

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: P1319226

Luminaire Tested: LDSQA3D13R309835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319226
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: LDSQA3D13R309835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

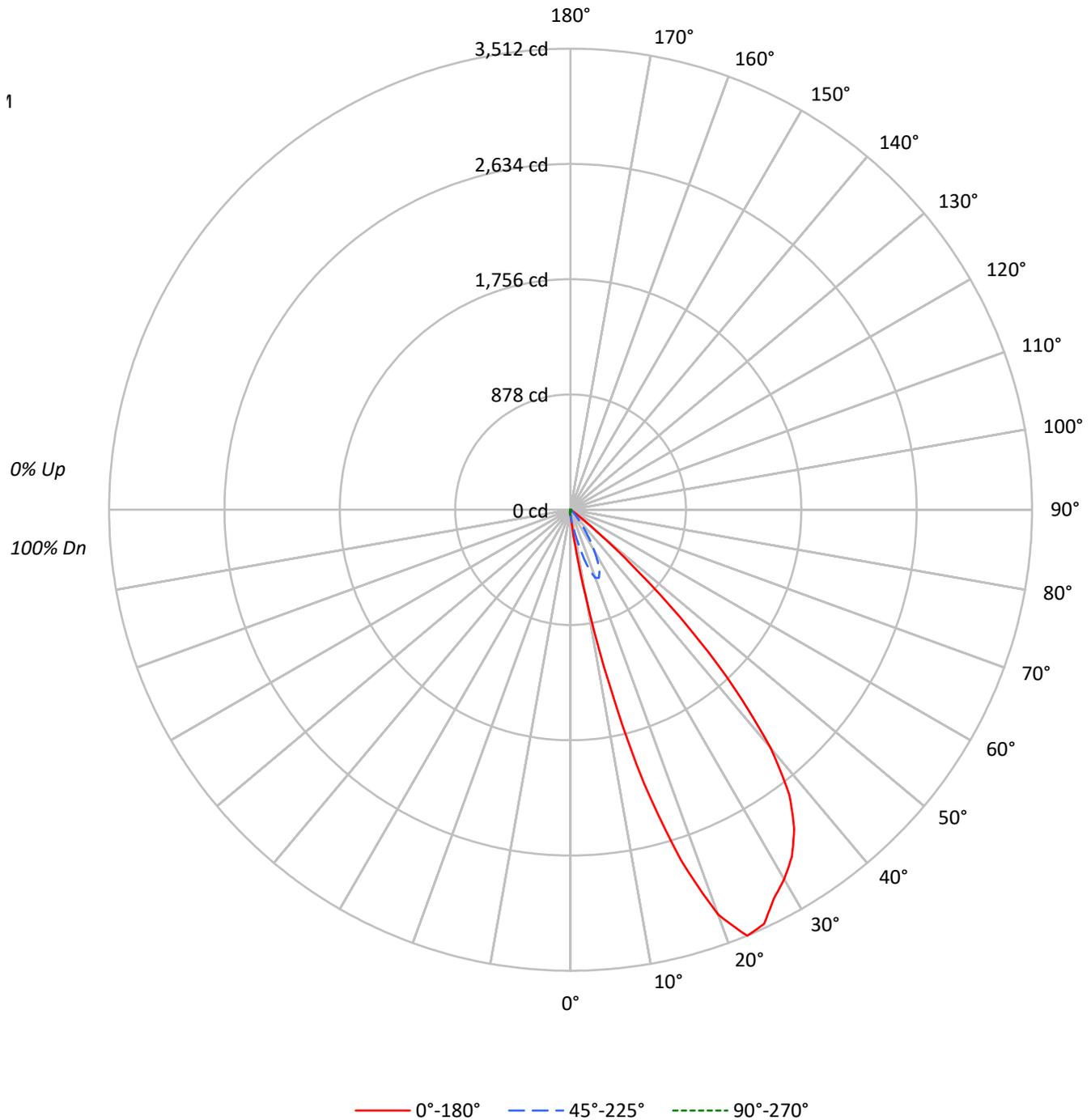
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 828.1 lumens
Efficiency: N/A
Efficacy: 57.1 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): 14.5
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: P1319226

