

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: P1312350

Luminaire Tested: P3SQAS09R709727DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R709727DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

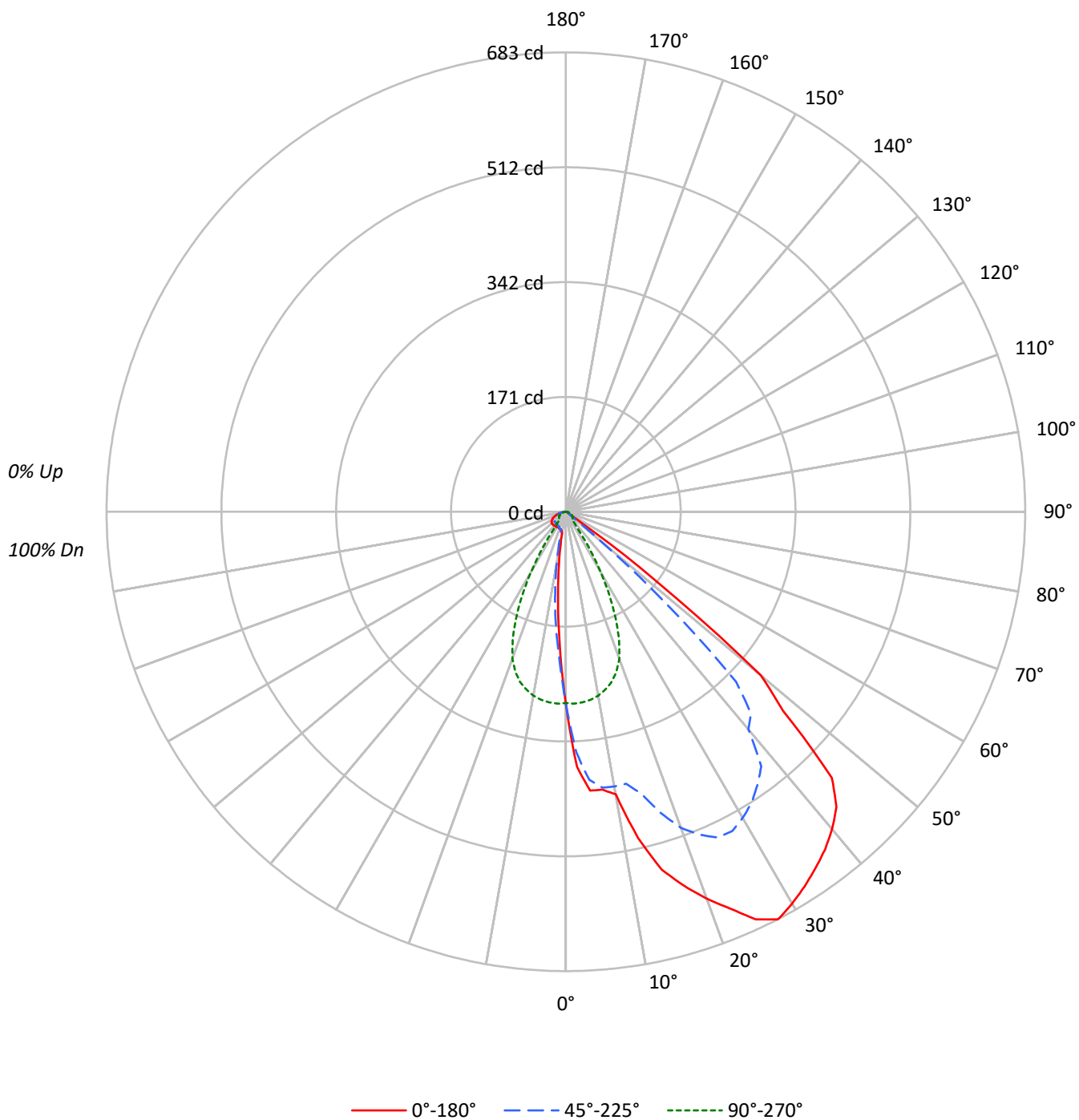
Lumens per Lamp: N/A  
Luminaire Lumens: 540.0 lumens  
Efficiency: N/A  
Efficacy: 48.6 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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: P1312350

CATALOG NUMBER: P3SQAS09R709727DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1312350

CATALOG NUMBER: P3SQAS09R709727DE010 E3SQCA301MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 87  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 80  | 76  | 73  | 71  | 71  |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 64  | 64  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 59  | 57  | 57  |
| 6   | 79  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  | 63  | 58  | 53  | 62  | 57  | 53  | 51  | 51  |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 46  | 46  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  | 42  | 42  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  | 38  |
| 10  | 60  | 49  | 42  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 36  | 45  | 40  | 36  | 35  | 35  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 48963  | 48963  | 48963 | 48963 | 48963 |
| 5°  | 71918  | 69169  | 49150 | 29338 | 22993 |
| 10° | 74586  | 72540  | 48547 | 14043 | 5684  |
| 15° | 98207  | 77346  | 46750 | 5028  | 4921  |
| 20° | 112183 | 91638  | 42557 | 4820  | 4948  |
| 25° | 127033 | 101531 | 33426 | 4656  | 4884  |
| 30° | 133797 | 104544 | 20722 | 4634  | 5230  |
| 35° | 136029 | 104345 | 6833  | 4773  | 5529  |
| 40° | 138445 | 94919  | 3305  | 5103  | 6070  |
| 45° | 136247 | 87146  | 3434  | 5383  | 6576  |
| 50° | 101305 | 16076  | 3456  | 5921  | 7234  |
| 55° | 8107   | 2222   | 3693  | 6245  | 7717  |
| 60° | 1688   | 2308   | 3582  | 6338  | 8026  |
| 65° | 1752   | 2241   | 3505  | 6235  | 8232  |
| 70° | 1561   | 2165   | 3374  | 5841  | 8006  |
| 75° | 1198   | 2063   | 2861  | 5723  | 7719  |
| 80° | 1190   | 1785   | 3075  | 5455  | 7339  |
| 85° | 1186   | 2371   | 3557  | 4940  | 6126  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 137903 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.9   | 4.8       |
| 10°-20°   | 72.8   | 13.5      |
