

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: P3ART20R709827D010 E3LCWW1H

Issue Date: 5/8/2026

**Test Information**

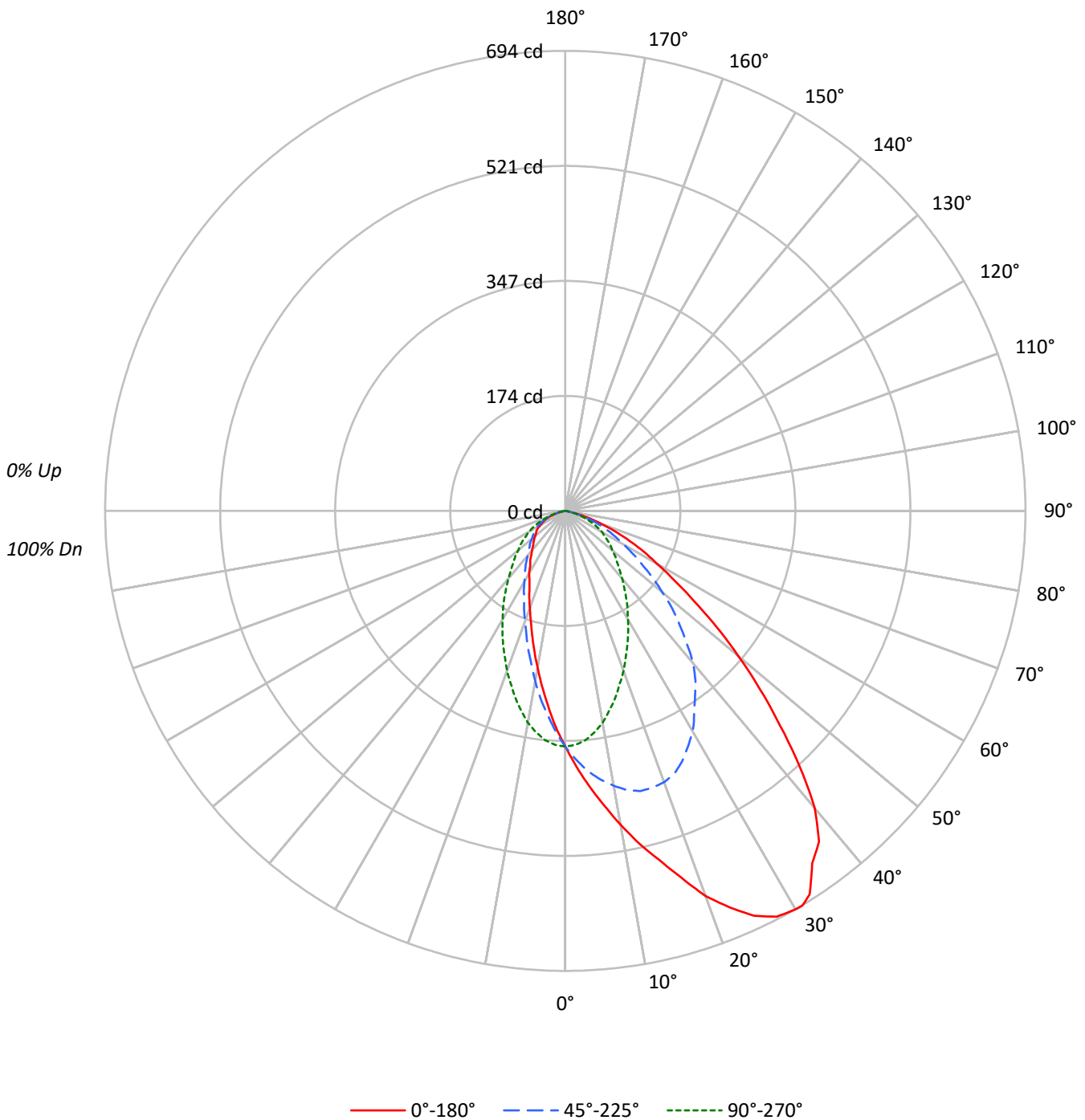
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART20R709827D010 E3LCWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3LCWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 723.0 lumens  
Efficiency: N/A  
Efficacy: 26.4 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
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

