

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: P1445642

Luminaire Tested: P3ART09R709024DE010 E3LCWW1B

Issue Date: 5/8/2026

**Test Information**

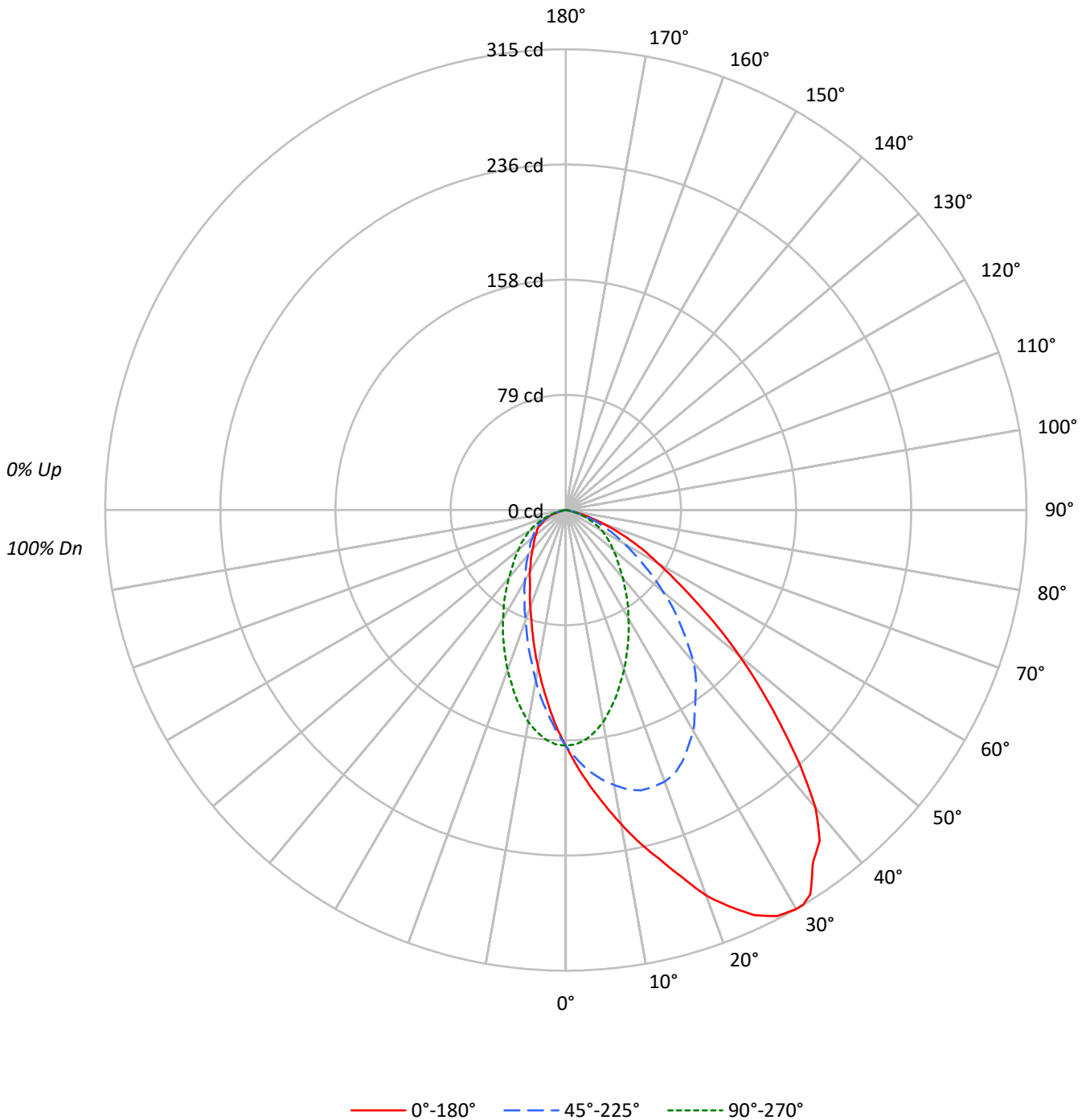
Test Method: LM-79-2019  
Report Number: P1445642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709024DE010 E3LCWW1B  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3LCWW1B TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 328.0 lumens  
Efficiency: N/A  
Efficacy: 29.6 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18  
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

TEST NUMBER: P1445642  
CATALOG NUMBER: P3ART09R709024DE010 E3LCWW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P1445642  
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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 | 107 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  | 88  | 88  |
| 2   | 102 | 95  | 90  | 85  | 100 | 93  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  | 76  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  | 66  | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  | 58  | 58  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 53  | 51  | 51  | 51  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 46  | 46  | 46  |
| 7   | 70  | 57  | 49  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  | 54  | 48  | 43  | 52  | 47  | 43  | 41  | 41  | 41  |
| 8   | 65  | 53  | 45  | 39  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 48  | 43  | 39  | 37  | 37  | 37  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 34  | 34  | 34  |
| 10  | 57  | 45  | 38  | 33  | 56  | 45  | 37  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 42  | 36  | 32  | 31  | 31  | 31  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 35348 | 35348 | 35348 | 35348 | 35348 |
| 5°  | 41646 | 39379 | 34669 | 30773 | 29540 |
| 10° | 48563 | 42529 | 32776 | 26363 | 24270 |
| 15° | 56073 | 45063 | 30034 | 22225 | 19887 |
| 20° | 65456 | 46111 | 27186 | 18692 | 16521 |
| 25° | 73964 | 45777 | 24340 | 16017 | 13985 |
| 30° | 79759 | 44133 | 21700 | 14154 | 12508 |
| 35° | 78835 | 41412 | 19461 | 12715 | 11216 |
| 40° | 76028 | 38959 | 17347 | 11479 | 10133 |
| 45° | 64441 | 34391 | 15599 | 10699 | 9551  |
| 50° | 52774 | 29577 | 14294 | 10166 | 9211  |
| 55° | 40983 | 24582 | 13534 | 9978  | 9252  |
| 60° | 31883 | 20437 | 12674 | 9824  | 8596  |
| 65° | 25165 | 16915 | 11104 | 9184  | 8198  |
| 70° | 17311 | 12566 | 8976  | 7758  | 7181  |
| 75° | 8727  | 7117  | 6354  | 5507  | 4745  |
