

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: P1445661

Luminaire Tested: P3ART09R709024DE010 E3LSWW1WMH

Issue Date: 5/8/2026

**Test Information**

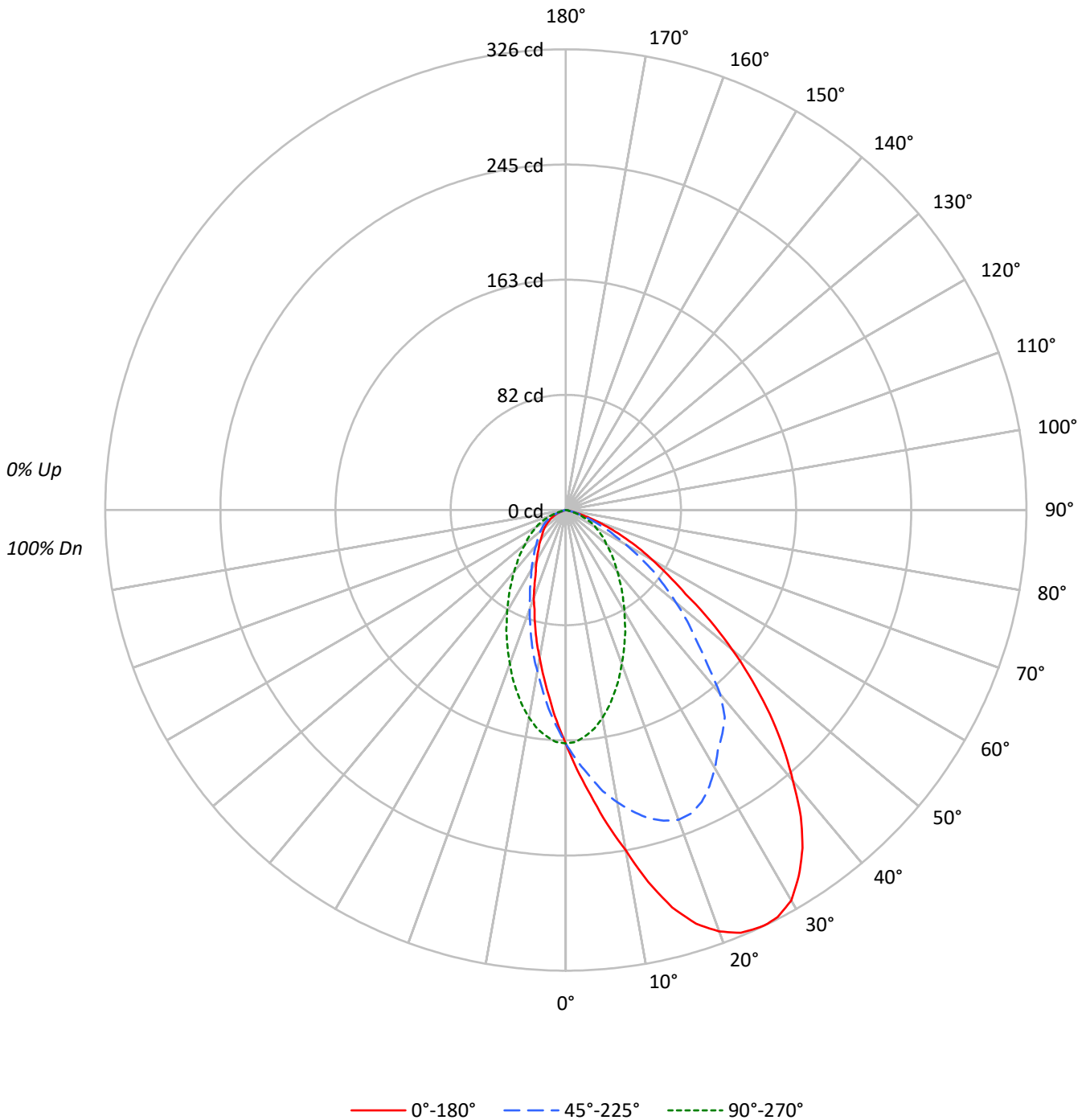
Test Method: LM-79-2019  
Report Number: P1445661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709024DE010 E3LSWW1WMH  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3LSWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 329.0 lumens  
Efficiency: N/A  
Efficacy: 29.6 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 (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  |     |     | 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  | 89  | 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°  | 36225 | 36225 | 36225 | 36225 | 36225 |
| 5°  | 44574 | 41492 | 35329 | 31015 | 29364 |
| 10° | 54441 | 46759 | 33244 | 25762 | 23691 |
| 15° | 66084 | 51260 | 30284 | 21385 | 19069 |
| 20° | 74043 | 54441 | 26999 | 17432 | 15471 |
| 25° | 78803 | 55092 | 23929 | 14444 | 12194 |
| 30° | 80797 | 53401 | 21016 | 12280 | 10407 |
| 35° | 78193 | 51718 | 18498 | 10494 | 8994  |
| 40° | 71591 | 48605 | 16288 | 9360  | 8015  |
| 45° | 63386 | 40500 | 14482 | 8683  | 7226  |
| 50° | 52536 | 34694 | 12725 | 7949  | 6686  |
| 55° | 39607 | 28902 | 11775 | 7493  | 6079  |
| 60° | 31094 | 21709 | 10657 | 6973  | 5307  |
| 65° | 23245 | 15981 | 9184  | 5811  | 4358  |
| 70° | 14938 | 10194 | 6604  | 4167  | 2372  |
| 75° | 6354  | 5507  | 3135  | 1610  | 763   |
| 80° | 1137  | 1137  | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 63386 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.7   | 4.8       |
| 10°-20°   | 45.1   | 13.7      |
| 20°-30°   | 65.9   | 20.0      |
| 30°-40°   | 71.8   | 21.8      |
| 40°-50°   | 62.2   | 18.9      |
| 50°-60°   | 41.6   | 12.7      |
| 60°-70°   | 21.5   | 6.5       |
| 70°-80°   | 5.1    | 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°    | 126.7  | 38.5      |
| 0°-40°    | 198.5  | 60.3      |
| 0°-60°    | 302.4  | 91.9      |
| 0°-90°    | 329.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 329.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 165 | 165 | 165 | 165  | 165  |      |
| 5°  | 202 | 188 | 160 | 141  | 133  | 21   |
