

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: P1315615

Luminaire Tested: LDSQA3D13R309735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

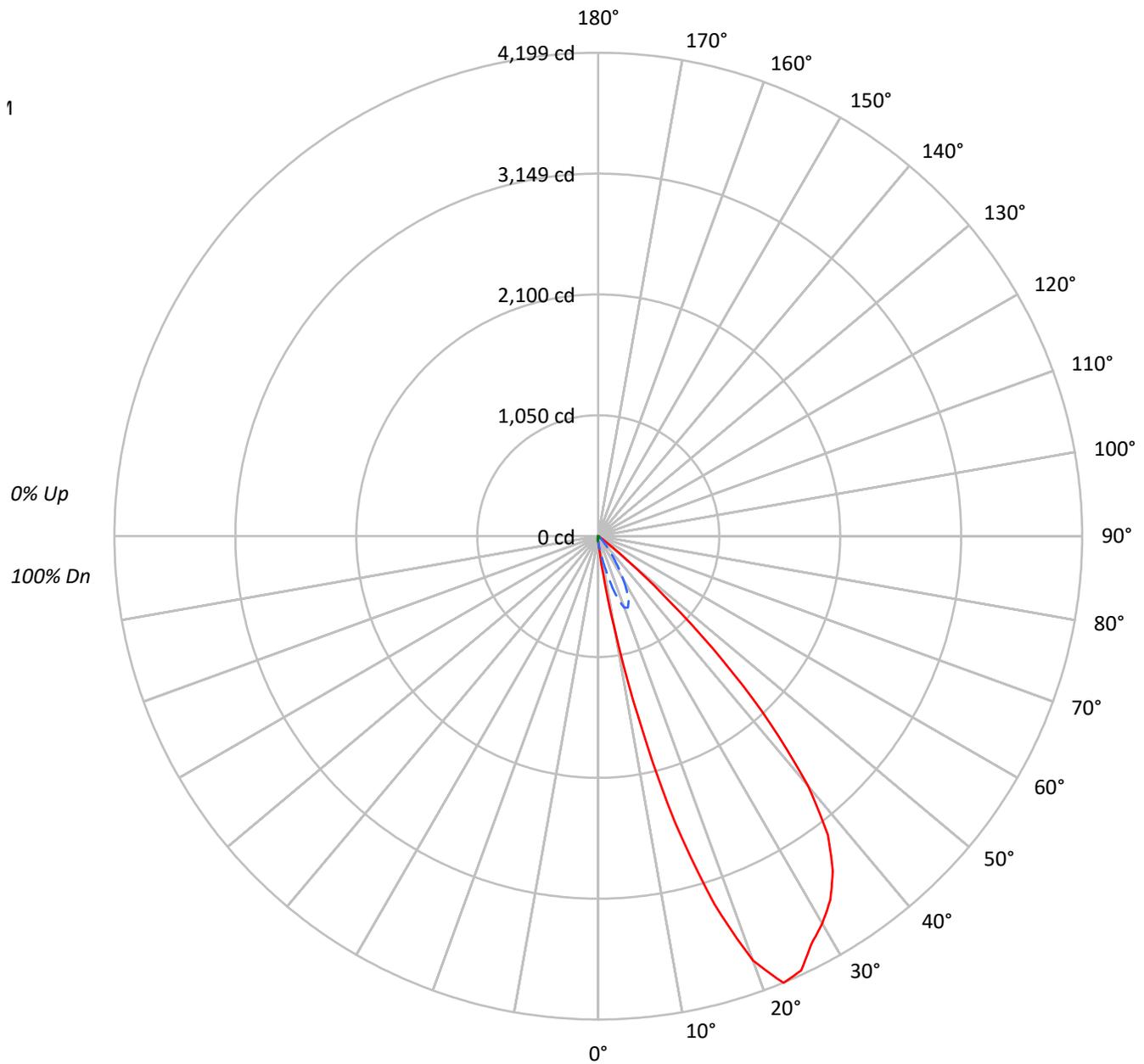
Test Method: LM-79-2019  
Report Number: P1315615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 990.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Rectangular (W 0.25' x L: 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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 96  | 95  | 93  | 92  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 83  | 79  | 77  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 76  | 73  | 69  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 71  | 66  | 63  | 61  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 65  | 61  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 60  | 55  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 56  | 51  | 47  | 45  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  | 52  | 46  | 43  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 43  | 39  | 37  |