| 80° | 1137  | 2399  | 3536  | 2399  | 1137  |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 64441 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.1   | 4.6       |
| 10°-20°   | 42.0   | 12.8      |
| 20°-30°   | 61.9   | 18.9      |
| 30°-40°   | 69.4   | 21.2      |
| 40°-50°   | 61.0   | 18.6      |
| 50°-60°   | 43.7   | 13.3      |
| 60°-70°   | 25.9   | 7.9       |
| 70°-80°   | 8.7    | 2.6       |
| 80°-90°   | 0.4    | 0.1       |
| 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°    | 119.0  | 36.3      |
| 0°-40°    | 188.4  | 57.4      |
| 0°-60°    | 293.1  | 89.3      |
| 0°-90°    | 328.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 328.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 161 | 161 | 161 | 161  | 161  |      |
| 5°  | 189 | 179 | 158 | 140  | 134  | 19   |
| 15° | 247 | 198 | 132 | 98   | 88   | 71   |
| 25° | 306 | 189 | 101 | 66   | 58   | 141  |
| 35° | 294 | 155 | 73  | 48   | 42   | 185  |
| 45° | 208 | 111 | 50  | 34   | 31   | 161  |
| 55° | 107 | 64  | 35  | 26   | 24   | 98   |
| 65° | 48  | 33  | 21  | 18   | 16   | 48   |
| 75° | 10  | 8   | 8   | 6    | 6    | 12   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1445642  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 |
| 2.5°  | 175.2 | 175.2 | 175.2 | 173.3 | 173.3 | 170.5 | 168.7 | 165.9 | 164.0 | 161.2 | 160.3 |
| 5°    | 189.2 | 189.2 | 187.3 | 185.5 | 182.7 | 178.9 | 174.3 | 169.6 | 164.0 | 159.4 | 157.5 |
| 7.5°  | 203.2 | 204.1 | 201.3 | 197.6 | 192.0 | 185.5 | 178.9 | 171.5 | 163.1 | 156.6 | 152.8 |
| 10°   | 218.1 | 218.1 | 214.3 | 208.8 | 200.4 | 191.0 | 180.8 | 170.5 | 160.3 | 151.0 | 147.2 |
| 12.5° | 233.0 | 232.1 | 227.4 | 219.0 | 208.8 | 195.7 | 181.7 | 168.7 | 156.6 | 145.4 | 139.8 |
| 15°   | 247.0 | 247.0 | 240.4 | 230.2 | 215.3 | 198.5 | 181.7 | 165.0 | 151.0 | 137.9 | 132.3 |
| 17.5° | 262.8 | 262.8 | 254.4 | 238.6 | 219.9 | 198.5 | 178.9 | 160.3 | 144.5 | 130.5 | 123.9 |
| 20°   | 280.5 | 279.6 | 267.5 | 246.0 | 221.8 | 197.6 | 175.2 | 154.7 | 137.0 | 122.1 | 116.5 |
| 22.5° | 293.6 | 292.6 | 278.7 | 252.6 | 222.7 | 194.8 | 168.7 | 147.2 | 129.5 | 114.6 | 108.1 |
| 25°   | 305.7 | 303.8 | 288.0 | 255.4 | 220.9 | 189.2 | 162.2 | 138.9 | 122.1 | 107.2 | 100.6 |
| 27.5° | 313.1 | 312.2 | 294.5 | 254.4 | 216.2 | 181.7 | 153.8 | 131.4 | 113.7 | 98.8  | 93.2  |
| 30°   | 315.0 | 315.9 | 294.5 | 249.8 | 208.8 | 174.3 | 145.4 | 123.0 | 105.3 | 92.3  | 85.7  |
| 31°   | 315.0 | 315.9 | 292.6 | 247.0 | 206.0 | 170.5 | 141.7 | 120.2 | 101.6 | 88.5  | 82.9  |
