

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: IRiS

Report Number: P#

Luminaire Tested: P3ART20R709030D010 E3CLSWW1MMS

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART20R709030D010 E3CLSWW1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

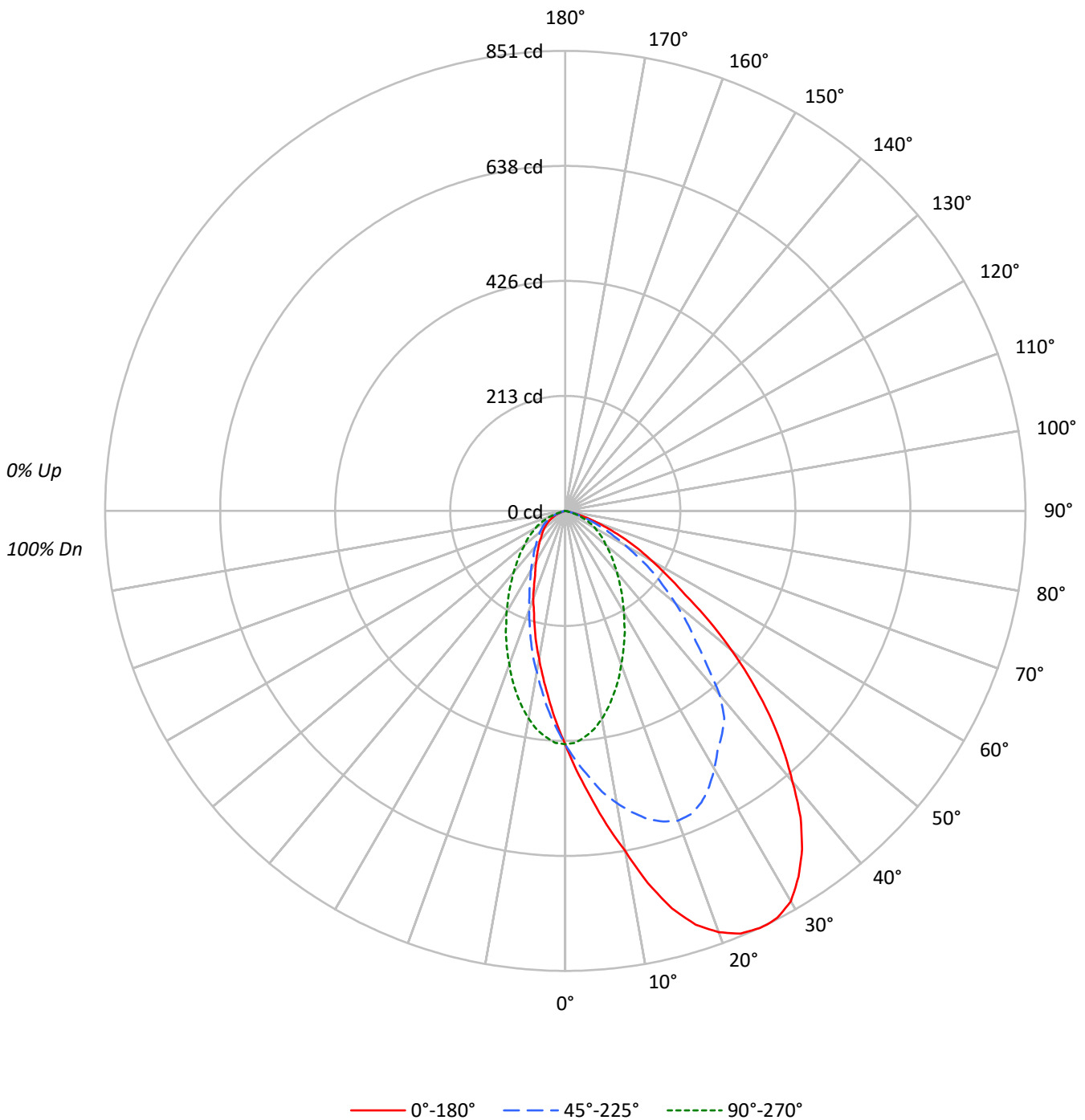
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 860.0 lumens
Efficiency: N/A
Efficacy: 29.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

TEST NUMBER: P#
CATALOG NUMBER: P3ART20R709030D010 E3CLSWW1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: P3ART20R709030D010 E3CLSWW1MMS

