

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: PORTFOLIO

Report Number: P1316166

Luminaire Tested: LDSQA3D02R609740DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R609740DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

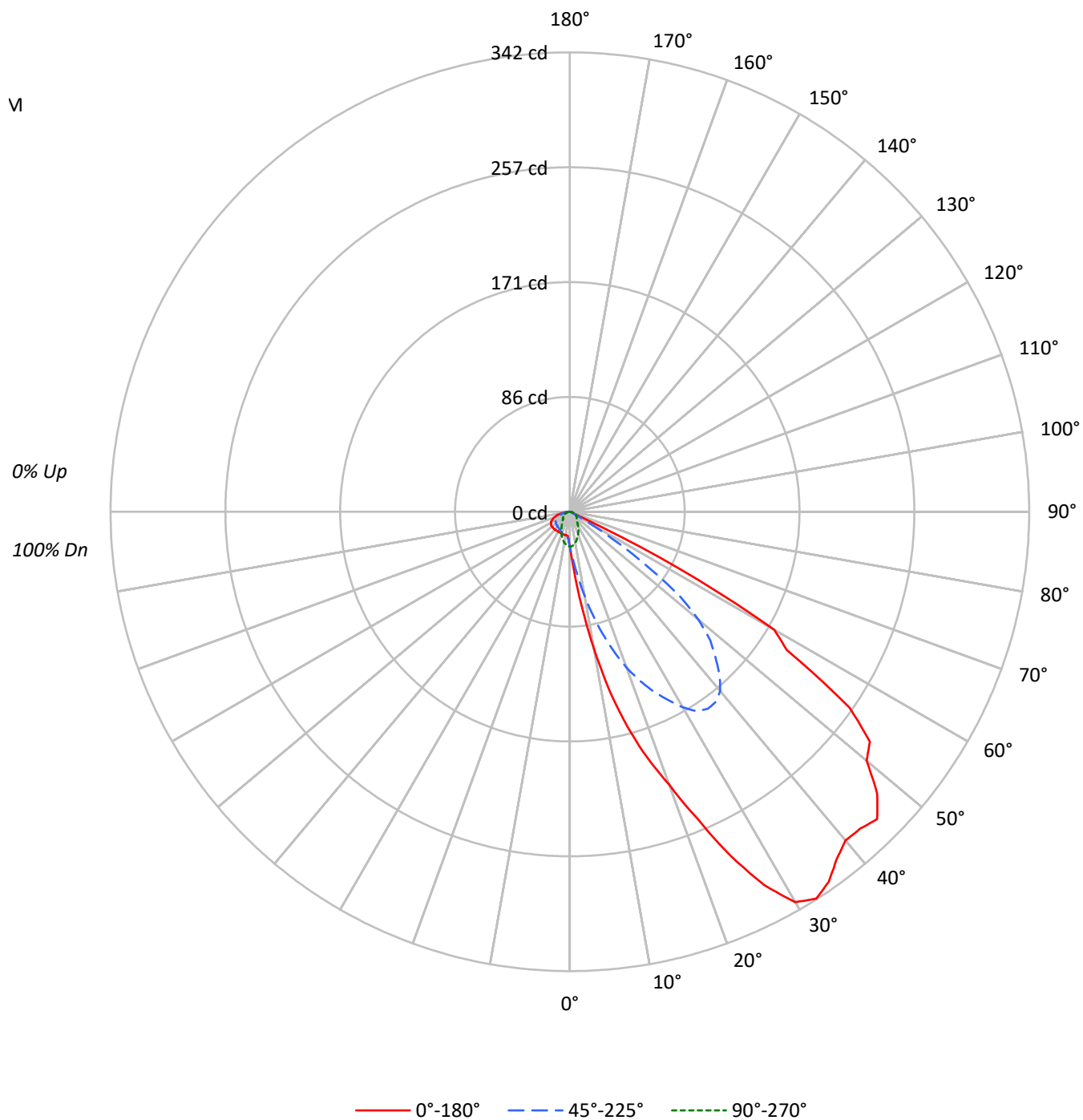
Lumens per Lamp: N/A  
Luminaire Lumens: 260.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.83 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 22  |    |    |