| 15° | 291 | 226 | 133 | 94   | 84   | 82   |
| 25° | 326 | 228 | 99  | 60   | 50   | 150  |
| 35° | 292 | 193 | 69  | 39   | 34   | 181  |
| 45° | 204 | 131 | 47  | 28   | 23   | 156  |
| 55° | 104 | 76  | 31  | 20   | 16   | 96   |
| 65° | 45  | 31  | 18  | 11   | 8    | 45   |
| 75° | 8   | 6   | 4   | 2    | 1    | 10   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1445661

CATALOG NUMBER: P3ART09R709024DE010 E3LSWW1WMH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 |
| 2.5°  | 183.8 | 182.9 | 182.9 | 181.0 | 179.2 | 177.3 | 174.5 | 171.7 | 168.9 | 166.1 | 164.2 |
| 5°    | 202.5 | 203.4 | 202.5 | 198.8 | 194.1 | 188.5 | 182.9 | 176.4 | 169.8 | 164.2 | 160.5 |
| 7.5°  | 224.0 | 224.0 | 221.2 | 216.5 | 210.0 | 200.6 | 191.3 | 180.1 | 169.8 | 160.5 | 155.8 |
| 10°   | 244.5 | 244.5 | 239.8 | 232.3 | 222.1 | 210.0 | 196.9 | 182.0 | 168.0 | 154.9 | 149.3 |
| 12.5° | 269.7 | 268.7 | 263.1 | 251.0 | 236.1 | 218.4 | 200.6 | 182.0 | 165.2 | 149.3 | 141.8 |
| 15°   | 291.1 | 290.2 | 282.7 | 267.8 | 248.2 | 225.8 | 201.6 | 180.1 | 159.6 | 141.8 | 133.4 |
| 17.5° | 307.0 | 305.1 | 296.7 | 280.9 | 258.5 | 230.5 | 202.5 | 176.4 | 153.0 | 133.4 | 125.0 |
| 20°   | 317.3 | 316.3 | 307.0 | 288.3 | 264.1 | 233.3 | 201.6 | 171.7 | 146.5 | 125.0 | 115.7 |
| 22.5° | 323.8 | 321.9 | 312.6 | 292.1 | 264.1 | 232.3 | 197.8 | 165.2 | 138.1 | 116.6 | 107.3 |
| 25°   | 325.7 | 324.7 | 313.5 | 291.1 | 261.3 | 227.7 | 192.2 | 158.6 | 129.7 | 108.2 | 98.9  |
| 26°   | 325.7 | 324.7 | 313.5 | 290.2 | 259.4 | 224.9 | 189.4 | 155.8 | 126.9 | 104.5 | 96.1  |
| 27.5° | 324.7 | 323.8 | 311.7 | 287.4 | 255.7 | 220.2 | 183.8 | 150.2 | 121.3 | 99.8  | 90.5  |
| 30°   | 319.1 | 317.3 | 305.1 | 280.9 | 247.3 | 210.9 | 174.5 | 141.8 | 112.9 | 91.4  | 83.0  |
| 32.5° | 307.0 | 305.1 | 292.1 | 269.7 | 237.9 | 200.6 | 164.2 | 132.5 | 104.5 | 83.0  | 75.6  |
| 35°   | 292.1 | 290.2 | 277.1 | 255.7 | 224.9 | 193.2 | 153.0 | 122.2 | 95.2  | 76.5  | 69.1  |
| 37.5° | 273.4 | 270.6 | 259.4 | 237.0 | 209.0 | 184.8 | 143.7 | 112.0 | 86.8  | 69.1  | 62.5  |
| 40°   | 250.1 | 249.1 | 238.9 | 218.4 | 190.4 | 169.8 | 138.1 | 112.0 | 79.3  | 62.5  | 56.9  |
| 42.5° | 227.7 | 225.8 | 216.5 | 198.8 | 173.6 | 148.4 | 121.3 | 107.3 | 73.7  | 56.0  | 51.3  |