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 |
| 2 | 106 | 100 | 95 | 92 | 103 | 98 | 94 | 90 | 95 | 92 | 88 | 92 | 89 | 87 | 89 | 87 | 85 | 83 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 79 | 77 | 75 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 73 | 69 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 65 | 74 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 61 |
| 6 | 81 | 71 | 64 | 58 | 80 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 61 | 57 | 65 | 61 | 57 | 55 |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 9 | 67 | 55 | 48 | 43 | 65 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 52 | 46 | 43 | 41 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|------|------|------|
| 0° | 6768 | 6768 | 6768 | 6768 | 6768 |
| 5° | 20400 | 13606 | 6414 | 2870 | 2351 |
| 10° | 118149 | 28838 | 5037 | 1329 | 927 |
| 15° | 384339 | 65435 | 3512 | 267 | 143 |
| 20° | 601400 | 101223 | 2218 | 0 | 0 |
| 25° | 661654 | 98909 | 1159 | 0 | 0 |
| 30° | 646234 | 71313 | 457 | 0 | 0 |
| 35° | 623713 | 40556 | 168 | 0 | 0 |
| 40° | 531903 | 17176 | 0 | 0 | 0 |
| 45° | 312170 | 6454 | 195 | 0 | 195 |
| 50° | 75824 | 1206 | 214 | 214 | 616 |
| 55° | 6576 | 0 | 450 | 691 | 901 |
| 60° | 276 | 0 | 517 | 792 | 1309 |
| 65° | 326 | 326 | 937 | 937 | 1549 |
| 70° | 403 | 403 | 1158 | 1158 | 1511 |
| 75° | 0 | 532 | 1530 | 1530 | 1530 |
| 80° | 0 | 793 | 2281 | 1488 | 1488 |
| 85° | 0 | 1581 | 4545 | 1581 | 1581 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 312170 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.2 | 0.9 |
| 10°-20° | 113.8 | 13.7 |
| 20°-30° | 289.2 | 34.9 |
| 30°-40° | 288.2 | 34.8 |
| 40°-50° | 116.8 | 14.1 |
| 50°-60° | 8.1 | 1.0 |
| 60°-70° | 1.8 | 0.2 |
| 70°-80° | 1.8 | 0.2 |
| 80°-90° | 1.1 | 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° | 410.2 | 49.5 |
| 0°-40° | 698.5 | 84.3 |
| 0°-60° | 823.3 | 99.4 |
| 0°-90° | 828.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 828.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 39 | 39 | 39 | 39 | 39 | |
| 5° | 118 | 79 | 37 | 17 | 14 | 27 |
| 15° | 2156 | 367 | 20 | 2 | 1 | 627 |
| 25° | 3482 | 520 | 6 | 0 | 0 | 1572 |
| 35° | 2967 | 193 | 1 | 0 | 0 | 1818 |
| 45° | 1282 | 26 | 1 | 0 | 1 | 978 |
| 55° | 22 | 0 | 2 | 2 | 3 | 57 |
| 65° | 1 | 1 | 2 | 2 | 4 | 1 |
| 75° | 0 | 1 | 2 | 2 | 2 | 0 |
| 85° | 0 | 1 | 2 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1319226

