

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: P1308139

Luminaire Tested: LDSQA3D13R359027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

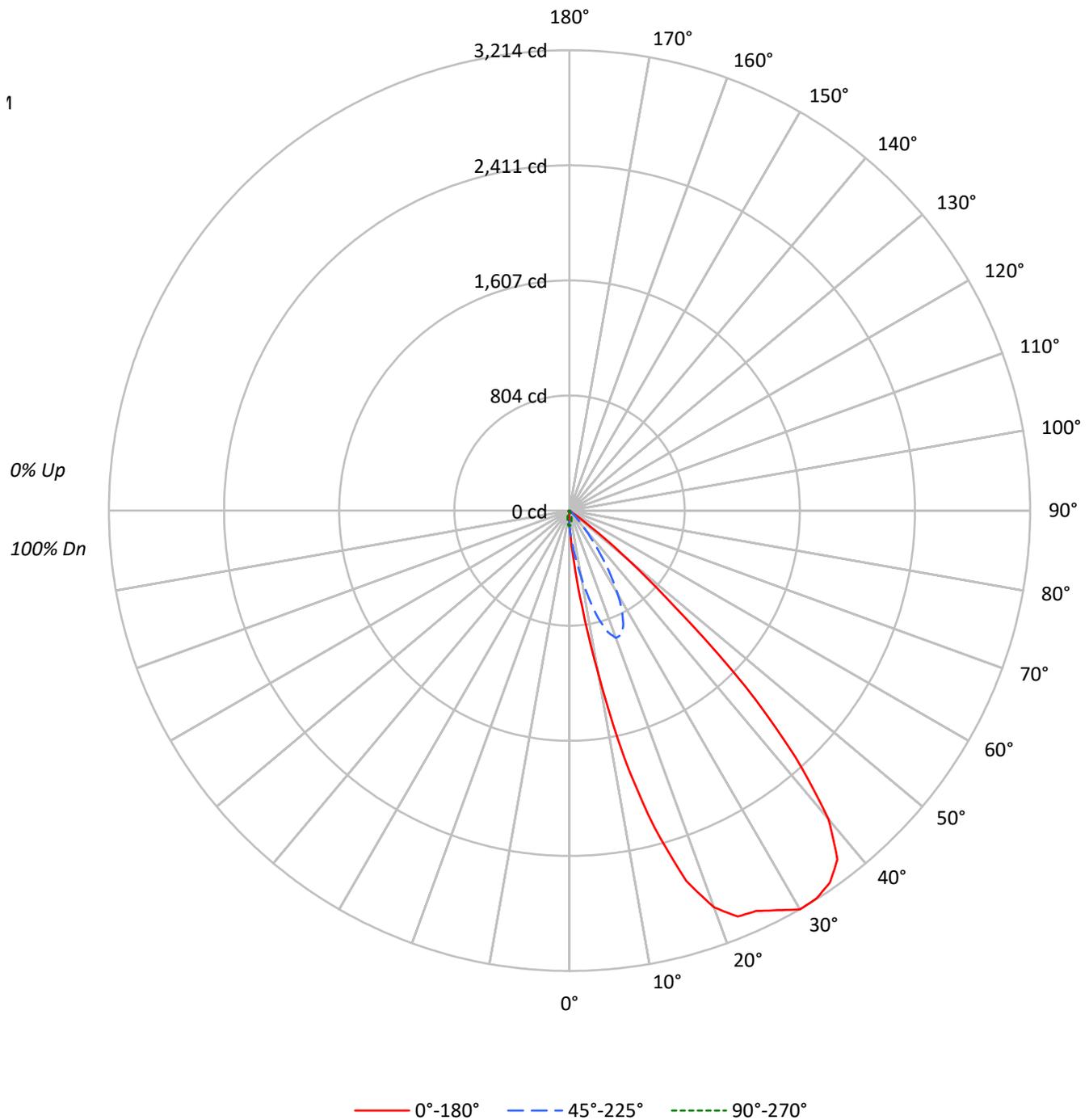
Test Method: LM-79-2019  
Report Number: P1308139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R359027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1010.9 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
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 (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





TEST NUMBER: P1308139

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**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 | 100 | 100 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  | 91  | 91  | 91  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  | 83  | 83  | 83  |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  | 74  | 74  | 74  |
| 4   | 92  | 83  | 77  | 72  | 91  | 82  | 76  | 71  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  | 67  | 67  | 67  |
| 5   | 86  | 76  | 69  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  | 61  | 61  | 61  |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  | 55  | 55  | 55  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  | 49  | 49  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  | 45  | 45  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  | 41  | 41  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  | 37  | 37  | 37  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 18290  | 18290  | 18290 | 18290 | 18290 |
| 5°  | 62289  | 40471  | 17098 | 7209  | 5342  |
| 10° | 200447 | 82053  | 13483 | 2693  | 1749  |
| 15° | 408409 | 139162 | 9539  | 963   | 642   |
| 20° | 540076 | 173324 | 6158  | 330   | 330   |
| 25° | 586004 | 168497 | 3458  | 171   | 342   |
| 30° | 639253 | 134274 | 1452  | 179   | 358   |
| 35° | 666098 | 83572  | 378   | 189   | 378   |
| 40° | 632106 | 36511  | 202   | 405   | 607   |
| 45° | 421967 | 14589  | 219   | 658   | 1096  |
| 50° | 141521 | 2438   | 482   | 965   | 1447  |
| 55° | 7897   | 270    | 540   | 1351  | 1922  |