TEST NUMBER: P#  
CATALOG NUMBER: P3ART20R709827D010 E3LCWW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P#  
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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |
| 2   | 102 | 95  | 90  | 85  | 100 | 93  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 53  | 51  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 46  |
| 7   | 70  | 57  | 49  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  | 54  | 48  | 43  | 52  | 47  | 43  | 41  |
| 8   | 65  | 53  | 45  | 39  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 48  | 43  | 39  | 37  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 34  |
| 10  | 57  | 45  | 38  | 33  | 56  | 45  | 37  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 42  | 36  | 32  | 31  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 77932  | 77932  | 77932 | 77932 | 77932 |
| 5°  | 91789  | 86815  | 76425 | 67818 | 65111 |
| 10° | 107034 | 93764  | 72277 | 58093 | 53506 |
| 15° | 123588 | 99342  | 66221 | 48967 | 43837 |
| 20° | 144283 | 101626 | 59925 | 41234 | 36427 |
| 25° | 163026 | 100893 | 53689 | 35300 | 30824 |
| 30° | 175799 | 97255  | 47855 | 31220 | 27574 |
| 35° | 173759 | 91283  | 42884 | 28054 | 24735 |
| 40° | 167600 | 85847  | 38214 | 25276 | 22356 |
| 45° | 142061 | 75822  | 34391 | 23568 | 21025 |
| 50° | 116329 | 65158  | 31521 | 22413 | 20332 |
| 55° | 90300  | 54173  | 29858 | 21982 | 20415 |
| 60° | 70258  | 45040  | 27936 | 21621 | 18902 |
| 65° | 55414  | 37306  | 24490 | 20236 | 18108 |
| 70° | 38212  | 27633  | 19747 | 17118 | 15836 |
| 75° | 19148  | 15674  | 13895 | 12200 | 10421 |
| 80° | 2652   | 5177   | 7829  | 5177  | 2652  |
| 85° | 0      | 0      | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 142061 cd/sqm



TEST NUMBER: P#  
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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.2   | 4.6       |
| 10°-20°   | 92.6   | 12.8      |
| 20°-30°   | 136.5  | 18.9      |
| 30°-40°   | 153.0  | 21.2      |
| 40°-50°   | 134.5  | 18.6      |
| 50°-60°   | 96.2   | 13.3      |
| 60°-70°   | 57.0   | 7.9       |
| 70°-80°   | 19.1   | 2.6       |
| 80°-90°   | 0.9    | 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°    | 262.3  | 36.3      |
| 0°-40°    | 415.2  | 57.4      |
| 0°-60°    | 646.0  | 89.3      |
| 0°-90°    | 723.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 723.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 355 | 355 | 355 | 355  | 355  |      |
| 5°  | 417 | 394 | 347 | 308  | 296  | 42   |
| 15° | 544 | 438 | 292 | 216  | 193  | 157  |
| 25° | 674 | 417 | 222 | 146  | 127  | 310  |
| 35° | 649 | 341 | 160 | 105  | 92   | 408  |
| 45° | 458 | 244 | 111 | 76   | 68   | 354  |
| 55° | 236 | 142 | 78  | 58   | 53   | 216  |
| 65° | 107 | 72  | 47  | 39   | 35   | 107  |
| 75° | 23  | 18  | 16  | 14   | 12   | 27   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    | 0    |