| 32.5° | 311.3 | 309.4 | 289.8 | 242.3 | 199.4 | 164.0 | 137.0 | 115.6 | 96.9  | 83.9  | 79.2  |
| 35°   | 294.5 | 295.4 | 280.5 | 232.1 | 190.1 | 154.7 | 127.7 | 106.2 | 88.5  | 77.4  | 72.7  |
| 37.5° | 285.2 | 285.2 | 258.1 | 218.1 | 179.9 | 146.3 | 116.5 | 96.0  | 81.1  | 70.8  | 66.2  |
| 40°   | 265.6 | 262.8 | 237.6 | 203.2 | 167.7 | 136.1 | 110.0 | 89.5  | 74.6  | 64.3  | 60.6  |
| 42.5° | 237.6 | 234.8 | 215.3 | 190.1 | 151.9 | 123.0 | 104.4 | 79.2  | 67.1  | 58.7  | 55.0  |
| 45°   | 207.8 | 206.0 | 191.0 | 167.7 | 137.0 | 110.9 | 90.4  | 72.7  | 61.5  | 53.1  | 50.3  |
| 47.5° | 180.8 | 178.0 | 166.8 | 149.1 | 123.9 | 99.7  | 78.3  | 65.2  | 55.0  | 48.5  | 46.6  |
| 50°   | 154.7 | 153.8 | 144.5 | 130.5 | 110.0 | 86.7  | 69.0  | 57.8  | 50.3  | 44.7  | 41.9  |
| 52.5° | 130.5 | 128.6 | 123.9 | 112.8 | 96.0  | 75.5  | 60.6  | 51.3  | 44.7  | 41.0  | 39.1  |
| 55°   | 107.2 | 107.2 | 102.5 | 95.1  | 82.0  | 64.3  | 53.1  | 45.7  | 40.1  | 37.3  | 35.4  |
| 57.5° | 88.5  | 88.5  | 84.8  | 80.1  | 68.0  | 55.0  | 46.6  | 40.1  | 36.3  | 33.5  | 31.7  |
| 60°   | 72.7  | 72.7  | 69.9  | 65.2  | 56.8  | 46.6  | 40.1  | 35.4  | 32.6  | 29.8  | 28.9  |
| 62.5° | 60.6  | 59.6  | 57.8  | 53.1  | 46.6  | 39.1  | 34.5  | 30.8  | 28.0  | 26.1  | 25.2  |
| 65°   | 48.5  | 47.5  | 45.7  | 41.9  | 37.3  | 32.6  | 28.9  | 26.1  | 24.2  | 22.4  | 21.4  |
| 67.5° | 37.3  | 37.3  | 35.4  | 32.6  | 28.9  | 26.1  | 23.3  | 21.4  | 19.6  | 18.6  | 17.7  |
| 70°   | 27.0  | 27.0  | 26.1  | 24.2  | 21.4  | 19.6  | 17.7  | 16.8  | 15.8  | 14.9  | 14.0  |
| 72.5° | 18.6  | 18.6  | 17.7  | 16.8  | 14.9  | 14.0  | 12.1  | 12.1  | 11.2  | 11.2  | 10.3  |
| 75°   | 10.3  | 10.3  | 10.3  | 9.3   | 9.3   | 8.4   | 8.4   | 8.4   | 7.5   | 7.5   | 7.5   |
| 77.5° | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   |
| 80°   | 0.9   | 0.9   | 0.9   | 0.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 2.8   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 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°    | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 | 161.2 |
| 2.5°  | 159.4 | 156.6 | 154.7 | 153.8 | 151.0 | 150.0 | 149.1 | 148.2 | 148.2 | 148.2 |
| 5°    | 155.6 | 151.0 | 146.3 | 143.5 | 139.8 | 137.9 | 136.1 | 135.1 | 134.2 | 134.2 |
| 7.5°  | 149.1 | 143.5 | 137.9 | 133.3 | 129.5 | 125.8 | 123.9 | 122.1 | 122.1 | 121.2 |
| 10°   | 142.6 | 135.1 | 128.6 | 122.1 | 118.4 | 113.7 | 111.8 | 110.0 | 109.0 | 109.0 |
| 12.5° | 135.1 | 125.8 | 118.4 | 112.8 | 107.2 | 103.4 | 100.6 | 98.8  | 97.9  | 97.9  |
| 15°   | 126.7 | 117.4 | 109.0 | 103.4 | 97.9  | 93.2  | 90.4  | 88.5  | 87.6  | 87.6  |
