

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: P1247510

Luminaire Tested: P3A17R709024DE010 E3LSWW1H

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1247510  
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: P3A17R709024DE010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

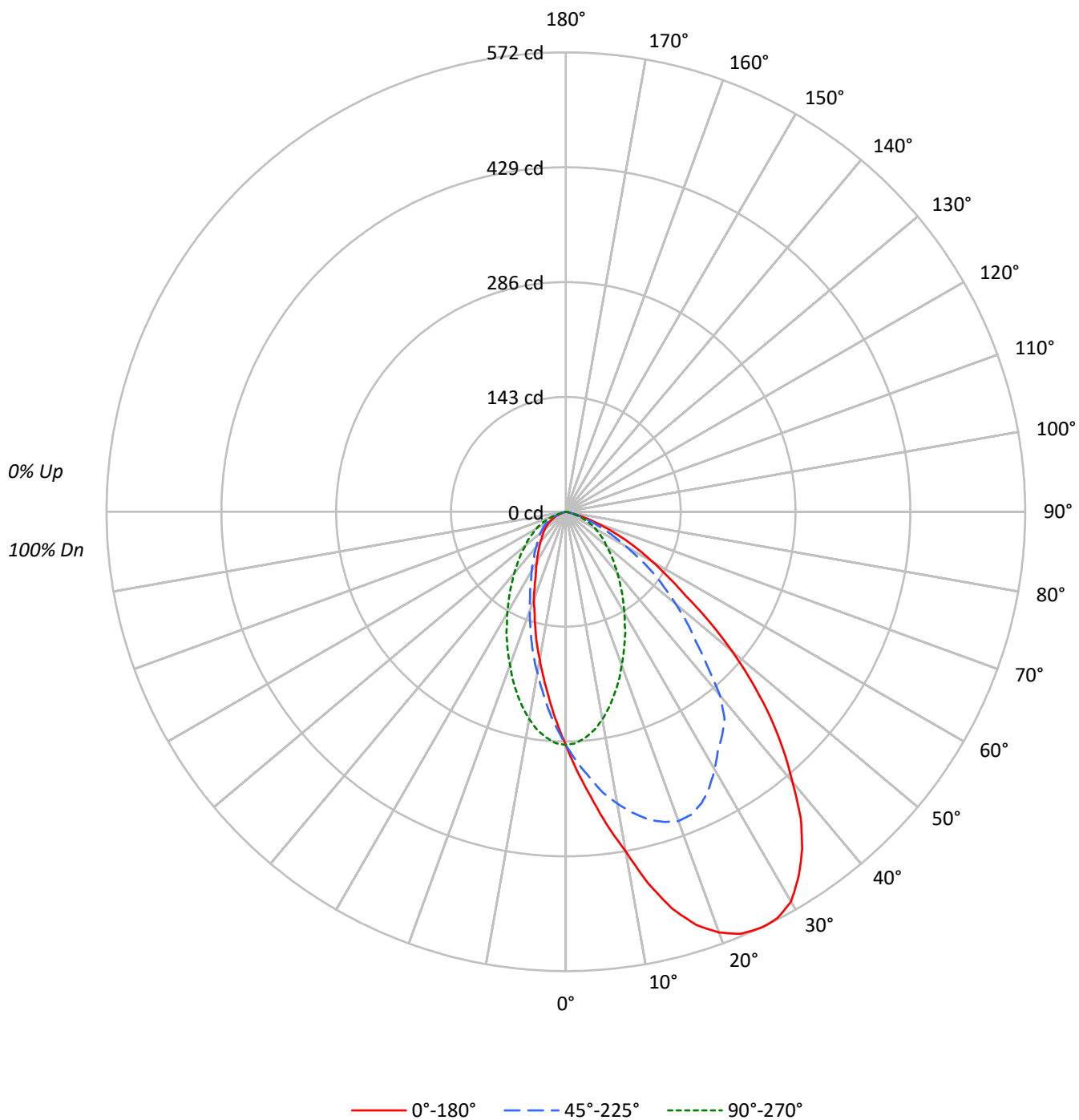
Lumens per Lamp: N/A  
Luminaire Lumens: 578.0 lumens  
Efficiency: N/A  
Efficacy: 27.3 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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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### Luminous Intensity Polar Plot



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

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 63635  | 63635 | 63635 | 63635 | 63635 |
| 5°  | 78296  | 72903 | 62073 | 54479 | 51596 |
| 10° | 95634  | 82141 | 58405 | 45267 | 41616 |
| 15° | 116119 | 90057 | 53213 | 37594 | 33485 |
| 20° | 130071 | 95628 | 47441 | 30593 | 27162 |
| 25° | 138419 | 96780 | 42051 | 25380 | 21413 |
| 30° | 141971 | 93812 | 36942 | 21573 | 18256 |
| 35° | 137353 | 90828 | 32471 | 18444 | 15794 |
| 40° | 125750 | 85417 | 28625 | 16431 | 14084 |
| 45° | 111329 | 71170 | 25429 | 15257 | 12714 |
| 50° | 92278  | 60962 | 22379 | 13987 | 11735 |
| 55° | 69579  | 50770 | 20683 | 13151 | 10666 |
| 60° | 54645  | 38111 | 18683 | 12236 | 9341  |
| 65° | 40834  | 28070 | 16137 | 10222 | 7679  |
| 70° | 26286  | 17888 | 11540 | 7373  | 4231  |
| 75° | 11099  | 9743  | 5592  | 2796  | 1356  |
| 80° | 2020   | 2020  | 0     | 0     | 0     |
| 85° | 0      | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 111329 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.5   | 4.8       |
| 10°-20°   | 79.2   | 13.7      |
| 20°-30°   | 115.8  | 20.0      |
| 30°-40°   | 126.2  | 21.8      |
| 40°-50°   | 109.2  | 18.9      |
| 50°-60°   | 73.2   | 12.7      |
| 60°-70°   | 37.8   | 6.5       |
| 70°-80°   | 8.9    | 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°    | 222.6  | 38.5      |
| 0°-40°    | 348.8  | 60.3      |
| 0°-60°    | 531.2  | 91.9      |
| 0°-90°    | 578.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 578.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 290 | 290 | 290 | 290  | 290  |      |