| 20°-30°   | 122.2  | 22.6      |
| 30°-40°   | 146.9  | 27.2      |
| 40°-50°   | 116.5  | 21.6      |
| 50°-60°   | 37.3   | 6.9       |
| 60°-70°   | 10.4   | 1.9       |
| 70°-80°   | 6.2    | 1.2       |
| 80°-90°   | 1.9    | 0.4       |
| 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°    | 220.8  | 40.9      |
| 0°-40°    | 367.7  | 68.1      |
| 0°-60°    | 521.4  | 96.6      |
| 0°-90°    | 540.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 540.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 284 | 284 | 284 | 284  | 284  |      |
| 5°  | 416 | 400 | 284 | 170  | 133  | 39   |
| 15° | 551 | 434 | 262 | 28   | 28   | 155  |
| 25° | 668 | 534 | 176 | 24   | 26   | 306  |
| 35° | 647 | 496 | 32  | 23   | 26   | 405  |
| 45° | 559 | 358 | 14  | 22   | 27   | 402  |
| 55° | 27  | 7   | 12  | 21   | 26   | 84   |
| 65° | 4   | 6   | 9   | 15   | 20   | 4    |
| 75° | 2   | 3   | 4   | 9    | 12   | 2    |
| 85° | 1   | 1   | 2   | 2    | 3    | 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°    | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 |
| 2.5°  | 379.3 | 381.7 | 381.7 | 378.7 | 379.9 | 375.0 | 371.3 | 365.8 | 364.6 | 357.8 | 349.3 |
| 5°    | 416.0 | 414.8 | 414.8 | 412.4 | 413.6 | 411.8 | 409.9 | 408.7 | 405.0 | 400.1 | 395.2 |
| 7.5°  | 416.7 | 417.9 | 418.5 | 417.9 | 420.3 | 418.5 | 418.5 | 418.5 | 416.0 | 413.6 | 408.7 |
| 10°   | 426.5 | 424.6 | 422.8 | 418.5 | 416.0 | 414.2 | 414.2 | 414.8 | 416.0 | 414.8 | 411.8 |
| 12.5° | 496.9 | 490.2 | 487.1 | 476.7 | 468.7 | 455.3 | 439.9 | 428.3 | 417.9 | 414.2 | 411.8 |
| 15°   | 550.8 | 549.6 | 543.5 | 533.7 | 523.9 | 508.0 | 490.2 | 472.4 | 453.4 | 433.8 | 419.7 |
| 17.5° | 582.7 | 580.3 | 574.1 | 563.7 | 552.1 | 537.4 | 523.3 | 509.8 | 491.4 | 469.4 | 446.7 |
| 20°   | 612.1 | 606.6 | 598.6 | 586.4 | 574.7 | 560.7 | 545.3 | 532.5 | 517.1 | 500.0 | 473.6 |
| 22.5° | 638.5 | 633.6 | 620.7 | 604.2 | 592.5 | 579.0 | 565.6 | 553.3 | 539.2 | 519.6 | 495.7 |
| 25°   | 668.5 | 657.5 | 636.6 | 615.2 | 601.1 | 590.1 | 580.3 | 570.5 | 555.7 | 534.3 | 506.1 |
| 27.5° | 683.2 | 667.9 | 645.2 | 623.8 | 610.3 | 598.6 | 588.2 | 578.4 | 561.9 | 535.5 | 503.1 |
| 30°   | 672.8 | 664.2 | 648.3 | 631.7 | 620.7 | 609.7 | 597.4 | 582.7 | 556.4 | 525.7 | 495.7 |
| 32.5° | 660.5 | 656.2 | 648.9 | 639.1 | 632.3 | 621.3 | 604.2 | 580.3 | 543.5 | 513.5 | 481.0 |
