

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: P#

Luminaire Tested: P3ART09R70W2N902765DE010 E3LCWW1GPH\_5000K

Issue Date: 5/8/2026

**Test Information**

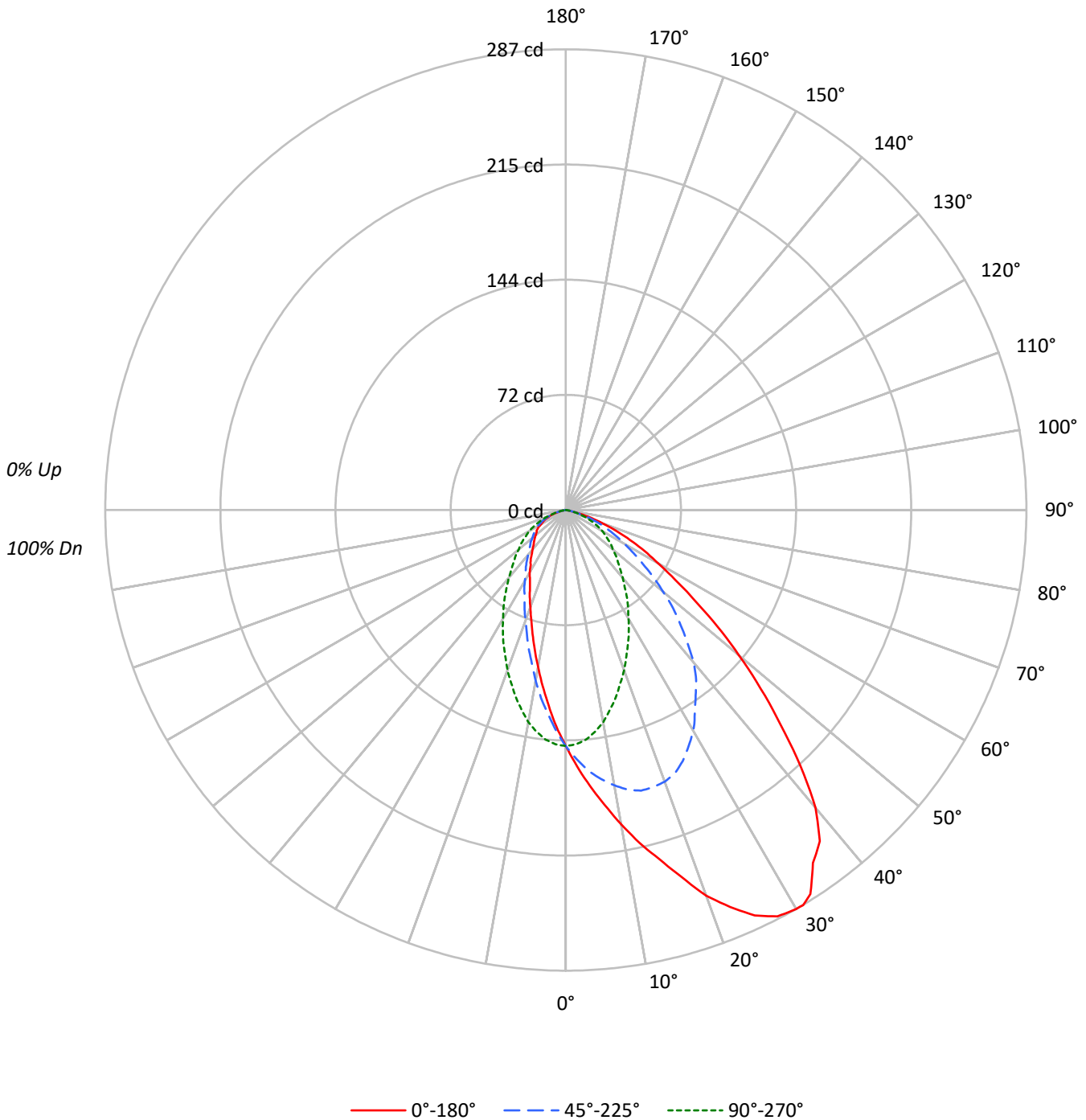
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R70W2N902765DE010 E3LCWW1GPH\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,  
E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 298.9 lumens  
Efficiency: N/A  
Efficacy: 33.2 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): 9  
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: P#  
CATALOG NUMBER: P3ART09R70W2N902765DE010 E3LCWW1GPH\_5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: P3ART09R70W2N902765DE010 E3LCWW1GPH\_5000K