TEST NUMBER: P#  
 CATALOG NUMBER: P3ART20R709827D010 E3LCWW1H

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 |
| 2.5°  | 386.2 | 386.2 | 386.2 | 382.1 | 382.1 | 375.9 | 371.8 | 365.7 | 361.5 | 355.4 | 353.3 |
| 5°    | 417.0 | 417.0 | 412.9 | 408.8 | 402.6 | 394.4 | 384.1 | 373.9 | 361.5 | 351.3 | 347.2 |
| 7.5°  | 447.8 | 449.9 | 443.7 | 435.5 | 423.2 | 408.8 | 394.4 | 378.0 | 359.5 | 345.1 | 336.9 |
| 10°   | 480.7 | 480.7 | 472.5 | 460.2 | 441.7 | 421.1 | 398.5 | 375.9 | 353.3 | 332.8 | 324.6 |
| 12.5° | 513.6 | 511.5 | 501.2 | 482.7 | 460.2 | 431.4 | 400.6 | 371.8 | 345.1 | 320.5 | 308.1 |
| 15°   | 544.4 | 544.4 | 530.0 | 507.4 | 474.5 | 437.6 | 400.6 | 363.6 | 332.8 | 304.0 | 291.7 |
| 17.5° | 579.3 | 579.3 | 560.8 | 525.9 | 484.8 | 437.6 | 394.4 | 353.3 | 318.4 | 287.6 | 273.2 |
| 20°   | 618.3 | 616.3 | 589.6 | 542.3 | 488.9 | 435.5 | 386.2 | 341.0 | 302.0 | 269.1 | 256.8 |
| 22.5° | 647.1 | 645.0 | 614.2 | 556.7 | 491.0 | 429.3 | 371.8 | 324.6 | 285.5 | 252.7 | 238.3 |
| 25°   | 673.8 | 669.7 | 634.8 | 562.9 | 486.9 | 417.0 | 357.4 | 306.1 | 269.1 | 236.2 | 221.9 |
| 27.5° | 690.2 | 688.2 | 649.1 | 560.8 | 476.6 | 400.6 | 339.0 | 289.6 | 250.6 | 217.8 | 205.4 |
| 30°   | 694.3 | 696.4 | 649.1 | 550.5 | 460.2 | 384.1 | 320.5 | 271.2 | 232.1 | 203.4 | 189.0 |
| 31°   | 694.3 | 696.4 | 645.0 | 544.4 | 454.0 | 375.9 | 312.2 | 265.0 | 223.9 | 195.2 | 182.8 |
| 32.5° | 686.1 | 682.0 | 638.9 | 534.1 | 439.6 | 361.5 | 302.0 | 254.7 | 213.6 | 184.9 | 174.6 |
| 35°   | 649.1 | 651.2 | 618.3 | 511.5 | 419.1 | 341.0 | 281.4 | 234.2 | 195.2 | 170.5 | 160.2 |
| 37.5° | 628.6 | 628.6 | 569.0 | 480.7 | 396.5 | 322.5 | 256.8 | 211.6 | 178.7 | 156.1 | 145.9 |
| 40°   | 585.5 | 579.3 | 523.8 | 447.8 | 369.8 | 299.9 | 242.4 | 197.2 | 164.3 | 141.7 | 133.5 |
| 42.5° | 523.8 | 517.7 | 474.5 | 419.1 | 334.8 | 271.2 | 230.1 | 174.6 | 147.9 | 129.4 | 121.2 |
| 45°   | 458.1 | 454.0 | 421.1 | 369.8 | 302.0 | 244.5 | 199.3 | 160.2 | 135.6 | 117.1 | 110.9 |
| 47.5° | 398.5 | 392.4 | 367.7 | 328.7 | 273.2 | 219.8 | 172.6 | 143.8 | 121.2 | 106.8 | 102.7 |
| 50°   | 341.0 | 339.0 | 318.4 | 287.6 | 242.4 | 191.0 | 152.0 | 127.4 | 110.9 | 98.6  | 92.4  |
| 52.5° | 287.6 | 283.5 | 273.2 | 248.6 | 211.6 | 166.4 | 133.5 | 113.0 | 98.6  | 90.4  | 86.3  |
| 55°   | 236.2 | 236.2 | 226.0 | 209.5 | 180.8 | 141.7 | 117.1 | 100.7 | 88.3  | 82.2  | 78.1  |
| 57.5° | 195.2 | 195.2 | 186.9 | 176.7 | 150.0 | 121.2 | 102.7 | 88.3  | 80.1  | 74.0  | 69.8  |
| 60°   | 160.2 | 160.2 | 154.1 | 143.8 | 125.3 | 102.7 | 88.3  | 78.1  | 71.9  | 65.7  | 63.7  |
| 62.5° | 133.5 | 131.5 | 127.4 | 117.1 | 102.7 | 86.3  | 76.0  | 67.8  | 61.6  | 57.5  | 55.5  |
| 65°   | 106.8 | 104.8 | 100.7 | 92.4  | 82.2  | 71.9  | 63.7  | 57.5  | 53.4  | 49.3  | 47.2  |
| 67.5° | 82.2  | 82.2  | 78.1  | 71.9  | 63.7  | 57.5  | 51.4  | 47.2  | 43.1  | 41.1  | 39.0  |
| 70°   | 59.6  | 59.6  | 57.5  | 53.4  | 47.2  | 43.1  | 39.0  | 37.0  | 34.9  | 32.9  | 30.8  |
| 72.5° | 41.1  | 41.1  | 39.0  | 37.0  | 32.9  | 30.8  | 26.7  | 26.7  | 24.7  | 24.7  | 22.6  |
| 75°   | 22.6  | 22.6  | 22.6  | 20.5  | 20.5  | 18.5  | 18.5  | 18.5  | 16.4  | 16.4  | 16.4  |
| 77.5° | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  |
| 80°   | 2.1   | 2.1   | 2.1   | 2.1   | 4.1   | 4.1   | 4.1   | 4.1   | 6.2   | 6.2   | 6.2   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   |
