

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: P1446449

Luminaire Tested: P3ART13R709730DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

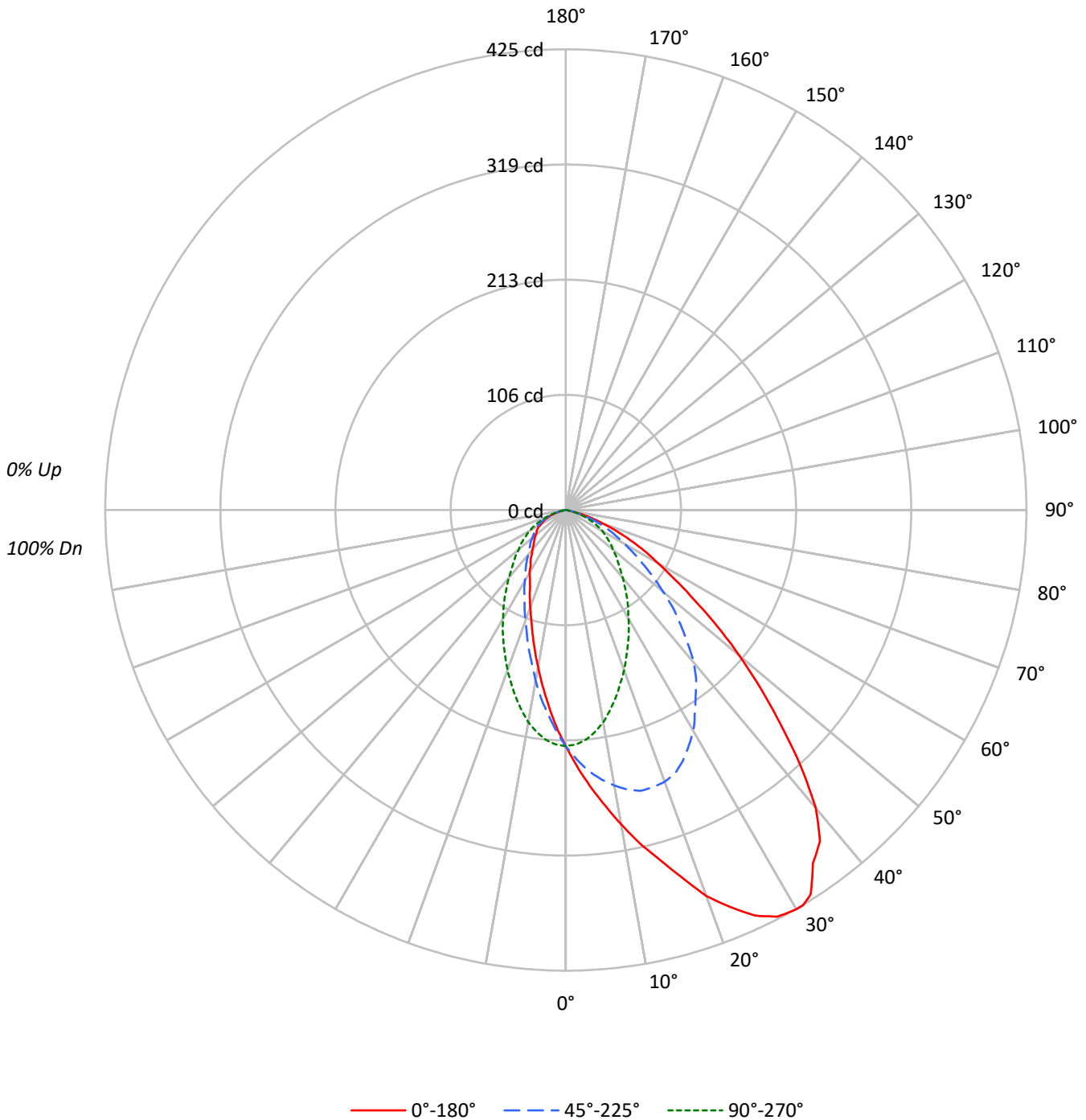
Test Method: LM-79-2019  
Report Number: P1446449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709730DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 443.0 lumens  
Efficiency: N/A  
Efficacy: 30.3 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): 14.6  
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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 93  | 92  | 90  | 88  |
| 2   | 102 | 95  | 90  | 85  | 100 | 93  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 84  | 81  | 78  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 76  | 72  | 68  | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 69  | 64  | 60  | 58  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 53  | 62  | 57  | 53  | 51  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 57  | 52  | 47  | 46  |
| 7   | 70  | 57  | 49  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  | 54  | 48  | 43  | 52  | 47  | 43  | 52  | 47  | 43  | 41  |
| 8   | 65  | 53  | 45  | 39  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 48  | 43  | 39  | 48  | 43  | 39  | 37  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 45  | 39  | 35  | 34  |
| 10  | 57  | 45  | 38  | 33  | 56  | 45  | 37  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 42  | 36  | 32  | 42  | 36  | 32  | 31  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 47759  | 47759 | 47759 | 47759 | 47759 |
| 5°  | 56240  | 53203 | 46819 | 41558 | 39907 |
| 10° | 65574  | 57447 | 44288 | 35604 | 32798 |
| 15° | 75733  | 60863 | 40568 | 30012 | 26856 |
| 20° | 88418  | 62259 | 36707 | 25249 | 22332 |
| 25° | 99877  | 61818 | 32881 | 21630 | 18872 |
| 30° | 107713 | 59604 | 29321 | 19117 | 16889 |
| 35° | 106461 | 55921 | 26287 | 17186 | 15151 |
| 40° | 102678 | 52613 | 23415 | 15486 | 13683 |
| 45° | 87048  | 46454 | 21087 | 14451 | 12870 |
| 50° | 71264  | 39948 | 19309 | 13748 | 12452 |
| 55° | 55319  | 33184 | 18274 | 13457 | 12501 |
| 60° | 43067  | 27586 | 17104 | 13245 | 11578 |
| 65° | 33985  | 22882 | 14995 | 12401 | 11104 |
| 70° | 23401  | 16926 | 12117 | 10515 | 9681  |
| 75° | 11692  | 9574  | 8557  | 7456  | 6439  |
| 80° | 1642   | 3157  | 4799  | 3157  | 1642  |
| 85° | 0      | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 87048 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.4   | 4.6       |