| 35°   | 647.0 | 645.2 | 642.8 | 638.5 | 634.2 | 623.8 | 602.3 | 567.4 | 530.6 | 496.3 | 465.1 |
| 37.5° | 633.0 | 631.1 | 633.0 | 632.3 | 628.7 | 615.2 | 582.7 | 550.2 | 512.2 | 477.3 | 416.7 |
| 40°   | 615.8 | 614.6 | 617.6 | 620.7 | 616.4 | 598.6 | 563.7 | 524.5 | 490.8 | 422.2 | 401.3 |
| 42.5° | 595.6 | 595.0 | 600.5 | 602.9 | 596.8 | 570.5 | 529.4 | 500.6 | 429.5 | 407.5 | 358.4 |
| 45°   | 559.4 | 560.7 | 563.1 | 566.2 | 562.5 | 533.7 | 496.3 | 443.6 | 412.4 | 357.8 | 204.0 |
| 47.5° | 438.1 | 439.3 | 451.6 | 477.3 | 495.1 | 485.3 | 453.4 | 414.2 | 368.9 | 204.7 | 64.3  |
| 50°   | 378.1 | 376.8 | 377.4 | 383.6 | 397.7 | 411.1 | 401.3 | 379.9 | 220.0 | 60.0  | 8.0   |
| 52.5° | 166.1 | 184.4 | 204.0 | 259.2 | 294.7 | 332.1 | 339.5 | 237.7 | 71.7  | 8.0   | 8.0   |
| 55°   | 27.0  | 28.2  | 35.5  | 52.1  | 93.7  | 141.5 | 171.6 | 79.7  | 7.4   | 7.4   | 7.4   |
| 57.5° | 5.5   | 5.5   | 5.5   | 6.1   | 9.2   | 19.6  | 22.7  | 6.7   | 6.7   | 6.7   | 7.4   |
| 60°   | 4.9   | 4.9   | 4.9   | 4.9   | 5.5   | 5.5   | 5.5   | 6.1   | 6.1   | 6.7   | 6.7   |
| 62.5° | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 5.5   | 5.5   | 6.1   | 6.1   | 6.7   |
| 65°   | 4.3   | 4.3   | 4.3   | 4.3   | 4.9   | 4.9   | 4.9   | 4.9   | 5.5   | 5.5   | 6.1   |
| 67.5° | 3.7   | 3.7   | 3.7   | 3.7   | 4.3   | 4.3   | 4.3   | 4.9   | 4.9   | 4.9   | 5.5   |
| 70°   | 3.1   | 3.1   | 3.1   | 3.1   | 3.7   | 3.7   | 3.7   | 3.7   | 4.3   | 4.3   | 4.3   |
| 72.5° | 2.5   | 2.5   | 2.5   | 2.5   | 3.1   | 3.1   | 3.1   | 3.1   | 3.7   | 3.7   | 3.7   |
| 75°   | 1.8   | 1.8   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 3.1   | 3.1   | 3.1   |
| 77.5° | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.5   | 2.5   | 2.5   | 2.5   |
| 80°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   |
| 82.5° | 0.6   | 0.6   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 1.2   | 1.2   | 1.2   | 1.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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°    | 284.3 | 284.3 | 284.3 | 284.3 | 284.3  | 284.3 | 284.3  | 284.3 |
| 2.5°  | 343.7 | 335.2 | 323.5 | 285.5 | 250.6  | 218.7 | 202.8  | 201.0 |
| 5°    | 387.2 | 379.3 | 359.7 | 284.3 | 217.5  | 169.7 | 140.9  | 133.0 |
| 7.5°  | 403.8 | 397.1 | 379.9 | 281.9 | 186.3  | 121.9 | 89.5   | 77.2  |
| 10°   | 408.1 | 403.8 | 389.1 | 277.6 | 153.8  | 80.3  | 42.3   | 32.5  |
