

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: P1307324

Luminaire Tested: LDSQA3D17R359024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307324  
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: LDSQA3D17R359024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

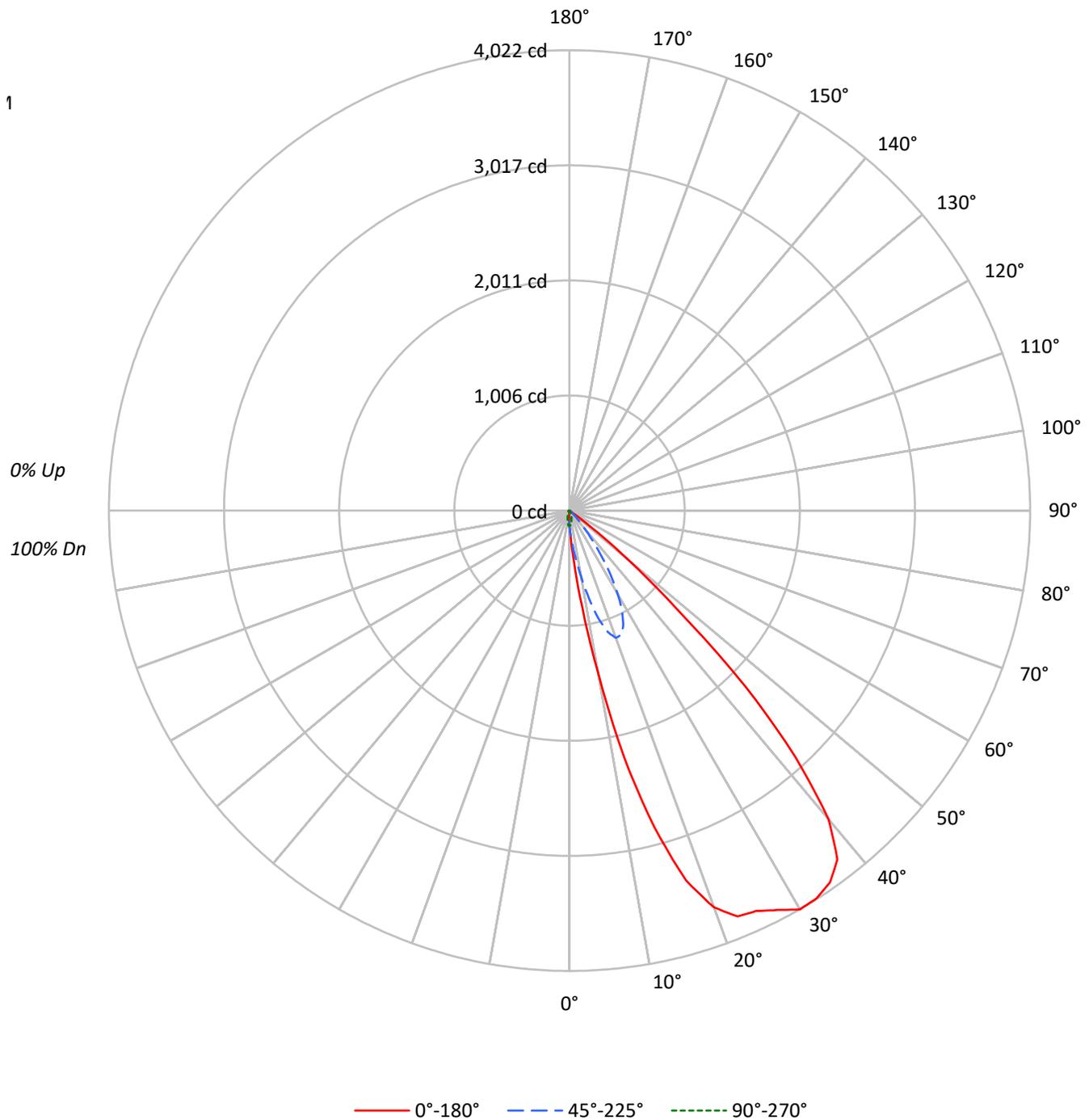
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1264.9 lumens  
Efficiency: N/A  
Efficacy: 59.7 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): 21.2  
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