| 10°-20°   | 56.7   | 12.8      |
| 20°-30°   | 83.6   | 18.9      |
| 30°-40°   | 93.7   | 21.2      |
| 40°-50°   | 82.4   | 18.6      |
| 50°-60°   | 59.0   | 13.3      |
| 60°-70°   | 34.9   | 7.9       |
| 70°-80°   | 11.7   | 2.6       |
| 80°-90°   | 0.6    | 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°    | 160.7  | 36.3      |
| 0°-40°    | 254.4  | 57.4      |
| 0°-60°    | 395.8  | 89.3      |
| 0°-90°    | 443.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 443.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 218 | 218 | 218 | 218  | 218  |      |
| 5°  | 256 | 242 | 213 | 189  | 181  | 26   |
| 15° | 334 | 268 | 179 | 132  | 118  | 96   |
| 25° | 413 | 256 | 136 | 89   | 78   | 190  |
| 35° | 398 | 209 | 98  | 64   | 57   | 250  |
| 45° | 281 | 150 | 68  | 47   | 42   | 217  |
| 55° | 145 | 87  | 48  | 35   | 33   | 132  |
| 65° | 66  | 44  | 29  | 24   | 21   | 65   |
| 75° | 14  | 11  | 10  | 9    | 8    | 17   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 |
| 2.5°  | 236.6 | 236.6 | 236.6 | 234.1 | 234.1 | 230.3 | 227.8 | 224.0 | 221.5 | 217.8 | 216.5 |
| 5°    | 255.5 | 255.5 | 253.0 | 250.5 | 246.7 | 241.7 | 235.4 | 229.1 | 221.5 | 215.2 | 212.7 |
| 7.5°  | 274.4 | 275.7 | 271.9 | 266.8 | 259.3 | 250.5 | 241.7 | 231.6 | 220.3 | 211.5 | 206.4 |
| 10°   | 294.5 | 294.5 | 289.5 | 281.9 | 270.6 | 258.0 | 244.2 | 230.3 | 216.5 | 203.9 | 198.9 |
| 12.5° | 314.7 | 313.4 | 307.1 | 295.8 | 281.9 | 264.3 | 245.4 | 227.8 | 211.5 | 196.4 | 188.8 |
| 15°   | 333.6 | 333.6 | 324.7 | 310.9 | 290.8 | 268.1 | 245.4 | 222.8 | 203.9 | 186.3 | 178.7 |
| 17.5° | 355.0 | 355.0 | 343.6 | 322.2 | 297.1 | 268.1 | 241.7 | 216.5 | 195.1 | 176.2 | 167.4 |
| 20°   | 378.9 | 377.6 | 361.2 | 332.3 | 299.6 | 266.8 | 236.6 | 208.9 | 185.0 | 164.9 | 157.3 |
| 22.5° | 396.5 | 395.2 | 376.3 | 341.1 | 300.8 | 263.1 | 227.8 | 198.9 | 175.0 | 154.8 | 146.0 |
| 25°   | 412.8 | 410.3 | 388.9 | 344.9 | 298.3 | 255.5 | 219.0 | 187.5 | 164.9 | 144.7 | 135.9 |
| 27.5° | 422.9 | 421.7 | 397.7 | 343.6 | 292.0 | 245.4 | 207.7 | 177.5 | 153.6 | 133.4 | 125.9 |
| 30°   | 425.4 | 426.7 | 397.7 | 337.3 | 281.9 | 235.4 | 196.4 | 166.1 | 142.2 | 124.6 | 115.8 |
| 31°   | 425.4 | 426.7 | 395.2 | 333.6 | 278.2 | 230.3 | 191.3 | 162.4 | 137.2 | 119.6 | 112.0 |
| 32.5° | 420.4 | 417.9 | 391.5 | 327.3 | 269.4 | 221.5 | 185.0 | 156.1 | 130.9 | 113.3 | 107.0 |
| 35°   | 397.7 | 399.0 | 378.9 | 313.4 | 256.8 | 208.9 | 172.4 | 143.5 | 119.6 | 104.5 | 98.2  |
