

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: P3ART13R709835DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

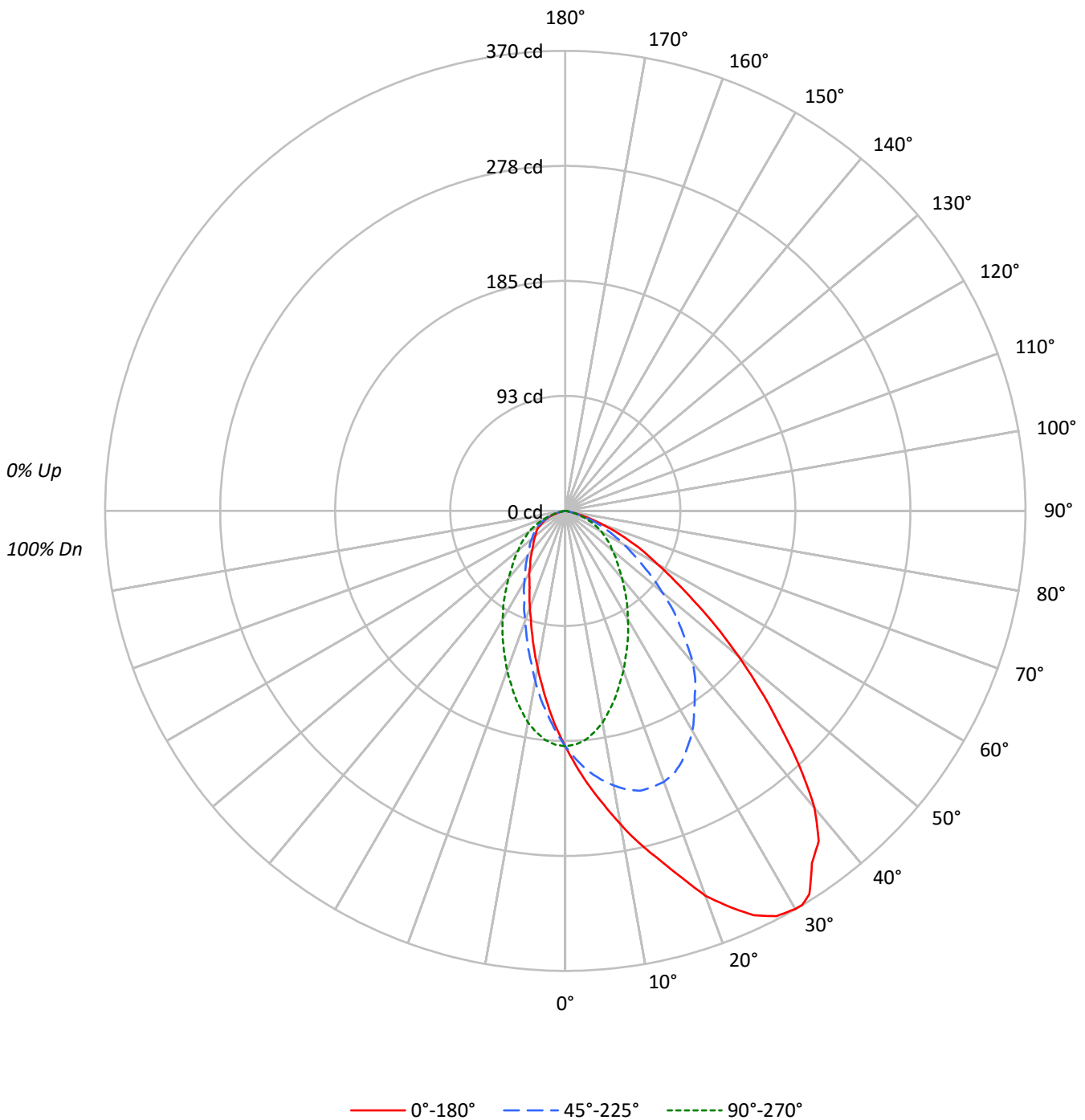
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709835DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 385.0 lumens  
Efficiency: N/A  
Efficacy: 26.6 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): 14.5  
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

