

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: P1445553

Luminaire Tested: P3ART13R709024DE010 E3LSWW1H

Issue Date: 5/8/2026

**Test Information**

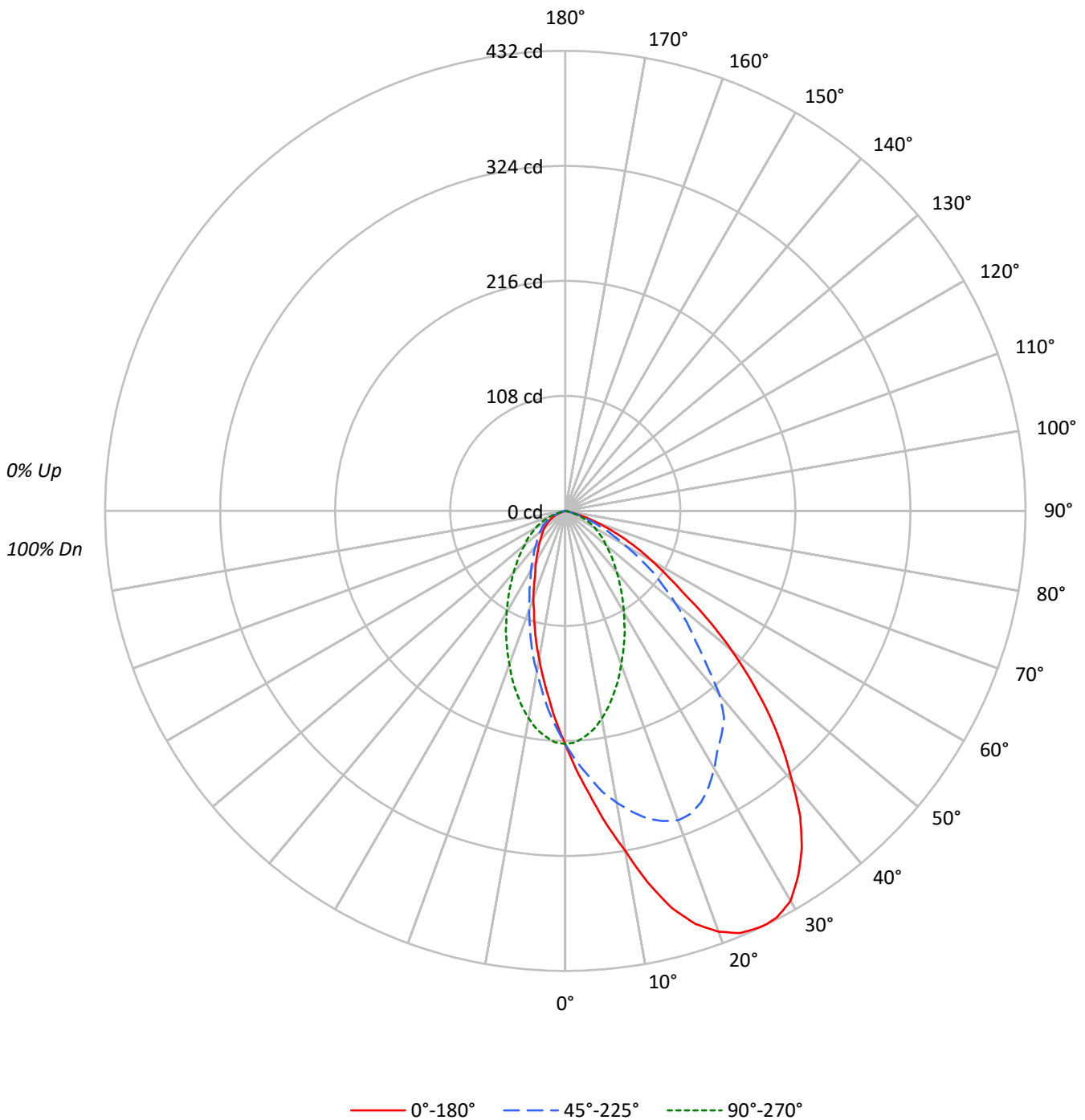
Test Method: LM-79-2019  
Report Number: P1445553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709024DE010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 436.0 lumens  
Efficiency: N/A  
Efficacy: 29.9 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): 14.6  
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

