

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: P1313431

Luminaire Tested: LDSQA3D05R709727DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709727DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

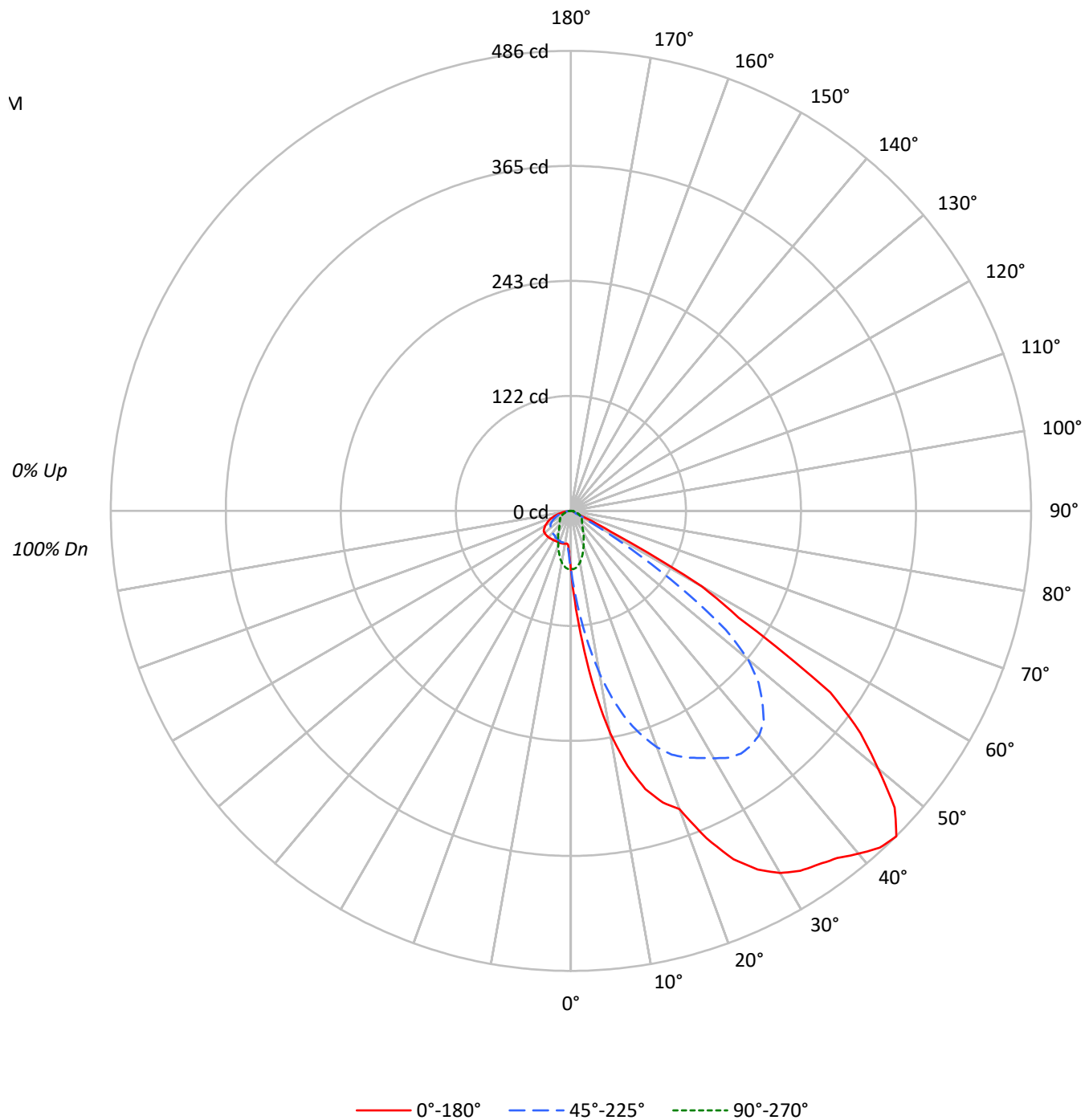
Lumens per Lamp: N/A  
Luminaire Lumens: 420.0 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