TEST NUMBER: P#  
CATALOG NUMBER: P3ART13R709835DE010 E3LCWW1GPH

### Luminous Intensity Polar Plot





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

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 41488 | 41488 | 41488 | 41488 | 41488 |
| 5°  | 48888 | 46225 | 40700 | 36121 | 34669 |
| 10° | 57002 | 49921 | 38476 | 30928 | 28501 |
| 15° | 65812 | 52895 | 35256 | 26084 | 23337 |
| 20° | 76843 | 54115 | 31899 | 21959 | 19392 |
| 25° | 86811 | 53737 | 28574 | 18799 | 16404 |
| 30° | 93609 | 51805 | 25472 | 16610 | 14686 |
| 35° | 92541 | 48613 | 22834 | 14937 | 13170 |
| 40° | 89253 | 45714 | 20352 | 13454 | 11908 |
| 45° | 75636 | 40376 | 18327 | 12559 | 11195 |
| 50° | 61951 | 34694 | 16784 | 11940 | 10814 |
| 55° | 48094 | 28864 | 15904 | 11699 | 10857 |
| 60° | 37409 | 23989 | 14867 | 11534 | 10087 |
| 65° | 29523 | 19872 | 13075 | 10792 | 9651  |
| 70° | 20324 | 14746 | 10515 | 9104  | 8399  |
| 75° | 10167 | 8303  | 7456  | 6524  | 5592  |
| 80° | 1389  | 2778  | 4167  | 2778  | 1389  |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 75636 cd/sqm