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 |
| 2.5° | 65.1 | 65.8 | 65.8 | 64.3 | 63.6 | 63.6 | 61.3 | 60.5 | 58.3 | 56.0 | 48.4 |
| 5° | 118.0 | 115.8 | 112.7 | 112.7 | 105.9 | 102.1 | 96.8 | 90.8 | 86.3 | 78.7 | 56.0 |
| 7.5° | 267.8 | 249.7 | 244.4 | 237.6 | 211.8 | 191.4 | 168.0 | 147.5 | 128.6 | 112.7 | 62.0 |
| 10° | 675.6 | 640.1 | 610.6 | 550.8 | 475.9 | 404.0 | 337.4 | 260.3 | 207.3 | 164.9 | 66.6 |
| 12.5° | 1361.1 | 1313.5 | 1256.7 | 1147.8 | 1007.8 | 828.5 | 669.6 | 500.1 | 351.1 | 242.9 | 68.1 |
| 15° | 2155.6 | 2074.6 | 1986.1 | 1847.6 | 1618.4 | 1361.1 | 1074.4 | 804.3 | 563.7 | 367.0 | 66.6 |
| 17.5° | 2803.2 | 2771.4 | 2640.5 | 2451.4 | 2170.7 | 1839.3 | 1486.0 | 1116.7 | 760.4 | 480.4 | 62.0 |
| 20° | 3281.4 | 3259.4 | 3101.3 | 2900.1 | 2583.8 | 2204.0 | 1755.3 | 1311.9 | 897.3 | 552.3 | 55.2 |
| 22.5° | 3512.1 | 3508.4 | 3394.1 | 3188.3 | 2853.1 | 2422.6 | 1928.6 | 1424.7 | 939.7 | 562.2 | 46.2 |
| 25° | 3481.9 | 3495.5 | 3430.4 | 3277.6 | 2956.0 | 2512.7 | 1980.0 | 1424.7 | 908.7 | 520.5 | 38.6 |
| 27.5° | 3344.2 | 3353.3 | 3312.4 | 3195.1 | 2895.5 | 2447.6 | 1908.2 | 1333.1 | 818.6 | 447.2 | 31.8 |
| 30° | 3249.6 | 3253.4 | 3202.7 | 3077.1 | 2759.3 | 2299.3 | 1738.7 | 1163.7 | 682.5 | 358.6 | 23.5 |
| 32.5° | 3134.6 | 3133.8 | 3074.8 | 2931.1 | 2580.8 | 2091.2 | 1523.8 | 961.6 | 524.3 | 272.4 | 13.6 |
| 35° | 2966.6 | 2947.7 | 2867.5 | 2701.8 | 2314.4 | 1811.3 | 1249.2 | 732.4 | 377.5 | 192.9 | 8.3 |
| 37.5° | 2735.9 | 2686.7 | 2573.2 | 2351.5 | 1940.7 | 1420.1 | 926.1 | 514.5 | 258.0 | 127.9 | 5.3 |
| 40° | 2365.9 | 2313.7 | 2159.3 | 1890.0 | 1467.8 | 1022.2 | 624.2 | 335.2 | 162.7 | 76.4 | 3.0 |
| 42.5° | 1855.2 | 1819.6 | 1611.6 | 1343.0 | 969.2 | 652.2 | 375.3 | 198.2 | 91.5 | 43.9 | 0.8 |
| 45° | 1281.7 | 1235.5 | 1072.1 | 844.4 | 581.8 | 361.7 | 210.3 | 103.7 | 52.2 | 26.5 | 0.0 |
| 47.5° | 707.4 | 650.7 | 556.1 | 437.3 | 292.8 | 189.9 | 105.9 | 56.0 | 29.5 | 12.9 | 0.0 |
| 50° | 283.0 | 280.7 | 223.2 | 158.9 | 112.0 | 86.3 | 53.0 | 30.3 | 15.1 | 4.5 | 0.8 |
| 52.5° | 99.1 | 99.1 | 85.5 | 69.6 | 54.5 | 39.3 | 26.5 | 14.4 | 5.3 | 1.5 | 0.8 |
| 55° | 21.9 | 24.2 | 22.7 | 21.2 | 20.4 | 17.4 | 11.3 | 5.3 | 1.5 | 0.0 | 0.8 |
| 57.5° | 2.3 | 2.3 | 2.3 | 3.0 | 3.8 | 3.8 | 3.0 | 1.5 | 0.0 | 0.0 | 0.8 |
| 60° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 1.5 |
| 62.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 1.5 |
| 65° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |
| 67.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |
| 70° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.3 |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.3 |
| 75° | 0.0 | 0.0 | 0.8 | 0.8 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 1.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 1.5 |
| 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° | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 |
| 2.5° | 39.3 | 31.0 | 25.7 | 22.7 | 21.9 |
| 5° | 37.1 | 23.5 | 16.6 | 14.4 | 13.6 |
| 7.5° | 33.3 | 17.4 | 11.3 | 9.1 | 8.3 |
| 10° | 28.8 | 12.9 | 7.6 | 5.3 | 5.3 |
| 12.5° | 24.2 | 9.8 | 4.5 | 2.3 | 1.5 |
| 15° | 19.7 | 6.1 | 1.5 | 0.8 | 0.8 |
| 17.5° | 15.1 | 3.8 | 0.0 | 0.0 | 0.0 |
| 20° | 12.1 | 1.5 | 0.0 | 0.0 | 0.0 |
| 22.5° | 9.1 | 0.8 | 0.0 | 0.0 | 0.0 |
| 25° | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.8 | 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° | 0.8 | 0.0 | 0.0 | 0.8 | 0.8 |
| 47.5° | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 |
| 50° | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 |
| 52.5° | 1.5 | 0.8 | 1.5 | 2.3 | 2.3 |
| 55° | 1.5 | 1.5 | 2.3 | 3.0 | 3.0 |
| 57.5° | 1.5 | 1.5 | 2.3 | 3.0 | 3.0 |
| 60° | 1.5 | 1.5 | 2.3 | 3.0 | 3.8 |
| 62.5° | 2.3 | 2.3 | 2.3 | 3.0 | 3.0 |
| 65° | 2.3 | 2.3 | 2.3 | 3.0 | 3.8 |
| 67.5° | 2.3 | 2.3 | 2.3 | 3.0 | 3.8 |
| 70° | 2.3 | 2.3 | 2.3 | 3.0 | 3.0 |
| 72.5° | 3.0 | 2.3 | 2.3 | 3.0 | 3.0 |
| 75° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 77.5° | 2.3 | 2.3 | 1.5 | 2.3 | 2.3 |
| 80° | 2.3 | 1.5 | 1.5 | 1.5 | 1.5 |
| 82.5° | 2.3 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 2.3 | 1.5 | 0.8 | 0.8 | 0.8 |
| 87.5° | 2.3 | 1.5 | 0.8 | 0.8 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)