| 5°  | 356 | 331 | 282 | 248  | 234  | 36   |
| 15° | 512 | 397 | 234 | 166  | 148  | 145  |
| 25° | 572 | 400 | 174 | 105  | 88   | 263  |
| 35° | 513 | 339 | 121 | 69   | 59   | 318  |
| 45° | 359 | 230 | 82  | 49   | 41   | 275  |
| 55° | 182 | 133 | 54  | 34   | 28   | 168  |
| 65° | 79  | 54  | 31  | 20   | 15   | 79   |
| 75° | 13  | 12  | 7   | 3    | 2    | 17   |
| 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°    | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 |
| 2.5°  | 323.0 | 321.3 | 321.3 | 318.0 | 314.8 | 311.5 | 306.6 | 301.6 | 296.7 | 291.8 | 288.5 |
| 5°    | 355.7 | 357.4 | 355.7 | 349.2 | 341.0 | 331.2 | 321.3 | 309.8 | 298.4 | 288.5 | 282.0 |
| 7.5°  | 393.4 | 393.4 | 388.5 | 380.3 | 368.9 | 352.5 | 336.1 | 316.4 | 298.4 | 282.0 | 273.8 |
| 10°   | 429.5 | 429.5 | 421.3 | 408.2 | 390.2 | 368.9 | 345.9 | 319.7 | 295.1 | 272.1 | 262.3 |
| 12.5° | 473.8 | 472.1 | 462.3 | 441.0 | 414.8 | 383.6 | 352.5 | 319.7 | 290.2 | 262.3 | 249.2 |
| 15°   | 511.5 | 509.8 | 496.7 | 470.5 | 436.1 | 396.7 | 354.1 | 316.4 | 280.3 | 249.2 | 234.4 |
| 17.5° | 539.3 | 536.1 | 521.3 | 493.4 | 454.1 | 404.9 | 355.7 | 309.8 | 268.9 | 234.4 | 219.7 |
| 20°   | 557.4 | 555.7 | 539.3 | 506.6 | 463.9 | 409.8 | 354.1 | 301.6 | 257.4 | 219.7 | 203.3 |
| 22.5° | 568.9 | 565.6 | 549.2 | 513.1 | 463.9 | 408.2 | 347.5 | 290.2 | 242.6 | 204.9 | 188.5 |
| 25°   | 572.1 | 570.5 | 550.8 | 511.5 | 459.0 | 400.0 | 337.7 | 278.7 | 227.9 | 190.2 | 173.8 |
| 26°   | 572.1 | 570.5 | 550.8 | 509.8 | 455.7 | 395.1 | 332.8 | 273.8 | 223.0 | 183.6 | 168.9 |
| 27.5° | 570.5 | 568.9 | 547.5 | 504.9 | 449.2 | 386.9 | 323.0 | 263.9 | 213.1 | 175.4 | 159.0 |
| 30°   | 560.7 | 557.4 | 536.1 | 493.4 | 434.4 | 370.5 | 306.6 | 249.2 | 198.4 | 160.7 | 145.9 |
| 32.5° | 539.3 | 536.1 | 513.1 | 473.8 | 418.0 | 352.5 | 288.5 | 232.8 | 183.6 | 145.9 | 132.8 |
| 35°   | 513.1 | 509.8 | 486.9 | 449.2 | 395.1 | 339.3 | 268.9 | 214.8 | 167.2 | 134.4 | 121.3 |
| 37.5° | 480.3 | 475.4 | 455.7 | 416.4 | 367.2 | 324.6 | 252.5 | 196.7 | 152.5 | 121.3 | 109.8 |
| 40°   | 439.3 | 437.7 | 419.7 | 383.6 | 334.4 | 298.4 | 242.6 | 196.7 | 139.3 | 109.8 | 100.0 |
