

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: P1305491

Luminaire Tested: P3SQASS02R609024DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQASS02R609024DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

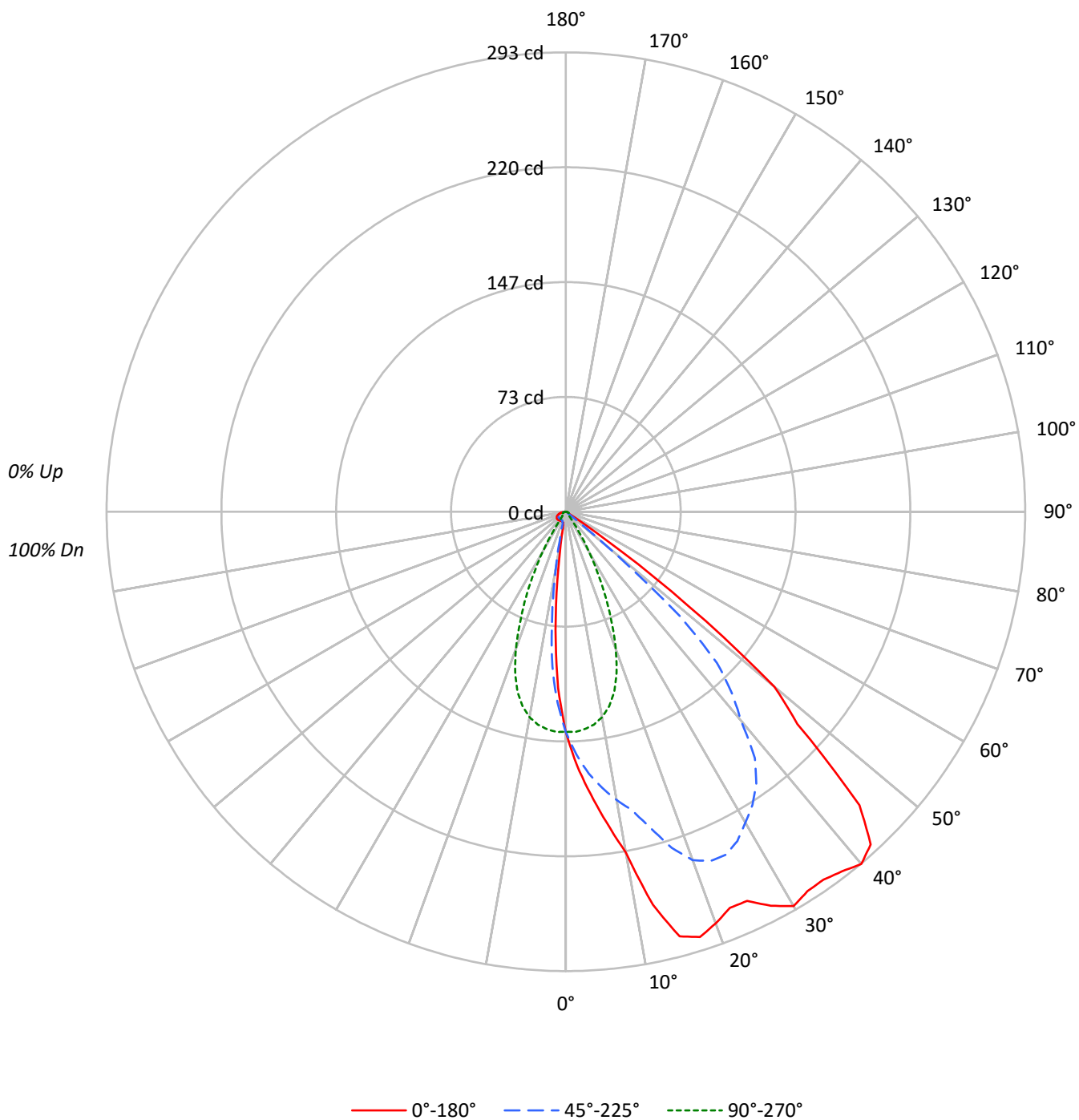
Lumens per Lamp: N/A  
Luminaire Lumens: 228.0 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 90  | 90  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 81  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 72  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 52  | 52  |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  | 47  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  | 43  |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 41  | 38  | 36  | 36  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 24163 | 24163 | 24163 | 24163 | 24163 |
| 5°  | 31222 | 28992 | 24048 | 17115 | 13070 |
| 10° | 38578 | 32667 | 23259 | 6471  | 1924  |
| 15° | 49977 | 37193 | 21217 | 1426  | 1266  |
| 20° | 51207 | 43326 | 17081 | 1191  | 1228  |
| 25° | 52029 | 45853 | 11459 | 1140  | 1235  |
| 30° | 57751 | 45540 | 5906  | 1153  | 1293  |
| 35° | 60235 | 44530 | 1619  | 1219  | 1409  |
| 40° | 65917 | 39051 | 764   | 1304  | 1551  |
| 45° | 64495 | 33197 | 779   | 1413  | 1729  |
| 50° | 46486 | 8199  | 857   | 1554  | 1902  |
| 55° | 8918  | 510   | 901   | 1681  | 2132  |
| 60° | 448   | 517   | 896   | 1791  | 2308  |
| 65° | 448   | 530   | 897   | 1834  | 2445  |
| 70° | 453   | 554   | 856   | 1863  | 2518  |
| 75° | 399   | 599   | 865   | 1863  | 2595  |
| 80° | 198   | 595   | 893   | 1884  | 2579  |
| 85° | 395   | 395   | 790   | 1778  | 2569  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64495 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.2   | 5.4       |
| 10°-20°   | 33.7   | 14.8      |
| 20°-30°   | 51.9   | 22.7      |
| 30°-40°   | 60.9   | 26.7      |
| 40°-50°   | 48.8   | 21.4      |
| 50°-60°   | 15.1   | 6.6       |
| 60°-70°   | 2.9    | 1.3       |
| 70°-80°   | 1.9    | 0.8       |
| 80°-90°   | 0.6    | 0.3       |
| 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°    | 97.8   | 42.9      |
| 0°-40°    | 158.6  | 69.6      |
| 0°-60°    | 222.6  | 97.6      |