TEST NUMBER: P1313431

CATALOG NUMBER: LDSQA3D05R709727DE010 3LSQCA45R 1MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1313431

CATALOG NUMBER: LDSQA3D05R709727DE010 3LSQCA45R 1MMS

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF  | 20  |     |     |     | 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 |    |    |    |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 75  |    |    |    |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |    |    |    |
| 4   | 85  | 74  | 66  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 54  |    |    |    |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |    |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |    |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |    |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |    |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |    |    |    |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 25  |    |    |    |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 10540  | 10540 | 10540 | 10540 | 10540 |
| 5°  | 23979  | 19190 | 10425 | 6587  | 6155  |
| 10° | 41551  | 30481 | 9671  | 6016  | 6156  |
| 15° | 54238  | 40723 | 8451  | 6133  | 6347  |
| 20° | 61434  | 48696 | 7221  | 6213  | 6598  |
| 25° | 77151  | 54633 | 6043  | 6290  | 6765  |
| 30° | 87839  | 59998 | 5171  | 6423  | 7159  |
| 35° | 95851  | 65807 | 4499  | 6518  | 7569  |
| 40° | 106273 | 69515 | 4137  | 6790  | 8206  |
| 45° | 118394 | 69609 | 4092  | 7136  | 8890  |
| 50° | 113388 | 65456 | 4046  | 7529  | 9646  |
| 55° | 100407 | 42397 | 4144  | 7927  | 10449 |
| 60° | 55008  | 9093  | 4202  | 8094  | 10816 |
| 65° | 3912   | 2201  | 4116  | 8028  | 10921 |
| 70° | 1913   | 2115  | 3777  | 7604  | 10574 |
| 75° | 1664   | 2262  | 3593  | 7253  | 9782  |
| 80° | 1686   | 2083  | 3372  | 6645  | 9124  |
| 85° | 1581   | 2569  | 3359  | 5730  | 8299  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 118394 cd/sqm

TEST NUMBER: P1313431

CATALOG NUMBER: LDSQA3D05R709727DE010 3LSQCA45R 1MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.0    | 1.9       |
| 10°-20°   | 34.1   | 8.1       |
| 20°-30°   | 65.5   | 15.6      |
| 30°-40°   | 92.6   | 22.0      |
| 40°-50°   | 104.8  | 24.9      |
| 50°-60°   | 83.0   | 19.8      |
| 60°-70°   | 22.4   | 5.3       |
| 70°-80°   | 7.4    | 1.8       |
| 80°-90°   | 2.3    | 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°    | 107.6  | 25.6      |
| 0°-40°    | 200.2  | 47.7      |
| 0°-60°    | 387.9  | 92.4      |
| 0°-90°    | 420.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 420.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 61  | 61  | 61  | 61   | 61   |      |
| 5°  | 139 | 111 | 60  | 38   | 36   | 16   |
| 15° | 304 | 228 | 47  | 34   | 36   | 86   |
| 25° | 406 | 288 | 32  | 33   | 36   | 186  |
| 35° | 456 | 313 | 21  | 31   | 36   | 287  |
| 45° | 486 | 286 | 17  | 29   | 36   | 364  |
| 55° | 334 | 141 | 14  | 26   | 35   | 271  |
| 65° | 10  | 5   | 10  | 20   | 27   | 35   |
| 75° | 2   | 3   | 5   | 11   | 15   | 3    |
| 85° | 1   | 1   | 2   | 3    | 4    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1313431