| 42.5° | 400.0 | 396.7 | 380.3 | 349.2 | 304.9 | 260.7 | 213.1 | 188.5 | 129.5 | 98.4  | 90.2  |
| 45°   | 359.0 | 355.7 | 341.0 | 314.8 | 273.8 | 229.5 | 229.5 | 162.3 | 111.5 | 90.2  | 82.0  |
| 47.5° | 314.8 | 311.5 | 300.0 | 280.3 | 244.3 | 204.9 | 167.2 | 132.8 | 101.6 | 80.3  | 73.8  |
| 50°   | 270.5 | 272.1 | 262.3 | 242.6 | 214.8 | 178.7 | 144.3 | 111.5 | 86.9  | 72.1  | 65.6  |
| 52.5° | 226.2 | 224.6 | 218.0 | 204.9 | 185.2 | 154.1 | 123.0 | 95.1  | 75.4  | 63.9  | 60.7  |
| 55°   | 182.0 | 183.6 | 180.3 | 172.1 | 155.7 | 132.8 | 103.3 | 82.0  | 67.2  | 57.4  | 54.1  |
| 57.5° | 150.8 | 152.5 | 145.9 | 141.0 | 127.9 | 108.2 | 85.2  | 68.9  | 57.4  | 50.8  | 47.5  |
| 60°   | 124.6 | 126.2 | 121.3 | 114.8 | 104.9 | 86.9  | 68.9  | 57.4  | 50.8  | 45.9  | 42.6  |
| 62.5° | 101.6 | 100.0 | 96.7  | 90.2  | 82.0  | 68.9  | 55.7  | 47.5  | 42.6  | 39.3  | 37.7  |
| 65°   | 78.7  | 78.7  | 75.4  | 70.5  | 63.9  | 54.1  | 44.3  | 39.3  | 36.1  | 32.8  | 31.1  |
| 67.5° | 59.0  | 59.0  | 55.7  | 52.5  | 45.9  | 39.3  | 34.4  | 31.1  | 29.5  | 26.2  | 24.6  |
| 70°   | 41.0  | 41.0  | 39.3  | 37.7  | 32.8  | 27.9  | 26.2  | 23.0  | 21.3  | 19.7  | 18.0  |
| 72.5° | 26.2  | 26.2  | 26.2  | 23.0  | 21.3  | 18.0  | 18.0  | 16.4  | 14.8  | 13.1  | 13.1  |
| 75°   | 13.1  | 14.8  | 13.1  | 13.1  | 11.5  | 11.5  | 9.8   | 9.8   | 8.2   | 8.2   | 6.6   |
| 77.5° | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   |
| 80°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 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°    | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 | 290.2 |
| 2.5°  | 285.2 | 280.3 | 277.1 | 272.1 | 268.9 | 265.6 | 263.9 | 262.3 | 262.3 | 262.3 |
| 5°    | 277.1 | 268.9 | 260.7 | 252.5 | 247.5 | 242.6 | 237.7 | 236.1 | 234.4 | 234.4 |
| 7.5°  | 267.2 | 254.1 | 242.6 | 232.8 | 224.6 | 219.7 | 214.8 | 211.5 | 209.8 | 209.8 |
| 10°   | 254.1 | 237.7 | 224.6 | 211.5 | 203.3 | 196.7 | 193.4 | 188.5 | 188.5 | 186.9 |
| 12.5° | 239.3 | 219.7 | 204.9 | 193.4 | 185.2 | 177.1 | 172.1 | 168.9 | 167.2 | 167.2 |
| 15°   | 223.0 | 203.3 | 186.9 | 173.8 | 165.6 | 157.4 | 152.5 | 149.2 | 147.5 | 147.5 |
| 17.5° | 206.6 | 185.2 | 168.9 | 155.7 | 147.5 | 139.3 | 134.4 | 131.1 | 131.1 | 129.5 |
