

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: P1316332

Luminaire Tested: P3SQAS13R709827DE010 E3SQCLSWW1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R709827DE010 E3SQCLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCLSWW1MMS TR  
Light Source: -  
Ballast/Driver: -

**Summary**

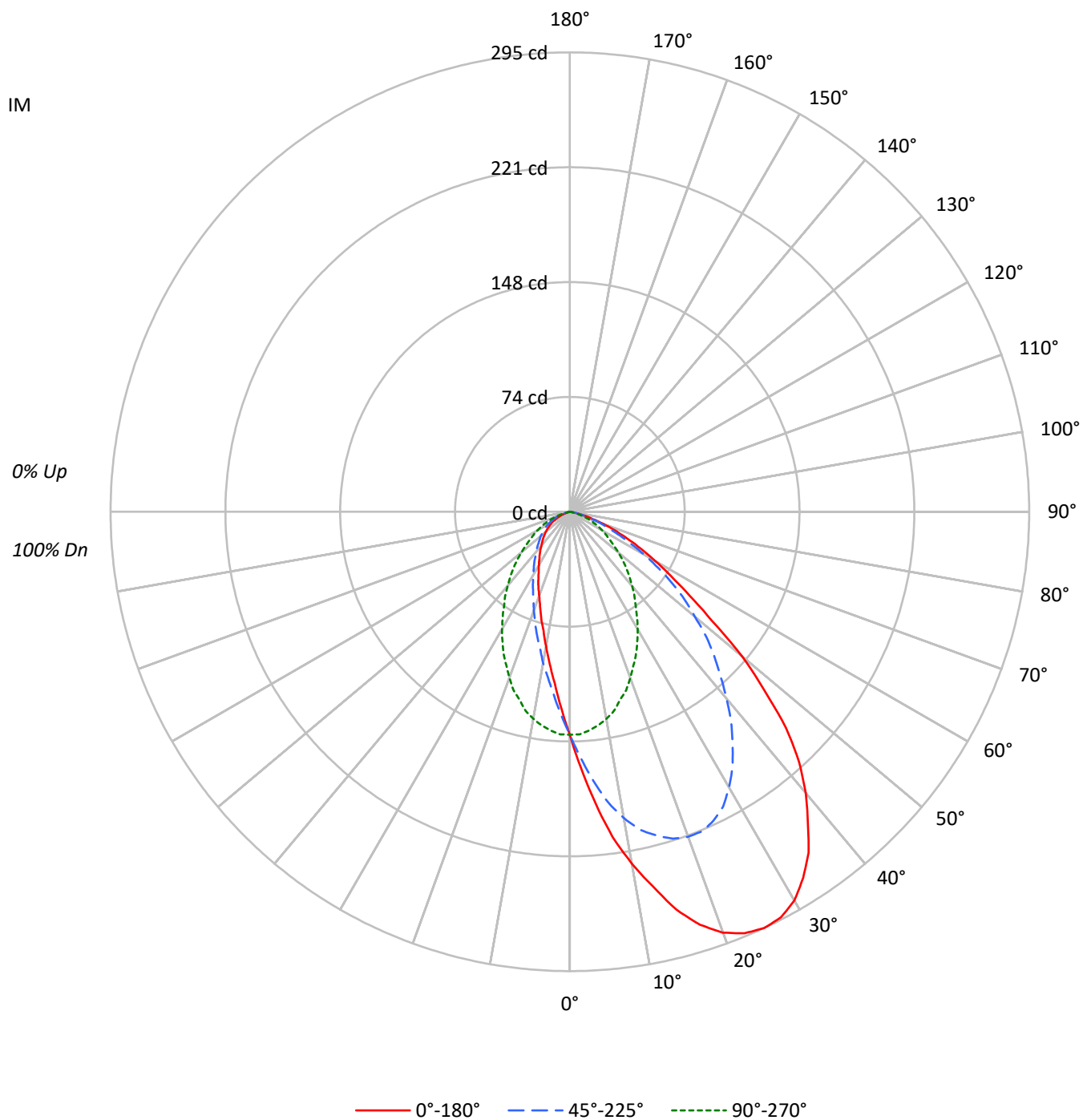
Lumens per Lamp: N/A  
Luminaire Lumens: 321.0 lumens  
Efficiency: N/A  
Efficacy: 22.1 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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 |
| 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 |    |    |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 89  |    |    |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 67  |    |    |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |
| 6   | 75  | 63  | 55  | 50  | 74  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 46  |    |    |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |
| 8   | 66  | 53  | 45  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 38  |    |    |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |
| 10  | 58  | 45  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 24645 | 24645 | 24645 | 24645 | 24645 |
| 5°  | 32450 | 29995 | 24393 | 20417 | 19138 |
| 10° | 40135 | 34941 | 23609 | 17243 | 15354 |
| 15° | 47178 | 38388 | 22269 | 14567 | 12641 |
| 20° | 52710 | 40705 | 20783 | 12371 | 10520 |
| 25° | 56058 | 41559 | 19117 | 10641 | 9102  |
| 30° | 57333 | 40668 | 17321 | 9267  | 7915  |
| 35° | 56198 | 38328 | 15474 | 8368  | 7106  |
| 40° | 52968 | 35207 | 13961 | 7599  | 6385  |
| 45° | 47835 | 31906 | 12495 | 6917  | 5918  |
| 50° | 38716 | 28026 | 10851 | 6511  | 5439  |
| 55° | 28164 | 24111 | 9338  | 6095  | 4864  |
| 60° | 21872 | 19082 | 8370  | 5580  | 4409  |
| 65° | 16504 | 13774 | 6887  | 4972  | 3301  |
| 70° | 11582 | 9869  | 5086  | 3726  | 2065  |
| 75° | 6721  | 5856  | 2728  | 1797  | 466   |
| 80° | 1389  | 1984  | 694   | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47835 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.0   | 4.4       |
| 10°-20°   | 41.7   | 13.0      |
| 20°-30°   | 62.9   | 19.6      |
| 30°-40°   | 69.9   | 21.8      |
| 40°-50°   | 62.0   | 19.3      |
| 50°-60°   | 42.1   | 13.1      |