| 37.5° | 385.2 | 385.2 | 348.7 | 294.5 | 242.9 | 197.6 | 157.3 | 129.6 | 109.5 | 95.7  | 89.4  |
| 40°   | 358.7 | 355.0 | 321.0 | 274.4 | 226.6 | 183.8 | 148.5 | 120.8 | 100.7 | 86.8  | 81.8  |
| 42.5° | 321.0 | 317.2 | 290.8 | 256.8 | 205.2 | 166.1 | 141.0 | 107.0 | 90.6  | 79.3  | 74.3  |
| 45°   | 280.7 | 278.2 | 258.0 | 226.6 | 185.0 | 149.8 | 122.1 | 98.2  | 83.1  | 71.7  | 68.0  |
| 47.5° | 244.2 | 240.4 | 225.3 | 201.4 | 167.4 | 134.7 | 105.7 | 88.1  | 74.3  | 65.5  | 62.9  |
| 50°   | 208.9 | 207.7 | 195.1 | 176.2 | 148.5 | 117.1 | 93.1  | 78.0  | 68.0  | 60.4  | 56.6  |
| 52.5° | 176.2 | 173.7 | 167.4 | 152.3 | 129.6 | 102.0 | 81.8  | 69.2  | 60.4  | 55.4  | 52.9  |
| 55°   | 144.7 | 144.7 | 138.5 | 128.4 | 110.8 | 86.8  | 71.7  | 61.7  | 54.1  | 50.3  | 47.8  |
| 57.5° | 119.6 | 119.6 | 114.5 | 108.2 | 91.9  | 74.3  | 62.9  | 54.1  | 49.1  | 45.3  | 42.8  |
| 60°   | 98.2  | 98.2  | 94.4  | 88.1  | 76.8  | 62.9  | 54.1  | 47.8  | 44.1  | 40.3  | 39.0  |
| 62.5° | 81.8  | 80.6  | 78.0  | 71.7  | 62.9  | 52.9  | 46.6  | 41.5  | 37.8  | 35.2  | 34.0  |
| 65°   | 65.5  | 64.2  | 61.7  | 56.6  | 50.3  | 44.1  | 39.0  | 35.2  | 32.7  | 30.2  | 28.9  |
| 67.5° | 50.3  | 50.3  | 47.8  | 44.1  | 39.0  | 35.2  | 31.5  | 28.9  | 26.4  | 25.2  | 23.9  |
| 70°   | 36.5  | 36.5  | 35.2  | 32.7  | 28.9  | 26.4  | 23.9  | 22.7  | 21.4  | 20.1  | 18.9  |
| 72.5° | 25.2  | 25.2  | 23.9  | 22.7  | 20.1  | 18.9  | 16.4  | 16.4  | 15.1  | 15.1  | 13.8  |
| 75°   | 13.8  | 13.8  | 13.8  | 12.6  | 12.6  | 11.3  | 11.3  | 11.3  | 10.1  | 10.1  | 10.1  |
| 77.5° | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   |
| 80°   | 1.3   | 1.3   | 1.3   | 1.3   | 2.5   | 2.5   | 2.5   | 2.5   | 3.8   | 3.8   | 3.8   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |
| 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°    | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 | 217.8 |
| 2.5°  | 215.2 | 211.5 | 208.9 | 207.7 | 203.9 | 202.6 | 201.4 | 200.1 | 200.1 | 200.1 |
| 5°    | 210.2 | 203.9 | 197.6 | 193.8 | 188.8 | 186.3 | 183.8 | 182.5 | 181.3 | 181.3 |
| 7.5°  | 201.4 | 193.8 | 186.3 | 180.0 | 175.0 | 169.9 | 167.4 | 164.9 | 164.9 | 163.6 |
| 10°   | 192.6 | 182.5 | 173.7 | 164.9 | 159.9 | 153.6 | 151.0 | 148.5 | 147.3 | 147.3 |
| 12.5° | 182.5 | 169.9 | 159.9 | 152.3 | 144.7 | 139.7 | 135.9 | 133.4 | 132.2 | 132.2 |
| 15°   | 171.2 | 158.6 | 147.3 | 139.7 | 132.2 | 125.9 | 122.1 | 119.6 | 118.3 | 118.3 |