| 20°   | 190.2 | 168.9 | 152.5 | 139.3 | 131.1 | 124.6 | 119.7 | 116.4 | 114.8 | 116.4 |
| 22.5° | 175.4 | 154.1 | 137.7 | 126.2 | 116.4 | 109.8 | 104.9 | 103.3 | 101.6 | 101.6 |
| 25°   | 159.0 | 139.3 | 124.6 | 113.1 | 104.9 | 98.4  | 93.4  | 91.8  | 90.2  | 88.5  |
| 26°   | 154.1 | 134.4 | 119.7 | 108.2 | 100.0 | 93.4  | 90.2  | 86.9  | 85.2  | 85.2  |
| 27.5° | 147.5 | 126.2 | 113.1 | 101.6 | 93.4  | 88.5  | 83.6  | 82.0  | 80.3  | 80.3  |
| 30°   | 132.8 | 114.8 | 101.6 | 91.8  | 85.2  | 78.7  | 75.4  | 73.8  | 72.1  | 72.1  |
| 32.5° | 121.3 | 103.3 | 91.8  | 83.6  | 77.0  | 72.1  | 68.9  | 65.6  | 65.6  | 65.6  |
| 35°   | 109.8 | 93.4  | 83.6  | 75.4  | 68.9  | 63.9  | 62.3  | 60.7  | 59.0  | 59.0  |
| 37.5° | 100.0 | 85.2  | 75.4  | 68.9  | 63.9  | 59.0  | 55.7  | 54.1  | 54.1  | 54.1  |
| 40°   | 90.2  | 78.7  | 68.9  | 62.3  | 57.4  | 54.1  | 50.8  | 49.2  | 49.2  | 49.2  |
| 42.5° | 82.0  | 70.5  | 63.9  | 57.4  | 52.5  | 49.2  | 47.5  | 45.9  | 44.3  | 44.3  |
| 45°   | 75.4  | 65.6  | 57.4  | 52.5  | 49.2  | 45.9  | 42.6  | 41.0  | 41.0  | 41.0  |
| 47.5° | 67.2  | 60.7  | 52.5  | 47.5  | 44.3  | 41.0  | 39.3  | 37.7  | 37.7  | 37.7  |
| 50°   | 62.3  | 55.7  | 49.2  | 44.3  | 41.0  | 37.7  | 36.1  | 34.4  | 34.4  | 34.4  |
| 52.5° | 55.7  | 50.8  | 45.9  | 41.0  | 37.7  | 34.4  | 32.8  | 31.1  | 31.1  | 31.1  |
| 55°   | 50.8  | 45.9  | 41.0  | 37.7  | 34.4  | 31.1  | 29.5  | 27.9  | 27.9  | 27.9  |
| 57.5° | 45.9  | 41.0  | 37.7  | 34.4  | 31.1  | 29.5  | 26.2  | 26.2  | 24.6  | 24.6  |
| 60°   | 41.0  | 36.1  | 32.8  | 31.1  | 27.9  | 26.2  | 23.0  | 21.3  | 21.3  | 21.3  |
| 62.5° | 34.4  | 32.8  | 29.5  | 26.2  | 23.0  | 21.3  | 19.7  | 18.0  | 18.0  | 18.0  |
| 65°   | 29.5  | 27.9  | 24.6  | 21.3  | 19.7  | 18.0  | 16.4  | 14.8  | 14.8  | 14.8  |
| 67.5° | 24.6  | 21.3  | 19.7  | 18.0  | 16.4  | 14.8  | 13.1  | 11.5  | 9.8   | 11.5  |
| 70°   | 18.0  | 16.4  | 14.8  | 13.1  | 11.5  | 9.8   | 8.2   | 8.2   | 6.6   | 6.6   |
| 72.5° | 11.5  | 9.8   | 9.8   | 8.2   | 6.6   | 6.6   | 4.9   | 4.9   | 3.3   | 3.3   |
| 75°   | 6.6   | 6.6   | 4.9   | 4.9   | 3.3   | 3.3   | 1.6   | 1.6   | 1.6   | 1.6   |
| 77.5° | 3.3   | 1.6   | 1.6   | 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)