**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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |
| 2   | 102 | 95  | 90  | 85  | 100 | 93  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 53  | 51  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |
| 7   | 70  | 57  | 49  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  | 54  | 48  | 43  | 52  | 47  | 43  | 41  |
| 8   | 65  | 53  | 45  | 39  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 48  | 43  | 39  | 37  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 34  |
| 10  | 57  | 45  | 38  | 33  | 56  | 45  | 37  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 42  | 36  | 32  | 31  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 32234 | 32234 | 32234 | 32234 | 32234 |
| 5°  | 37970 | 35901 | 31609 | 28043 | 26920 |
| 10° | 44265 | 38788 | 29881 | 24025 | 22133 |
| 15° | 51101 | 41090 | 27378 | 20250 | 18139 |
| 20° | 59669 | 42027 | 24782 | 17058 | 15075 |
| 25° | 67431 | 41736 | 22211 | 14590 | 12751 |
| 30° | 72695 | 40234 | 19801 | 12913 | 11394 |
| 35° | 71875 | 37745 | 17748 | 11591 | 10226 |
| 40° | 69301 | 35495 | 15801 | 10448 | 9246  |
| 45° | 58735 | 31352 | 14234 | 9737  | 8683  |
| 50° | 48101 | 26950 | 13032 | 9279  | 8392  |
| 55° | 37351 | 22403 | 12348 | 9099  | 8449  |
| 60° | 29077 | 18639 | 11534 | 8947  | 7806  |
| 65° | 22934 | 15410 | 10118 | 8354  | 7472  |
| 70° | 15772 | 11412 | 8142  | 7052  | 6540  |
| 75° | 7879  | 6439  | 5761  | 4999  | 4321  |
| 80° | 1010  | 2147  | 3157  | 2147  | 1010  |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 58735 cd/sqm



