

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: P1245932

Luminaire Tested: P3A02R709024DE010 E3LSWW1H

Issue Date: 1/29/2026

**Test Information**

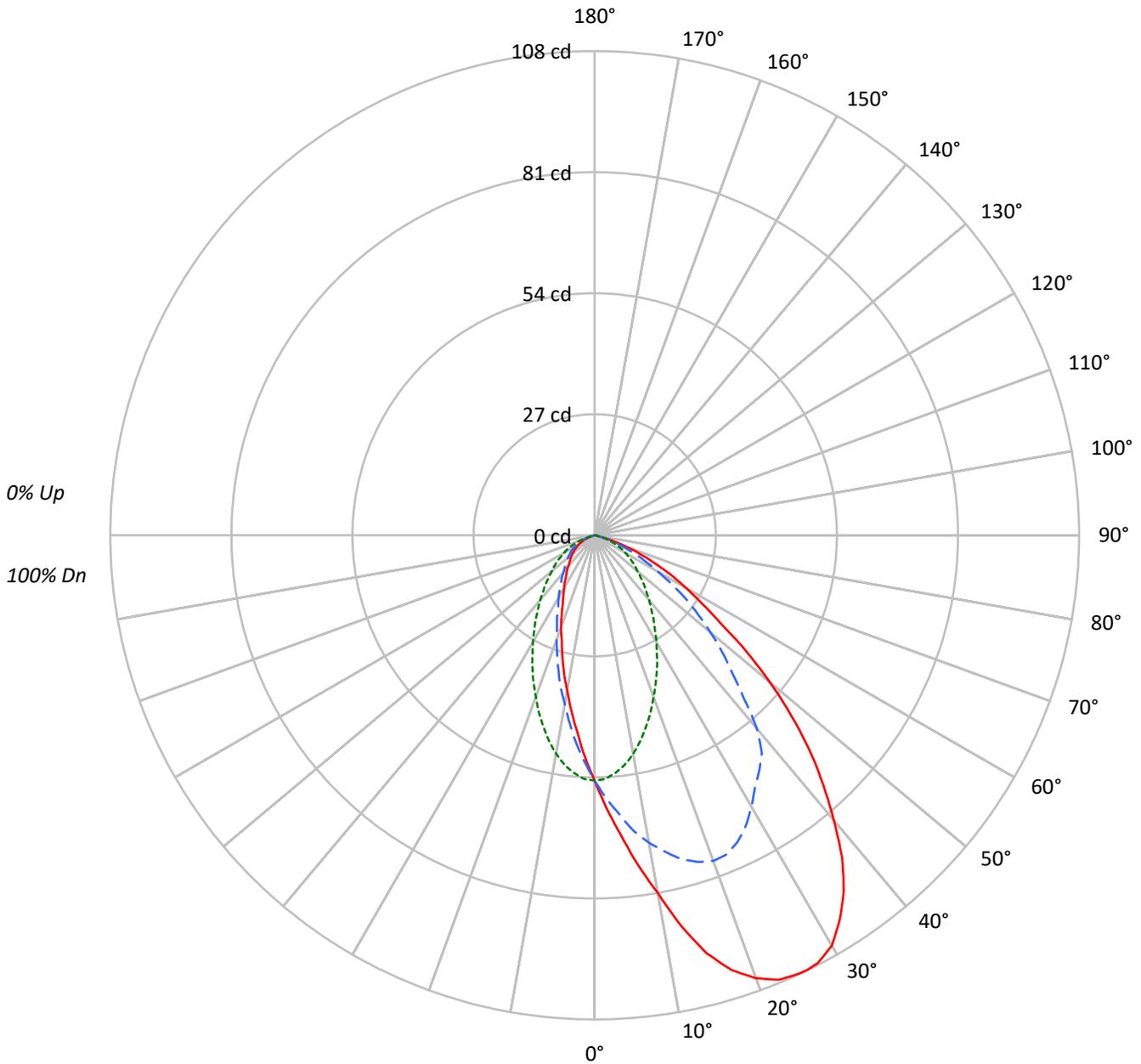
Test Method: LM-79-2019  
Report Number: P1245932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R709024DE010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 109.0 lumens  
Efficiency: N/A  
Efficacy: 30.3 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): 3.6  
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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CATALOG NUMBER: P3A02R709024DE010 E3LSWW1H