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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | 100 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | 89 |
| 2 | 103 | 96 | 91 | 86 | 101 | 95 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 81 | 85 | 82 | 80 | 78 | | 78 |
| 3 | 95 | 87 | 80 | 74 | 93 | 85 | 79 | 74 | 82 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 70 | 68 | | 68 |
| 4 | 88 | 78 | 70 | 65 | 86 | 77 | 70 | 64 | 74 | 68 | 63 | 72 | 67 | 63 | 70 | 66 | 62 | 60 | | 60 |
| 5 | 82 | 71 | 63 | 57 | 80 | 70 | 62 | 57 | 68 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | 53 |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 51 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 47 | | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | 43 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | 39 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | 35 |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 94663 | 94663 | 94663 | 94663 | 94663 |
| 5° | 116509 | 108452 | 92340 | 81070 | 76777 |
| 10° | 142304 | 122198 | 86906 | 67356 | 61923 |
| 15° | 172759 | 134008 | 79183 | 55937 | 49830 |
| 20° | 193520 | 142299 | 70589 | 45527 | 40417 |
| 25° | 205972 | 144008 | 62568 | 37768 | 31865 |
| 30° | 211222 | 139591 | 54970 | 32106 | 27169 |
| 35° | 204383 | 135158 | 48318 | 27412 | 23503 |
| 40° | 187122 | 127067 | 42594 | 24446 | 20954 |
| 45° | 165661 | 105902 | 37833 | 22700 | 18917 |
| 50° | 137309 | 90709 | 33295 | 20810 | 17466 |
| 55° | 103490 | 75543 | 30775 | 19574 | 15866 |
| 60° | 81309 | 56706 | 27805 | 18200 | 13902 |
| 65° | 60759 | 41768 | 24023 | 15203 | 11415 |
| 70° | 39109 | 26607 | 17182 | 10963 | 6283 |
| 75° | 16521 | 14488 | 8303 | 4151 | 2033 |
| 80° | 3031 | 3031 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 165661 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.0 | 4.8 |
| 10°-20° | 117.9 | 13.7 |
| 20°-30° | 172.3 | 20.0 |
| 30°-40° | 187.8 | 21.8 |
| 40°-50° | 162.5 | 18.9 |
| 50°-60° | 108.9 | 12.7 |
| 60°-70° | 56.2 | 6.5 |
| 70°-80° | 13.3 | 1.5 |
| 80°-90° | 0.1 | 0.0 |
| 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° | 331.2 | 38.5 |
| 0°-40° | 519.0 | 60.3 |
| 0°-60° | 790.3 | 91.9 |
| 0°-90° | 860.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 860.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 432 | 432 | 432 | 432 | 432 | |
| 5° | 529 | 493 | 420 | 368 | 349 | 54 |
| 15° | 761 | 590 | 349 | 246 | 220 | 216 |
| 25° | 851 | 595 | 259 | 156 | 132 | 391 |
| 35° | 764 | 505 | 180 | 102 | 88 | 473 |
| 45° | 534 | 342 | 122 | 73 | 61 | 409 |
| 55° | 271 | 198 | 80 | 51 | 42 | 251 |
| 65° | 117 | 80 | 46 | 29 | 22 | 118 |
| 75° | 20 | 17 | 10 | 5 | 2 | 26 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709030D010 E3CLSWW1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 |
| 2.5° | 480.5 | 478.1 | 478.1 | 473.2 | 468.3 | 463.4 | 456.1 | 448.8 | 441.5 | 434.2 | 429.3 |