| 0°-90°    | 228.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 228.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 140 | 140 | 140 | 140  | 140  |      |
| 5°  | 181 | 168 | 139 | 99   | 76   | 18   |
| 15° | 280 | 209 | 119 | 8    | 7    | 77   |
| 25° | 274 | 241 | 60  | 6    | 6    | 129  |
| 35° | 286 | 212 | 8   | 6    | 7    | 181  |
| 45° | 265 | 136 | 3   | 6    | 7    | 189  |
| 55° | 30  | 2   | 3   | 6    | 7    | 47   |
| 65° | 1   | 1   | 2   | 4    | 6    | 1    |
| 75° | 1   | 1   | 1   | 3    | 4    | 1    |
| 85° | 0   | 0   | 0   | 1    | 1    | 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°    | 140.3 | 140.3 | 140.3 | 140.3 | 140.3 | 140.3 | 140.3 | 140.3 | 140.3 | 140.3 | 140.3 |
| 2.5°  | 161.9 | 160.2 | 160.2 | 159.5 | 158.9 | 159.1 | 157.4 | 158.0 | 156.3 | 155.0 | 153.9 |
| 5°    | 180.6 | 178.5 | 178.2 | 177.2 | 176.1 | 175.2 | 173.1 | 171.8 | 169.2 | 167.7 | 164.5 |
| 7.5°  | 200.0 | 198.3 | 197.2 | 195.9 | 193.9 | 191.8 | 188.1 | 185.8 | 181.7 | 177.6 | 173.5 |
| 10°   | 220.6 | 219.1 | 216.8 | 215.3 | 209.9 | 206.4 | 201.5 | 198.3 | 192.2 | 186.8 | 180.6 |
| 12.5° | 256.8 | 255.9 | 251.4 | 248.4 | 240.7 | 233.8 | 223.0 | 214.4 | 203.6 | 194.8 | 186.4 |
| 15°   | 280.3 | 279.2 | 276.8 | 274.0 | 269.1 | 261.3 | 251.6 | 239.6 | 224.5 | 208.6 | 194.4 |
| 17.5° | 284.4 | 284.6 | 283.1 | 282.4 | 279.2 | 274.2 | 266.5 | 257.5 | 242.4 | 224.7 | 205.4 |
| 20°   | 279.4 | 281.1 | 280.7 | 282.0 | 282.6 | 280.7 | 275.5 | 266.7 | 253.6 | 236.4 | 214.6 |
| 22.5° | 273.4 | 274.9 | 274.5 | 276.8 | 280.5 | 282.4 | 280.7 | 273.6 | 260.2 | 241.1 | 219.8 |
| 25°   | 273.8 | 274.9 | 271.7 | 273.2 | 277.9 | 282.6 | 282.9 | 276.6 | 262.2 | 241.3 | 219.4 |
| 27.5° | 283.3 | 280.1 | 272.7 | 272.1 | 277.9 | 283.9 | 284.4 | 276.6 | 259.4 | 236.8 | 215.0 |
| 30°   | 290.4 | 288.0 | 279.8 | 278.8 | 284.4 | 288.4 | 286.3 | 274.2 | 252.7 | 229.0 | 208.8 |
| 32.5° | 286.9 | 287.4 | 283.9 | 287.4 | 294.7 | 296.4 | 287.4 | 268.6 | 243.5 | 221.5 | 201.5 |
| 35°   | 286.5 | 288.2 | 290.2 | 295.6 | 300.5 | 296.4 | 282.0 | 258.1 | 233.6 | 211.8 | 190.1 |
| 37.5° | 289.1 | 291.9 | 294.7 | 299.4 | 299.4 | 288.9 | 267.8 | 244.8 | 221.7 | 198.0 | 166.4 |