TEST NUMBER: P#

CATALOG NUMBER: P3ART13R709835DE010 E3LCWW1GPH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.7   | 4.6       |
| 10°-20°   | 49.3   | 12.8      |
| 20°-30°   | 72.7   | 18.9      |
| 30°-40°   | 81.5   | 21.2      |
| 40°-50°   | 71.6   | 18.6      |
| 50°-60°   | 51.2   | 13.3      |
| 60°-70°   | 30.4   | 7.9       |
| 70°-80°   | 10.2   | 2.6       |
| 80°-90°   | 0.5    | 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°    | 139.7  | 36.3      |
| 0°-40°    | 221.1  | 57.4      |
| 0°-60°    | 344.0  | 89.3      |
| 0°-90°    | 385.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 385.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 189 | 189 | 189 | 189  | 189  |      |
| 5°  | 222 | 210 | 185 | 164  | 158  | 22   |
| 15° | 290 | 233 | 155 | 115  | 103  | 84   |
| 25° | 359 | 222 | 118 | 78   | 68   | 165  |
| 35° | 346 | 182 | 85  | 56   | 49   | 217  |
| 45° | 244 | 130 | 59  | 40   | 36   | 189  |
| 55° | 126 | 76  | 42  | 31   | 28   | 115  |
| 65° | 57  | 38  | 25  | 21   | 19   | 57   |
| 75° | 12  | 10  | 9   | 8    | 7    | 15   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P#  
 CATALOG NUMBER: P3ART13R709835DE010 E3LCWW1GPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 |
| 2.5°  | 205.7 | 205.7 | 205.7 | 203.5 | 203.5 | 200.2 | 198.0 | 194.7 | 192.5 | 189.2 | 188.1 |
| 5°    | 222.1 | 222.1 | 219.9 | 217.7 | 214.4 | 210.0 | 204.6 | 199.1 | 192.5 | 187.1 | 184.9 |
| 7.5°  | 238.5 | 239.6 | 236.3 | 231.9 | 225.3 | 217.7 | 210.0 | 201.3 | 191.4 | 183.8 | 179.4 |
| 10°   | 256.0 | 256.0 | 251.6 | 245.0 | 235.2 | 224.2 | 212.2 | 200.2 | 188.1 | 177.2 | 172.8 |
| 12.5° | 273.5 | 272.4 | 266.9 | 257.1 | 245.0 | 229.7 | 213.3 | 198.0 | 183.8 | 170.6 | 164.1 |
| 15°   | 289.9 | 289.9 | 282.2 | 270.2 | 252.7 | 233.0 | 213.3 | 193.6 | 177.2 | 161.9 | 155.3 |
| 17.5° | 308.5 | 308.5 | 298.6 | 280.0 | 258.2 | 233.0 | 210.0 | 188.1 | 169.6 | 153.1 | 145.5 |
| 20°   | 329.3 | 328.2 | 313.9 | 288.8 | 260.3 | 231.9 | 205.7 | 181.6 | 160.8 | 143.3 | 136.7 |
| 22.5° | 344.6 | 343.5 | 327.1 | 296.4 | 261.4 | 228.6 | 198.0 | 172.8 | 152.1 | 134.5 | 126.9 |
| 25°   | 358.8 | 356.6 | 338.0 | 299.7 | 259.3 | 222.1 | 190.3 | 163.0 | 143.3 | 125.8 | 118.1 |
| 27.5° | 367.5 | 366.5 | 345.7 | 298.6 | 253.8 | 213.3 | 180.5 | 154.2 | 133.5 | 116.0 | 109.4 |
| 30°   | 369.7 | 370.8 | 345.7 | 293.2 | 245.0 | 204.6 | 170.6 | 144.4 | 123.6 | 108.3 | 100.6 |
| 31°   | 369.7 | 370.8 | 343.5 | 289.9 | 241.8 | 200.2 | 166.3 | 141.1 | 119.2 | 103.9 | 97.4  |
| 32.5° | 365.4 | 363.2 | 340.2 | 284.4 | 234.1 | 192.5 | 160.8 | 135.6 | 113.8 | 98.5  | 93.0  |
| 35°   | 345.7 | 346.8 | 329.3 | 272.4 | 223.2 | 181.6 | 149.9 | 124.7 | 103.9 | 90.8  | 85.3  |
| 37.5° | 334.7 | 334.7 | 303.0 | 256.0 | 211.1 | 171.7 | 136.7 | 112.7 | 95.2  | 83.1  | 77.7  |
| 40°   | 311.8 | 308.5 | 278.9 | 238.5 | 196.9 | 159.7 | 129.1 | 105.0 | 87.5  | 75.5  | 71.1  |
| 42.5° | 278.9 | 275.7 | 252.7 | 223.2 | 178.3 | 144.4 | 122.5 | 93.0  | 78.8  | 68.9  | 64.5  |
| 45°   | 243.9 | 241.8 | 224.2 | 196.9 | 160.8 | 130.2 | 106.1 | 85.3  | 72.2  | 62.4  | 59.1  |
| 47.5° | 212.2 | 208.9 | 195.8 | 175.0 | 145.5 | 117.0 | 91.9  | 76.6  | 64.5  | 56.9  | 54.7  |
| 50°   | 181.6 | 180.5 | 169.6 | 153.1 | 129.1 | 101.7 | 80.9  | 67.8  | 59.1  | 52.5  | 49.2  |
| 52.5° | 153.1 | 151.0 | 145.5 | 132.4 | 112.7 | 88.6  | 71.1  | 60.2  | 52.5  | 48.1  | 45.9  |
| 55°   | 125.8 | 125.8 | 120.3 | 111.6 | 96.3  | 75.5  | 62.4  | 53.6  | 47.0  | 43.8  | 41.6  |
| 57.5° | 103.9 | 103.9 | 99.5  | 94.1  | 79.9  | 64.5  | 54.7  | 47.0  | 42.7  | 39.4  | 37.2  |
| 60°   | 85.3  | 85.3  | 82.0  | 76.6  | 66.7  | 54.7  | 47.0  | 41.6  | 38.3  | 35.0  | 33.9  |
| 62.5° | 71.1  | 70.0  | 67.8  | 62.4  | 54.7  | 45.9  | 40.5  | 36.1  | 32.8  | 30.6  | 29.5  |