TEST NUMBER: P1445553  
CATALOG NUMBER: P3ART13R709024DE010 E3LSWW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P1445553  
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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 |
| 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°  | 48001  | 48001 | 48001 | 48001 | 48001 |
| 5°  | 59058  | 54986 | 46819 | 41096 | 38917 |
| 10° | 72143  | 61945 | 44065 | 34134 | 31396 |
| 15° | 87583  | 67946 | 40136 | 28354 | 25267 |
| 20° | 98102  | 72153 | 35773 | 23079 | 20488 |
| 25° | 104425 | 72996 | 31720 | 19138 | 16162 |
| 30° | 107080 | 70770 | 27878 | 16281 | 13774 |
| 35° | 103624 | 68529 | 24494 | 13893 | 11912 |
| 40° | 94863  | 64435 | 21583 | 12395 | 10620 |
| 45° | 83978  | 53680 | 19165 | 11505 | 9582  |
| 50° | 69593  | 45986 | 16886 | 10541 | 8870  |
| 55° | 52490  | 38307 | 15598 | 9940  | 8028  |
| 60° | 41225  | 28726 | 14122 | 9210  | 7061  |
| 65° | 30820  | 21170 | 12193 | 7679  | 5759  |
| 70° | 19811  | 13464 | 8719  | 5578  | 3142  |
| 75° | 8388   | 7371  | 4151  | 2118  | 1017  |
| 80° | 1515   | 1515  | 0     | 0     | 0     |
| 85° | 0      | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 83978 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.8   | 4.8       |
| 10°-20°   | 59.8   | 13.7      |
| 20°-30°   | 87.4   | 20.0      |
| 30°-40°   | 95.2   | 21.8      |
| 40°-50°   | 82.4   | 18.9      |
| 50°-60°   | 55.2   | 12.7      |
| 60°-70°   | 28.5   | 6.5       |
| 70°-80°   | 6.7    | 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°    | 167.9  | 38.5      |
| 0°-40°    | 263.1  | 60.3      |
| 0°-60°    | 400.7  | 91.9      |
| 0°-90°    | 436.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 436.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 219 | 219 | 219 | 219  | 219  |      |
| 5°  | 268 | 250 | 213 | 187  | 177  | 27   |
| 15° | 386 | 299 | 177 | 125  | 111  | 109  |
| 25° | 432 | 302 | 131 | 79   | 67   | 198  |
| 35° | 387 | 256 | 92  | 52   | 44   | 240  |
| 45° | 271 | 173 | 62  | 37   | 31   | 207  |
| 55° | 137 | 100 | 41  | 26   | 21   | 127  |
| 65° | 59  | 41  | 24  | 15   | 11   | 60   |
| 75° | 10  | 9   | 5   | 2    | 1    | 13   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1445553  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 |
| 2.5°  | 243.6 | 242.4 | 242.4 | 239.9 | 237.4 | 235.0 | 231.2 | 227.5 | 223.8 | 220.1 | 217.6 |
| 5°    | 268.3 | 269.6 | 268.3 | 263.4 | 257.2 | 249.8 | 242.4 | 233.7 | 225.1 | 217.6 | 212.7 |
| 7.5°  | 296.8 | 296.8 | 293.1 | 286.9 | 278.2 | 265.9 | 253.5 | 238.7 | 225.1 | 212.7 | 206.5 |
| 10°   | 324.0 | 324.0 | 317.8 | 307.9 | 294.3 | 278.2 | 260.9 | 241.1 | 222.6 | 205.3 | 197.9 |
| 12.5° | 357.4 | 356.1 | 348.7 | 332.6 | 312.9 | 289.4 | 265.9 | 241.1 | 218.9 | 197.9 | 188.0 |