| 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#  
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**CANDELA DISTRIBUTION (continued):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 |
| 2.5°  | 351.3 | 345.1 | 341.0 | 339.0 | 332.8 | 330.7 | 328.7 | 326.6 | 326.6 | 326.6 |
| 5°    | 343.1 | 332.8 | 322.5 | 316.4 | 308.1 | 304.0 | 299.9 | 297.9 | 295.8 | 295.8 |
| 7.5°  | 328.7 | 316.4 | 304.0 | 293.8 | 285.5 | 277.3 | 273.2 | 269.1 | 269.1 | 267.1 |
| 10°   | 314.3 | 297.9 | 283.5 | 269.1 | 260.9 | 250.6 | 246.5 | 242.4 | 240.3 | 240.3 |
| 12.5° | 297.9 | 277.3 | 260.9 | 248.6 | 236.2 | 228.0 | 221.9 | 217.8 | 215.7 | 215.7 |
| 15°   | 279.4 | 258.8 | 240.3 | 228.0 | 215.7 | 205.4 | 199.3 | 195.2 | 193.1 | 193.1 |
| 17.5° | 260.9 | 240.3 | 219.8 | 207.5 | 195.2 | 184.9 | 180.8 | 176.7 | 174.6 | 172.6 |
| 20°   | 244.5 | 219.8 | 203.4 | 186.9 | 176.7 | 168.4 | 162.3 | 158.2 | 156.1 | 156.1 |
| 22.5° | 226.0 | 203.4 | 184.9 | 172.6 | 162.3 | 154.1 | 145.9 | 143.8 | 141.7 | 141.7 |
| 25°   | 207.5 | 186.9 | 170.5 | 158.2 | 145.9 | 139.7 | 133.5 | 129.4 | 129.4 | 127.4 |
| 27.5° | 193.1 | 172.6 | 156.1 | 143.8 | 135.6 | 127.4 | 123.3 | 119.1 | 117.1 | 117.1 |
| 30°   | 176.7 | 158.2 | 143.8 | 133.5 | 123.3 | 117.1 | 113.0 | 108.9 | 108.9 | 108.9 |
| 31°   | 172.6 | 154.1 | 139.7 | 127.4 | 119.1 | 113.0 | 108.9 | 106.8 | 104.8 | 104.8 |
| 32.5° | 162.3 | 145.9 | 131.5 | 121.2 | 113.0 | 106.8 | 102.7 | 100.7 | 100.7 | 98.6  |
| 35°   | 150.0 | 133.5 | 121.2 | 110.9 | 104.8 | 98.6  | 94.5  | 92.4  | 92.4  | 92.4  |
| 37.5° | 137.6 | 123.3 | 110.9 | 102.7 | 96.5  | 90.4  | 88.3  | 84.2  | 84.2  | 84.2  |
| 40°   | 125.3 | 113.0 | 102.7 | 94.5  | 88.3  | 84.2  | 82.2  | 80.1  | 78.1  | 78.1  |
| 42.5° | 115.0 | 102.7 | 94.5  | 88.3  | 82.2  | 78.1  | 76.0  | 74.0  | 74.0  | 71.9  |
| 45°   | 104.8 | 94.5  | 88.3  | 82.2  | 76.0  | 74.0  | 71.9  | 69.8  | 67.8  | 67.8  |
| 47.5° | 96.5  | 88.3  | 80.1  | 76.0  | 71.9  | 67.8  | 65.7  | 65.7  | 63.7  | 63.7  |
| 50°   | 88.3  | 80.1  | 74.0  | 69.8  | 65.7  | 63.7  | 61.6  | 61.6  | 59.6  | 59.6  |
| 52.5° | 82.2  | 74.0  | 69.8  | 65.7  | 61.6  | 59.6  | 57.5  | 57.5  | 55.5  | 55.5  |
| 55°   | 74.0  | 67.8  | 63.7  | 61.6  | 57.5  | 55.5  | 53.4  | 51.4  | 51.4  | 53.4  |
| 57.5° | 67.8  | 63.7  | 59.6  | 57.5  | 53.4  | 51.4  | 49.3  | 49.3  | 47.2  | 49.3  |
| 60°   | 61.6  | 57.5  | 53.4  | 51.4  | 49.3  | 47.2  | 45.2  | 43.1  | 43.1  | 43.1  |
| 62.5° | 55.5  | 51.4  | 49.3  | 45.2  | 43.1  | 43.1  | 41.1  | 41.1  | 41.1  | 39.0  |
| 65°   | 47.2  | 45.2  | 43.1  | 41.1  | 39.0  | 37.0  | 37.0  | 34.9  | 34.9  | 34.9  |
| 67.5° | 39.0  | 37.0  | 34.9  | 34.9  | 32.9  | 30.8  | 30.8  | 30.8  | 30.8  | 28.8  |
| 70°   | 30.8  | 28.8  | 28.8  | 26.7  | 26.7  | 26.7  | 24.7  | 24.7  | 24.7  | 24.7  |
| 72.5° | 22.6  | 22.6  | 20.5  | 20.5  | 20.5  | 20.5  | 18.5  | 18.5  | 18.5  | 18.5  |
| 75°   | 16.4  | 16.4  | 16.4  | 14.4  | 14.4  | 14.4  | 12.3  | 12.3  | 12.3  | 12.3  |
| 77.5° | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   |
| 80°   | 6.2   | 6.2   | 6.2   | 6.2   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 2.1   |
| 82.5° | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 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)