| 45°   | 204.4 | 202.5 | 194.1 | 179.2 | 155.8 | 130.6 | 107.3 | 92.4  | 63.5  | 51.3  | 46.7  |
| 47.5° | 179.2 | 177.3 | 170.8 | 159.6 | 139.0 | 116.6 | 95.2  | 75.6  | 57.9  | 45.7  | 42.0  |
| 50°   | 154.0 | 154.9 | 149.3 | 138.1 | 122.2 | 101.7 | 82.1  | 63.5  | 49.5  | 41.1  | 37.3  |
| 52.5° | 128.8 | 127.8 | 124.1 | 116.6 | 105.4 | 87.7  | 70.0  | 54.1  | 42.9  | 36.4  | 34.5  |
| 55°   | 103.6 | 104.5 | 102.6 | 98.0  | 88.6  | 75.6  | 58.8  | 46.7  | 38.3  | 32.7  | 30.8  |
| 57.5° | 85.8  | 86.8  | 83.0  | 80.2  | 72.8  | 61.6  | 48.5  | 39.2  | 32.7  | 28.9  | 27.1  |
| 60°   | 70.9  | 71.9  | 69.1  | 65.3  | 59.7  | 49.5  | 39.2  | 32.7  | 28.9  | 26.1  | 24.3  |
| 62.5° | 57.9  | 56.9  | 55.1  | 51.3  | 46.7  | 39.2  | 31.7  | 27.1  | 24.3  | 22.4  | 21.5  |
| 65°   | 44.8  | 44.8  | 42.9  | 40.1  | 36.4  | 30.8  | 25.2  | 22.4  | 20.5  | 18.7  | 17.7  |
| 67.5° | 33.6  | 33.6  | 31.7  | 29.9  | 26.1  | 22.4  | 19.6  | 17.7  | 16.8  | 14.9  | 14.0  |
| 70°   | 23.3  | 23.3  | 22.4  | 21.5  | 18.7  | 15.9  | 14.9  | 13.1  | 12.1  | 11.2  | 10.3  |
| 72.5° | 14.9  | 14.9  | 14.9  | 13.1  | 12.1  | 10.3  | 10.3  | 9.3   | 8.4   | 7.5   | 7.5   |
| 75°   | 7.5   | 8.4   | 7.5   | 7.5   | 6.5   | 6.5   | 5.6   | 5.6   | 4.7   | 4.7   | 3.7   |
| 77.5° | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 80°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 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°    | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 | 165.2 |
| 2.5°  | 162.4 | 159.6 | 157.7 | 154.9 | 153.0 | 151.2 | 150.2 | 149.3 | 149.3 | 149.3 |
| 5°    | 157.7 | 153.0 | 148.4 | 143.7 | 140.9 | 138.1 | 135.3 | 134.4 | 133.4 | 133.4 |
| 7.5°  | 152.1 | 144.6 | 138.1 | 132.5 | 127.8 | 125.0 | 122.2 | 120.4 | 119.4 | 119.4 |
| 10°   | 144.6 | 135.3 | 127.8 | 120.4 | 115.7 | 112.0 | 110.1 | 107.3 | 107.3 | 106.4 |
| 12.5° | 136.2 | 125.0 | 116.6 | 110.1 | 105.4 | 100.8 | 98.0  | 96.1  | 95.2  | 95.2  |
| 15°   | 126.9 | 115.7 | 106.4 | 98.9  | 94.2  | 89.6  | 86.8  | 84.9  | 84.0  | 84.0  |
| 17.5° | 117.6 | 105.4 | 96.1  | 88.6  | 84.0  | 79.3  | 76.5  | 74.7  | 74.7  | 73.7  |
