

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: P1316321

Luminaire Tested: P3SQAS13R709827DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316321  
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: P3SQAS13R709827DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

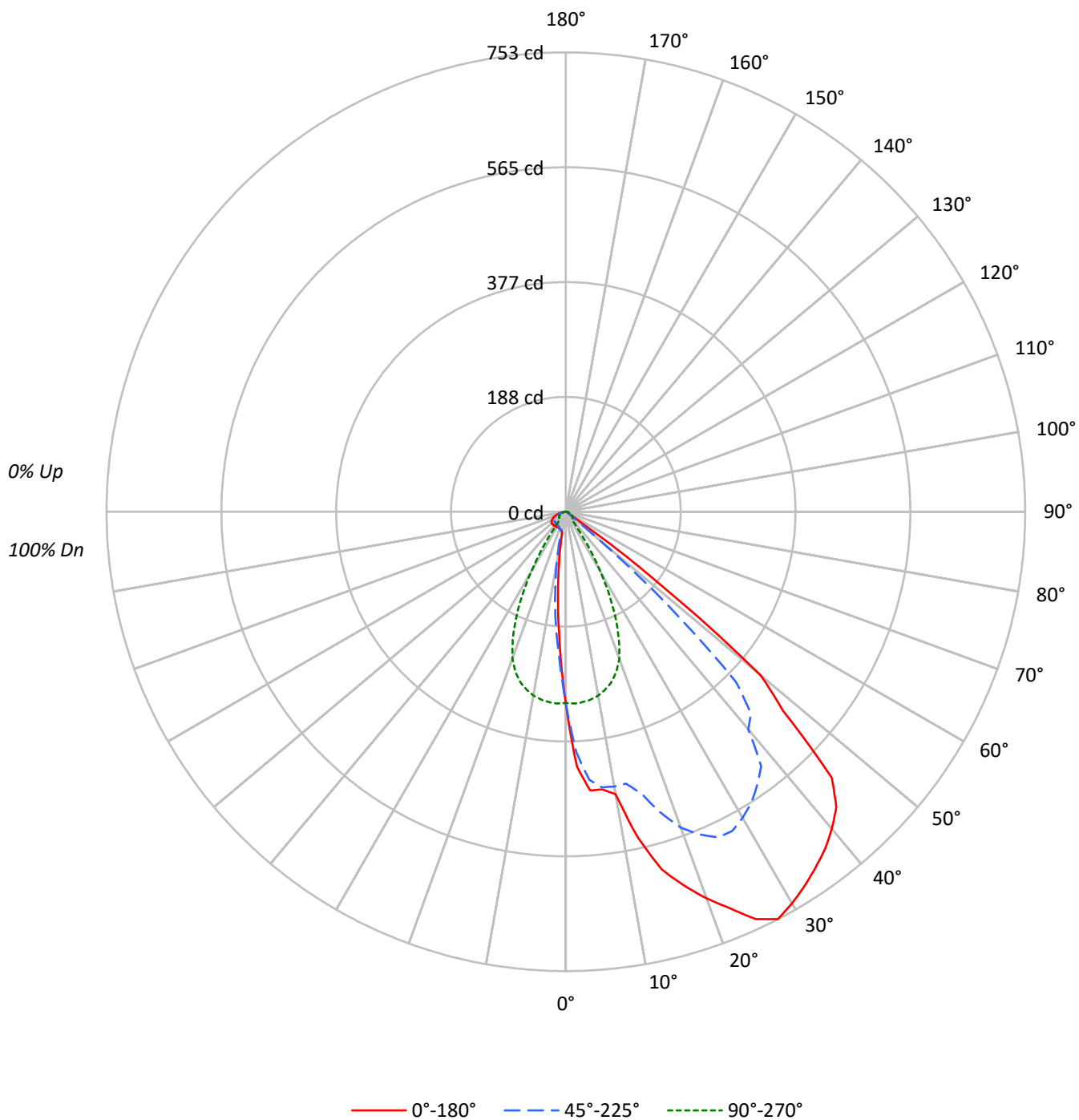
Lumens per Lamp: N/A  
Luminaire Lumens: 595.1 lumens  
Efficiency: N/A  
Efficacy: 41.0 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1316321

CATALOG NUMBER: P3SQAS13R709827DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1316321

CATALOG NUMBER: P3SQAS13R709827DE010 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  | 60  | 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°  | 53957  | 53957  | 53957 | 53957 | 53957 |
| 5°  | 79248  | 76223  | 54163 | 32329 | 25327 |
| 10° | 82176  | 79937  | 53478 | 15459 | 6261  |
| 15° | 108227 | 85226  | 51528 | 5545  | 5420  |
| 20° | 123619 | 100966 | 46900 | 5315  | 5443  |
| 25° | 139974 | 111869 | 36827 | 5131  | 5397  |
| 30° | 147419 | 115203 | 22830 | 5111  | 5767  |
| 35° | 149884 | 114983 | 7527  | 5256  | 6097  |
| 40° | 152541 | 104587 | 3642  | 5621  | 6677  |
| 45° | 150130 | 96036  | 3775  | 5918  | 7234  |
| 50° | 111620 | 17737  | 3805  | 6511  | 7958  |
| 55° | 8918   | 2432   | 4054  | 6906  | 8527  |
| 60° | 1860   | 2549   | 3961  | 6992  | 8852  |
| 65° | 1915   | 2486   | 3871  | 6887  | 9088  |
| 70° | 1712   | 2367   | 3726  | 6445  | 8862  |
| 75° | 1331   | 2262   | 3127  | 6321  | 8517  |
| 80° | 1389   | 1984   | 3372  | 6050  | 8034  |
| 85° | 1383   | 2766   | 3952  | 5335  | 6719  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 151932 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.5   | 4.8       |
| 10°-20°   | 80.2   | 13.5      |
| 20°-30°   | 134.6  | 22.6      |
| 30°-40°   | 161.9  | 27.2      |
| 40°-50°   | 128.3  | 21.6      |
| 50°-60°   | 41.1   | 6.9       |
| 60°-70°   | 11.5   | 1.9       |
| 70°-80°   | 6.9    | 1.2       |
| 80°-90°   | 2.2    | 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°    | 243.3  | 40.9      |
| 0°-40°    | 405.2  | 68.1      |
| 0°-60°    | 574.6  | 96.6      |