| 60° | 620    | 310    | 930   | 1550  | 2204  |
| 65° | 734    | 367    | 1100  | 1834  | 2608  |
| 70° | 453    | 453    | 1360  | 2266  | 2719  |
| 75° | 599    | 599    | 1797  | 2396  | 2994  |
| 80° | 0      | 893    | 2678  | 2678  | 2678  |
| 85° | 0      | 1778   | 5335  | 1778  | 3557  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 421967 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.4   | 1.8       |
| 10°-20°   | 145.2  | 14.4      |
| 20°-30°   | 306.5  | 30.3      |
| 30°-40°   | 347.7  | 34.4      |
| 40°-50°   | 171.1  | 16.9      |
| 50°-60°   | 14.8   | 1.5       |
| 60°-70°   | 3.0    | 0.3       |
| 70°-80°   | 2.8    | 0.3       |
| 80°-90°   | 1.4    | 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°    | 470.1  | 46.5      |
| 0°-40°    | 817.8  | 80.9      |
| 0°-60°    | 1003.8 | 99.3      |
| 0°-90°    | 1010.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1010.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 106  | 106 | 106 | 106  | 106  |      |
| 5°  | 360  | 234 | 99  | 42   | 31   | 59   |
| 15° | 2291 | 780 | 54  | 5    | 4    | 651  |
| 25° | 3084 | 887 | 18  | 1    | 2    | 1435 |
| 35° | 3168 | 398 | 2   | 1    | 2    | 1953 |
| 45° | 1732 | 60  | 1   | 3    | 4    | 1280 |
| 55° | 26   | 1   | 2   | 4    | 6    | 103  |
| 65° | 2    | 1   | 3   | 4    | 6    | 1    |
| 75° | 1    | 1   | 3   | 4    | 4    | 1    |
| 85° | 0    | 1   | 3   | 1    | 2    | 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°    | 106.2  | 106.2  | 106.2  | 106.2  | 106.2  | 106.2  | 106.2  | 106.2  | 106.2  | 106.2 | 106.2 |
| 2.5°  | 184.2  | 188.8  | 187.0  | 186.0  | 185.1  | 181.5  | 173.3  | 172.4  | 164.3  | 158.8 | 131.6 |
| 5°    | 360.3  | 353.0  | 354.8  | 344.9  | 332.2  | 314.0  | 302.2  | 276.8  | 255.9  | 234.1 | 153.4 |
| 7.5°  | 678.8  | 668.9  | 649.8  | 620.8  | 590.8  | 551.8  | 492.8  | 445.6  | 391.1  | 339.4 | 170.6 |
| 10°   | 1146.2 | 1140.8 | 1116.3 | 1041.9 | 976.5  | 872.1  | 774.1  | 670.7  | 569.0  | 469.2 | 182.4 |
| 12.5° | 1770.6 | 1733.4 | 1688.9 | 1590.0 | 1461.1 | 1330.4 | 1137.1 | 958.4  | 795.9  | 628.9 | 183.3 |