| 40°   | 293.2 | 294.9 | 295.8 | 295.3 | 289.5 | 274.0 | 251.6 | 228.6 | 206.6 | 173.7 | 150.7 |
| 42.5° | 287.8 | 287.6 | 286.7 | 283.1 | 272.3 | 252.1 | 231.2 | 212.5 | 177.8 | 156.7 | 130.4 |
| 45°   | 264.8 | 264.8 | 262.4 | 256.6 | 246.7 | 229.9 | 211.4 | 184.0 | 162.1 | 136.3 | 96.9  |
| 47.5° | 200.4 | 198.9 | 201.5 | 204.9 | 204.9 | 203.4 | 186.6 | 163.0 | 140.6 | 98.4  | 31.0  |
| 50°   | 173.5 | 171.1 | 167.9 | 168.5 | 168.1 | 169.8 | 159.1 | 141.2 | 104.0 | 30.6  | 2.2   |
| 52.5° | 98.2  | 102.5 | 113.0 | 127.9 | 134.5 | 136.9 | 130.2 | 107.4 | 35.1  | 1.9   | 1.7   |
| 55°   | 29.7  | 30.6  | 34.7  | 42.6  | 57.9  | 74.0  | 75.1  | 34.9  | 2.4   | 1.7   | 1.7   |
| 57.5° | 1.3   | 1.3   | 1.7   | 2.6   | 6.0   | 9.0   | 9.7   | 2.2   | 1.5   | 1.7   | 1.7   |
| 60°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.5   | 1.5   | 1.5   | 1.5   | 1.7   |
| 62.5° | 1.1   | 1.1   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.5   | 1.5   | 1.5   |
| 65°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.3   | 1.3   | 1.3   | 1.3   | 1.5   |
| 67.5° | 0.9   | 0.9   | 0.9   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.3   | 1.3   | 1.3   |
| 70°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.1   | 1.1   | 1.1   | 1.1   |
| 72.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.1   |
| 75°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.9   | 0.9   | 0.9   | 0.9   |
| 77.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 80°   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6   | 0.6   |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 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°    | 140.3 | 140.3 | 140.3 | 140.3 | 140.3  | 140.3 | 140.3  | 140.3 |
| 2.5°  | 152.4 | 150.7 | 148.7 | 140.6 | 132.6  | 121.8 | 114.5  | 112.4 |
| 5°    | 161.7 | 158.9 | 154.6 | 139.1 | 120.3  | 99.0  | 81.8   | 75.6  |
| 7.5°  | 169.4 | 165.1 | 159.1 | 136.9 | 105.7  | 67.2  | 43.3   | 36.6  |
| 10°   | 175.0 | 169.6 | 161.9 | 133.0 | 86.3   | 37.0  | 14.6   | 11.0  |
| 12.5° | 179.7 | 172.6 | 163.4 | 127.2 | 62.9   | 15.1  | 7.5    | 7.5   |
| 15°   | 183.0 | 174.4 | 164.0 | 119.0 | 40.7   | 8.0   | 7.1    | 7.1   |
| 17.5° | 187.5 | 176.3 | 164.0 | 107.6 | 22.2   | 6.9   | 6.9    | 6.9   |