| 0°-90°    | 595.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 595.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 313 | 313 | 313 | 313  | 313  |      |
| 5°  | 458 | 441 | 313 | 187  | 146  | 43   |
| 15° | 607 | 478 | 289 | 31   | 30   | 171  |
| 25° | 737 | 589 | 194 | 27   | 28   | 337  |
| 35° | 713 | 547 | 36  | 25   | 29   | 447  |
| 45° | 616 | 394 | 16  | 24   | 30   | 443  |
| 55° | 30  | 8   | 14  | 23   | 28   | 93   |
| 65° | 5   | 6   | 10  | 17   | 22   | 5    |
| 75° | 2   | 3   | 5   | 10   | 13   | 2    |
| 85° | 1   | 1   | 2   | 3    | 3    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1316321

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 |
| 2.5°  | 417.9 | 420.6 | 420.6 | 417.2 | 418.6 | 413.2 | 409.1 | 403.1 | 401.7 | 394.3 | 384.8 |
| 5°    | 458.4 | 457.1 | 457.1 | 454.4 | 455.7 | 453.7 | 451.7 | 450.3 | 446.3 | 440.9 | 435.5 |
| 7.5°  | 459.1 | 460.4 | 461.1 | 460.4 | 463.1 | 461.1 | 461.1 | 461.1 | 458.4 | 455.7 | 450.3 |
| 10°   | 469.9 | 467.9 | 465.8 | 461.1 | 458.4 | 456.4 | 456.4 | 457.1 | 458.4 | 457.1 | 453.7 |
| 12.5° | 547.5 | 540.1 | 536.7 | 525.3 | 516.5 | 501.6 | 484.8 | 471.9 | 460.4 | 456.4 | 453.7 |
| 15°   | 607.0 | 605.6 | 598.8 | 588.0 | 577.2 | 559.7 | 540.1 | 520.5 | 499.6 | 478.0 | 462.5 |
| 17.5° | 642.1 | 639.4 | 632.6 | 621.1 | 608.3 | 592.1 | 576.6 | 561.7 | 541.5 | 517.2 | 492.2 |
| 20°   | 674.5 | 668.4 | 659.6 | 646.1 | 633.3 | 617.8 | 600.9 | 586.7 | 569.8 | 550.9 | 521.9 |
| 22.5° | 703.5 | 698.1 | 683.9 | 665.7 | 652.9 | 638.0 | 623.2 | 609.7 | 594.1 | 572.5 | 546.2 |
| 25°   | 736.6 | 724.4 | 701.5 | 677.8 | 662.3 | 650.2 | 639.4 | 628.6 | 612.4 | 588.7 | 557.7 |
| 27.5° | 752.8 | 735.9 | 710.9 | 687.3 | 672.4 | 659.6 | 648.1 | 637.3 | 619.1 | 590.1 | 554.3 |
| 30°   | 741.3 | 731.9 | 714.3 | 696.1 | 683.9 | 671.8 | 658.3 | 642.1 | 613.0 | 579.3 | 546.2 |
| 32.5° | 727.8 | 723.1 | 715.0 | 704.2 | 696.7 | 684.6 | 665.7 | 639.4 | 598.8 | 565.8 | 530.0 |
| 35°   | 712.9 | 710.9 | 708.2 | 703.5 | 698.8 | 687.3 | 663.7 | 625.2 | 584.7 | 546.9 | 512.4 |
| 37.5° | 697.4 | 695.4 | 697.4 | 696.7 | 692.7 | 677.8 | 642.1 | 606.3 | 564.4 | 525.9 | 459.1 |
| 40°   | 678.5 | 677.2 | 680.5 | 683.9 | 679.2 | 659.6 | 621.1 | 577.9 | 540.8 | 465.2 | 442.2 |