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

|     | 0°     | 45°    | 90°  | 135° | 180° |
|-----|--------|--------|------|------|------|
| 0°  | 8094   | 8094   | 8094 | 8094 | 8094 |
| 5°  | 24393  | 16268  | 7659 | 3440 | 2818 |
| 10° | 141268 | 34486  | 6016 | 1574 | 1102 |
| 15° | 459527 | 78219  | 4190 | 321  | 160  |
| 20° | 719063 | 121035 | 2657 | 0    | 0    |
| 25° | 791100 | 118273 | 1368 | 0    | 0    |
| 30° | 772672 | 85274  | 537  | 0    | 0    |
| 35° | 745760 | 48504  | 189  | 0    | 0    |
| 40° | 635973 | 20549  | 0    | 0    | 0    |
| 45° | 373231 | 7721   | 219  | 0    | 219  |
| 50° | 90641  | 1447   | 241  | 241  | 723  |
| 55° | 7867   | 0      | 540  | 811  | 1081 |
| 60° | 310    | 0      | 620  | 930  | 1550 |
| 65° | 367    | 367    | 1100 | 1100 | 1834 |
| 70° | 453    | 453    | 1360 | 1360 | 1813 |
| 75° | 0      | 599    | 1797 | 1797 | 1797 |
| 80° | 0      | 893    | 2678 | 1785 | 1785 |
| 85° | 0      | 1778   | 5335 | 1778 | 1778 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 373231 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.6    | 0.9       |
| 10°-20°   | 136.1  | 13.7      |
| 20°-30°   | 345.8  | 34.9      |
| 30°-40°   | 344.6  | 34.8      |
| 40°-50°   | 139.6  | 14.1      |
| 50°-60°   | 9.6    | 1.0       |
| 60°-70°   | 2.2    | 0.2       |
| 70°-80°   | 2.2    | 0.2       |
| 80°-90°   | 1.2    | 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°    | 490.5  | 49.5      |
| 0°-40°    | 835.1  | 84.4      |
| 0°-60°    | 984.4  | 99.4      |
| 0°-90°    | 990.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 990.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 47   | 47  | 47  | 47   | 47   |      |
| 5°  | 141  | 94  | 44  | 20   | 16   | 33   |
| 15° | 2577 | 439 | 24  | 2    | 1    | 750  |
| 25° | 4163 | 622 | 7   | 0    | 0    | 1880 |
| 35° | 3547 | 231 | 1   | 0    | 0    | 2174 |
| 45° | 1532 | 32  | 1   | 0    | 1    | 1169 |
| 55° | 26   | 0   | 2   | 3    | 4    | 69   |
| 65° | 1    | 1   | 3   | 3    | 4    | 1    |
| 75° | 0    | 1   | 3   | 3    | 3    | 0    |
| 85° | 0    | 1   | 3   | 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°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0  | 47.0  |
| 2.5°  | 77.8   | 78.7   | 78.7   | 76.9   | 76.0   | 76.0   | 73.3   | 72.4   | 69.7   | 66.9  | 57.9  |
| 5°    | 141.1  | 138.4  | 134.8  | 134.8  | 126.6  | 122.1  | 115.8  | 108.6  | 103.1  | 94.1  | 66.9  |
| 7.5°  | 320.2  | 298.5  | 292.2  | 284.1  | 253.3  | 228.9  | 200.8  | 176.4  | 153.8  | 134.8 | 74.2  |
| 10°   | 807.8  | 765.3  | 730.0  | 658.6  | 569.0  | 483.1  | 403.5  | 311.2  | 247.9  | 197.2 | 79.6  |
| 12.5° | 1627.4 | 1570.4 | 1502.6 | 1372.3 | 1205.0 | 990.6  | 800.6  | 598.0  | 419.7  | 290.4 | 81.4  |
| 15°   | 2577.3 | 2480.5 | 2374.7 | 2209.1 | 1935.0 | 1627.4 | 1284.6 | 961.6  | 674.0  | 438.7 | 79.6  |
| 17.5° | 3351.7 | 3313.7 | 3157.2 | 2931.0 | 2595.4 | 2199.2 | 1776.7 | 1335.2 | 909.2  | 574.4 | 74.2  |
| 20°   | 3923.4 | 3897.2 | 3708.1 | 3467.5 | 3089.3 | 2635.2 | 2098.7 | 1568.6 | 1072.9 | 660.4 | 66.0  |
| 22.5° | 4199.3 | 4194.8 | 4058.2 | 3812.1 | 3411.4 | 2896.6 | 2305.9 | 1703.4 | 1123.6 | 672.1 | 55.2  |
| 25°   | 4163.1 | 4179.4 | 4101.6 | 3918.9 | 3534.4 | 3004.3 | 2367.4 | 1703.4 | 1086.5 | 622.4 | 46.1  |
| 27.5° | 3998.5 | 4009.3 | 3960.5 | 3820.3 | 3462.0 | 2926.5 | 2281.5 | 1594.0 | 978.8  | 534.6 | 38.0  |