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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 | 100 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  | 89  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 81  | 85  | 82  | 80  | 78  | 78  | 78  | 78  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  | 68  | 68  | 68  |
| 4   | 88  | 78  | 70  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 60  | 60  | 60  | 60  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 62  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  | 53  | 53  | 53  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 51  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  | 47  | 47  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  | 43  | 43  | 43  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  | 39  | 39  | 39  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  | 35  | 35  | 35  |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  | 32  | 32  | 32  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 11995 | 11995 | 11995 | 11995 | 11995 |
| 5°  | 14770 | 13735 | 11710 | 10280 | 9729  |
| 10° | 18036 | 15497 | 11022 | 8528  | 7838  |
| 15° | 21907 | 16981 | 10034 | 7083  | 6311  |
| 20° | 24525 | 18038 | 8937  | 5764  | 5110  |
| 25° | 26106 | 18243 | 7936  | 4791  | 4041  |
| 30° | 26764 | 17699 | 6963  | 4077  | 3444  |
| 35° | 25913 | 17132 | 6130  | 3480  | 2971  |
| 40° | 23730 | 16116 | 5410  | 3092  | 2662  |
| 45° | 20994 | 13428 | 4807  | 2884  | 2388  |
| 50° | 17398 | 11496 | 4230  | 2627  | 2217  |
| 55° | 13113 | 9558  | 3900  | 2485  | 2026  |
| 60° | 10306 | 7192  | 3508  | 2324  | 1754  |
| 65° | 7679  | 5292  | 3061  | 1920  | 1453  |
| 70° | 4937  | 3398  | 2180  | 1410  | 769   |
| 75° | 2118  | 1864  | 1017  | 508   | 254   |
| 80° | 379   | 379   | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20994 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.2    | 4.8       |
| 10°-20°   | 14.9   | 13.7      |
| 20°-30°   | 21.8   | 20.0      |
| 30°-40°   | 23.8   | 21.8      |
| 40°-50°   | 20.6   | 18.9      |
| 50°-60°   | 13.8   | 12.7      |
| 60°-70°   | 7.1    | 6.5       |
| 70°-80°   | 1.7    | 1.5       |
| 80°-90°   | 0.0    | 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°    | 42.0   | 38.5      |
| 0°-40°    | 65.8   | 60.3      |
| 0°-60°    | 100.2  | 91.9      |
| 0°-90°    | 109.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 109.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 55  | 55  | 55  | 55   | 55   |      |
| 5°  | 67  | 62  | 53  | 47   | 44   | 7    |
| 15° | 96  | 75  | 44  | 31   | 28   | 27   |
| 25° | 108 | 75  | 33  | 20   | 17   | 50   |
| 35° | 97  | 64  | 23  | 13   | 11   | 60   |
| 45° | 68  | 43  | 16  | 9    | 8    | 52   |
| 55° | 34  | 25  | 10  | 6    | 5    | 32   |
| 65° | 15  | 10  | 6   | 4    | 3    | 15   |
| 75° | 2   | 2   | 1   | 1    | 0    | 3    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 0°    | 54.7  | 54.7  | 54.7  | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 |