| 42.5° | 656.2 | 655.6 | 661.6 | 664.3 | 657.6 | 628.6 | 583.3 | 551.6 | 473.3 | 449.0 | 395.0 |
| 45°   | 616.4 | 617.8 | 620.5 | 623.8 | 619.8 | 588.0 | 546.9 | 488.8 | 454.4 | 394.3 | 224.8 |
| 47.5° | 482.7 | 484.1 | 497.6 | 525.9 | 545.5 | 534.7 | 499.6 | 456.4 | 406.4 | 225.5 | 70.9  |
| 50°   | 416.6 | 415.2 | 415.9 | 422.6 | 438.2 | 453.0 | 442.2 | 418.6 | 242.4 | 66.2  | 8.8   |
| 52.5° | 183.0 | 203.2 | 224.8 | 285.6 | 324.7 | 365.9 | 374.0 | 262.0 | 79.0  | 8.8   | 8.8   |
| 55°   | 29.7  | 31.1  | 39.2  | 57.4  | 103.3 | 156.0 | 189.0 | 87.8  | 8.1   | 8.1   | 8.1   |
| 57.5° | 6.1   | 6.1   | 6.1   | 6.8   | 10.1  | 21.6  | 25.0  | 7.4   | 7.4   | 7.4   | 8.1   |
| 60°   | 5.4   | 5.4   | 5.4   | 5.4   | 6.1   | 6.1   | 6.1   | 6.8   | 6.8   | 7.4   | 7.4   |
| 62.5° | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 6.1   | 6.1   | 6.8   | 6.8   | 7.4   |
| 65°   | 4.7   | 4.7   | 4.7   | 4.7   | 5.4   | 5.4   | 5.4   | 5.4   | 6.1   | 6.1   | 6.8   |
| 67.5° | 4.1   | 4.1   | 4.1   | 4.1   | 4.7   | 4.7   | 4.7   | 5.4   | 5.4   | 5.4   | 6.1   |
| 70°   | 3.4   | 3.4   | 3.4   | 3.4   | 4.1   | 4.1   | 4.1   | 4.1   | 4.7   | 4.7   | 4.7   |
| 72.5° | 2.7   | 2.7   | 2.7   | 2.7   | 3.4   | 3.4   | 3.4   | 3.4   | 4.1   | 4.1   | 4.1   |
| 75°   | 2.0   | 2.0   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.4   | 3.4   | 3.4   |
| 77.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.7   | 2.7   | 2.7   | 2.7   |
| 80°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 82.5° | 0.7   | 0.7   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.4   | 1.4   | 1.4   | 1.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 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°    | 313.3 | 313.3 | 313.3 | 313.3 | 313.3  | 313.3 | 313.3  | 313.3 |
| 2.5°  | 378.8 | 369.3 | 356.5 | 314.6 | 276.1  | 241.0 | 223.5  | 221.4 |
| 5°    | 426.7 | 417.9 | 396.3 | 313.3 | 239.7  | 187.0 | 155.3  | 146.5 |
| 7.5°  | 444.9 | 437.5 | 418.6 | 310.6 | 205.2  | 134.4 | 98.6   | 85.1  |
| 10°   | 449.6 | 444.9 | 428.7 | 305.8 | 169.5  | 88.4  | 46.6   | 35.8  |
| 12.5° | 451.7 | 448.3 | 432.8 | 298.4 | 133.7  | 45.9  | 31.7   | 31.7  |
| 15°   | 455.0 | 451.7 | 436.8 | 289.0 | 98.6   | 31.1  | 30.4   | 30.4  |
