

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: P1445770

Luminaire Tested: P3ART09R709027DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

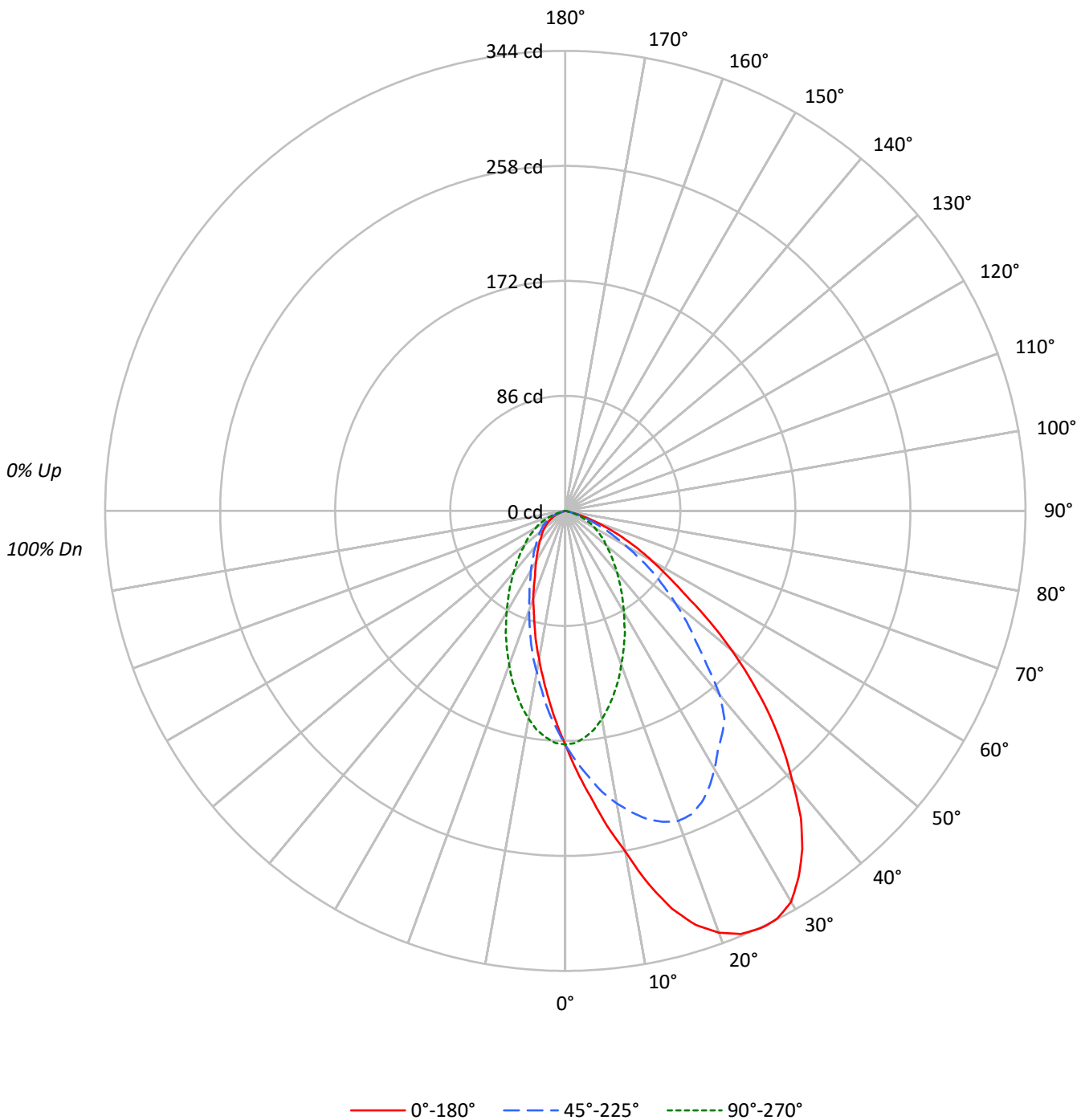
Test Method: LM-79-2019  
Report Number: P1445770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709027DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 348.0 lumens  
Efficiency: N/A  
Efficacy: 31.4 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): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  |     | 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 | 100 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 89  | 85  | 91  | 87  | 83  | 88  | 85  | 81  | 85  | 82  | 80  | 78  | 78  | 78  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  | 68  | 68  |
| 4   | 88  | 78  | 70  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 60  | 60  | 60  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 62  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  | 53  | 53  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 51  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  | 47  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  | 43  | 43  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  | 39  | 39  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  | 35  | 35  |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  | 32  | 32  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 38308 | 38308 | 38308 | 38308 | 38308 |
| 5°  | 47149 | 43892 | 37376 | 32798 | 31059 |
| 10° | 57581 | 49454 | 35159 | 27254 | 25050 |
| 15° | 69898 | 54234 | 32032 | 22634 | 20159 |
| 20° | 78313 | 57592 | 28562 | 18435 | 16358 |
| 25° | 83352 | 58261 | 25308 | 15291 | 12896 |
| 30° | 85482 | 56490 | 22231 | 12989 | 10989 |
| 35° | 82690 | 54690 | 19542 | 11109 | 9503  |
| 40° | 75713 | 51411 | 17232 | 9876  | 8473  |
| 45° | 67046 | 42857 | 15319 | 9179  | 7660  |
| 50° | 55572 | 36707 | 13475 | 8426  | 7062  |
| 55° | 41901 | 30546 | 12463 | 7914  | 6423  |
| 60° | 32892 | 22937 | 11271 | 7368  | 5614  |
| 65° | 24594 | 16915 | 9755  | 6123  | 4618  |
| 70° | 15836 | 10771 | 6988  | 4424  | 2500  |
| 75° | 6693  | 5846  | 3304  | 1694  | 847   |
| 80° | 1263  | 1263  | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 67046 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.6   | 4.8       |
| 10°-20°   | 47.7   | 13.7      |
