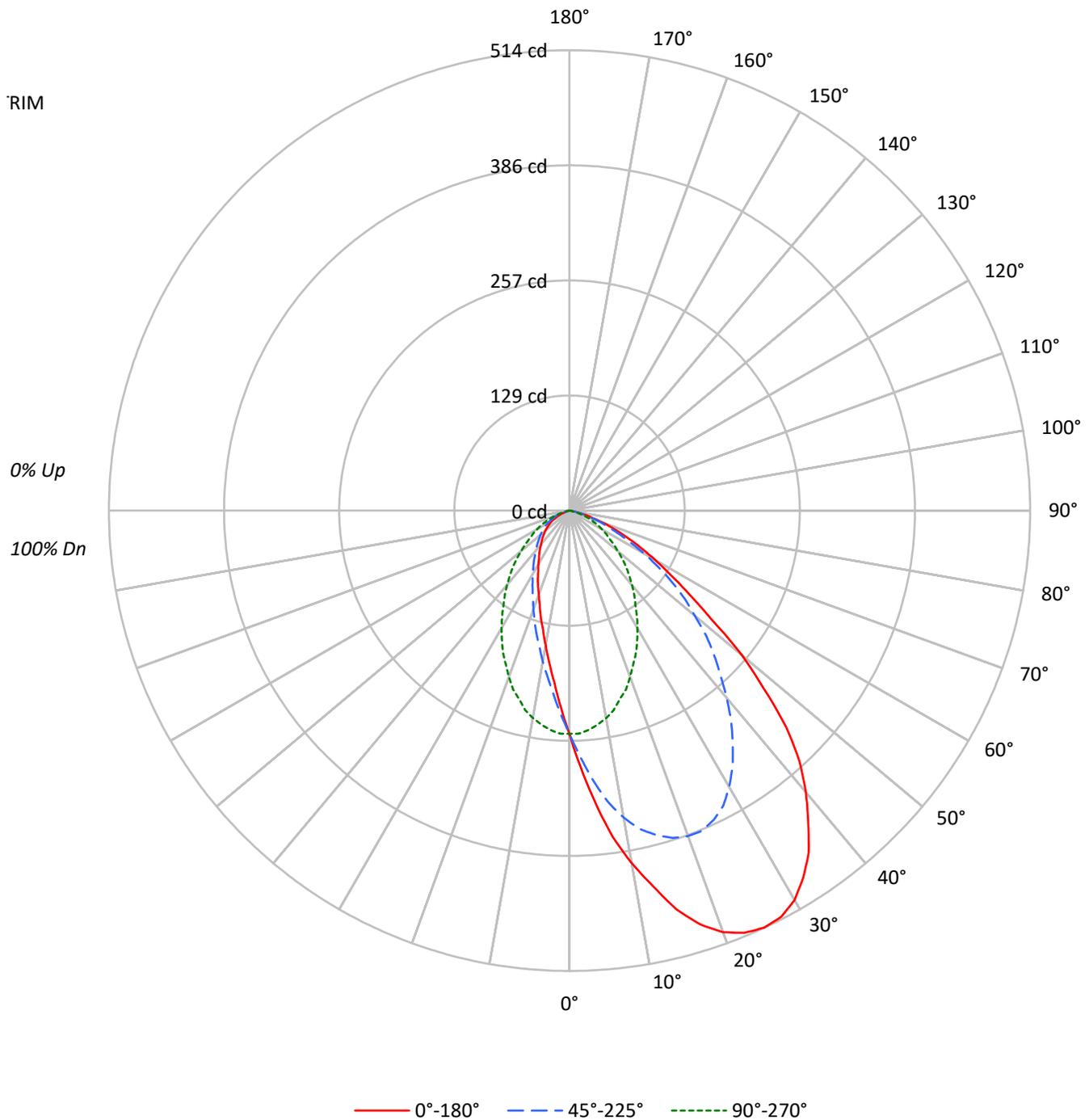
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 559.0 lumens
Efficiency: N/A
Efficacy: 27.4 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1318590

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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 | 100 | | | 100 | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 89 | | | 89 | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | 77 | |
| 3 | 95 | 86 | 79 | 73 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 76 | 73 | 69 | 67 | | | 67 | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 63 | 74 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 61 | 59 | | | 59 | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | 52 | |
| 6 | 75 | 64 | 55 | 50 | 74 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 49 | 58 | 52 | 48 | 46 | | | 46 | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | 42 | |
| 8 | 66 | 53 | 45 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 38 | | | 38 | |
| 9 | 62 | 49 | 41 | 36 | 60 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | 34 | |
| 10 | 58 | 45 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | 31 | | | 31 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 42918 | 42918 | 42918 | 42918 | 42918 |
| 5° | 56497 | 52227 | 42477 | 35562 | 33331 |
| 10° | 69899 | 60858 | 41114 | 30009 | 26722 |
| 15° | 82160 | 66862 | 38780 | 25354 | 22002 |
| 20° | 91784 | 70891 | 36197 | 21553 | 18309 |
| 25° | 97617 | 72381 | 33293 | 18547 | 15867 |
| 30° | 99831 | 70836 | 30148 | 16128 | 13801 |
| 35° | 97869 | 66732 | 26932 | 14591 | 12362 |
| 40° | 92244 | 61309 | 24326 | 13219 | 11106 |
| 45° | 83322 | 55556 | 21750 | 12032 | 10303 |
| 50° | 67411 | 48817 | 18889 | 11333 | 9458 |
| 55° | 49063 | 42007 | 16244 | 10599 | 8467 |
| 60° | 38061 | 33205 | 14570 | 9713 | 7681 |
| 65° | 28730 | 23962 | 11981 | 8639 | 5746 |
| 70° | 20142 | 17171 | 8862 | 6496 | 3575 |
| 75° | 11711 | 10181 | 4724 | 3127 | 799 |
| 80° | 2380 | 3471 | 1190 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 83322 cd/sqm



TEST NUMBER: P1318590

