

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: P1316453

Luminaire Tested: LDSQA3D09R409740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R409740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

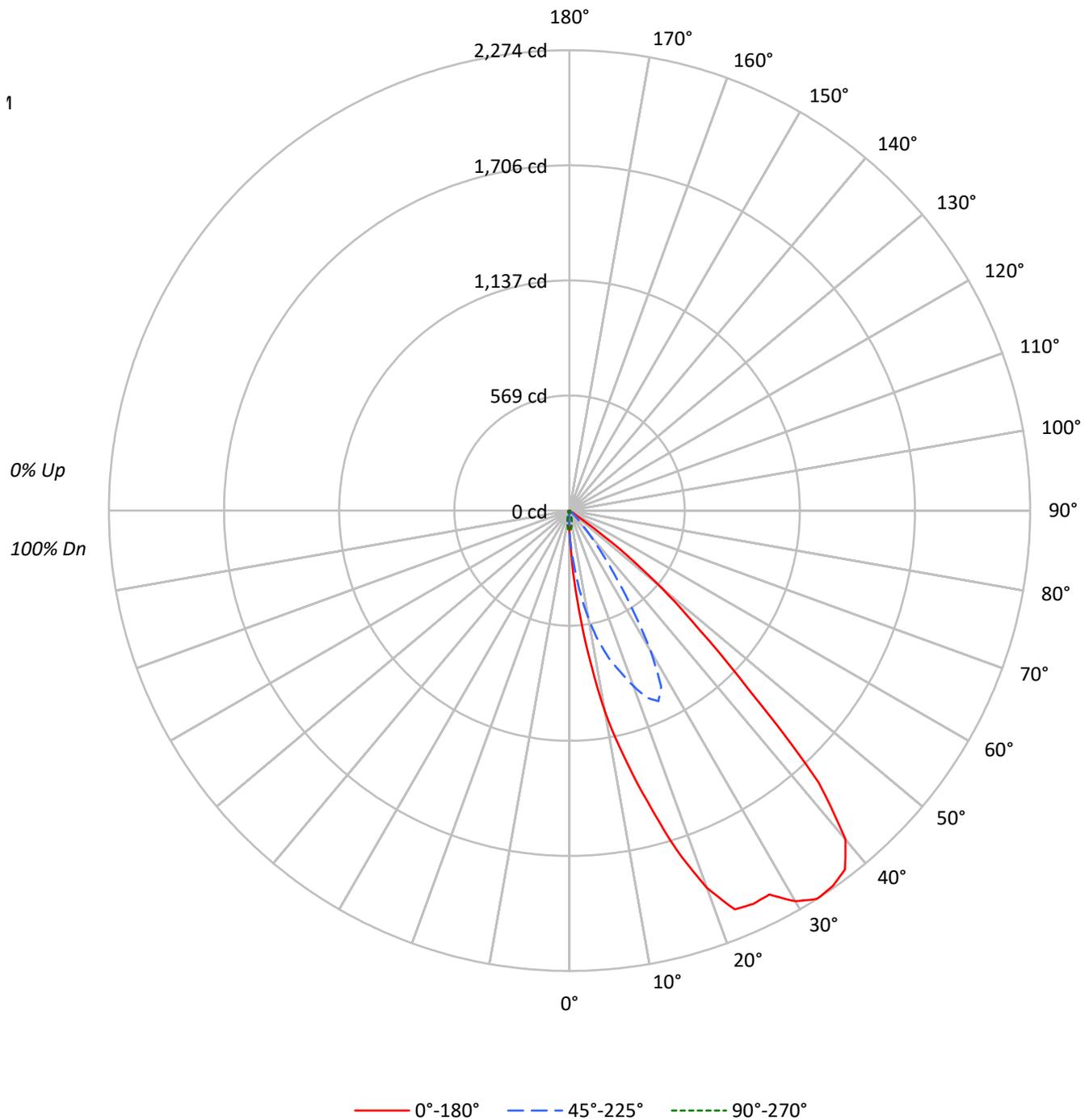
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.9 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (A_{in}): 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: P1316453