| 60°-70°   | 22.1   | 6.9       |
| 70°-80°   | 6.3    | 2.0       |
| 80°-90°   | 0.2    | 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°    | 118.6  | 36.9      |
| 0°-40°    | 188.5  | 58.7      |
| 0°-60°    | 292.5  | 91.1      |
| 0°-90°    | 321.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 321.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 143 | 143 | 143 | 143  | 143  |      |
| 5°  | 188 | 174 | 141 | 118  | 111  | 19   |
| 15° | 265 | 215 | 125 | 82   | 71   | 75   |
| 25° | 295 | 219 | 101 | 56   | 48   | 135  |
| 35° | 267 | 182 | 74  | 40   | 34   | 166  |
| 45° | 196 | 131 | 51  | 28   | 24   | 149  |
| 55° | 94  | 80  | 31  | 20   | 16   | 87   |
| 65° | 40  | 34  | 17  | 12   | 8    | 41   |
| 75° | 10  | 9   | 4   | 3    | 1    | 11   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 |
| 2.5°  | 164.7 | 164.0 | 163.4 | 163.4 | 162.7 | 162.0 | 160.7 | 160.7 | 159.3 | 158.0 | 156.6 |
| 5°    | 187.7 | 187.7 | 187.7 | 185.6 | 185.6 | 182.9 | 181.6 | 178.9 | 176.2 | 173.5 | 170.1 |
| 7.5°  | 210.6 | 210.6 | 208.6 | 207.9 | 205.9 | 203.2 | 201.2 | 197.1 | 192.4 | 188.3 | 182.9 |
| 10°   | 229.5 | 229.5 | 227.5 | 226.1 | 222.1 | 219.4 | 215.3 | 210.6 | 205.9 | 199.8 | 193.1 |
| 12.5° | 246.4 | 247.1 | 244.4 | 241.7 | 237.6 | 233.6 | 228.2 | 222.1 | 216.0 | 209.3 | 200.5 |
| 15°   | 264.6 | 263.9 | 260.6 | 257.2 | 252.5 | 246.4 | 239.6 | 231.5 | 223.4 | 215.3 | 205.9 |
| 17.5° | 278.1 | 277.4 | 274.1 | 270.0 | 263.9 | 256.5 | 249.1 | 239.6 | 230.2 | 220.1 | 208.6 |
| 20°   | 287.6 | 286.9 | 283.5 | 278.1 | 272.0 | 263.9 | 255.2 | 244.4 | 234.2 | 222.1 | 209.3 |
| 22.5° | 293.0 | 292.3 | 288.3 | 283.5 | 276.1 | 267.3 | 257.9 | 246.4 | 234.9 | 222.1 | 207.9 |
| 25°   | 295.0 | 293.7 | 289.6 | 284.2 | 276.8 | 267.3 | 256.5 | 244.4 | 232.2 | 218.7 | 203.9 |
| 27.5° | 293.7 | 292.3 | 287.6 | 281.5 | 273.4 | 262.6 | 251.8 | 239.6 | 226.8 | 213.3 | 197.8 |
| 30°   | 288.3 | 286.2 | 282.2 | 276.1 | 267.3 | 256.5 | 245.0 | 232.2 | 218.7 | 204.5 | 189.0 |
| 32.5° | 278.8 | 277.4 | 273.4 | 266.6 | 257.9 | 247.1 | 235.6 | 222.1 | 208.6 | 194.4 | 178.9 |
| 35°   | 267.3 | 264.6 | 260.6 | 254.5 | 245.7 | 234.9 | 223.4 | 209.3 | 196.4 | 182.3 | 167.4 |
| 37.5° | 251.1 | 250.4 | 245.7 | 241.0 | 232.2 | 220.7 | 209.9 | 196.4 | 183.6 | 170.1 | 155.3 |