| 65°   | 56.9  | 55.8  | 53.6  | 49.2  | 43.8  | 38.3  | 33.9  | 30.6  | 28.4  | 26.3  | 25.2  |
| 67.5° | 43.8  | 43.8  | 41.6  | 38.3  | 33.9  | 30.6  | 27.3  | 25.2  | 23.0  | 21.9  | 20.8  |
| 70°   | 31.7  | 31.7  | 30.6  | 28.4  | 25.2  | 23.0  | 20.8  | 19.7  | 18.6  | 17.5  | 16.4  |
| 72.5° | 21.9  | 21.9  | 20.8  | 19.7  | 17.5  | 16.4  | 14.2  | 14.2  | 13.1  | 13.1  | 12.0  |
| 75°   | 12.0  | 12.0  | 12.0  | 10.9  | 10.9  | 9.8   | 9.8   | 9.8   | 8.8   | 8.8   | 8.8   |
| 77.5° | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 80°   | 1.1   | 1.1   | 1.1   | 1.1   | 2.2   | 2.2   | 2.2   | 2.2   | 3.3   | 3.3   | 3.3   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 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°    | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 | 189.2 |
| 2.5°  | 187.1 | 183.8 | 181.6 | 180.5 | 177.2 | 176.1 | 175.0 | 173.9 | 173.9 | 173.9 |
| 5°    | 182.7 | 177.2 | 171.7 | 168.5 | 164.1 | 161.9 | 159.7 | 158.6 | 157.5 | 157.5 |
| 7.5°  | 175.0 | 168.5 | 161.9 | 156.4 | 152.1 | 147.7 | 145.5 | 143.3 | 143.3 | 142.2 |
| 10°   | 167.4 | 158.6 | 151.0 | 143.3 | 138.9 | 133.5 | 131.3 | 129.1 | 128.0 | 128.0 |
| 12.5° | 158.6 | 147.7 | 138.9 | 132.4 | 125.8 | 121.4 | 118.1 | 116.0 | 114.9 | 114.9 |
| 15°   | 148.8 | 137.8 | 128.0 | 121.4 | 114.9 | 109.4 | 106.1 | 103.9 | 102.8 | 102.8 |
| 17.5° | 138.9 | 128.0 | 117.0 | 110.5 | 103.9 | 98.5  | 96.3  | 94.1  | 93.0  | 91.9  |
| 20°   | 130.2 | 117.0 | 108.3 | 99.5  | 94.1  | 89.7  | 86.4  | 84.2  | 83.1  | 83.1  |
| 22.5° | 120.3 | 108.3 | 98.5  | 91.9  | 86.4  | 82.0  | 77.7  | 76.6  | 75.5  | 75.5  |
| 25°   | 110.5 | 99.5  | 90.8  | 84.2  | 77.7  | 74.4  | 71.1  | 68.9  | 68.9  | 67.8  |
| 27.5° | 102.8 | 91.9  | 83.1  | 76.6  | 72.2  | 67.8  | 65.6  | 63.4  | 62.4  | 62.4  |
| 30°   | 94.1  | 84.2  | 76.6  | 71.1  | 65.6  | 62.4  | 60.2  | 58.0  | 58.0  | 58.0  |
| 31°   | 91.9  | 82.0  | 74.4  | 67.8  | 63.4  | 60.2  | 58.0  | 56.9  | 55.8  | 55.8  |
| 32.5° | 86.4  | 77.7  | 70.0  | 64.5  | 60.2  | 56.9  | 54.7  | 53.6  | 53.6  | 52.5  |
| 35°   | 79.9  | 71.1  | 64.5  | 59.1  | 55.8  | 52.5  | 50.3  | 49.2  | 49.2  | 49.2  |
| 37.5° | 73.3  | 65.6  | 59.1  | 54.7  | 51.4  | 48.1  | 47.0  | 44.8  | 44.8  | 44.8  |
| 40°   | 66.7  | 60.2  | 54.7  | 50.3  | 47.0  | 44.8  | 43.8  | 42.7  | 41.6  | 41.6  |
| 42.5° | 61.3  | 54.7  | 50.3  | 47.0  | 43.8  | 41.6  | 40.5  | 39.4  | 39.4  | 38.3  |
| 45°   | 55.8  | 50.3  | 47.0  | 43.8  | 40.5  | 39.4  | 38.3  | 37.2  | 36.1  | 36.1  |
| 47.5° | 51.4  | 47.0  | 42.7  | 40.5  | 38.3  | 36.1  | 35.0  | 35.0  | 33.9  | 33.9  |
| 50°   | 47.0  | 42.7  | 39.4  | 37.2  | 35.0  | 33.9  | 32.8  | 32.8  | 31.7  | 31.7  |
| 52.5° | 43.8  | 39.4  | 37.2  | 35.0  | 32.8  | 31.7  | 30.6  | 30.6  | 29.5  | 29.5  |
| 55°   | 39.4  | 36.1  | 33.9  | 32.8  | 30.6  | 29.5  | 28.4  | 27.3  | 27.3  | 28.4  |
| 57.5° | 36.1  | 33.9  | 31.7  | 30.6  | 28.4  | 27.3  | 26.3  | 26.3  | 25.2  | 26.3  |
| 60°   | 32.8  | 30.6  | 28.4  | 27.3  | 26.3  | 25.2  | 24.1  | 23.0  | 23.0  | 23.0  |
| 62.5° | 29.5  | 27.3  | 26.3  | 24.1  | 23.0  | 23.0  | 21.9  | 21.9  | 21.9  | 20.8  |
| 65°   | 25.2  | 24.1  | 23.0  | 21.9  | 20.8  | 19.7  | 19.7  | 18.6  | 18.6  | 18.6  |
| 67.5° | 20.8  | 19.7  | 18.6  | 18.6  | 17.5  | 16.4  | 16.4  | 16.4  | 16.4  | 15.3  |
| 70°   | 16.4  | 15.3  | 15.3  | 14.2  | 14.2  | 14.2  | 13.1  | 13.1  | 13.1  | 13.1  |
| 72.5° | 12.0  | 12.0  | 10.9  | 10.9  | 10.9  | 10.9  | 9.8   | 9.8   | 9.8   | 9.8   |
| 75°   | 8.8   | 8.8   | 8.8   | 7.7   | 7.7   | 7.7   | 6.6   | 6.6   | 6.6   | 6.6   |
| 77.5° | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 80°   | 3.3   | 3.3   | 3.3   | 3.3   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 1.1   |
| 82.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 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)