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.4 | 4.4 |
| 10°-20° | 72.7 | 13.0 |
| 20°-30° | 109.5 | 19.6 |
| 30°-40° | 121.7 | 21.8 |
| 40°-50° | 107.9 | 19.3 |
| 50°-60° | 73.2 | 13.1 |
| 60°-70° | 38.4 | 6.9 |
| 70°-80° | 10.9 | 2.0 |
| 80°-90° | 0.3 | 0.1 |
| 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° | 206.5 | 36.9 |
| 0°-40° | 328.3 | 58.7 |
| 0°-60° | 509.4 | 91.1 |
| 0°-90° | 559.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 559.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 249 | 249 | 249 | 249 | 249 | |
| 5° | 327 | 302 | 246 | 206 | 193 | 33 |
| 15° | 461 | 375 | 218 | 142 | 123 | 131 |
| 25° | 514 | 381 | 175 | 98 | 84 | 236 |
| 35° | 466 | 317 | 128 | 69 | 59 | 289 |
| 45° | 342 | 228 | 89 | 49 | 42 | 259 |
| 55° | 163 | 140 | 54 | 35 | 28 | 151 |
| 65° | 70 | 59 | 29 | 21 | 14 | 71 |
| 75° | 18 | 15 | 7 | 5 | 1 | 19 |
| 85° | 0 | 0 | 0 | 0 | 0 | 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° | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 |
| 2.5° | 286.8 | 285.7 | 284.5 | 284.5 | 283.3 | 282.1 | 279.8 | 279.8 | 277.4 | 275.1 | 272.7 |
| 5° | 326.8 | 326.8 | 326.8 | 323.3 | 323.3 | 318.6 | 316.2 | 311.5 | 306.8 | 302.1 | 296.2 |
| 7.5° | 366.8 | 366.8 | 363.3 | 362.1 | 358.5 | 353.8 | 350.3 | 343.3 | 335.0 | 328.0 | 318.6 |
| 10° | 399.7 | 399.7 | 396.2 | 393.8 | 386.8 | 382.1 | 375.0 | 366.8 | 358.5 | 348.0 | 336.2 |
| 12.5° | 429.1 | 430.3 | 425.6 | 420.9 | 413.8 | 406.7 | 397.3 | 386.8 | 376.2 | 364.4 | 349.1 |
| 15° | 460.8 | 459.6 | 453.8 | 447.9 | 439.7 | 429.1 | 417.3 | 403.2 | 389.1 | 375.0 | 358.5 |
| 17.5° | 484.3 | 483.2 | 477.3 | 470.2 | 459.6 | 446.7 | 433.8 | 417.3 | 400.9 | 383.2 | 363.3 |
| 20° | 500.8 | 499.6 | 493.7 | 484.3 | 473.8 | 459.6 | 444.4 | 425.6 | 407.9 | 386.8 | 364.4 |
| 22.5° | 510.2 | 509.0 | 502.0 | 493.7 | 480.8 | 465.5 | 449.1 | 429.1 | 409.1 | 386.8 | 362.1 |
| 25° | 513.7 | 511.4 | 504.3 | 494.9 | 482.0 | 465.5 | 446.7 | 425.6 | 404.4 | 380.9 | 355.0 |
| 27.5° | 511.4 | 509.0 | 500.8 | 490.2 | 476.1 | 457.3 | 438.5 | 417.3 | 395.0 | 371.5 | 344.4 |