| 2.5°  | 60.9  | 60.6  | 60.6  | 60.0 | 59.4 | 58.7 | 57.8 | 56.9 | 56.0 | 55.0 | 54.4 |
| 5°    | 67.1  | 67.4  | 67.1  | 65.8 | 64.3 | 62.4 | 60.6 | 58.4 | 56.3 | 54.4 | 53.2 |
| 7.5°  | 74.2  | 74.2  | 73.3  | 71.7 | 69.6 | 66.5 | 63.4 | 59.7 | 56.3 | 53.2 | 51.6 |
| 10°   | 81.0  | 81.0  | 79.5  | 77.0 | 73.6 | 69.6 | 65.2 | 60.3 | 55.6 | 51.3 | 49.5 |
| 12.5° | 89.3  | 89.0  | 87.2  | 83.2 | 78.2 | 72.3 | 66.5 | 60.3 | 54.7 | 49.5 | 47.0 |
| 15°   | 96.5  | 96.1  | 93.7  | 88.7 | 82.2 | 74.8 | 66.8 | 59.7 | 52.9 | 47.0 | 44.2 |
| 17.5° | 101.7 | 101.1 | 98.3  | 93.1 | 85.6 | 76.4 | 67.1 | 58.4 | 50.7 | 44.2 | 41.4 |
| 20°   | 105.1 | 104.8 | 101.7 | 95.5 | 87.5 | 77.3 | 66.8 | 56.9 | 48.5 | 41.4 | 38.3 |
| 22.5° | 107.3 | 106.7 | 103.6 | 96.8 | 87.5 | 77.0 | 65.5 | 54.7 | 45.8 | 38.6 | 35.6 |
| 25°   | 107.9 | 107.6 | 103.9 | 96.5 | 86.6 | 75.4 | 63.7 | 52.6 | 43.0 | 35.9 | 32.8 |
| 26°   | 107.9 | 107.6 | 103.9 | 96.1 | 85.9 | 74.5 | 62.8 | 51.6 | 42.0 | 34.6 | 31.8 |
| 27.5° | 107.6 | 107.3 | 103.3 | 95.2 | 84.7 | 73.0 | 60.9 | 49.8 | 40.2 | 33.1 | 30.0 |
| 30°   | 105.7 | 105.1 | 101.1 | 93.1 | 81.9 | 69.9 | 57.8 | 47.0 | 37.4 | 30.3 | 27.5 |
| 32.5° | 101.7 | 101.1 | 96.8  | 89.3 | 78.8 | 66.5 | 54.4 | 43.9 | 34.6 | 27.5 | 25.0 |
| 35°   | 96.8  | 96.1  | 91.8  | 84.7 | 74.5 | 64.0 | 50.7 | 40.5 | 31.5 | 25.4 | 22.9 |
| 37.5° | 90.6  | 89.7  | 85.9  | 78.5 | 69.3 | 61.2 | 47.6 | 37.1 | 28.8 | 22.9 | 20.7 |
| 40°   | 82.9  | 82.5  | 79.1  | 72.3 | 63.1 | 56.3 | 45.8 | 37.1 | 26.3 | 20.7 | 18.9 |
| 42.5° | 75.4  | 74.8  | 71.7  | 65.8 | 57.5 | 49.2 | 40.2 | 35.6 | 24.4 | 18.5 | 17.0 |
| 45°   | 67.7  | 67.1  | 64.3  | 59.4 | 51.6 | 43.3 | 43.3 | 30.6 | 21.0 | 17.0 | 15.5 |
| 47.5° | 59.4  | 58.7  | 56.6  | 52.9 | 46.1 | 38.6 | 31.5 | 25.0 | 19.2 | 15.1 | 13.9 |
| 50°   | 51.0  | 51.3  | 49.5  | 45.8 | 40.5 | 33.7 | 27.2 | 21.0 | 16.4 | 13.6 | 12.4 |
| 52.5° | 42.7  | 42.4  | 41.1  | 38.6 | 34.9 | 29.1 | 23.2 | 17.9 | 14.2 | 12.1 | 11.4 |
| 55°   | 34.3  | 34.6  | 34.0  | 32.5 | 29.4 | 25.0 | 19.5 | 15.5 | 12.7 | 10.8 | 10.2 |
| 57.5° | 28.4  | 28.8  | 27.5  | 26.6 | 24.1 | 20.4 | 16.1 | 13.0 | 10.8 | 9.6  | 9.0  |
| 60°   | 23.5  | 23.8  | 22.9  | 21.6 | 19.8 | 16.4 | 13.0 | 10.8 | 9.6  | 8.7  | 8.0  |
| 62.5° | 19.2  | 18.9  | 18.2  | 17.0 | 15.5 | 13.0 | 10.5 | 9.0  | 8.0  | 7.4  | 7.1  |
| 65°   | 14.8  | 14.8  | 14.2  | 13.3 | 12.1 | 10.2 | 8.3  | 7.4  | 6.8  | 6.2  | 5.9  |
| 67.5° | 11.1  | 11.1  | 10.5  | 9.9  | 8.7  | 7.4  | 6.5  | 5.9  | 5.6  | 4.9  | 4.6  |
| 70°   | 7.7   | 7.7   | 7.4   | 7.1  | 6.2  | 5.3  | 4.9  | 4.3  | 4.0  | 3.7  | 3.4  |
| 72.5° | 4.9   | 4.9   | 4.9   | 4.3  | 4.0  | 3.4  | 3.4  | 3.1  | 2.8  | 2.5  | 2.5  |
| 75°   | 2.5   | 2.8   | 2.5   | 2.5  | 2.2  | 2.2  | 1.9  | 1.9  | 1.5  | 1.5  | 1.2  |
| 77.5° | 0.9   | 0.9   | 0.9   | 0.9  | 0.9  | 0.9  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  |
| 80°   | 0.3   | 0.3   | 0.3   | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 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  |