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 4443  | 4443  | 4443 | 4443 | 4443 |
| 5°  | 8748  | 6829  | 4374 | 3302 | 3146 |
| 10° | 18065 | 11122 | 4092 | 3025 | 3060 |
| 15° | 29544 | 16689 | 3673 | 3031 | 3120 |
| 20° | 39642 | 22616 | 3299 | 3024 | 3171 |
| 25° | 53626 | 28067 | 2869 | 3002 | 3287 |
| 30° | 66739 | 33409 | 2406 | 3003 | 3440 |
| 35° | 70663 | 37655 | 2039 | 3091 | 3574 |
| 40° | 71785 | 39164 | 1866 | 3192 | 3889 |
| 45° | 78816 | 37313 | 1778 | 3385 | 4214 |
| 50° | 77244 | 33438 | 1768 | 3617 | 4635 |
| 55° | 76356 | 20508 | 1772 | 3903 | 5104 |
| 60° | 60553 | 4891  | 1860 | 4168 | 5546 |
| 65° | 3871  | 856   | 1834 | 4238 | 5990 |
| 70° | 856   | 957   | 1762 | 4381 | 6294 |
| 75° | 799   | 932   | 1597 | 4259 | 6455 |
| 80° | 694   | 893   | 1686 | 4265 | 6050 |
| 85° | 395   | 988   | 1778 | 3754 | 6126 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 83175 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 1.2       |
| 10°-20°   | 16.2   | 6.2       |
| 20°-30°   | 37.6   | 14.5      |
| 30°-40°   | 58.4   | 22.5      |
| 40°-50°   | 66.6   | 25.6      |
| 50°-60°   | 56.1   | 21.6      |
| 60°-70°   | 16.3   | 6.3       |
| 70°-80°   | 4.2    | 1.6       |
| 80°-90°   | 1.4    | 0.5       |
| 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°    | 57.0   | 21.9      |
| 0°-40°    | 115.5  | 44.4      |
| 0°-60°    | 238.2  | 91.6      |
| 0°-90°    | 260.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 260.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 26  | 26  | 26  | 26   | 26   |      |
| 5°  | 51  | 40  | 25  | 19   | 18   | 6    |
| 15° | 166 | 94  | 21  | 17   | 18   | 48   |
| 25° | 282 | 148 | 15  | 16   | 17   | 131  |
| 35° | 336 | 179 | 10  | 15   | 17   | 209  |
| 45° | 324 | 153 | 7   | 14   | 17   | 243  |
| 55° | 254 | 68  | 6   | 13   | 17   | 214  |
| 65° | 10  | 2   | 4   | 10   | 15   | 47   |
| 75° | 1   | 1   | 2   | 6    | 10   | 1    |
| 85° | 0   | 0   | 1   | 2    | 3    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 25.8  | 25.8  | 25.8  | 25.8  | 25.8  | 25.8  | 25.8  | 25.8  | 25.8  | 25.8  | 25.8 |
| 2.5°  | 34.7  | 34.5  | 34.5  | 34.3  | 34.0  | 33.8  | 33.1  | 32.9  | 31.4  | 28.6  | 25.8 |
| 5°    | 50.6  | 50.3  | 49.6  | 49.4  | 48.2  | 46.6  | 44.9  | 43.3  | 39.5  | 31.4  | 25.3 |
| 7.5°  | 73.3  | 73.7  | 73.3  | 70.7  | 69.0  | 66.4  | 61.4  | 57.9  | 50.3  | 34.3  | 24.3 |
| 10°   | 103.3 | 103.3 | 102.6 | 98.6  | 95.0  | 90.0  | 83.7  | 77.5  | 63.6  | 36.9  | 23.4 |
| 12.5° | 135.9 | 136.6 | 133.1 | 129.8 | 123.4 | 117.2 | 108.5 | 99.3  | 78.7  | 39.0  | 22.2 |
| 15°   | 165.7 | 165.2 | 161.7 | 157.4 | 150.8 | 142.3 | 133.1 | 121.2 | 93.6  | 40.4  | 20.6 |
| 17.5° | 192.1 | 191.2 | 188.1 | 183.4 | 175.4 | 165.9 | 154.1 | 141.3 | 109.0 | 41.6  | 19.4 |
| 20°   | 216.3 | 212.9 | 209.4 | 204.4 | 196.6 | 186.7 | 174.4 | 160.0 | 123.4 | 41.6  | 18.0 |
| 22.5° | 246.7 | 243.4 | 238.5 | 230.9 | 220.5 | 208.2 | 193.8 | 177.5 | 136.1 | 40.7  | 16.5 |
| 25°   | 282.2 | 279.6 | 271.1 | 261.4 | 247.9 | 233.3 | 216.5 | 194.5 | 147.7 | 39.2  | 15.1 |
| 27.5° | 313.2 | 310.3 | 301.8 | 287.6 | 271.3 | 253.8 | 236.1 | 213.7 | 157.9 | 36.6  | 13.5 |
| 30°   | 335.6 | 332.1 | 325.4 | 312.0 | 292.1 | 270.8 | 249.8 | 228.3 | 168.0 | 33.6  | 12.1 |
| 32.5° | 341.5 | 341.0 | 336.1 | 326.2 | 308.4 | 285.0 | 260.0 | 236.6 | 176.1 | 29.5  | 10.9 |
| 35°   | 336.1 | 336.8 | 335.8 | 330.9 | 317.9 | 295.0 | 266.6 | 241.1 | 179.1 | 25.5  | 9.7  |