| 20°   | 194.8 | 178.2 | 161.7 | 93.2  | 12.3   | 6.5   | 6.7    | 6.7   |
| 22.5° | 198.7 | 181.0 | 158.6 | 76.4  | 7.7    | 6.2   | 6.5    | 6.5   |
| 25°   | 199.5 | 180.6 | 152.2 | 60.3  | 6.2    | 6.0   | 6.2    | 6.5   |
| 27.5° | 196.5 | 177.6 | 143.6 | 43.9  | 5.6    | 5.8   | 6.2    | 6.5   |
| 30°   | 191.2 | 170.3 | 129.8 | 29.7  | 5.2    | 5.8   | 6.2    | 6.5   |
| 32.5° | 181.0 | 152.6 | 113.7 | 17.9  | 5.0    | 5.8   | 6.2    | 6.7   |
| 35°   | 158.4 | 134.1 | 95.1  | 7.7   | 4.7    | 5.8   | 6.5    | 6.7   |
| 37.5° | 142.1 | 115.6 | 73.6  | 3.9   | 4.7    | 5.8   | 6.5    | 6.9   |
| 40°   | 124.0 | 93.0  | 34.0  | 3.4   | 4.7    | 5.8   | 6.5    | 6.9   |
| 42.5° | 94.5  | 43.1  | 4.1   | 3.4   | 4.5    | 5.8   | 6.7    | 6.9   |
| 45°   | 34.4  | 4.5   | 2.2   | 3.2   | 4.5    | 5.8   | 6.7    | 7.1   |
| 47.5° | 2.6   | 1.7   | 1.9   | 3.2   | 4.5    | 5.8   | 6.7    | 7.1   |
| 50°   | 1.7   | 1.7   | 1.9   | 3.2   | 4.5    | 5.8   | 6.7    | 7.1   |
| 52.5° | 1.7   | 1.9   | 1.9   | 3.0   | 4.3    | 5.8   | 6.7    | 7.1   |
| 55°   | 1.7   | 1.9   | 1.9   | 3.0   | 4.3    | 5.6   | 6.7    | 7.1   |
| 57.5° | 1.7   | 1.7   | 1.9   | 2.8   | 4.1    | 5.4   | 6.7    | 6.9   |
| 60°   | 1.7   | 1.7   | 1.9   | 2.6   | 3.9    | 5.2   | 6.2    | 6.7   |
| 62.5° | 1.7   | 1.7   | 1.7   | 2.4   | 3.7    | 5.0   | 6.0    | 6.5   |
| 65°   | 1.5   | 1.5   | 1.7   | 2.2   | 3.2    | 4.5   | 5.6    | 6.0   |
| 67.5° | 1.3   | 1.5   | 1.5   | 1.9   | 3.0    | 4.1   | 5.2    | 5.6   |
| 70°   | 1.3   | 1.3   | 1.3   | 1.7   | 2.6    | 3.7   | 4.7    | 5.0   |
| 72.5° | 1.1   | 1.1   | 1.3   | 1.5   | 2.4    | 3.2   | 4.3    | 4.5   |
| 75°   | 0.9   | 1.1   | 1.1   | 1.3   | 1.9    | 2.8   | 3.7    | 3.9   |
| 77.5° | 0.9   | 0.9   | 0.9   | 1.1   | 1.7    | 2.4   | 3.0    | 3.2   |
| 80°   | 0.6   | 0.6   | 0.6   | 0.9   | 1.3    | 1.9   | 2.4    | 2.6   |
| 82.5° | 0.4   | 0.6   | 0.6   | 0.6   | 1.1    | 1.3   | 1.7    | 1.9   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6    | 0.9   | 1.1    | 1.3   |
| 87.5° | 0.2   | 0.2   | 0.4   | 0.4   | 0.4    | 0.4   | 0.4    | 0.6   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)