TEST NUMBER: P#

CATALOG NUMBER: P3ART09R70W2N902765DE010 E3LCWW1GPH\_5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.7   | 4.6       |
| 10°-20°   | 38.3   | 12.8      |
| 20°-30°   | 56.4   | 18.9      |
| 30°-40°   | 63.3   | 21.2      |
| 40°-50°   | 55.6   | 18.6      |
| 50°-60°   | 39.8   | 13.3      |
| 60°-70°   | 23.6   | 7.9       |
| 70°-80°   | 7.9    | 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°    | 108.5  | 36.3      |
| 0°-40°    | 171.7  | 57.4      |
| 0°-60°    | 267.1  | 89.4      |
| 0°-90°    | 298.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 298.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 147 | 147 | 147 | 147  | 147  |      |
| 5°  | 172 | 163 | 144 | 127  | 122  | 17   |
| 15° | 225 | 181 | 121 | 89   | 80   | 65   |
| 25° | 279 | 172 | 92  | 60   | 53   | 128  |
| 35° | 268 | 141 | 66  | 43   | 38   | 169  |
| 45° | 189 | 101 | 46  | 31   | 28   | 147  |
| 55° | 98  | 59  | 32  | 24   | 22   | 89   |
| 65° | 44  | 30  | 20  | 16   | 14   | 44   |
| 75° | 9   | 8   | 7   | 6    | 5    | 11   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P#  
 CATALOG NUMBER: P3ART09R70W2N902765DE010 E3LCWW1GPH\_5000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 |
| 2.5°  | 159.7 | 159.7 | 159.7 | 158.0 | 158.0 | 155.5 | 153.8 | 151.2 | 149.5 | 147.0 | 146.1 |
| 5°    | 172.5 | 172.5 | 170.8 | 169.1 | 166.5 | 163.1 | 158.9 | 154.6 | 149.5 | 145.3 | 143.6 |
| 7.5°  | 185.2 | 186.1 | 183.5 | 180.1 | 175.0 | 169.1 | 163.1 | 156.3 | 148.7 | 142.7 | 139.3 |
| 10°   | 198.8 | 198.8 | 195.4 | 190.3 | 182.7 | 174.2 | 164.8 | 155.5 | 146.1 | 137.6 | 134.2 |
| 12.5° | 212.4 | 211.5 | 207.3 | 199.6 | 190.3 | 178.4 | 165.7 | 153.8 | 142.7 | 132.5 | 127.4 |
| 15°   | 225.1 | 225.1 | 219.2 | 209.8 | 196.2 | 181.0 | 165.7 | 150.4 | 137.6 | 125.7 | 120.6 |
| 17.5° | 239.6 | 239.6 | 231.9 | 217.5 | 200.5 | 181.0 | 163.1 | 146.1 | 131.7 | 118.9 | 113.0 |
| 20°   | 255.7 | 254.9 | 243.8 | 224.3 | 202.2 | 180.1 | 159.7 | 141.0 | 124.9 | 111.3 | 106.2 |
| 22.5° | 267.6 | 266.8 | 254.0 | 230.2 | 203.0 | 177.6 | 153.8 | 134.2 | 118.1 | 104.5 | 98.5  |
| 25°   | 278.7 | 277.0 | 262.5 | 232.8 | 201.3 | 172.5 | 147.8 | 126.6 | 111.3 | 97.7  | 91.8  |
| 27.5° | 285.4 | 284.6 | 268.5 | 231.9 | 197.1 | 165.7 | 140.2 | 119.8 | 103.6 | 90.1  | 85.0  |
| 30°   | 287.1 | 288.0 | 268.5 | 227.7 | 190.3 | 158.9 | 132.5 | 112.1 | 96.0  | 84.1  | 78.2  |
| 31°   | 287.1 | 288.0 | 266.8 | 225.1 | 187.7 | 155.5 | 129.1 | 109.6 | 92.6  | 80.7  | 75.6  |
| 32.5° | 283.7 | 282.0 | 264.2 | 220.9 | 181.8 | 149.5 | 124.9 | 105.3 | 88.4  | 76.5  | 72.2  |
| 35°   | 268.5 | 269.3 | 255.7 | 211.5 | 173.3 | 141.0 | 116.4 | 96.8  | 80.7  | 70.5  | 66.3  |
| 37.5° | 260.0 | 260.0 | 235.3 | 198.8 | 164.0 | 133.4 | 106.2 | 87.5  | 73.9  | 64.6  | 60.3  |
| 40°   | 242.1 | 239.6 | 216.6 | 185.2 | 152.9 | 124.0 | 100.2 | 81.6  | 68.0  | 58.6  | 55.2  |
| 42.5° | 216.6 | 214.1 | 196.2 | 173.3 | 138.5 | 112.1 | 95.1  | 72.2  | 61.2  | 53.5  | 50.1  |
| 45°   | 189.4 | 187.7 | 174.2 | 152.9 | 124.9 | 101.1 | 82.4  | 66.3  | 56.1  | 48.4  | 45.9  |
| 47.5° | 164.8 | 162.3 | 152.1 | 135.9 | 113.0 | 90.9  | 71.4  | 59.5  | 50.1  | 44.2  | 42.5  |
| 50°   | 141.0 | 140.2 | 131.7 | 118.9 | 100.2 | 79.0  | 62.9  | 52.7  | 45.9  | 40.8  | 38.2  |
| 52.5° | 118.9 | 117.2 | 113.0 | 102.8 | 87.5  | 68.8  | 55.2  | 46.7  | 40.8  | 37.4  | 35.7  |
| 55°   | 97.7  | 97.7  | 93.4  | 86.7  | 74.8  | 58.6  | 48.4  | 41.6  | 36.5  | 34.0  | 32.3  |
| 57.5° | 80.7  | 80.7  | 77.3  | 73.1  | 62.0  | 50.1  | 42.5  | 36.5  | 33.1  | 30.6  | 28.9  |
| 60°   | 66.3  | 66.3  | 63.7  | 59.5  | 51.8  | 42.5  | 36.5  | 32.3  | 29.7  | 27.2  | 26.3  |
| 62.5° | 55.2  | 54.4  | 52.7  | 48.4  | 42.5  | 35.7  | 31.4  | 28.0  | 25.5  | 23.8  | 22.9  |
| 65°   | 44.2  | 43.3  | 41.6  | 38.2  | 34.0  | 29.7  | 26.3  | 23.8  | 22.1  | 20.4  | 19.5  |