| 20°   | 108.2 | 96.1  | 86.8  | 79.3  | 74.7  | 70.9  | 68.1  | 66.3  | 65.3  | 66.3  |
| 22.5° | 99.8  | 87.7  | 78.4  | 71.9  | 66.3  | 62.5  | 59.7  | 58.8  | 57.9  | 57.9  |
| 25°   | 90.5  | 79.3  | 70.9  | 64.4  | 59.7  | 56.0  | 53.2  | 52.3  | 51.3  | 50.4  |
| 26°   | 87.7  | 76.5  | 68.1  | 61.6  | 56.9  | 53.2  | 51.3  | 49.5  | 48.5  | 48.5  |
| 27.5° | 84.0  | 71.9  | 64.4  | 57.9  | 53.2  | 50.4  | 47.6  | 46.7  | 45.7  | 45.7  |
| 30°   | 75.6  | 65.3  | 57.9  | 52.3  | 48.5  | 44.8  | 42.9  | 42.0  | 41.1  | 41.1  |
| 32.5° | 69.1  | 58.8  | 52.3  | 47.6  | 43.9  | 41.1  | 39.2  | 37.3  | 37.3  | 37.3  |
| 35°   | 62.5  | 53.2  | 47.6  | 42.9  | 39.2  | 36.4  | 35.5  | 34.5  | 33.6  | 33.6  |
| 37.5° | 56.9  | 48.5  | 42.9  | 39.2  | 36.4  | 33.6  | 31.7  | 30.8  | 30.8  | 30.8  |
| 40°   | 51.3  | 44.8  | 39.2  | 35.5  | 32.7  | 30.8  | 28.9  | 28.0  | 28.0  | 28.0  |
| 42.5° | 46.7  | 40.1  | 36.4  | 32.7  | 29.9  | 28.0  | 27.1  | 26.1  | 25.2  | 25.2  |
| 45°   | 42.9  | 37.3  | 32.7  | 29.9  | 28.0  | 26.1  | 24.3  | 23.3  | 23.3  | 23.3  |
| 47.5° | 38.3  | 34.5  | 29.9  | 27.1  | 25.2  | 23.3  | 22.4  | 21.5  | 21.5  | 21.5  |
| 50°   | 35.5  | 31.7  | 28.0  | 25.2  | 23.3  | 21.5  | 20.5  | 19.6  | 19.6  | 19.6  |
| 52.5° | 31.7  | 28.9  | 26.1  | 23.3  | 21.5  | 19.6  | 18.7  | 17.7  | 17.7  | 17.7  |
| 55°   | 28.9  | 26.1  | 23.3  | 21.5  | 19.6  | 17.7  | 16.8  | 15.9  | 15.9  | 15.9  |
| 57.5° | 26.1  | 23.3  | 21.5  | 19.6  | 17.7  | 16.8  | 14.9  | 14.9  | 14.0  | 14.0  |
| 60°   | 23.3  | 20.5  | 18.7  | 17.7  | 15.9  | 14.9  | 13.1  | 12.1  | 12.1  | 12.1  |
| 62.5° | 19.6  | 18.7  | 16.8  | 14.9  | 13.1  | 12.1  | 11.2  | 10.3  | 10.3  | 10.3  |
| 65°   | 16.8  | 15.9  | 14.0  | 12.1  | 11.2  | 10.3  | 9.3   | 8.4   | 8.4   | 8.4   |
| 67.5° | 14.0  | 12.1  | 11.2  | 10.3  | 9.3   | 8.4   | 7.5   | 6.5   | 5.6   | 6.5   |
| 70°   | 10.3  | 9.3   | 8.4   | 7.5   | 6.5   | 5.6   | 4.7   | 4.7   | 3.7   | 3.7   |
| 72.5° | 6.5   | 5.6   | 5.6   | 4.7   | 3.7   | 3.7   | 2.8   | 2.8   | 1.9   | 1.9   |
| 75°   | 3.7   | 3.7   | 2.8   | 2.8   | 1.9   | 1.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 77.5° | 1.9   | 0.9   | 0.9   | 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)