| 5° | 529.3 | 531.7 | 529.3 | 519.5 | 507.4 | 492.7 | 478.1 | 461.0 | 443.9 | 429.3 | 419.5 |
| 7.5° | 585.4 | 585.4 | 578.1 | 565.9 | 548.8 | 524.4 | 500.0 | 470.8 | 443.9 | 419.5 | 407.3 |
| 10° | 639.1 | 639.1 | 626.9 | 607.4 | 580.5 | 548.8 | 514.7 | 475.6 | 439.1 | 404.9 | 390.3 |
| 12.5° | 704.9 | 702.5 | 687.9 | 656.1 | 617.1 | 570.8 | 524.4 | 475.6 | 431.7 | 390.3 | 370.8 |
| 15° | 761.0 | 758.6 | 739.1 | 700.0 | 648.8 | 590.3 | 526.9 | 470.8 | 417.1 | 370.8 | 348.8 |
| 17.5° | 802.5 | 797.6 | 775.7 | 734.2 | 675.7 | 602.5 | 529.3 | 461.0 | 400.0 | 348.8 | 326.9 |
| 20° | 829.3 | 826.9 | 802.5 | 753.7 | 690.3 | 609.8 | 526.9 | 448.8 | 383.0 | 326.9 | 302.5 |
| 22.5° | 846.4 | 841.5 | 817.1 | 763.5 | 690.3 | 607.4 | 517.1 | 431.7 | 361.0 | 304.9 | 280.5 |
| 25° | 851.3 | 848.8 | 819.6 | 761.0 | 683.0 | 595.2 | 502.5 | 414.7 | 339.0 | 282.9 | 258.6 |
| 26° | 851.3 | 848.8 | 819.6 | 758.6 | 678.1 | 587.8 | 495.2 | 407.3 | 331.7 | 273.2 | 251.2 |
| 27.5° | 848.8 | 846.4 | 814.7 | 751.3 | 668.3 | 575.6 | 480.5 | 392.7 | 317.1 | 261.0 | 236.6 |
| 30° | 834.2 | 829.3 | 797.6 | 734.2 | 646.4 | 551.3 | 456.1 | 370.8 | 295.1 | 239.0 | 217.1 |
| 32.5° | 802.5 | 797.6 | 763.5 | 704.9 | 622.0 | 524.4 | 429.3 | 346.4 | 273.2 | 217.1 | 197.6 |
| 35° | 763.5 | 758.6 | 724.4 | 668.3 | 587.8 | 504.9 | 400.0 | 319.5 | 248.8 | 200.0 | 180.5 |
| 37.5° | 714.7 | 707.4 | 678.1 | 619.6 | 546.4 | 483.0 | 375.6 | 292.7 | 226.8 | 180.5 | 163.4 |
| 40° | 653.7 | 651.3 | 624.4 | 570.8 | 497.6 | 443.9 | 361.0 | 292.7 | 207.3 | 163.4 | 148.8 |
| 42.5° | 595.2 | 590.3 | 565.9 | 519.5 | 453.7 | 387.8 | 317.1 | 280.5 | 192.7 | 146.4 | 134.2 |
| 45° | 534.2 | 529.3 | 507.4 | 468.3 | 407.3 | 341.5 | 341.5 | 241.5 | 165.9 | 134.2 | 122.0 |
| 47.5° | 468.3 | 463.4 | 446.4 | 417.1 | 363.4 | 304.9 | 248.8 | 197.6 | 151.2 | 119.5 | 109.8 |
| 50° | 402.5 | 404.9 | 390.3 | 361.0 | 319.5 | 265.9 | 214.6 | 165.9 | 129.3 | 107.3 | 97.6 |
| 52.5° | 336.6 | 334.2 | 324.4 | 304.9 | 275.6 | 229.3 | 182.9 | 141.5 | 112.2 | 95.1 | 90.2 |
| 55° | 270.7 | 273.2 | 268.3 | 256.1 | 231.7 | 197.6 | 153.7 | 122.0 | 100.0 | 85.4 | 80.5 |
| 57.5° | 224.4 | 226.8 | 217.1 | 209.8 | 190.3 | 161.0 | 126.8 | 102.4 | 85.4 | 75.6 | 70.7 |
| 60° | 185.4 | 187.8 | 180.5 | 170.7 | 156.1 | 129.3 | 102.4 | 85.4 | 75.6 | 68.3 | 63.4 |
| 62.5° | 151.2 | 148.8 | 143.9 | 134.2 | 122.0 | 102.4 | 82.9 | 70.7 | 63.4 | 58.5 | 56.1 |
| 65° | 117.1 | 117.1 | 112.2 | 104.9 | 95.1 | 80.5 | 65.9 | 58.5 | 53.7 | 48.8 | 46.3 |
| 67.5° | 87.8 | 87.8 | 82.9 | 78.1 | 68.3 | 58.5 | 51.2 | 46.3 | 43.9 | 39.0 | 36.6 |
| 70° | 61.0 | 61.0 | 58.5 | 56.1 | 48.8 | 41.5 | 39.0 | 34.1 | 31.7 | 29.3 | 26.8 |
| 72.5° | 39.0 | 39.0 | 39.0 | 34.1 | 31.7 | 26.8 | 26.8 | 24.4 | 22.0 | 19.5 | 19.5 |
| 75° | 19.5 | 22.0 | 19.5 | 19.5 | 17.1 | 17.1 | 14.6 | 14.6 | 12.2 | 12.2 | 9.8 |
| 77.5° | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 80° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 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 |



TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709030D010 E3CLSWW1MMS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 | 431.7 |
| 2.5° | 424.4 | 417.1 | 412.2 | 404.9 | 400.0 | 395.1 | 392.7 | 390.3 | 390.3 | 390.3 |
| 5° | 412.2 | 400.0 | 387.8 | 375.6 | 368.3 | 361.0 | 353.7 | 351.2 | 348.8 | 348.8 |
| 7.5° | 397.6 | 378.1 | 361.0 | 346.4 | 334.2 | 326.9 | 319.5 | 314.7 | 312.2 | 312.2 |
| 10° | 378.1 | 353.7 | 334.2 | 314.7 | 302.5 | 292.7 | 287.8 | 280.5 | 280.5 | 278.1 |
| 12.5° | 356.1 | 326.9 | 304.9 | 287.8 | 275.6 | 263.4 | 256.1 | 251.2 | 248.8 | 248.8 |
| 15° | 331.7 | 302.5 | 278.1 | 258.6 | 246.4 | 234.2 | 226.8 | 222.0 | 219.5 | 219.5 |
| 17.5° | 307.3 | 275.6 | 251.2 | 231.7 | 219.5 | 207.3 | 200.0 | 195.1 | 195.1 | 192.7 |
| 20° | 282.9 | 251.2 | 226.8 | 207.3 | 195.1 | 185.4 | 178.1 | 173.2 | 170.7 | 173.2 |
| 22.5° | 261.0 | 229.3 | 204.9 | 187.8 | 173.2 | 163.4 | 156.1 | 153.7 | 151.2 | 151.2 |
| 25° | 236.6 | 207.3 | 185.4 | 168.3 | 156.1 | 146.4 | 139.0 | 136.6 | 134.2 | 131.7 |
| 26° | 229.3 | 200.0 | 178.1 | 161.0 | 148.8 | 139.0 | 134.2 | 129.3 | 126.8 | 126.8 |
| 27.5° | 219.5 | 187.8 | 168.3 | 151.2 | 139.0 | 131.7 | 124.4 | 122.0 | 119.5 | 119.5 |
| 30° | 197.6 | 170.7 | 151.2 | 136.6 | 126.8 | 117.1 | 112.2 | 109.8 | 107.3 | 107.3 |
| 32.5° | 180.5 | 153.7 | 136.6 | 124.4 | 114.6 | 107.3 | 102.4 | 97.6 | 97.6 | 97.6 |
| 35° | 163.4 | 139.0 | 124.4 | 112.2 | 102.4 | 95.1 | 92.7 | 90.2 | 87.8 | 87.8 |
| 37.5° | 148.8 | 126.8 | 112.2 | 102.4 | 95.1 | 87.8 | 82.9 | 80.5 | 80.5 | 80.5 |
| 40° | 134.2 | 117.1 | 102.4 | 92.7 | 85.4 | 80.5 | 75.6 | 73.2 | 73.2 | 73.2 |
| 42.5° | 122.0 | 104.9 | 95.1 | 85.4 | 78.1 | 73.2 | 70.7 | 68.3 | 65.9 | 65.9 |
| 45° | 112.2 | 97.6 | 85.4 | 78.1 | 73.2 | 68.3 | 63.4 | 61.0 | 61.0 | 61.0 |
| 47.5° | 100.0 | 90.2 | 78.1 | 70.7 | 65.9 | 61.0 | 58.5 | 56.1 | 56.1 | 56.1 |
| 50° | 92.7 | 82.9 | 73.2 | 65.9 | 61.0 | 56.1 | 53.7 | 51.2 | 51.2 | 51.2 |
| 52.5° | 82.9 | 75.6 | 68.3 | 61.0 | 56.1 | 51.2 | 48.8 | 46.3 | 46.3 | 46.3 |
| 55° | 75.6 | 68.3 | 61.0 | 56.1 | 51.2 | 46.3 | 43.9 | 41.5 | 41.5 | 41.5 |
| 57.5° | 68.3 | 61.0 | 56.1 | 51.2 | 46.3 | 43.9 | 39.0 | 39.0 | 36.6 | 36.6 |
| 60° | 61.0 | 53.7 | 48.8 | 46.3 | 41.5 | 39.0 | 34.1 | 31.7 | 31.7 | 31.7 |
| 62.5° | 51.2 | 48.8 | 43.9 | 39.0 | 34.1 | 31.7 | 29.3 | 26.8 | 26.8 | 26.8 |
| 65° | 43.9 | 41.5 | 36.6 | 31.7 | 29.3 | 26.8 | 24.4 | 22.0 | 22.0 | 22.0 |
| 67.5° | 36.6 | 31.7 | 29.3 | 26.8 | 24.4 | 22.0 | 19.5 | 17.1 | 14.6 | 17.1 |
| 70° | 26.8 | 24.4 | 22.0 | 19.5 | 17.1 | 14.6 | 12.2 | 12.2 | 9.8 | 9.8 |
| 72.5° | 17.1 | 14.6 | 14.6 | 12.2 | 9.8 | 9.8 | 7.3 | 7.3 | 4.9 | 4.9 |
| 75° | 9.8 | 9.8 | 7.3 | 7.3 | 4.9 | 4.9 | 2.4 | 2.4 | 2.4 | 2.4 |
| 77.5° | 4.9 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 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 | 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)