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**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 |
| 2.5°  | 53.8 | 52.9 | 52.2 | 51.3 | 50.7 | 50.1 | 49.8 | 49.5 | 49.5 | 49.5 |
| 5°    | 52.2 | 50.7 | 49.2 | 47.6 | 46.7 | 45.8 | 44.8 | 44.5 | 44.2 | 44.2 |
| 7.5°  | 50.4 | 47.9 | 45.8 | 43.9 | 42.4 | 41.4 | 40.5 | 39.9 | 39.6 | 39.6 |
| 10°   | 47.9 | 44.8 | 42.4 | 39.9 | 38.3 | 37.1 | 36.5 | 35.6 | 35.6 | 35.2 |
| 12.5° | 45.1 | 41.4 | 38.6 | 36.5 | 34.9 | 33.4 | 32.5 | 31.8 | 31.5 | 31.5 |
| 15°   | 42.0 | 38.3 | 35.2 | 32.8 | 31.2 | 29.7 | 28.8 | 28.1 | 27.8 | 27.8 |
| 17.5° | 39.0 | 34.9 | 31.8 | 29.4 | 27.8 | 26.3 | 25.4 | 24.7 | 24.7 | 24.4 |
| 20°   | 35.9 | 31.8 | 28.8 | 26.3 | 24.7 | 23.5 | 22.6 | 21.9 | 21.6 | 21.9 |
| 22.5° | 33.1 | 29.1 | 26.0 | 23.8 | 21.9 | 20.7 | 19.8 | 19.5 | 19.2 | 19.2 |
| 25°   | 30.0 | 26.3 | 23.5 | 21.3 | 19.8 | 18.5 | 17.6 | 17.3 | 17.0 | 16.7 |
| 26°   | 29.1 | 25.4 | 22.6 | 20.4 | 18.9 | 17.6 | 17.0 | 16.4 | 16.1 | 16.1 |
| 27.5° | 27.8 | 23.8 | 21.3 | 19.2 | 17.6 | 16.7 | 15.8 | 15.5 | 15.1 | 15.1 |
| 30°   | 25.0 | 21.6 | 19.2 | 17.3 | 16.1 | 14.8 | 14.2 | 13.9 | 13.6 | 13.6 |
| 32.5° | 22.9 | 19.5 | 17.3 | 15.8 | 14.5 | 13.6 | 13.0 | 12.4 | 12.4 | 12.4 |
| 35°   | 20.7 | 17.6 | 15.8 | 14.2 | 13.0 | 12.1 | 11.7 | 11.4 | 11.1 | 11.1 |
| 37.5° | 18.9 | 16.1 | 14.2 | 13.0 | 12.1 | 11.1 | 10.5 | 10.2 | 10.2 | 10.2 |
| 40°   | 17.0 | 14.8 | 13.0 | 11.7 | 10.8 | 10.2 | 9.6  | 9.3  | 9.3  | 9.3  |
| 42.5° | 15.5 | 13.3 | 12.1 | 10.8 | 9.9  | 9.3  | 9.0  | 8.7  | 8.3  | 8.3  |
| 45°   | 14.2 | 12.4 | 10.8 | 9.9  | 9.3  | 8.7  | 8.0  | 7.7  | 7.7  | 7.7  |
| 47.5° | 12.7 | 11.4 | 9.9  | 9.0  | 8.3  | 7.7  | 7.4  | 7.1  | 7.1  | 7.1  |
| 50°   | 11.7 | 10.5 | 9.3  | 8.3  | 7.7  | 7.1  | 6.8  | 6.5  | 6.5  | 6.5  |
| 52.5° | 10.5 | 9.6  | 8.7  | 7.7  | 7.1  | 6.5  | 6.2  | 5.9  | 5.9  | 5.9  |
| 55°   | 9.6  | 8.7  | 7.7  | 7.1  | 6.5  | 5.9  | 5.6  | 5.3  | 5.3  | 5.3  |
| 57.5° | 8.7  | 7.7  | 7.1  | 6.5  | 5.9  | 5.6  | 4.9  | 4.9  | 4.6  | 4.6  |
| 60°   | 7.7  | 6.8  | 6.2  | 5.9  | 5.3  | 4.9  | 4.3  | 4.0  | 4.0  | 4.0  |
| 62.5° | 6.5  | 6.2  | 5.6  | 4.9  | 4.3  | 4.0  | 3.7  | 3.4  | 3.4  | 3.4  |
| 65°   | 5.6  | 5.3  | 4.6  | 4.0  | 3.7  | 3.4  | 3.1  | 2.8  | 2.8  | 2.8  |
| 67.5° | 4.6  | 4.0  | 3.7  | 3.4  | 3.1  | 2.8  | 2.5  | 2.2  | 1.9  | 2.2  |
| 70°   | 3.4  | 3.1  | 2.8  | 2.5  | 2.2  | 1.9  | 1.5  | 1.5  | 1.2  | 1.2  |
| 72.5° | 2.2  | 1.9  | 1.9  | 1.5  | 1.2  | 1.2  | 0.9  | 0.9  | 0.6  | 0.6  |
| 75°   | 1.2  | 1.2  | 0.9  | 0.9  | 0.6  | 0.6  | 0.3  | 0.3  | 0.3  | 0.3  |
| 77.5° | 0.6  | 0.3  | 0.3  | 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)