| 15°   | 2290.6 | 2267.0 | 2204.4 | 2075.5 | 1920.3 | 1731.6 | 1502.0 | 1261.5 | 1016.4 | 780.5 | 174.2 |
| 17.5° | 2709.0 | 2672.7 | 2591.9 | 2465.8 | 2287.0 | 2042.0 | 1773.3 | 1480.2 | 1181.6 | 888.5 | 158.8 |
| 20°   | 2946.8 | 2927.7 | 2866.0 | 2739.9 | 2544.7 | 2277.0 | 1971.2 | 1629.9 | 1285.1 | 945.7 | 138.9 |
| 22.5° | 3066.6 | 3053.0 | 3007.6 | 2906.8 | 2724.4 | 2454.9 | 2104.6 | 1708.0 | 1315.0 | 939.3 | 118.0 |
| 25°   | 3083.8 | 3080.2 | 3041.2 | 2964.9 | 2812.5 | 2545.6 | 2162.7 | 1722.5 | 1290.5 | 886.7 | 98.0  |
| 27.5° | 3143.7 | 3131.0 | 3084.7 | 3008.5 | 2855.1 | 2561.1 | 2142.7 | 1672.6 | 1211.6 | 794.1 | 81.7  |
| 30°   | 3214.5 | 3205.4 | 3159.1 | 3080.2 | 2898.7 | 2546.5 | 2071.9 | 1561.9 | 1085.4 | 675.2 | 60.8  |
| 32.5° | 3209.1 | 3205.4 | 3166.4 | 3082.9 | 2867.8 | 2461.2 | 1945.8 | 1395.8 | 913.9  | 532.7 | 38.1  |
| 35°   | 3168.2 | 3155.5 | 3106.5 | 2977.6 | 2691.8 | 2241.6 | 1706.2 | 1170.7 | 723.3  | 397.5 | 24.5  |
| 37.5° | 3070.2 | 3043.0 | 2960.4 | 2741.7 | 2376.8 | 1903.1 | 1389.4 | 903.9  | 511.9  | 265.9 | 15.4  |
| 40°   | 2811.6 | 2777.1 | 2611.0 | 2346.9 | 1964.8 | 1499.3 | 1033.7 | 621.7  | 337.6  | 162.4 | 6.4   |
| 42.5° | 2332.4 | 2262.5 | 2096.4 | 1825.1 | 1466.6 | 1060.0 | 678.8  | 402.9  | 198.8  | 98.0  | 1.8   |
| 45°   | 1732.5 | 1678.9 | 1504.7 | 1258.8 | 961.1  | 679.7  | 411.1  | 217.8  | 109.8  | 59.9  | 0.9   |
| 47.5° | 1009.2 | 976.5  | 886.7  | 725.1  | 530.9  | 356.7  | 210.5  | 117.1  | 64.4   | 29.0  | 0.9   |
| 50°   | 528.2  | 487.3  | 419.3  | 317.6  | 234.1  | 164.3  | 102.6  | 62.6   | 31.8   | 9.1   | 0.9   |
| 52.5° | 185.1  | 182.4  | 166.1  | 125.2  | 101.6  | 73.5   | 49.9   | 27.2   | 9.1    | 1.8   | 0.9   |
| 55°   | 26.3   | 26.3   | 24.5   | 27.2   | 29.0   | 26.3   | 17.2   | 7.3    | 1.8    | 0.9   | 0.9   |
| 57.5° | 1.8    | 1.8    | 1.8    | 2.7    | 3.6    | 3.6    | 2.7    | 0.9    | 0.9    | 0.9   | 1.8   |