| 30°   | 3885.4 | 3889.9 | 3829.3 | 3679.1 | 3299.2 | 2749.2 | 2078.8 | 1391.3 | 816.0  | 428.8 | 28.0  |
| 32.5° | 3747.9 | 3747.0 | 3676.4 | 3504.5 | 3085.7 | 2500.4 | 1821.9 | 1149.8 | 626.9  | 325.7 | 16.3  |
| 35°   | 3547.1 | 3524.5 | 3428.6 | 3230.4 | 2767.3 | 2165.7 | 1493.5 | 875.7  | 451.4  | 230.7 | 10.0  |
| 37.5° | 3271.2 | 3212.4 | 3076.7 | 2811.6 | 2320.4 | 1698.0 | 1107.3 | 615.2  | 308.5  | 152.9 | 6.3   |
| 40°   | 2828.8 | 2766.4 | 2581.8 | 2259.8 | 1755.0 | 1222.2 | 746.3  | 400.8  | 194.5  | 91.4  | 3.6   |
| 42.5° | 2218.2 | 2175.6 | 1926.9 | 1605.7 | 1158.8 | 779.8  | 448.7  | 237.0  | 109.5  | 52.5  | 0.9   |
| 45°   | 1532.4 | 1477.3 | 1281.9 | 1009.6 | 695.7  | 432.4  | 251.5  | 123.9  | 62.4   | 31.7  | 0.0   |
| 47.5° | 845.8  | 778.0  | 664.9  | 522.9  | 350.1  | 227.1  | 126.6  | 66.9   | 35.3   | 15.4  | 0.0   |
| 50°   | 338.3  | 335.6  | 266.9  | 190.0  | 133.9  | 103.1  | 63.3   | 36.2   | 18.1   | 5.4   | 0.9   |
| 52.5° | 118.5  | 118.5  | 102.2  | 83.2   | 65.1   | 47.0   | 31.7   | 17.2   | 6.3    | 1.8   | 0.9   |
| 55°   | 26.2   | 28.9   | 27.1   | 25.3   | 24.4   | 20.8   | 13.6   | 6.3    | 1.8    | 0.0   | 0.9   |
| 57.5° | 2.7    | 2.7    | 2.7    | 3.6    | 4.5    | 4.5    | 3.6    | 1.8    | 0.0    | 0.0   | 0.9   |
| 60°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0   | 1.8   |
| 62.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 1.8   |
| 65°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 67.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 70°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 72.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 75°   | 0.0    | 0.0    | 0.9    | 0.9    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   | 1.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 1.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 1.8   |
| 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):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 47.0 | 47.0   | 47.0 | 47.0   | 47.0 |
| 2.5°  | 47.0 | 37.1   | 30.8 | 27.1   | 26.2 |
| 5°    | 44.3 | 28.0   | 19.9 | 17.2   | 16.3 |
| 7.5°  | 39.8 | 20.8   | 13.6 | 10.9   | 10.0 |
| 10°   | 34.4 | 15.4   | 9.0  | 6.3    | 6.3  |
| 12.5° | 28.9 | 11.8   | 5.4  | 2.7    | 1.8  |
| 15°   | 23.5 | 7.2    | 1.8  | 0.9    | 0.9  |
| 17.5° | 18.1 | 4.5    | 0.0  | 0.0    | 0.0  |
| 20°   | 14.5 | 1.8    | 0.0  | 0.0    | 0.0  |
| 22.5° | 10.9 | 0.9    | 0.0  | 0.0    | 0.0  |
| 25°   | 7.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 4.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.9  | 0.0    | 0.0  | 0.9    | 0.9  |
| 47.5° | 0.9  | 0.9    | 0.9  | 1.8    | 1.8  |
| 50°   | 0.9  | 0.9    | 0.9  | 1.8    | 2.7  |
| 52.5° | 1.8  | 0.9    | 1.8  | 2.7    | 2.7  |
| 55°   | 1.8  | 1.8    | 2.7  | 3.6    | 3.6  |
| 57.5° | 1.8  | 1.8    | 2.7  | 3.6    | 3.6  |
| 60°   | 1.8  | 1.8    | 2.7  | 3.6    | 4.5  |
| 62.5° | 2.7  | 2.7    | 2.7  | 3.6    | 3.6  |
| 65°   | 2.7  | 2.7    | 2.7  | 3.6    | 4.5  |
| 67.5° | 2.7  | 2.7    | 2.7  | 3.6    | 4.5  |
| 70°   | 2.7  | 2.7    | 2.7  | 3.6    | 3.6  |
| 72.5° | 3.6  | 2.7    | 2.7  | 3.6    | 3.6  |
| 75°   | 2.7  | 2.7    | 2.7  | 2.7    | 2.7  |
| 77.5° | 2.7  | 2.7    | 1.8  | 2.7    | 2.7  |
| 80°   | 2.7  | 1.8    | 1.8  | 1.8    | 1.8  |
| 82.5° | 2.7  | 1.8    | 1.8  | 1.8    | 1.8  |
| 85°   | 2.7  | 1.8    | 0.9  | 0.9    | 0.9  |
| 87.5° | 2.7  | 1.8    | 0.9  | 0.9    | 0.9  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)