| 17.5° | 118.4 | 109.0 | 99.7  | 94.1  | 88.5  | 83.9  | 82.0  | 80.1  | 79.2  | 78.3  |
| 20°   | 110.9 | 99.7  | 92.3  | 84.8  | 80.1  | 76.4  | 73.6  | 71.8  | 70.8  | 70.8  |
| 22.5° | 102.5 | 92.3  | 83.9  | 78.3  | 73.6  | 69.9  | 66.2  | 65.2  | 64.3  | 64.3  |
| 25°   | 94.1  | 84.8  | 77.4  | 71.8  | 66.2  | 63.4  | 60.6  | 58.7  | 58.7  | 57.8  |
| 27.5° | 87.6  | 78.3  | 70.8  | 65.2  | 61.5  | 57.8  | 55.9  | 54.1  | 53.1  | 53.1  |
| 30°   | 80.1  | 71.8  | 65.2  | 60.6  | 55.9  | 53.1  | 51.3  | 49.4  | 49.4  | 49.4  |
| 31°   | 78.3  | 69.9  | 63.4  | 57.8  | 54.1  | 51.3  | 49.4  | 48.5  | 47.5  | 47.5  |
| 32.5° | 73.6  | 66.2  | 59.6  | 55.0  | 51.3  | 48.5  | 46.6  | 45.7  | 45.7  | 44.7  |
| 35°   | 68.0  | 60.6  | 55.0  | 50.3  | 47.5  | 44.7  | 42.9  | 41.9  | 41.9  | 41.9  |
| 37.5° | 62.4  | 55.9  | 50.3  | 46.6  | 43.8  | 41.0  | 40.1  | 38.2  | 38.2  | 38.2  |
| 40°   | 56.8  | 51.3  | 46.6  | 42.9  | 40.1  | 38.2  | 37.3  | 36.3  | 35.4  | 35.4  |
| 42.5° | 52.2  | 46.6  | 42.9  | 40.1  | 37.3  | 35.4  | 34.5  | 33.5  | 33.5  | 32.6  |
| 45°   | 47.5  | 42.9  | 40.1  | 37.3  | 34.5  | 33.5  | 32.6  | 31.7  | 30.8  | 30.8  |
| 47.5° | 43.8  | 40.1  | 36.3  | 34.5  | 32.6  | 30.8  | 29.8  | 29.8  | 28.9  | 28.9  |
| 50°   | 40.1  | 36.3  | 33.5  | 31.7  | 29.8  | 28.9  | 28.0  | 28.0  | 27.0  | 27.0  |
| 52.5° | 37.3  | 33.5  | 31.7  | 29.8  | 28.0  | 27.0  | 26.1  | 26.1  | 25.2  | 25.2  |
| 55°   | 33.5  | 30.8  | 28.9  | 28.0  | 26.1  | 25.2  | 24.2  | 23.3  | 23.3  | 24.2  |
| 57.5° | 30.8  | 28.9  | 27.0  | 26.1  | 24.2  | 23.3  | 22.4  | 22.4  | 21.4  | 22.4  |
| 60°   | 28.0  | 26.1  | 24.2  | 23.3  | 22.4  | 21.4  | 20.5  | 19.6  | 19.6  | 19.6  |
| 62.5° | 25.2  | 23.3  | 22.4  | 20.5  | 19.6  | 19.6  | 18.6  | 18.6  | 18.6  | 17.7  |
| 65°   | 21.4  | 20.5  | 19.6  | 18.6  | 17.7  | 16.8  | 16.8  | 15.8  | 15.8  | 15.8  |
| 67.5° | 17.7  | 16.8  | 15.8  | 15.8  | 14.9  | 14.0  | 14.0  | 14.0  | 14.0  | 13.0  |
| 70°   | 14.0  | 13.0  | 13.0  | 12.1  | 12.1  | 12.1  | 11.2  | 11.2  | 11.2  | 11.2  |
| 72.5° | 10.3  | 10.3  | 9.3   | 9.3   | 9.3   | 9.3   | 8.4   | 8.4   | 8.4   | 8.4   |
| 75°   | 7.5   | 7.5   | 7.5   | 6.5   | 6.5   | 6.5   | 5.6   | 5.6   | 5.6   | 5.6   |
| 77.5° | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   |
| 80°   | 2.8   | 2.8   | 2.8   | 2.8   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 0.9   |
| 82.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 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)