| 60°   | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 62.5° | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 65°   | 1.8    | 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°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 77.5° | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 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°    | 106.2 | 106.2  | 106.2 | 106.2  | 106.2 |
| 2.5°  | 105.3 | 84.4   | 67.2  | 59.0   | 56.3  |
| 5°    | 98.9  | 63.5   | 41.7  | 32.7   | 30.9  |
| 7.5°  | 88.0  | 45.4   | 25.4  | 18.2   | 17.2  |
| 10°   | 77.1  | 32.7   | 15.4  | 10.9   | 10.0  |
| 12.5° | 64.4  | 22.7   | 10.0  | 6.4    | 5.4   |
| 15°   | 53.5  | 15.4   | 5.4   | 4.5    | 3.6   |
| 17.5° | 42.7  | 10.0   | 3.6   | 2.7    | 3.6   |
| 20°   | 33.6  | 6.4    | 1.8   | 1.8    | 1.8   |
| 22.5° | 25.4  | 3.6    | 1.8   | 1.8    | 1.8   |
| 25°   | 18.2  | 1.8    | 0.9   | 0.9    | 1.8   |
| 27.5° | 12.7  | 0.9    | 0.9   | 0.9    | 1.8   |
| 30°   | 7.3   | 0.9    | 0.9   | 0.9    | 1.8   |
| 32.5° | 3.6   | 0.9    | 0.9   | 1.8    | 1.8   |
| 35°   | 1.8   | 0.9    | 0.9   | 1.8    | 1.8   |
| 37.5° | 0.9   | 0.9    | 0.9   | 1.8    | 2.7   |
| 40°   | 0.9   | 0.9    | 1.8   | 2.7    | 2.7   |
| 42.5° | 0.9   | 0.9    | 1.8   | 2.7    | 3.6   |
| 45°   | 0.9   | 1.8    | 2.7   | 3.6    | 4.5   |
| 47.5° | 1.8   | 1.8    | 3.6   | 4.5    | 5.4   |
| 50°   | 1.8   | 2.7    | 3.6   | 5.4    | 5.4   |
| 52.5° | 1.8   | 2.7    | 4.5   | 5.4    | 6.4   |
| 55°   | 1.8   | 3.6    | 4.5   | 6.4    | 6.4   |
| 57.5° | 2.7   | 3.6    | 4.5   | 6.4    | 6.4   |
| 60°   | 2.7   | 3.6    | 4.5   | 6.4    | 6.4   |
| 62.5° | 2.7   | 3.6    | 4.5   | 6.4    | 6.4   |
| 65°   | 2.7   | 3.6    | 4.5   | 6.4    | 6.4   |
| 67.5° | 2.7   | 3.6    | 4.5   | 5.4    | 6.4   |
| 70°   | 2.7   | 3.6    | 4.5   | 5.4    | 5.4   |
| 72.5° | 3.6   | 3.6    | 4.5   | 5.4    | 5.4   |
| 75°   | 2.7   | 3.6    | 3.6   | 4.5    | 4.5   |
| 77.5° | 2.7   | 2.7    | 2.7   | 3.6    | 3.6   |
| 80°   | 2.7   | 2.7    | 2.7   | 2.7    | 2.7   |
| 82.5° | 2.7   | 1.8    | 1.8   | 2.7    | 2.7   |
| 85°   | 2.7   | 1.8    | 0.9   | 1.8    | 1.8   |
| 87.5° | 1.8   | 1.8    | 0.9   | 0.9    | 0.9   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)