| 20°-30°   | 69.7   | 20.0      |
| 30°-40°   | 76.0   | 21.8      |
| 40°-50°   | 65.8   | 18.9      |
| 50°-60°   | 44.0   | 12.7      |
| 60°-70°   | 22.8   | 6.5       |
| 70°-80°   | 5.4    | 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°    | 134.0  | 38.5      |
| 0°-40°    | 210.0  | 60.3      |
| 0°-60°    | 319.8  | 91.9      |
| 0°-90°    | 348.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 348.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 175 | 175 | 175 | 175  | 175  |      |
| 5°  | 214 | 199 | 170 | 149  | 141  | 22   |
| 15° | 308 | 239 | 141 | 100  | 89   | 87   |
| 25° | 344 | 241 | 105 | 63   | 53   | 158  |
| 35° | 309 | 204 | 73  | 42   | 36   | 191  |
| 45° | 216 | 138 | 49  | 30   | 25   | 165  |
| 55° | 110 | 80  | 33  | 21   | 17   | 101  |
| 65° | 47  | 33  | 19  | 12   | 9    | 48   |
| 75° | 8   | 7   | 4   | 2    | 1    | 10   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1445770

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 |
| 2.5°  | 194.4 | 193.5 | 193.5 | 191.5 | 189.5 | 187.5 | 184.6 | 181.6 | 178.7 | 175.7 | 173.7 |
| 5°    | 214.2 | 215.2 | 214.2 | 210.2 | 205.3 | 199.4 | 193.5 | 186.5 | 179.6 | 173.7 | 169.8 |
| 7.5°  | 236.9 | 236.9 | 233.9 | 229.0 | 222.1 | 212.2 | 202.3 | 190.5 | 179.6 | 169.8 | 164.8 |
| 10°   | 258.6 | 258.6 | 253.7 | 245.8 | 234.9 | 222.1 | 208.3 | 192.5 | 177.7 | 163.8 | 157.9 |
| 12.5° | 285.2 | 284.3 | 278.3 | 265.5 | 249.7 | 231.0 | 212.2 | 192.5 | 174.7 | 157.9 | 150.0 |
| 15°   | 307.9 | 307.0 | 299.1 | 283.3 | 262.5 | 238.9 | 213.2 | 190.5 | 168.8 | 150.0 | 141.1 |
| 17.5° | 324.7 | 322.8 | 313.9 | 297.1 | 273.4 | 243.8 | 214.2 | 186.5 | 161.9 | 141.1 | 132.3 |
| 20°   | 335.6 | 334.6 | 324.7 | 305.0 | 279.3 | 246.8 | 213.2 | 181.6 | 155.0 | 132.3 | 122.4 |
| 22.5° | 342.5 | 340.5 | 330.7 | 308.9 | 279.3 | 245.8 | 209.2 | 174.7 | 146.1 | 123.4 | 113.5 |
| 25°   | 344.5 | 343.5 | 331.6 | 307.9 | 276.4 | 240.8 | 203.3 | 167.8 | 137.2 | 114.5 | 104.6 |
| 26°   | 344.5 | 343.5 | 331.6 | 307.0 | 274.4 | 237.9 | 200.4 | 164.8 | 134.2 | 110.5 | 101.7 |
| 27.5° | 343.5 | 342.5 | 329.7 | 304.0 | 270.4 | 232.9 | 194.4 | 158.9 | 128.3 | 105.6 | 95.7  |
| 30°   | 337.6 | 335.6 | 322.8 | 297.1 | 261.6 | 223.1 | 184.6 | 150.0 | 119.4 | 96.7  | 87.8  |
| 32.5° | 324.7 | 322.8 | 308.9 | 285.2 | 251.7 | 212.2 | 173.7 | 140.2 | 110.5 | 87.8  | 79.9  |