| 15°   | 385.8 | 384.6 | 374.7 | 354.9 | 328.9 | 299.3 | 267.1 | 238.7 | 211.5 | 188.0 | 176.8 |
| 17.5° | 406.8 | 404.4 | 393.2 | 372.2 | 342.5 | 305.4 | 268.3 | 233.7 | 202.8 | 176.8 | 165.7 |
| 20°   | 420.4 | 419.2 | 406.8 | 382.1 | 350.0 | 309.2 | 267.1 | 227.5 | 194.1 | 165.7 | 153.3 |
| 22.5° | 429.1 | 426.6 | 414.3 | 387.1 | 350.0 | 307.9 | 262.2 | 218.9 | 183.0 | 154.6 | 142.2 |
| 25°   | 431.6 | 430.3 | 415.5 | 385.8 | 346.3 | 301.7 | 254.7 | 210.2 | 171.9 | 143.4 | 131.1 |
| 26°   | 431.6 | 430.3 | 415.5 | 384.6 | 343.8 | 298.0 | 251.0 | 206.5 | 168.2 | 138.5 | 127.4 |
| 27.5° | 430.3 | 429.1 | 413.0 | 380.9 | 338.8 | 291.8 | 243.6 | 199.1 | 160.8 | 132.3 | 120.0 |
| 30°   | 422.9 | 420.4 | 404.4 | 372.2 | 327.7 | 279.5 | 231.2 | 188.0 | 149.6 | 121.2 | 110.1 |
| 32.5° | 406.8 | 404.4 | 387.1 | 357.4 | 315.3 | 265.9 | 217.6 | 175.6 | 138.5 | 110.1 | 100.2 |
| 35°   | 387.1 | 384.6 | 367.3 | 338.8 | 298.0 | 256.0 | 202.8 | 162.0 | 126.1 | 101.4 | 91.5  |
| 37.5° | 362.3 | 358.6 | 343.8 | 314.1 | 277.0 | 244.8 | 190.4 | 148.4 | 115.0 | 91.5  | 82.9  |
| 40°   | 331.4 | 330.2 | 316.6 | 289.4 | 252.3 | 225.1 | 183.0 | 148.4 | 105.1 | 82.9  | 75.4  |
| 42.5° | 301.7 | 299.3 | 286.9 | 263.4 | 230.0 | 196.6 | 160.8 | 142.2 | 97.7  | 74.2  | 68.0  |
| 45°   | 270.8 | 268.3 | 257.2 | 237.4 | 206.5 | 173.1 | 173.1 | 122.4 | 84.1  | 68.0  | 61.8  |
| 47.5° | 237.4 | 235.0 | 226.3 | 211.5 | 184.3 | 154.6 | 126.1 | 100.2 | 76.7  | 60.6  | 55.6  |
| 50°   | 204.0 | 205.3 | 197.9 | 183.0 | 162.0 | 134.8 | 108.8 | 84.1  | 65.5  | 54.4  | 49.5  |
| 52.5° | 170.7 | 169.4 | 164.5 | 154.6 | 139.7 | 116.2 | 92.7  | 71.7  | 56.9  | 48.2  | 45.8  |
| 55°   | 137.3 | 138.5 | 136.0 | 129.8 | 117.5 | 100.2 | 77.9  | 61.8  | 50.7  | 43.3  | 40.8  |
| 57.5° | 113.8 | 115.0 | 110.1 | 106.3 | 96.5  | 81.6  | 64.3  | 51.9  | 43.3  | 38.3  | 35.9  |
| 60°   | 94.0  | 95.2  | 91.5  | 86.6  | 79.1  | 65.5  | 51.9  | 43.3  | 38.3  | 34.6  | 32.2  |
| 62.5° | 76.7  | 75.4  | 73.0  | 68.0  | 61.8  | 51.9  | 42.0  | 35.9  | 32.2  | 29.7  | 28.4  |
| 65°   | 59.4  | 59.4  | 56.9  | 53.2  | 48.2  | 40.8  | 33.4  | 29.7  | 27.2  | 24.7  | 23.5  |
| 67.5° | 44.5  | 44.5  | 42.0  | 39.6  | 34.6  | 29.7  | 26.0  | 23.5  | 22.3  | 19.8  | 18.5  |
| 70°   | 30.9  | 30.9  | 29.7  | 28.4  | 24.7  | 21.0  | 19.8  | 17.3  | 16.1  | 14.8  | 13.6  |
| 72.5° | 19.8  | 19.8  | 19.8  | 17.3  | 16.1  | 13.6  | 13.6  | 12.4  | 11.1  | 9.9   | 9.9   |
| 75°   | 9.9   | 11.1  | 9.9   | 9.9   | 8.7   | 8.7   | 7.4   | 7.4   | 6.2   | 6.2   | 4.9   |
| 77.5° | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 80°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 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   |