| 30° | 502.0 | 498.4 | 491.4 | 480.8 | 465.5 | 446.7 | 426.7 | 404.4 | 380.9 | 356.2 | 329.2 |
| 32.5° | 485.5 | 483.2 | 476.1 | 464.3 | 449.1 | 430.3 | 410.3 | 386.8 | 363.3 | 338.6 | 311.5 |
| 35° | 465.5 | 460.8 | 453.8 | 443.2 | 427.9 | 409.1 | 389.1 | 364.4 | 342.1 | 317.4 | 291.5 |
| 37.5° | 437.3 | 436.1 | 427.9 | 419.7 | 404.4 | 384.4 | 365.6 | 342.1 | 319.8 | 296.2 | 270.4 |
| 40° | 410.3 | 407.9 | 400.9 | 391.5 | 376.2 | 358.5 | 338.6 | 317.4 | 295.1 | 272.7 | 249.2 |
| 42.5° | 379.7 | 376.2 | 371.5 | 362.1 | 348.0 | 330.3 | 311.5 | 290.4 | 270.4 | 249.2 | 228.1 |
| 45° | 342.1 | 340.9 | 335.0 | 330.3 | 317.4 | 302.1 | 283.3 | 264.5 | 244.5 | 228.1 | 211.6 |
| 47.5° | 293.9 | 292.7 | 291.5 | 288.0 | 281.0 | 270.4 | 256.3 | 238.6 | 223.4 | 206.9 | 184.6 |
| 50° | 251.6 | 250.4 | 248.0 | 246.9 | 241.0 | 235.1 | 224.5 | 214.0 | 201.0 | 182.2 | 164.6 |
| 52.5° | 199.8 | 201.0 | 204.5 | 205.7 | 204.5 | 199.8 | 195.1 | 191.6 | 174.0 | 162.2 | 145.8 |
| 55° | 163.4 | 163.4 | 162.2 | 163.4 | 164.6 | 166.9 | 166.9 | 162.2 | 150.5 | 139.9 | 125.8 |
| 57.5° | 134.0 | 134.0 | 134.0 | 134.0 | 134.0 | 135.2 | 135.2 | 134.0 | 128.1 | 117.6 | 104.6 |
| 60° | 110.5 | 109.3 | 109.3 | 110.5 | 109.3 | 109.3 | 110.5 | 110.5 | 104.6 | 96.4 | 84.6 |
| 62.5° | 89.3 | 89.3 | 89.3 | 88.2 | 88.2 | 89.3 | 89.3 | 88.2 | 83.5 | 75.2 | 67.0 |
| 65° | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 71.7 | 70.5 | 69.4 | 64.7 | 58.8 | 52.9 |
| 67.5° | 54.1 | 54.1 | 55.3 | 54.1 | 55.3 | 55.3 | 55.3 | 52.9 | 49.4 | 44.7 | 41.1 |
| 70° | 40.0 | 40.0 | 40.0 | 41.1 | 42.3 | 42.3 | 41.1 | 38.8 | 36.4 | 34.1 | 30.6 |
| 72.5° | 27.0 | 28.2 | 28.2 | 28.2 | 29.4 | 29.4 | 28.2 | 27.0 | 25.9 | 23.5 | 22.3 |
| 75° | 17.6 | 16.5 | 17.6 | 17.6 | 18.8 | 18.8 | 17.6 | 17.6 | 16.5 | 15.3 | 14.1 |
| 77.5° | 8.2 | 8.2 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 8.2 | 8.2 |
| 80° | 2.4 | 2.4 | 2.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 | 249.2 |
| 2.5° | 270.4 | 266.9 | 262.2 | 249.2 | 237.5 | 226.9 | 221.0 | 219.8 |
| 5° | 289.2 | 284.5 | 272.7 | 245.7 | 223.4 | 205.7 | 195.1 | 192.8 |