| 35°   | 308.9 | 307.0 | 293.1 | 270.4 | 237.9 | 204.3 | 161.9 | 129.3 | 100.7 | 80.9  | 73.0  |
| 37.5° | 289.2 | 286.2 | 274.4 | 250.7 | 221.1 | 195.4 | 152.0 | 118.4 | 91.8  | 73.0  | 66.1  |
| 40°   | 264.5 | 263.5 | 252.7 | 231.0 | 201.4 | 179.6 | 146.1 | 118.4 | 83.9  | 66.1  | 60.2  |
| 42.5° | 240.8 | 238.9 | 229.0 | 210.2 | 183.6 | 156.9 | 128.3 | 113.5 | 78.0  | 59.2  | 54.3  |
| 45°   | 216.2 | 214.2 | 205.3 | 189.5 | 164.8 | 138.2 | 138.2 | 97.7  | 67.1  | 54.3  | 49.4  |
| 47.5° | 189.5 | 187.5 | 180.6 | 168.8 | 147.1 | 123.4 | 100.7 | 79.9  | 61.2  | 48.4  | 44.4  |
| 50°   | 162.9 | 163.8 | 157.9 | 146.1 | 129.3 | 107.6 | 86.9  | 67.1  | 52.3  | 43.4  | 39.5  |
| 52.5° | 136.2 | 135.2 | 131.3 | 123.4 | 111.5 | 92.8  | 74.0  | 57.2  | 45.4  | 38.5  | 36.5  |
| 55°   | 109.6 | 110.5 | 108.6 | 103.6 | 93.8  | 79.9  | 62.2  | 49.4  | 40.5  | 34.5  | 32.6  |
| 57.5° | 90.8  | 91.8  | 87.8  | 84.9  | 77.0  | 65.1  | 51.3  | 41.5  | 34.5  | 30.6  | 28.6  |
| 60°   | 75.0  | 76.0  | 73.0  | 69.1  | 63.2  | 52.3  | 41.5  | 34.5  | 30.6  | 27.6  | 25.7  |
| 62.5° | 61.2  | 60.2  | 58.2  | 54.3  | 49.4  | 41.5  | 33.6  | 28.6  | 25.7  | 23.7  | 22.7  |
| 65°   | 47.4  | 47.4  | 45.4  | 42.4  | 38.5  | 32.6  | 26.6  | 23.7  | 21.7  | 19.7  | 18.8  |
| 67.5° | 35.5  | 35.5  | 33.6  | 31.6  | 27.6  | 23.7  | 20.7  | 18.8  | 17.8  | 15.8  | 14.8  |
| 70°   | 24.7  | 24.7  | 23.7  | 22.7  | 19.7  | 16.8  | 15.8  | 13.8  | 12.8  | 11.8  | 10.9  |
| 72.5° | 15.8  | 15.8  | 15.8  | 13.8  | 12.8  | 10.9  | 10.9  | 9.9   | 8.9   | 7.9   | 7.9   |
| 75°   | 7.9   | 8.9   | 7.9   | 7.9   | 6.9   | 6.9   | 5.9   | 5.9   | 4.9   | 4.9   | 3.9   |
| 77.5° | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 80°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 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   | 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°    | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 | 174.7 |
| 2.5°  | 171.7 | 168.8 | 166.8 | 163.8 | 161.9 | 159.9 | 158.9 | 157.9 | 157.9 | 157.9 |
| 5°    | 166.8 | 161.9 | 156.9 | 152.0 | 149.0 | 146.1 | 143.1 | 142.1 | 141.1 | 141.1 |
| 7.5°  | 160.9 | 153.0 | 146.1 | 140.2 | 135.2 | 132.3 | 129.3 | 127.3 | 126.3 | 126.3 |
| 10°   | 153.0 | 143.1 | 135.2 | 127.3 | 122.4 | 118.4 | 116.5 | 113.5 | 113.5 | 112.5 |
| 12.5° | 144.1 | 132.3 | 123.4 | 116.5 | 111.5 | 106.6 | 103.6 | 101.7 | 100.7 | 100.7 |