| 40°   | 235.6 | 234.2 | 230.2 | 224.8 | 216.0 | 205.9 | 194.4 | 182.3 | 169.4 | 156.6 | 143.1 |
| 42.5° | 218.0 | 216.0 | 213.3 | 207.9 | 199.8 | 189.7 | 178.9 | 166.7 | 155.3 | 143.1 | 131.0 |
| 45°   | 196.4 | 195.8 | 192.4 | 189.7 | 182.3 | 173.5 | 162.7 | 151.9 | 140.4 | 131.0 | 121.5 |
| 47.5° | 168.8 | 168.1 | 167.4 | 165.4 | 161.3 | 155.3 | 147.2 | 137.0 | 128.3 | 118.8 | 106.0 |
| 50°   | 144.5 | 143.8 | 142.4 | 141.8 | 138.4 | 135.0 | 128.9 | 122.9 | 115.4 | 104.6 | 94.5  |
| 52.5° | 114.8 | 115.4 | 117.5 | 118.1 | 117.5 | 114.8 | 112.1 | 110.0 | 99.9  | 93.2  | 83.7  |
| 55°   | 93.8  | 93.8  | 93.2  | 93.8  | 94.5  | 95.9  | 95.9  | 93.2  | 86.4  | 80.3  | 72.2  |
| 57.5° | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  | 77.6  | 77.6  | 77.0  | 73.6  | 67.5  | 60.1  |
| 60°   | 63.5  | 62.8  | 62.8  | 63.5  | 62.8  | 62.8  | 63.5  | 63.5  | 60.1  | 55.4  | 48.6  |
| 62.5° | 51.3  | 51.3  | 51.3  | 50.6  | 50.6  | 51.3  | 51.3  | 50.6  | 47.9  | 43.2  | 38.5  |
| 65°   | 40.5  | 40.5  | 40.5  | 40.5  | 40.5  | 41.2  | 40.5  | 39.8  | 37.1  | 33.8  | 30.4  |
| 67.5° | 31.1  | 31.1  | 31.7  | 31.1  | 31.7  | 31.7  | 31.7  | 30.4  | 28.4  | 25.7  | 23.6  |
| 70°   | 23.0  | 23.0  | 23.0  | 23.6  | 24.3  | 24.3  | 23.6  | 22.3  | 20.9  | 19.6  | 17.6  |
| 72.5° | 15.5  | 16.2  | 16.2  | 16.2  | 16.9  | 16.9  | 16.2  | 15.5  | 14.9  | 13.5  | 12.8  |
| 75°   | 10.1  | 9.5   | 10.1  | 10.1  | 10.8  | 10.8  | 10.1  | 10.1  | 9.5   | 8.8   | 8.1   |
| 77.5° | 4.7   | 4.7   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 4.7   | 4.7   |
| 80°   | 1.4   | 1.4   | 1.4   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 82.5° | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 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):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 143.1 | 143.1 | 143.1 | 143.1 | 143.1  | 143.1 | 143.1  | 143.1 |
| 2.5°  | 155.3 | 153.2 | 150.5 | 143.1 | 136.4  | 130.3 | 126.9  | 126.2 |
| 5°    | 166.1 | 163.4 | 156.6 | 141.1 | 128.3  | 118.1 | 112.1  | 110.7 |
| 7.5°  | 177.5 | 172.1 | 162.7 | 138.4 | 120.2  | 107.3 | 100.6  | 98.6  |
| 10°   | 186.3 | 179.6 | 166.7 | 135.0 | 112.1  | 98.6  | 90.5   | 87.8  |