TEST NUMBER: P1445553

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**CANDELA DISTRIBUTION (continued):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 | 218.9 |
| 2.5°  | 215.2 | 211.5 | 209.0 | 205.3 | 202.8 | 200.3 | 199.1 | 197.9 | 197.9 | 197.9 |
| 5°    | 209.0 | 202.8 | 196.6 | 190.4 | 186.7 | 183.0 | 179.3 | 178.1 | 176.8 | 176.8 |
| 7.5°  | 201.6 | 191.7 | 183.0 | 175.6 | 169.4 | 165.7 | 162.0 | 159.5 | 158.3 | 158.3 |
| 10°   | 191.7 | 179.3 | 169.4 | 159.5 | 153.3 | 148.4 | 145.9 | 142.2 | 142.2 | 141.0 |
| 12.5° | 180.5 | 165.7 | 154.6 | 145.9 | 139.7 | 133.6 | 129.8 | 127.4 | 126.1 | 126.1 |
| 15°   | 168.2 | 153.3 | 141.0 | 131.1 | 124.9 | 118.7 | 115.0 | 112.5 | 111.3 | 111.3 |
| 17.5° | 155.8 | 139.7 | 127.4 | 117.5 | 111.3 | 105.1 | 101.4 | 98.9  | 98.9  | 97.7  |
| 20°   | 143.4 | 127.4 | 115.0 | 105.1 | 98.9  | 94.0  | 90.3  | 87.8  | 86.6  | 87.8  |
| 22.5° | 132.3 | 116.2 | 103.9 | 95.2  | 87.8  | 82.9  | 79.1  | 77.9  | 76.7  | 76.7  |
| 25°   | 120.0 | 105.1 | 94.0  | 85.3  | 79.1  | 74.2  | 70.5  | 69.3  | 68.0  | 66.8  |
| 26°   | 116.2 | 101.4 | 90.3  | 81.6  | 75.4  | 70.5  | 68.0  | 65.5  | 64.3  | 64.3  |
| 27.5° | 111.3 | 95.2  | 85.3  | 76.7  | 70.5  | 66.8  | 63.1  | 61.8  | 60.6  | 60.6  |
| 30°   | 100.2 | 86.6  | 76.7  | 69.3  | 64.3  | 59.4  | 56.9  | 55.6  | 54.4  | 54.4  |
| 32.5° | 91.5  | 77.9  | 69.3  | 63.1  | 58.1  | 54.4  | 51.9  | 49.5  | 49.5  | 49.5  |
| 35°   | 82.9  | 70.5  | 63.1  | 56.9  | 51.9  | 48.2  | 47.0  | 45.8  | 44.5  | 44.5  |
| 37.5° | 75.4  | 64.3  | 56.9  | 51.9  | 48.2  | 44.5  | 42.0  | 40.8  | 40.8  | 40.8  |
| 40°   | 68.0  | 59.4  | 51.9  | 47.0  | 43.3  | 40.8  | 38.3  | 37.1  | 37.1  | 37.1  |
| 42.5° | 61.8  | 53.2  | 48.2  | 43.3  | 39.6  | 37.1  | 35.9  | 34.6  | 33.4  | 33.4  |
| 45°   | 56.9  | 49.5  | 43.3  | 39.6  | 37.1  | 34.6  | 32.2  | 30.9  | 30.9  | 30.9  |
| 47.5° | 50.7  | 45.8  | 39.6  | 35.9  | 33.4  | 30.9  | 29.7  | 28.4  | 28.4  | 28.4  |
| 50°   | 47.0  | 42.0  | 37.1  | 33.4  | 30.9  | 28.4  | 27.2  | 26.0  | 26.0  | 26.0  |
| 52.5° | 42.0  | 38.3  | 34.6  | 30.9  | 28.4  | 26.0  | 24.7  | 23.5  | 23.5  | 23.5  |
| 55°   | 38.3  | 34.6  | 30.9  | 28.4  | 26.0  | 23.5  | 22.3  | 21.0  | 21.0  | 21.0  |
| 57.5° | 34.6  | 30.9  | 28.4  | 26.0  | 23.5  | 22.3  | 19.8  | 19.8  | 18.5  | 18.5  |
| 60°   | 30.9  | 27.2  | 24.7  | 23.5  | 21.0  | 19.8  | 17.3  | 16.1  | 16.1  | 16.1  |
| 62.5° | 26.0  | 24.7  | 22.3  | 19.8  | 17.3  | 16.1  | 14.8  | 13.6  | 13.6  | 13.6  |
| 65°   | 22.3  | 21.0  | 18.5  | 16.1  | 14.8  | 13.6  | 12.4  | 11.1  | 11.1  | 11.1  |
| 67.5° | 18.5  | 16.1  | 14.8  | 13.6  | 12.4  | 11.1  | 9.9   | 8.7   | 7.4   | 8.7   |
| 70°   | 13.6  | 12.4  | 11.1  | 9.9   | 8.7   | 7.4   | 6.2   | 6.2   | 4.9   | 4.9   |
| 72.5° | 8.7   | 7.4   | 7.4   | 6.2   | 4.9   | 4.9   | 3.7   | 3.7   | 2.5   | 2.5   |
| 75°   | 4.9   | 4.9   | 3.7   | 3.7   | 2.5   | 2.5   | 1.2   | 1.2   | 1.2   | 1.2   |
| 77.5° | 2.5   | 1.2   | 1.2   | 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)