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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 | 100 | | | | |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 | | | | |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 82 | | | | |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 | | | | |
| 4 | 92 | 83 | 77 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 67 | | | | |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 60 | | | | |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 54 | | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 51 | 49 | | | | |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 | | | | |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 37 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 17102 | 17102 | 17102 | 17102 | 17102 |
| 5° | 77105 | 49167 | 15317 | 5878 | 4287 |
| 10° | 176838 | 94995 | 10790 | 2116 | 1609 |
| 15° | 265379 | 134775 | 6704 | 1141 | 1016 |
| 20° | 363380 | 168943 | 3904 | 641 | 788 |
| 25° | 407341 | 197400 | 2014 | 532 | 665 |
| 30° | 443073 | 159351 | 855 | 418 | 696 |
| 35° | 476184 | 81554 | 294 | 589 | 904 |
| 40° | 476350 | 32532 | 157 | 629 | 1124 |
| 45° | 304133 | 10887 | 341 | 1047 | 1559 |
| 50° | 157892 | 1340 | 563 | 1340 | 1902 |
| 55° | 13632 | 210 | 631 | 1711 | 2342 |
| 60° | 482 | 241 | 723 | 1963 | 2687 |
| 65° | 571 | 285 | 1141 | 2038 | 2893 |
| 70° | 352 | 352 | 1410 | 2165 | 2870 |
| 75° | 466 | 466 | 1397 | 2329 | 3327 |
| 80° | 694 | 694 | 2083 | 2083 | 2777 |
| 85° | 0 | 1383 | 4150 | 2766 | 2766 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 304133 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 19.3 | 2.3 |
| 10°-20° | 113.6 | 13.5 |
| 20°-30° | 248.7 | 29.6 |
| 30°-40° | 283.3 | 33.8 |
| 40°-50° | 149.5 | 17.8 |
| 50°-60° | 17.6 | 2.1 |
| 60°-70° | 3.2 | 0.4 |
| 70°-80° | 2.6 | 0.3 |
| 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° | 381.6 | 45.5 |
| 0°-40° | 664.9 | 79.3 |
| 0°-60° | 832.0 | 99.2 |
| 0°-90° | 838.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 838.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 99 | 99 | 99 | 99 | 99 | |
| 5° | 446 | 284 | 89 | 34 | 25 | 60 |
| 15° | 1488 | 756 | 38 | 6 | 6 | 439 |
| 25° | 2144 | 1039 | 11 | 3 | 4 | 988 |
| 35° | 2265 | 388 | 1 | 3 | 4 | 1404 |
| 45° | 1249 | 45 | 1 | 4 | 6 | 1007 |
| 55° | 45 | 1 | 2 | 6 | 8 | 141 |
| 65° | 1 | 1 | 3 | 5 | 7 | 1 |
| 75° | 1 | 1 | 2 | 4 | 5 | 1 |
| 85° | 0 | 1 | 2 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1316453