| 12.5° | 192.4 | 184.3 | 170.1 | 131.0 | 105.3  | 89.1  | 81.0   | 78.3  |
| 15°   | 195.8 | 187.0 | 170.8 | 124.9 | 97.2   | 81.7  | 72.9   | 70.9  |
| 17.5° | 197.1 | 187.0 | 169.4 | 120.2 | 89.8   | 74.3  | 66.2   | 63.5  |
| 20°   | 196.4 | 184.3 | 166.1 | 113.4 | 83.0   | 67.5  | 59.4   | 57.4  |
| 22.5° | 193.7 | 180.2 | 160.7 | 106.7 | 76.3   | 60.8  | 54.0   | 52.7  |
| 25°   | 189.7 | 174.8 | 154.6 | 100.6 | 70.2   | 56.0  | 49.3   | 47.9  |
| 27.5° | 182.9 | 168.1 | 146.5 | 93.8  | 64.8   | 51.3  | 45.2   | 43.2  |
| 30°   | 174.2 | 160.0 | 138.4 | 87.1  | 59.4   | 46.6  | 41.2   | 39.8  |
| 32.5° | 164.7 | 150.5 | 130.3 | 80.3  | 54.7   | 43.2  | 37.8   | 36.5  |
| 35°   | 153.9 | 140.4 | 120.2 | 73.6  | 50.0   | 39.8  | 34.4   | 33.8  |
| 37.5° | 143.1 | 129.6 | 111.4 | 68.2  | 45.9   | 36.5  | 31.7   | 31.1  |
| 40°   | 131.0 | 120.2 | 106.7 | 62.1  | 42.5   | 33.8  | 29.7   | 28.4  |
| 42.5° | 123.5 | 108.7 | 91.8  | 56.7  | 39.2   | 31.1  | 27.0   | 26.3  |
| 45°   | 107.3 | 96.5  | 83.0  | 51.3  | 35.8   | 28.4  | 25.0   | 24.3  |
| 47.5° | 96.5  | 87.1  | 74.3  | 45.9  | 33.1   | 26.3  | 23.0   | 22.3  |
| 50°   | 85.7  | 77.0  | 64.8  | 40.5  | 30.4   | 24.3  | 20.9   | 20.3  |
| 52.5° | 74.9  | 66.2  | 55.4  | 35.8  | 27.0   | 22.3  | 18.9   | 18.2  |
| 55°   | 64.1  | 56.0  | 45.9  | 31.1  | 24.3   | 20.3  | 17.6   | 16.2  |
| 57.5° | 52.7  | 45.9  | 39.2  | 27.7  | 21.6   | 18.2  | 15.5   | 14.2  |
| 60°   | 42.5  | 38.5  | 33.1  | 24.3  | 18.9   | 16.2  | 13.5   | 12.8  |
| 62.5° | 34.4  | 31.1  | 27.7  | 20.9  | 16.9   | 14.2  | 12.2   | 10.1  |
| 65°   | 27.7  | 25.7  | 23.0  | 16.9  | 14.2   | 12.2  | 10.1   | 8.1   |
| 67.5° | 21.6  | 20.3  | 18.2  | 14.2  | 11.5   | 10.1  | 7.4    | 6.1   |
| 70°   | 16.9  | 15.5  | 14.2  | 10.1  | 8.8    | 7.4   | 5.4    | 4.1   |
| 72.5° | 12.2  | 10.8  | 10.1  | 7.4   | 6.1    | 5.4   | 3.4    | 2.0   |
| 75°   | 7.4   | 7.4   | 6.1   | 4.1   | 3.4    | 2.7   | 1.4    | 0.7   |
| 77.5° | 4.1   | 4.1   | 3.4   | 2.0   | 2.0    | 0.7   | 0.0    | 0.0   |
| 80°   | 2.0   | 1.4   | 1.4   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 82.5° | 0.7   | 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   |
| 87.5° | 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   |

(END OF REPORT)