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

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 22888  | 22888  | 22888 | 22888 | 22888 |
| 5°  | 77935  | 50654  | 21403 | 9024  | 6673  |
| 10° | 250812 | 102672 | 16876 | 3375  | 2186  |
| 15° | 511020 | 174126 | 11946 | 1212  | 802   |
| 20° | 675755 | 216852 | 7698  | 422   | 422   |
| 25° | 733237 | 210816 | 4314  | 209   | 437   |
| 30° | 799857 | 168002 | 1810  | 219   | 457   |
| 35° | 833453 | 104576 | 484   | 231   | 484   |
| 40° | 790897 | 45706  | 247   | 517   | 764   |
| 45° | 527988 | 18243  | 268   | 828   | 1388  |
| 50° | 177076 | 3054   | 616   | 1206  | 1822  |
| 55° | 9879   | 330    | 691   | 1711  | 2372  |
| 60° | 792    | 379    | 1171  | 1963  | 2721  |
| 65° | 937    | 448    | 1386  | 2323  | 3219  |
| 70° | 554    | 554    | 1712  | 2870  | 3424  |
| 75° | 732    | 732    | 2262  | 2994  | 3793  |
| 80° | 0      | 1091   | 3372  | 3372  | 3372  |
| 85° | 0      | 2174   | 6719  | 2174  | 4545  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 527988 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.1   | 1.8       |
| 10°-20°   | 181.7  | 14.4      |
| 20°-30°   | 383.5  | 30.3      |
| 30°-40°   | 435.1  | 34.4      |
| 40°-50°   | 214.1  | 16.9      |
| 50°-60°   | 18.6   | 1.5       |
| 60°-70°   | 3.8    | 0.3       |
| 70°-80°   | 3.5    | 0.3       |
| 80°-90°   | 1.7    | 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°    | 588.2  | 46.5      |
| 0°-40°    | 1023.3 | 80.9      |
| 0°-60°    | 1256.0 | 99.3      |
| 0°-90°    | 1264.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1264.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 133  | 133  | 133 | 133  | 133  |      |
| 5°  | 451  | 293  | 124 | 52   | 39   | 74   |
| 15° | 2866 | 977  | 67  | 7    | 4    | 815  |
| 25° | 3859 | 1109 | 23  | 1    | 2    | 1795 |
| 35° | 3964 | 497  | 2   | 1    | 2    | 2443 |
| 45° | 2168 | 75   | 1   | 3    | 6    | 1602 |
| 55° | 33   | 1    | 2   | 6    | 8    | 129  |
| 65° | 2    | 1    | 3   | 6    | 8    | 2    |
| 75° | 1    | 1    | 3   | 4    | 6    | 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°    | 132.9  | 132.9  | 132.9  | 132.9  | 132.9  | 132.9  | 132.9  | 132.9  | 132.9  | 132.9  | 132.9 |
| 2.5°  | 230.5  | 236.2  | 233.9  | 232.8  | 231.7  | 227.1  | 216.9  | 215.8  | 205.5  | 198.7  | 164.7 |
| 5°    | 450.8  | 441.7  | 444.0  | 431.5  | 415.6  | 392.9  | 378.1  | 346.3  | 320.2  | 293.0  | 191.9 |
| 7.5°  | 849.4  | 836.9  | 813.0  | 776.7  | 739.2  | 690.4  | 616.6  | 557.6  | 489.4  | 424.7  | 213.5 |
| 10°   | 1434.2 | 1427.4 | 1396.7 | 1303.6 | 1221.8 | 1091.3 | 968.6  | 839.2  | 712.0  | 587.1  | 228.2 |
| 12.5° | 2215.4 | 2168.9 | 2113.2 | 1989.5 | 1828.2 | 1664.7 | 1422.8 | 1199.1 | 995.9  | 786.9  | 229.4 |
| 15°   | 2866.1 | 2836.6 | 2758.2 | 2597.0 | 2402.8 | 2166.6 | 1879.3 | 1578.4 | 1271.8 | 976.6  | 218.0 |
| 17.5° | 3389.6 | 3344.2 | 3243.1 | 3085.3 | 2861.6 | 2555.0 | 2218.9 | 1852.1 | 1478.5 | 1111.7 | 198.7 |
| 20°   | 3687.1 | 3663.3 | 3586.0 | 3428.2 | 3184.1 | 2849.1 | 2466.4 | 2039.4 | 1607.9 | 1183.2 | 173.7 |
| 22.5° | 3837.0 | 3820.0 | 3763.2 | 3637.1 | 3408.9 | 3071.6 | 2633.3 | 2137.1 | 1645.4 | 1175.3 | 147.6 |
| 25°   | 3858.6 | 3854.0 | 3805.2 | 3709.8 | 3519.0 | 3185.2 | 2706.0 | 2155.3 | 1614.7 | 1109.4 | 122.6 |
| 27.5° | 3933.5 | 3917.6 | 3859.7 | 3764.3 | 3572.4 | 3204.5 | 2681.0 | 2092.8 | 1516.0 | 993.6  | 102.2 |
| 30°   | 4022.1 | 4010.7 | 3952.8 | 3854.0 | 3626.9 | 3186.3 | 2592.4 | 1954.3 | 1358.1 | 844.8  | 76.1  |
| 32.5° | 4015.3 | 4010.7 | 3961.9 | 3857.4 | 3588.3 | 3079.6 | 2434.6 | 1746.5 | 1143.5 | 666.6  | 47.7  |