CATALOG NUMBER: LDSQA3D05R709727DE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| 0°    | 61.2  | 61.2  | 61.2  | 61.2  | 61.2  | 61.2  | 61.2  | 61.2  | 61.2  | 61.2 | 61.2   |
| 2.5°  | 95.1  | 95.1  | 94.7  | 93.0  | 92.2  | 90.1  | 88.4  | 83.8  | 72.5  | 61.6 | 52.8   |
| 5°    | 138.7 | 140.8 | 137.9 | 137.4 | 134.9 | 131.2 | 128.6 | 111.0 | 83.8  | 60.3 | 45.3   |
| 7.5°  | 190.2 | 191.1 | 190.2 | 186.1 | 182.3 | 176.0 | 170.1 | 142.5 | 95.1  | 58.2 | 39.8   |
| 10°   | 237.6 | 236.3 | 233.8 | 230.9 | 225.4 | 218.7 | 208.7 | 174.3 | 106.0 | 55.3 | 36.5   |
| 12.5° | 276.1 | 275.7 | 272.8 | 269.9 | 263.2 | 254.4 | 244.3 | 203.2 | 115.2 | 51.5 | 34.8   |
| 15°   | 304.2 | 304.2 | 301.3 | 297.9 | 291.6 | 284.5 | 273.2 | 228.4 | 122.8 | 47.4 | 33.1   |
| 17.5° | 323.1 | 322.2 | 320.1 | 317.6 | 312.6 | 305.5 | 296.7 | 248.5 | 127.8 | 43.2 | 32.7   |
| 20°   | 335.2 | 334.8 | 333.1 | 329.4 | 325.2 | 319.7 | 311.8 | 265.7 | 129.9 | 39.4 | 32.3   |
| 22.5° | 374.2 | 370.8 | 364.6 | 356.6 | 346.5 | 333.6 | 322.7 | 278.7 | 129.1 | 35.2 | 31.4   |
| 25°   | 406.0 | 404.8 | 398.1 | 388.4 | 375.0 | 358.3 | 340.3 | 287.5 | 124.9 | 31.8 | 30.6   |
| 27.5° | 427.0 | 424.9 | 418.6 | 408.1 | 393.9 | 377.6 | 360.8 | 294.2 | 119.0 | 28.9 | 29.3   |
| 30°   | 441.7 | 440.4 | 434.1 | 422.4 | 407.7 | 389.7 | 372.5 | 301.7 | 111.0 | 26.0 | 28.1   |
| 32.5° | 450.9 | 449.6 | 443.3 | 432.9 | 418.6 | 399.8 | 380.1 | 309.2 | 101.4 | 23.5 | 26.8   |
| 35°   | 455.9 | 454.7 | 447.5 | 438.3 | 424.9 | 406.5 | 385.5 | 313.0 | 89.7  | 21.4 | 25.6   |
| 37.5° | 462.2 | 459.7 | 450.0 | 438.7 | 425.3 | 408.1 | 387.2 | 312.6 | 77.9  | 19.7 | 24.7   |
| 40°   | 472.7 | 466.0 | 452.1 | 437.1 | 423.2 | 406.0 | 385.9 | 309.2 | 65.0  | 18.4 | 23.9   |
| 42.5° | 482.7 | 473.1 | 452.6 | 434.5 | 419.0 | 402.3 | 381.3 | 301.7 | 50.7  | 17.6 | 23.5   |
| 45°   | 486.1 | 471.8 | 446.7 | 428.7 | 414.0 | 396.8 | 375.0 | 285.8 | 34.4  | 16.8 | 22.6   |
| 47.5° | 463.9 | 453.4 | 432.4 | 419.0 | 405.2 | 388.4 | 365.8 | 269.0 | 19.7  | 15.9 | 21.8   |
| 50°   | 423.2 | 416.5 | 404.8 | 396.4 | 388.9 | 377.1 | 354.9 | 244.3 | 11.7  | 15.1 | 21.0   |
| 52.5° | 385.5 | 383.4 | 375.0 | 368.3 | 364.1 | 358.7 | 338.6 | 206.2 | 9.6   | 14.7 | 20.1   |
| 55°   | 334.4 | 327.7 | 325.6 | 323.1 | 331.9 | 331.5 | 304.2 | 141.2 | 9.2   | 13.8 | 19.3   |
| 57.5° | 209.9 | 212.9 | 223.8 | 243.9 | 267.8 | 281.6 | 280.8 | 75.4  | 8.8   | 13.0 | 18.0   |
| 60°   | 159.7 | 159.2 | 162.6 | 171.0 | 188.6 | 208.3 | 226.7 | 26.4  | 8.4   | 12.2 | 17.2   |
| 62.5° | 47.8  | 49.0  | 59.1  | 86.7  | 103.9 | 128.2 | 116.9 | 6.3   | 8.0   | 10.9 | 15.5   |
| 65°   | 9.6   | 10.1  | 10.1  | 11.3  | 13.8  | 21.0  | 25.6  | 5.4   | 7.5   | 10.1 | 14.2   |
| 67.5° | 4.2   | 4.2   | 4.2   | 4.6   | 4.6   | 5.4   | 4.6   | 5.0   | 6.7   | 8.8  | 12.6   |
| 70°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 4.2   | 4.2   | 5.9   | 7.5  | 10.9   |
| 72.5° | 2.9   | 2.9   | 2.9   | 3.4   | 3.4   | 3.4   | 3.4   | 3.8   | 5.0   | 6.3  | 9.2    |
| 75°   | 2.5   | 2.5   | 2.5   | 2.5   | 2.9   | 2.9   | 2.9   | 3.4   | 4.2   | 5.4  | 7.5    |
| 77.5° | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.5   | 2.5   | 2.5   | 3.4   | 4.2  | 6.3    |
| 80°   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 2.1   | 2.5   | 3.4  | 4.6    |
| 82.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.7   | 2.1   | 2.5  | 3.4    |
| 85°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.3   | 1.3   | 1.7  | 2.1    |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   | 0.8   | 0.8  | 1.3    |
| 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: P1313431