| 37.5° | 326.2 | 327.1 | 328.8 | 329.5 | 321.2 | 300.9 | 270.4 | 243.0 | 178.4 | 21.5  | 9.0  |
| 40°   | 319.3 | 318.8 | 318.8 | 323.6 | 321.9 | 303.5 | 270.8 | 241.5 | 174.2 | 17.3  | 8.3  |
| 42.5° | 320.0 | 314.8 | 311.3 | 318.8 | 321.2 | 302.3 | 267.8 | 237.8 | 165.0 | 13.2  | 7.6  |
| 45°   | 323.6 | 312.4 | 306.3 | 316.0 | 319.8 | 298.3 | 262.1 | 232.1 | 153.2 | 9.2   | 7.3  |
| 47.5° | 310.3 | 303.0 | 302.0 | 315.8 | 317.2 | 291.4 | 253.4 | 223.1 | 141.8 | 6.4   | 6.9  |
| 50°   | 288.3 | 287.2 | 292.1 | 306.3 | 306.5 | 280.1 | 243.4 | 206.8 | 124.8 | 4.5   | 6.6  |
| 52.5° | 281.5 | 282.2 | 286.7 | 294.0 | 287.2 | 260.9 | 225.5 | 193.1 | 103.3 | 3.5   | 6.4  |
| 55°   | 254.3 | 255.5 | 259.7 | 264.2 | 259.3 | 237.5 | 203.7 | 176.5 | 68.3  | 3.3   | 5.9  |
| 57.5° | 191.4 | 194.5 | 202.3 | 206.3 | 206.8 | 193.6 | 184.6 | 152.2 | 38.5  | 3.3   | 5.7  |
| 60°   | 175.8 | 171.8 | 168.3 | 160.0 | 152.4 | 150.8 | 151.7 | 114.2 | 14.2  | 3.1   | 5.4  |
| 62.5° | 91.9  | 90.0  | 95.5  | 99.0  | 100.0 | 105.2 | 98.3  | 60.3  | 3.1   | 3.1   | 5.0  |
| 65°   | 9.5   | 9.5   | 11.6  | 15.4  | 25.5  | 34.0  | 32.4  | 17.5  | 2.1   | 2.8   | 4.5  |
| 67.5° | 2.8   | 2.8   | 2.8   | 3.3   | 4.3   | 4.3   | 3.5   | 2.6   | 2.1   | 2.6   | 4.0  |
| 70°   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.9   | 1.7   | 1.9   | 2.4   | 3.5  |
| 72.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 2.1   | 3.1  |
| 75°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.4   | 1.4   | 1.7   | 2.4  |
| 77.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.2   | 1.2   | 1.2   | 1.4   | 1.9  |
| 80°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.9   | 0.9   | 0.9   | 0.9   | 1.2   | 1.7  |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.9   | 1.2  |
| 85°   | 0.2   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.9  |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.7  |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 25.8   | 25.8 | 25.8   | 25.8 |
| 2.5°  | 23.4   | 21.7 | 20.8   | 20.3 |
| 5°    | 21.3   | 19.1 | 18.4   | 18.2 |
| 7.5°  | 19.4   | 18.0 | 17.7   | 17.7 |
| 10°   | 18.2   | 17.3 | 17.5   | 17.5 |
| 12.5° | 17.5   | 17.3 | 17.5   | 17.7 |
| 15°   | 16.8   | 17.0 | 17.5   | 17.5 |
| 17.5° | 16.3   | 16.8 | 17.3   | 17.5 |
| 20°   | 15.6   | 16.5 | 17.3   | 17.3 |
| 22.5° | 15.1   | 16.3 | 17.0   | 17.3 |
| 25°   | 14.7   | 15.8 | 16.8   | 17.3 |
| 27.5° | 13.9   | 15.6 | 16.8   | 17.0 |
| 30°   | 13.2   | 15.1 | 16.5   | 17.3 |
| 32.5° | 12.5   | 14.9 | 16.5   | 17.0 |
| 35°   | 12.1   | 14.7 | 16.5   | 17.0 |
| 37.5° | 11.6   | 14.4 | 16.5   | 17.3 |
| 40°   | 11.3   | 14.2 | 16.3   | 17.3 |
| 42.5° | 10.9   | 14.2 | 16.3   | 17.3 |
| 45°   | 10.6   | 13.9 | 16.3   | 17.3 |
| 47.5° | 10.4   | 13.7 | 16.3   | 17.3 |
| 50°   | 9.9    | 13.5 | 16.1   | 17.3 |
| 52.5° | 9.7    | 13.2 | 16.1   | 17.3 |
| 55°   | 9.2    | 13.0 | 15.8   | 17.0 |
| 57.5° | 9.0    | 12.5 | 15.6   | 16.5 |
| 60°   | 8.5    | 12.1 | 15.1   | 16.1 |
| 62.5° | 7.8    | 11.3 | 14.4   | 15.6 |
| 65°   | 7.1    | 10.4 | 13.7   | 14.7 |
| 67.5° | 6.4    | 9.7  | 12.8   | 13.7 |
| 70°   | 5.7    | 8.7  | 11.6   | 12.5 |
| 72.5° | 5.0    | 7.6  | 10.4   | 11.1 |
| 75°   | 4.3    | 6.4  | 8.7    | 9.7  |
| 77.5° | 3.3    | 5.2  | 7.3    | 8.0  |
| 80°   | 2.6    | 4.3  | 5.7    | 6.1  |
| 82.5° | 2.1    | 3.1  | 4.3    | 4.5  |
| 85°   | 1.4    | 1.9  | 2.6    | 3.1  |
| 87.5° | 0.7    | 0.9  | 1.2    | 1.4  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)