| 7.5° | 309.2 | 299.8 | 283.3 | 241.0 | 209.3 | 186.9 | 175.2 | 171.6 |
| 10° | 324.5 | 312.7 | 290.4 | 235.1 | 195.1 | 171.6 | 157.5 | 152.8 |
| 12.5° | 335.0 | 320.9 | 296.2 | 228.1 | 183.4 | 155.2 | 141.1 | 136.4 |
| 15° | 340.9 | 325.6 | 297.4 | 217.5 | 169.3 | 142.2 | 127.0 | 123.4 |
| 17.5° | 343.3 | 325.6 | 295.1 | 209.3 | 156.4 | 129.3 | 115.2 | 110.5 |
| 20° | 342.1 | 320.9 | 289.2 | 197.5 | 144.6 | 117.6 | 103.5 | 99.9 |
| 22.5° | 337.4 | 313.9 | 279.8 | 185.7 | 132.8 | 105.8 | 94.0 | 91.7 |
| 25° | 330.3 | 304.5 | 269.2 | 175.2 | 122.3 | 97.6 | 85.8 | 83.5 |
| 27.5° | 318.6 | 292.7 | 255.1 | 163.4 | 112.9 | 89.3 | 78.8 | 75.2 |
| 30° | 303.3 | 278.6 | 241.0 | 151.6 | 103.5 | 81.1 | 71.7 | 69.4 |
| 32.5° | 286.8 | 262.2 | 226.9 | 139.9 | 95.2 | 75.2 | 65.8 | 63.5 |
| 35° | 268.0 | 244.5 | 209.3 | 128.1 | 87.0 | 69.4 | 60.0 | 58.8 |
| 37.5° | 249.2 | 225.7 | 194.0 | 118.7 | 79.9 | 63.5 | 55.3 | 54.1 |
| 40° | 228.1 | 209.3 | 185.7 | 108.2 | 74.1 | 58.8 | 51.7 | 49.4 |
| 42.5° | 215.1 | 189.3 | 159.9 | 98.7 | 68.2 | 54.1 | 47.0 | 45.8 |
| 45° | 186.9 | 168.1 | 144.6 | 89.3 | 62.3 | 49.4 | 43.5 | 42.3 |
| 47.5° | 168.1 | 151.6 | 129.3 | 79.9 | 57.6 | 45.8 | 40.0 | 38.8 |
| 50° | 149.3 | 134.0 | 112.9 | 70.5 | 52.9 | 42.3 | 36.4 | 35.3 |
| 52.5° | 130.5 | 115.2 | 96.4 | 62.3 | 47.0 | 38.8 | 32.9 | 31.7 |
| 55° | 111.7 | 97.6 | 79.9 | 54.1 | 42.3 | 35.3 | 30.6 | 28.2 |
| 57.5° | 91.7 | 79.9 | 68.2 | 48.2 | 37.6 | 31.7 | 27.0 | 24.7 |
| 60° | 74.1 | 67.0 | 57.6 | 42.3 | 32.9 | 28.2 | 23.5 | 22.3 |
| 62.5° | 60.0 | 54.1 | 48.2 | 36.4 | 29.4 | 24.7 | 21.2 | 17.6 |
| 65° | 48.2 | 44.7 | 40.0 | 29.4 | 24.7 | 21.2 | 17.6 | 14.1 |
| 67.5° | 37.6 | 35.3 | 31.7 | 24.7 | 20.0 | 17.6 | 12.9 | 10.6 |
| 70° | 29.4 | 27.0 | 24.7 | 17.6 | 15.3 | 12.9 | 9.4 | 7.1 |
| 72.5° | 21.2 | 18.8 | 17.6 | 12.9 | 10.6 | 9.4 | 5.9 | 3.5 |
| 75° | 12.9 | 12.9 | 10.6 | 7.1 | 5.9 | 4.7 | 2.4 | 1.2 |
| 77.5° | 7.1 | 7.1 | 5.9 | 3.5 | 3.5 | 1.2 | 0.0 | 0.0 |
| 80° | 3.5 | 2.4 | 2.4 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 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 |

(END OF REPORT)