| 67.5° | 34.0  | 34.0  | 32.3  | 29.7  | 26.3  | 23.8  | 21.2  | 19.5  | 17.8  | 17.0  | 16.1  |
| 70°   | 24.6  | 24.6  | 23.8  | 22.1  | 19.5  | 17.8  | 16.1  | 15.3  | 14.4  | 13.6  | 12.7  |
| 72.5° | 17.0  | 17.0  | 16.1  | 15.3  | 13.6  | 12.7  | 11.0  | 11.0  | 10.2  | 10.2  | 9.3   |
| 75°   | 9.3   | 9.3   | 9.3   | 8.5   | 8.5   | 7.6   | 7.6   | 7.6   | 6.8   | 6.8   | 6.8   |
| 77.5° | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   |
| 80°   | 0.8   | 0.8   | 0.8   | 0.8   | 1.7   | 1.7   | 1.7   | 1.7   | 2.5   | 2.5   | 2.5   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 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: P#  
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**CANDELA DISTRIBUTION (continued):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 |
| 2.5°  | 145.3 | 142.7 | 141.0 | 140.2 | 137.6 | 136.8 | 135.9 | 135.1 | 135.1 | 135.1 |
| 5°    | 141.9 | 137.6 | 133.4 | 130.8 | 127.4 | 125.7 | 124.0 | 123.2 | 122.3 | 122.3 |
| 7.5°  | 135.9 | 130.8 | 125.7 | 121.5 | 118.1 | 114.7 | 113.0 | 111.3 | 111.3 | 110.4 |
| 10°   | 130.0 | 123.2 | 117.2 | 111.3 | 107.9 | 103.6 | 101.9 | 100.2 | 99.4  | 99.4  |
| 12.5° | 123.2 | 114.7 | 107.9 | 102.8 | 97.7  | 94.3  | 91.8  | 90.1  | 89.2  | 89.2  |
| 15°   | 115.5 | 107.0 | 99.4  | 94.3  | 89.2  | 85.0  | 82.4  | 80.7  | 79.9  | 79.9  |
| 17.5° | 107.9 | 99.4  | 90.9  | 85.8  | 80.7  | 76.5  | 74.8  | 73.1  | 72.2  | 71.4  |
| 20°   | 101.1 | 90.9  | 84.1  | 77.3  | 73.1  | 69.7  | 67.1  | 65.4  | 64.6  | 64.6  |
| 22.5° | 93.4  | 84.1  | 76.5  | 71.4  | 67.1  | 63.7  | 60.3  | 59.5  | 58.6  | 58.6  |
| 25°   | 85.8  | 77.3  | 70.5  | 65.4  | 60.3  | 57.8  | 55.2  | 53.5  | 53.5  | 52.7  |
| 27.5° | 79.9  | 71.4  | 64.6  | 59.5  | 56.1  | 52.7  | 51.0  | 49.3  | 48.4  | 48.4  |
| 30°   | 73.1  | 65.4  | 59.5  | 55.2  | 51.0  | 48.4  | 46.7  | 45.0  | 45.0  | 45.0  |
| 31°   | 71.4  | 63.7  | 57.8  | 52.7  | 49.3  | 46.7  | 45.0  | 44.2  | 43.3  | 43.3  |
| 32.5° | 67.1  | 60.3  | 54.4  | 50.1  | 46.7  | 44.2  | 42.5  | 41.6  | 41.6  | 40.8  |
| 35°   | 62.0  | 55.2  | 50.1  | 45.9  | 43.3  | 40.8  | 39.1  | 38.2  | 38.2  | 38.2  |
| 37.5° | 56.9  | 51.0  | 45.9  | 42.5  | 39.9  | 37.4  | 36.5  | 34.8  | 34.8  | 34.8  |
| 40°   | 51.8  | 46.7  | 42.5  | 39.1  | 36.5  | 34.8  | 34.0  | 33.1  | 32.3  | 32.3  |
| 42.5° | 47.6  | 42.5  | 39.1  | 36.5  | 34.0  | 32.3  | 31.4  | 30.6  | 30.6  | 29.7  |
| 45°   | 43.3  | 39.1  | 36.5  | 34.0  | 31.4  | 30.6  | 29.7  | 28.9  | 28.0  | 28.0  |
| 47.5° | 39.9  | 36.5  | 33.1  | 31.4  | 29.7  | 28.0  | 27.2  | 27.2  | 26.3  | 26.3  |
| 50°   | 36.5  | 33.1  | 30.6  | 28.9  | 27.2  | 26.3  | 25.5  | 25.5  | 24.6  | 24.6  |
| 52.5° | 34.0  | 30.6  | 28.9  | 27.2  | 25.5  | 24.6  | 23.8  | 23.8  | 22.9  | 22.9  |
| 55°   | 30.6  | 28.0  | 26.3  | 25.5  | 23.8  | 22.9  | 22.1  | 21.2  | 21.2  | 22.1  |
| 57.5° | 28.0  | 26.3  | 24.6  | 23.8  | 22.1  | 21.2  | 20.4  | 20.4  | 19.5  | 20.4  |
| 60°   | 25.5  | 23.8  | 22.1  | 21.2  | 20.4  | 19.5  | 18.7  | 17.8  | 17.8  | 17.8  |
| 62.5° | 22.9  | 21.2  | 20.4  | 18.7  | 17.8  | 17.8  | 17.0  | 17.0  | 17.0  | 16.1  |
| 65°   | 19.5  | 18.7  | 17.8  | 17.0  | 16.1  | 15.3  | 15.3  | 14.4  | 14.4  | 14.4  |
| 67.5° | 16.1  | 15.3  | 14.4  | 14.4  | 13.6  | 12.7  | 12.7  | 12.7  | 12.7  | 11.9  |
| 70°   | 12.7  | 11.9  | 11.9  | 11.0  | 11.0  | 11.0  | 10.2  | 10.2  | 10.2  | 10.2  |
| 72.5° | 9.3   | 9.3   | 8.5   | 8.5   | 8.5   | 8.5   | 7.6   | 7.6   | 7.6   | 7.6   |
| 75°   | 6.8   | 6.8   | 6.8   | 5.9   | 5.9   | 5.9   | 5.1   | 5.1   | 5.1   | 5.1   |
| 77.5° | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 80°   | 2.5   | 2.5   | 2.5   | 2.5   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 0.8   |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 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)