| 17.5° | 469.9 | 459.1 | 442.2 | 274.8 | 64.8   | 29.7  | 29.7   | 29.7  |
| 20°   | 494.2 | 470.6 | 444.9 | 255.9 | 40.5   | 29.0  | 29.0   | 29.7  |
| 22.5° | 514.5 | 482.7 | 444.2 | 227.5 | 29.7   | 27.7  | 28.4   | 29.0  |
| 25°   | 523.2 | 488.1 | 438.2 | 193.8 | 25.7   | 27.0  | 28.4   | 28.4  |
| 27.5° | 521.9 | 490.2 | 432.8 | 155.3 | 24.3   | 26.3  | 27.7   | 29.0  |
| 30°   | 514.5 | 484.8 | 420.6 | 114.8 | 23.0   | 25.7  | 27.7   | 29.0  |
| 32.5° | 501.6 | 463.8 | 396.3 | 74.3  | 22.3   | 25.7  | 27.7   | 29.0  |
| 35°   | 459.8 | 430.1 | 361.2 | 35.8  | 21.6   | 25.0  | 28.4   | 29.0  |
| 37.5° | 435.5 | 394.3 | 275.5 | 17.6  | 20.9   | 25.0  | 28.4   | 29.0  |
| 40°   | 396.3 | 294.4 | 124.2 | 16.2  | 20.9   | 25.0  | 28.4   | 29.7  |
| 42.5° | 249.1 | 120.9 | 20.3  | 15.5  | 20.3   | 25.0  | 28.4   | 29.7  |
| 45°   | 91.1  | 16.2  | 10.8  | 15.5  | 20.3   | 24.3  | 28.4   | 29.7  |
| 47.5° | 9.5   | 9.5   | 10.1  | 14.9  | 19.6   | 24.3  | 28.4   | 29.7  |
| 50°   | 8.8   | 9.5   | 10.1  | 14.2  | 18.9   | 24.3  | 27.7   | 29.7  |
| 52.5° | 8.8   | 9.5   | 10.1  | 14.2  | 18.2   | 23.6  | 27.7   | 29.7  |
| 55°   | 8.8   | 9.5   | 9.5   | 13.5  | 17.6   | 23.0  | 27.0   | 28.4  |
| 57.5° | 8.1   | 8.8   | 9.5   | 12.8  | 16.9   | 21.6  | 26.3   | 27.7  |
| 60°   | 8.1   | 8.8   | 9.5   | 11.5  | 16.2   | 20.3  | 25.0   | 25.7  |
| 62.5° | 7.4   | 8.1   | 8.8   | 10.8  | 14.9   | 18.9  | 23.0   | 24.3  |
| 65°   | 7.4   | 7.4   | 8.1   | 9.5   | 13.5   | 16.9  | 20.9   | 22.3  |
| 67.5° | 6.1   | 6.8   | 6.8   | 8.1   | 11.5   | 14.9  | 18.9   | 20.3  |
| 70°   | 5.4   | 5.4   | 6.1   | 7.4   | 10.1   | 12.8  | 16.2   | 17.6  |
| 72.5° | 4.7   | 4.7   | 4.7   | 6.1   | 8.8    | 11.5  | 14.2   | 15.5  |
| 75°   | 4.1   | 4.1   | 4.1   | 4.7   | 7.4    | 9.5   | 12.2   | 12.8  |
| 77.5° | 3.4   | 3.4   | 3.4   | 4.1   | 6.1    | 8.1   | 9.5    | 10.8  |
| 80°   | 2.7   | 2.7   | 2.7   | 3.4   | 4.7    | 6.1   | 7.4    | 8.1   |
| 82.5° | 2.0   | 2.0   | 2.0   | 2.7   | 3.4    | 4.1   | 5.4    | 5.4   |
| 85°   | 1.4   | 1.4   | 1.4   | 2.0   | 2.0    | 2.7   | 3.4    | 3.4   |
| 87.5° | 0.7   | 0.7   | 0.7   | 1.4   | 1.4    | 1.4   | 1.4    | 1.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)