| 17.5° | 159.9 | 147.3 | 134.7 | 127.1 | 119.6 | 113.3 | 110.8 | 108.2 | 107.0 | 105.7 |
| 20°   | 149.8 | 134.7 | 124.6 | 114.5 | 108.2 | 103.2 | 99.4  | 96.9  | 95.7  | 95.7  |
| 22.5° | 138.5 | 124.6 | 113.3 | 105.7 | 99.4  | 94.4  | 89.4  | 88.1  | 86.8  | 86.8  |
| 25°   | 127.1 | 114.5 | 104.5 | 96.9  | 89.4  | 85.6  | 81.8  | 79.3  | 79.3  | 78.0  |
| 27.5° | 118.3 | 105.7 | 95.7  | 88.1  | 83.1  | 78.0  | 75.5  | 73.0  | 71.7  | 71.7  |
| 30°   | 108.2 | 96.9  | 88.1  | 81.8  | 75.5  | 71.7  | 69.2  | 66.7  | 66.7  | 66.7  |
| 31°   | 105.7 | 94.4  | 85.6  | 78.0  | 73.0  | 69.2  | 66.7  | 65.5  | 64.2  | 64.2  |
| 32.5° | 99.4  | 89.4  | 80.6  | 74.3  | 69.2  | 65.5  | 62.9  | 61.7  | 61.7  | 60.4  |
| 35°   | 91.9  | 81.8  | 74.3  | 68.0  | 64.2  | 60.4  | 57.9  | 56.6  | 56.6  | 56.6  |
| 37.5° | 84.3  | 75.5  | 68.0  | 62.9  | 59.2  | 55.4  | 54.1  | 51.6  | 51.6  | 51.6  |
| 40°   | 76.8  | 69.2  | 62.9  | 57.9  | 54.1  | 51.6  | 50.3  | 49.1  | 47.8  | 47.8  |
| 42.5° | 70.5  | 62.9  | 57.9  | 54.1  | 50.3  | 47.8  | 46.6  | 45.3  | 45.3  | 44.1  |
| 45°   | 64.2  | 57.9  | 54.1  | 50.3  | 46.6  | 45.3  | 44.1  | 42.8  | 41.5  | 41.5  |
| 47.5° | 59.2  | 54.1  | 49.1  | 46.6  | 44.1  | 41.5  | 40.3  | 40.3  | 39.0  | 39.0  |
| 50°   | 54.1  | 49.1  | 45.3  | 42.8  | 40.3  | 39.0  | 37.8  | 37.8  | 36.5  | 36.5  |
| 52.5° | 50.3  | 45.3  | 42.8  | 40.3  | 37.8  | 36.5  | 35.2  | 35.2  | 34.0  | 34.0  |
| 55°   | 45.3  | 41.5  | 39.0  | 37.8  | 35.2  | 34.0  | 32.7  | 31.5  | 31.5  | 32.7  |
| 57.5° | 41.5  | 39.0  | 36.5  | 35.2  | 32.7  | 31.5  | 30.2  | 30.2  | 28.9  | 30.2  |
| 60°   | 37.8  | 35.2  | 32.7  | 31.5  | 30.2  | 28.9  | 27.7  | 26.4  | 26.4  | 26.4  |
| 62.5° | 34.0  | 31.5  | 30.2  | 27.7  | 26.4  | 26.4  | 25.2  | 25.2  | 25.2  | 23.9  |
| 65°   | 28.9  | 27.7  | 26.4  | 25.2  | 23.9  | 22.7  | 22.7  | 21.4  | 21.4  | 21.4  |
| 67.5° | 23.9  | 22.7  | 21.4  | 21.4  | 20.1  | 18.9  | 18.9  | 18.9  | 18.9  | 17.6  |
| 70°   | 18.9  | 17.6  | 17.6  | 16.4  | 16.4  | 16.4  | 15.1  | 15.1  | 15.1  | 15.1  |
| 72.5° | 13.8  | 13.8  | 12.6  | 12.6  | 12.6  | 12.6  | 11.3  | 11.3  | 11.3  | 11.3  |
| 75°   | 10.1  | 10.1  | 10.1  | 8.8   | 8.8   | 8.8   | 7.6   | 7.6   | 7.6   | 7.6   |
| 77.5° | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| 80°   | 3.8   | 3.8   | 3.8   | 3.8   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 1.3   |
| 82.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 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)