| 15°   | 134.2 | 122.4 | 112.5 | 104.6 | 99.7  | 94.8  | 91.8  | 89.8  | 88.8  | 88.8  |
| 17.5° | 124.4 | 111.5 | 101.7 | 93.8  | 88.8  | 83.9  | 80.9  | 79.0  | 79.0  | 78.0  |
| 20°   | 114.5 | 101.7 | 91.8  | 83.9  | 79.0  | 75.0  | 72.1  | 70.1  | 69.1  | 70.1  |
| 22.5° | 105.6 | 92.8  | 82.9  | 76.0  | 70.1  | 66.1  | 63.2  | 62.2  | 61.2  | 61.2  |
| 25°   | 95.7  | 83.9  | 75.0  | 68.1  | 63.2  | 59.2  | 56.3  | 55.3  | 54.3  | 53.3  |
| 26°   | 92.8  | 80.9  | 72.1  | 65.1  | 60.2  | 56.3  | 54.3  | 52.3  | 51.3  | 51.3  |
| 27.5° | 88.8  | 76.0  | 68.1  | 61.2  | 56.3  | 53.3  | 50.3  | 49.4  | 48.4  | 48.4  |
| 30°   | 79.9  | 69.1  | 61.2  | 55.3  | 51.3  | 47.4  | 45.4  | 44.4  | 43.4  | 43.4  |
| 32.5° | 73.0  | 62.2  | 55.3  | 50.3  | 46.4  | 43.4  | 41.5  | 39.5  | 39.5  | 39.5  |
| 35°   | 66.1  | 56.3  | 50.3  | 45.4  | 41.5  | 38.5  | 37.5  | 36.5  | 35.5  | 35.5  |
| 37.5° | 60.2  | 51.3  | 45.4  | 41.5  | 38.5  | 35.5  | 33.6  | 32.6  | 32.6  | 32.6  |
| 40°   | 54.3  | 47.4  | 41.5  | 37.5  | 34.5  | 32.6  | 30.6  | 29.6  | 29.6  | 29.6  |
| 42.5° | 49.4  | 42.4  | 38.5  | 34.5  | 31.6  | 29.6  | 28.6  | 27.6  | 26.6  | 26.6  |
| 45°   | 45.4  | 39.5  | 34.5  | 31.6  | 29.6  | 27.6  | 25.7  | 24.7  | 24.7  | 24.7  |
| 47.5° | 40.5  | 36.5  | 31.6  | 28.6  | 26.6  | 24.7  | 23.7  | 22.7  | 22.7  | 22.7  |
| 50°   | 37.5  | 33.6  | 29.6  | 26.6  | 24.7  | 22.7  | 21.7  | 20.7  | 20.7  | 20.7  |
| 52.5° | 33.6  | 30.6  | 27.6  | 24.7  | 22.7  | 20.7  | 19.7  | 18.8  | 18.8  | 18.8  |
| 55°   | 30.6  | 27.6  | 24.7  | 22.7  | 20.7  | 18.8  | 17.8  | 16.8  | 16.8  | 16.8  |
| 57.5° | 27.6  | 24.7  | 22.7  | 20.7  | 18.8  | 17.8  | 15.8  | 15.8  | 14.8  | 14.8  |
| 60°   | 24.7  | 21.7  | 19.7  | 18.8  | 16.8  | 15.8  | 13.8  | 12.8  | 12.8  | 12.8  |
| 62.5° | 20.7  | 19.7  | 17.8  | 15.8  | 13.8  | 12.8  | 11.8  | 10.9  | 10.9  | 10.9  |
| 65°   | 17.8  | 16.8  | 14.8  | 12.8  | 11.8  | 10.9  | 9.9   | 8.9   | 8.9   | 8.9   |
| 67.5° | 14.8  | 12.8  | 11.8  | 10.9  | 9.9   | 8.9   | 7.9   | 6.9   | 5.9   | 6.9   |
| 70°   | 10.9  | 9.9   | 8.9   | 7.9   | 6.9   | 5.9   | 4.9   | 4.9   | 3.9   | 3.9   |
| 72.5° | 6.9   | 5.9   | 5.9   | 4.9   | 3.9   | 3.9   | 3.0   | 3.0   | 2.0   | 2.0   |
| 75°   | 3.9   | 3.9   | 3.0   | 3.0   | 2.0   | 2.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 77.5° | 2.0   | 1.0   | 1.0   | 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)