| 35°   | 3964.2 | 3948.3 | 3887.0 | 3725.7 | 3368.0 | 2804.8 | 2134.8 | 1464.9 | 905.0  | 497.4  | 30.7  |
| 37.5° | 3841.5 | 3807.5 | 3704.1 | 3430.5 | 2974.0 | 2381.2 | 1738.5 | 1131.0 | 640.4  | 332.7  | 19.3  |
| 40°   | 3517.9 | 3474.8 | 3267.0 | 2936.5 | 2458.5 | 1875.9 | 1293.4 | 777.8  | 422.4  | 203.3  | 7.9   |
| 42.5° | 2918.3 | 2830.9 | 2623.1 | 2283.6 | 1835.0 | 1326.3 | 849.4  | 504.2  | 248.7  | 122.6  | 2.3   |
| 45°   | 2167.8 | 2100.8 | 1882.7 | 1575.0 | 1202.5 | 850.5  | 514.4  | 272.5  | 137.4  | 74.9   | 1.1   |
| 47.5° | 1262.7 | 1221.8 | 1109.4 | 907.3  | 664.3  | 446.3  | 263.4  | 146.5  | 80.6   | 36.3   | 1.1   |
| 50°   | 660.9  | 609.8  | 524.6  | 397.4  | 293.0  | 205.5  | 128.3  | 78.4   | 39.7   | 11.4   | 1.1   |
| 52.5° | 231.7  | 228.2  | 207.8  | 156.7  | 127.2  | 92.0   | 62.5   | 34.1   | 11.4   | 2.3    | 1.1   |
| 55°   | 32.9   | 32.9   | 30.7   | 34.1   | 36.3   | 32.9   | 21.6   | 9.1    | 2.3    | 1.1    | 1.1   |
| 57.5° | 2.3    | 2.3    | 2.3    | 3.4    | 4.5    | 4.5    | 3.4    | 1.1    | 1.1    | 1.1    | 2.3   |
| 60°   | 2.3    | 2.3    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 62.5° | 2.3    | 2.3    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 65°   | 2.3    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 67.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 70°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 3.4   |
| 72.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 3.4   |
| 75°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 3.4   |
| 77.5° | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 3.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 2.3   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 2.3   |
| 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°    | 132.9 | 132.9  | 132.9 | 132.9  | 132.9 |
| 2.5°  | 131.7 | 105.6  | 84.0  | 73.8   | 70.4  |
| 5°    | 123.8 | 79.5   | 52.2  | 40.9   | 38.6  |
| 7.5°  | 110.1 | 56.8   | 31.8  | 22.7   | 21.6  |
| 10°   | 96.5  | 40.9   | 19.3  | 13.6   | 12.5  |
| 12.5° | 80.6  | 28.4   | 12.5  | 7.9    | 6.8   |
| 15°   | 67.0  | 19.3   | 6.8   | 5.7    | 4.5   |
| 17.5° | 53.4  | 12.5   | 4.5   | 3.4    | 4.5   |
| 20°   | 42.0  | 7.9    | 2.3   | 2.3    | 2.3   |
| 22.5° | 31.8  | 4.5    | 2.3   | 2.3    | 2.3   |
| 25°   | 22.7  | 2.3    | 1.1   | 1.1    | 2.3   |
| 27.5° | 15.9  | 1.1    | 1.1   | 1.1    | 2.3   |
| 30°   | 9.1   | 1.1    | 1.1   | 1.1    | 2.3   |
| 32.5° | 4.5   | 1.1    | 1.1   | 2.3    | 2.3   |
| 35°   | 2.3   | 1.1    | 1.1   | 2.3    | 2.3   |
| 37.5° | 1.1   | 1.1    | 1.1   | 2.3    | 3.4   |
| 40°   | 1.1   | 1.1    | 2.3   | 3.4    | 3.4   |
| 42.5° | 1.1   | 1.1    | 2.3   | 3.4    | 4.5   |
| 45°   | 1.1   | 2.3    | 3.4   | 4.5    | 5.7   |
| 47.5° | 2.3   | 2.3    | 4.5   | 5.7    | 6.8   |
| 50°   | 2.3   | 3.4    | 4.5   | 6.8    | 6.8   |
| 52.5° | 2.3   | 3.4    | 5.7   | 6.8    | 7.9   |
| 55°   | 2.3   | 4.5    | 5.7   | 7.9    | 7.9   |
| 57.5° | 3.4   | 4.5    | 5.7   | 7.9    | 7.9   |
| 60°   | 3.4   | 4.5    | 5.7   | 7.9    | 7.9   |
| 62.5° | 3.4   | 4.5    | 5.7   | 7.9    | 7.9   |
| 65°   | 3.4   | 4.5    | 5.7   | 7.9    | 7.9   |
| 67.5° | 3.4   | 4.5    | 5.7   | 6.8    | 7.9   |
| 70°   | 3.4   | 4.5    | 5.7   | 6.8    | 6.8   |
| 72.5° | 4.5   | 4.5    | 5.7   | 6.8    | 6.8   |
| 75°   | 3.4   | 4.5    | 4.5   | 5.7    | 5.7   |
| 77.5° | 3.4   | 3.4    | 3.4   | 4.5    | 4.5   |
| 80°   | 3.4   | 3.4    | 3.4   | 3.4    | 3.4   |
| 82.5° | 3.4   | 2.3    | 2.3   | 3.4    | 3.4   |
| 85°   | 3.4   | 2.3    | 1.1   | 2.3    | 2.3   |
| 87.5° | 2.3   | 2.3    | 1.1   | 1.1    | 1.1   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)