| 12.5° | 409.9 | 406.9 | 392.8 | 270.8 | 121.3  | 41.7  | 28.8   | 28.8  |
| 15°   | 413.0 | 409.9 | 396.4 | 262.2 | 89.5   | 28.2  | 27.6   | 27.6  |
| 17.5° | 426.5 | 416.7 | 401.3 | 249.4 | 58.8   | 27.0  | 27.0   | 27.0  |
| 20°   | 448.5 | 427.1 | 403.8 | 232.2 | 36.8   | 26.3  | 26.3   | 27.0  |
| 22.5° | 466.9 | 438.1 | 403.2 | 206.5 | 27.0   | 25.1  | 25.7   | 26.3  |
| 25°   | 474.9 | 443.0 | 397.7 | 175.9 | 23.3   | 24.5  | 25.7   | 25.7  |
| 27.5° | 473.6 | 444.8 | 392.8 | 140.9 | 22.1   | 23.9  | 25.1   | 26.3  |
| 30°   | 466.9 | 439.9 | 381.7 | 104.2 | 20.8   | 23.3  | 25.1   | 26.3  |
| 32.5° | 455.3 | 420.9 | 359.7 | 67.4  | 20.2   | 23.3  | 25.1   | 26.3  |
| 35°   | 417.3 | 390.3 | 327.8 | 32.5  | 19.6   | 22.7  | 25.7   | 26.3  |
| 37.5° | 395.2 | 357.8 | 250.0 | 15.9  | 19.0   | 22.7  | 25.7   | 26.3  |
| 40°   | 359.7 | 267.2 | 112.7 | 14.7  | 19.0   | 22.7  | 25.7   | 27.0  |
| 42.5° | 226.1 | 109.7 | 18.4  | 14.1  | 18.4   | 22.7  | 25.7   | 27.0  |
| 45°   | 82.7  | 14.7  | 9.8   | 14.1  | 18.4   | 22.1  | 25.7   | 27.0  |
| 47.5° | 8.6   | 8.6   | 9.2   | 13.5  | 17.8   | 22.1  | 25.7   | 27.0  |
| 50°   | 8.0   | 8.6   | 9.2   | 12.9  | 17.2   | 22.1  | 25.1   | 27.0  |
| 52.5° | 8.0   | 8.6   | 9.2   | 12.9  | 16.5   | 21.4  | 25.1   | 27.0  |
| 55°   | 8.0   | 8.6   | 8.6   | 12.3  | 15.9   | 20.8  | 24.5   | 25.7  |
| 57.5° | 7.4   | 8.0   | 8.6   | 11.6  | 15.3   | 19.6  | 23.9   | 25.1  |
| 60°   | 7.4   | 8.0   | 8.6   | 10.4  | 14.7   | 18.4  | 22.7   | 23.3  |
| 62.5° | 6.7   | 7.4   | 8.0   | 9.8   | 13.5   | 17.2  | 20.8   | 22.1  |
| 65°   | 6.7   | 6.7   | 7.4   | 8.6   | 12.3   | 15.3  | 19.0   | 20.2  |
| 67.5° | 5.5   | 6.1   | 6.1   | 7.4   | 10.4   | 13.5  | 17.2   | 18.4  |
| 70°   | 4.9   | 4.9   | 5.5   | 6.7   | 9.2    | 11.6  | 14.7   | 15.9  |
| 72.5° | 4.3   | 4.3   | 4.3   | 5.5   | 8.0    | 10.4  | 12.9   | 14.1  |
| 75°   | 3.7   | 3.7   | 3.7   | 4.3   | 6.7    | 8.6   | 11.0   | 11.6  |
| 77.5° | 3.1   | 3.1   | 3.1   | 3.7   | 5.5    | 7.4   | 8.6    | 9.8   |
| 80°   | 2.5   | 2.5   | 2.5   | 3.1   | 4.3    | 5.5   | 6.7    | 7.4   |
| 82.5° | 1.8   | 1.8   | 1.8   | 2.5   | 3.1    | 3.7   | 4.9    | 4.9   |
| 85°   | 1.2   | 1.2   | 1.2   | 1.8   | 1.8    | 2.5   | 3.1    | 3.1   |
| 87.5° | 0.6   | 0.6   | 0.6   | 1.2   | 1.2    | 1.2   | 1.2    | 1.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)