CATALOG NUMBER: LDSQA3D05R709727DE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 61.2 | 61.2   | 61.2 |
| 2.5°  | 46.5 | 44.0   | 42.7 |
| 5°    | 38.1 | 36.0   | 35.6 |
| 7.5°  | 35.2 | 34.8   | 34.8 |
| 10°   | 34.4 | 34.8   | 35.2 |
| 12.5° | 34.4 | 35.2   | 35.6 |
| 15°   | 34.4 | 35.2   | 35.6 |
| 17.5° | 34.4 | 35.2   | 35.6 |
| 20°   | 33.9 | 35.2   | 36.0 |
| 22.5° | 33.5 | 35.2   | 35.6 |
| 25°   | 33.1 | 35.2   | 35.6 |
| 27.5° | 32.7 | 34.8   | 35.6 |
| 30°   | 32.3 | 34.8   | 36.0 |
| 32.5° | 31.4 | 34.8   | 36.0 |
| 35°   | 31.0 | 34.8   | 36.0 |
| 37.5° | 30.6 | 34.8   | 36.5 |
| 40°   | 30.2 | 34.8   | 36.5 |
| 42.5° | 29.8 | 34.8   | 36.5 |
| 45°   | 29.3 | 34.4   | 36.5 |
| 47.5° | 28.5 | 34.4   | 36.5 |
| 50°   | 28.1 | 33.9   | 36.0 |
| 52.5° | 27.2 | 33.5   | 36.0 |
| 55°   | 26.4 | 32.7   | 34.8 |
| 57.5° | 25.1 | 31.4   | 33.1 |
| 60°   | 23.5 | 29.8   | 31.4 |
| 62.5° | 21.4 | 27.7   | 28.9 |
| 65°   | 19.7 | 25.1   | 26.8 |
| 67.5° | 17.2 | 22.2   | 23.9 |
| 70°   | 15.1 | 19.3   | 21.0 |
| 72.5° | 13.0 | 16.3   | 18.0 |
| 75°   | 10.9 | 13.4   | 14.7 |
| 77.5° | 8.4  | 10.9   | 11.7 |
| 80°   | 6.7  | 8.4    | 9.2  |
| 82.5° | 4.6  | 5.9    | 6.3  |
| 85°   | 2.9  | 3.8    | 4.2  |
| 87.5° | 1.3  | 1.7    | 1.7  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)