CATALOG NUMBER: LDSQA3D09R409740DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 |
| 2.5° | 221.2 | 221.2 | 220.5 | 214.2 | 213.4 | 212.7 | 201.4 | 198.6 | 185.1 | 175.9 | 134.0 |
| 5° | 446.0 | 436.1 | 435.4 | 424.0 | 404.9 | 379.4 | 363.1 | 336.8 | 311.3 | 284.4 | 165.2 |
| 7.5° | 710.5 | 719.0 | 695.6 | 683.6 | 641.0 | 610.5 | 563.7 | 522.6 | 465.2 | 411.3 | 190.8 |
| 10° | 1011.2 | 996.3 | 972.9 | 949.5 | 903.4 | 848.8 | 779.3 | 706.3 | 623.3 | 543.2 | 204.9 |
| 12.5° | 1245.9 | 1226.8 | 1212.6 | 1180.7 | 1135.3 | 1065.1 | 982.1 | 884.3 | 774.3 | 658.8 | 204.2 |
| 15° | 1488.4 | 1469.3 | 1437.4 | 1409.0 | 1341.6 | 1262.9 | 1172.9 | 1043.8 | 909.1 | 755.9 | 189.3 |
| 17.5° | 1755.0 | 1730.2 | 1694.8 | 1651.5 | 1586.3 | 1499.1 | 1384.9 | 1227.5 | 1036.7 | 835.3 | 162.4 |
| 20° | 1982.7 | 1967.8 | 1932.3 | 1881.3 | 1817.4 | 1732.4 | 1600.5 | 1426.0 | 1193.4 | 921.8 | 129.1 |
| 22.5° | 2131.6 | 2118.1 | 2094.0 | 2049.3 | 2001.1 | 1910.3 | 1789.8 | 1598.3 | 1324.6 | 1000.6 | 97.9 |
| 25° | 2143.6 | 2138.0 | 2131.6 | 2116.7 | 2087.6 | 2023.1 | 1905.4 | 1699.0 | 1406.2 | 1038.8 | 72.3 |
| 27.5° | 2137.3 | 2135.1 | 2133.7 | 2125.9 | 2106.8 | 2042.9 | 1922.4 | 1713.9 | 1395.5 | 979.3 | 53.2 |
| 30° | 2228.0 | 2221.6 | 2218.1 | 2192.6 | 2142.2 | 2043.6 | 1886.2 | 1633.8 | 1240.2 | 801.3 | 38.3 |
| 32.5° | 2274.1 | 2272.7 | 2269.1 | 2244.3 | 2173.4 | 2045.1 | 1825.2 | 1440.2 | 983.5 | 578.6 | 26.2 |
| 35° | 2264.9 | 2257.8 | 2245.0 | 2198.9 | 2100.4 | 1939.4 | 1628.1 | 1150.2 | 709.8 | 387.9 | 17.0 |
| 37.5° | 2233.7 | 2217.4 | 2192.6 | 2109.6 | 1978.4 | 1758.6 | 1320.4 | 846.7 | 482.9 | 251.0 | 9.9 |
| 40° | 2118.8 | 2096.8 | 2057.8 | 1956.4 | 1784.1 | 1449.4 | 976.4 | 572.3 | 317.0 | 144.7 | 2.8 |
| 42.5° | 1821.7 | 1793.3 | 1765.0 | 1651.5 | 1454.4 | 1080.7 | 642.5 | 353.8 | 180.8 | 79.4 | 0.7 |
| 45° | 1248.7 | 1213.3 | 1174.3 | 1092.0 | 933.9 | 654.5 | 382.2 | 199.3 | 93.6 | 44.7 | 0.7 |
| 47.5° | 867.2 | 850.9 | 782.9 | 677.9 | 519.8 | 346.8 | 197.8 | 97.9 | 49.6 | 20.6 | 0.7 |
| 50° | 589.3 | 570.8 | 491.4 | 390.0 | 276.6 | 165.9 | 90.8 | 48.9 | 22.0 | 5.0 | 0.7 |
| 52.5° | 309.2 | 286.5 | 236.1 | 180.1 | 112.0 | 69.5 | 39.7 | 21.3 | 6.4 | 0.7 | 0.7 |
| 55° | 45.4 | 41.8 | 34.0 | 27.7 | 24.8 | 19.1 | 11.3 | 5.0 | 0.7 | 0.7 | 1.4 |
| 57.5° | 1.4 | 1.4 | 1.4 | 1.4 | 2.1 | 2.1 | 1.4 | 0.7 | 0.7 | 0.7 | 1.4 |
| 60° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 62.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 65° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 67.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 70° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1 |
| 72.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 75° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1 |
| 77.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 80° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 1.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 1.4 |
| 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° | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 |
| 2.5° | 97.9 | 72.3 | 56.0 | 48.2 | 47.5 |
| 5° | 88.6 | 51.8 | 34.0 | 26.2 | 24.8 |
| 7.5° | 75.2 | 36.2 | 19.9 | 14.2 | 13.5 |
| 10° | 61.7 | 24.8 | 12.1 | 9.9 | 9.2 |
| 12.5° | 48.9 | 16.3 | 8.5 | 7.8 | 7.1 |
| 15° | 37.6 | 10.6 | 6.4 | 5.7 | 5.7 |
| 17.5° | 28.4 | 7.1 | 5.0 | 5.0 | 5.0 |
| 20° | 21.3 | 5.0 | 3.5 | 4.3 | 4.3 |
| 22.5° | 14.9 | 3.5 | 2.8 | 3.5 | 3.5 |
| 25° | 10.6 | 2.8 | 2.8 | 3.5 | 3.5 |
| 27.5° | 7.1 | 2.1 | 2.1 | 2.8 | 3.5 |
| 30° | 4.3 | 1.4 | 2.1 | 2.8 | 3.5 |
| 32.5° | 2.1 | 1.4 | 2.1 | 3.5 | 3.5 |
| 35° | 1.4 | 2.1 | 2.8 | 3.5 | 4.3 |
| 37.5° | 0.7 | 2.1 | 2.8 | 4.3 | 4.3 |
| 40° | 0.7 | 2.1 | 2.8 | 4.3 | 5.0 |
| 42.5° | 1.4 | 2.8 | 3.5 | 5.0 | 5.7 |
| 45° | 1.4 | 2.8 | 4.3 | 5.7 | 6.4 |
| 47.5° | 1.4 | 2.8 | 5.0 | 6.4 | 6.4 |
| 50° | 2.1 | 3.5 | 5.0 | 6.4 | 7.1 |
| 52.5° | 2.1 | 3.5 | 5.0 | 7.1 | 7.8 |
| 55° | 2.1 | 3.5 | 5.7 | 7.1 | 7.8 |
| 57.5° | 2.1 | 4.3 | 5.7 | 7.1 | 7.8 |
| 60° | 2.1 | 3.5 | 5.7 | 7.1 | 7.8 |
| 62.5° | 2.8 | 3.5 | 5.0 | 7.1 | 7.1 |
| 65° | 2.8 | 3.5 | 5.0 | 7.1 | 7.1 |
| 67.5° | 2.8 | 3.5 | 5.0 | 6.4 | 6.4 |
| 70° | 2.8 | 3.5 | 4.3 | 5.7 | 5.7 |
| 72.5° | 2.8 | 3.5 | 4.3 | 5.0 | 5.7 |
| 75° | 2.1 | 2.8 | 3.5 | 4.3 | 5.0 |
| 77.5° | 2.1 | 2.8 | 2.8 | 4.3 | 4.3 |
| 80° | 2.1 | 2.1 | 2.1 | 2.8 | 2.8 |
| 82.5° | 2.1 | 2.1 | 1.4 | 2.1 | 2.1 |
| 85° | 2.1 | 1.4 | 1.4 | 1.4 | 1.4 |
| 87.5° | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)