

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: P1320282

Luminaire Tested: LDSQA3D17R409840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320282
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: LDSQA3D17R409840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

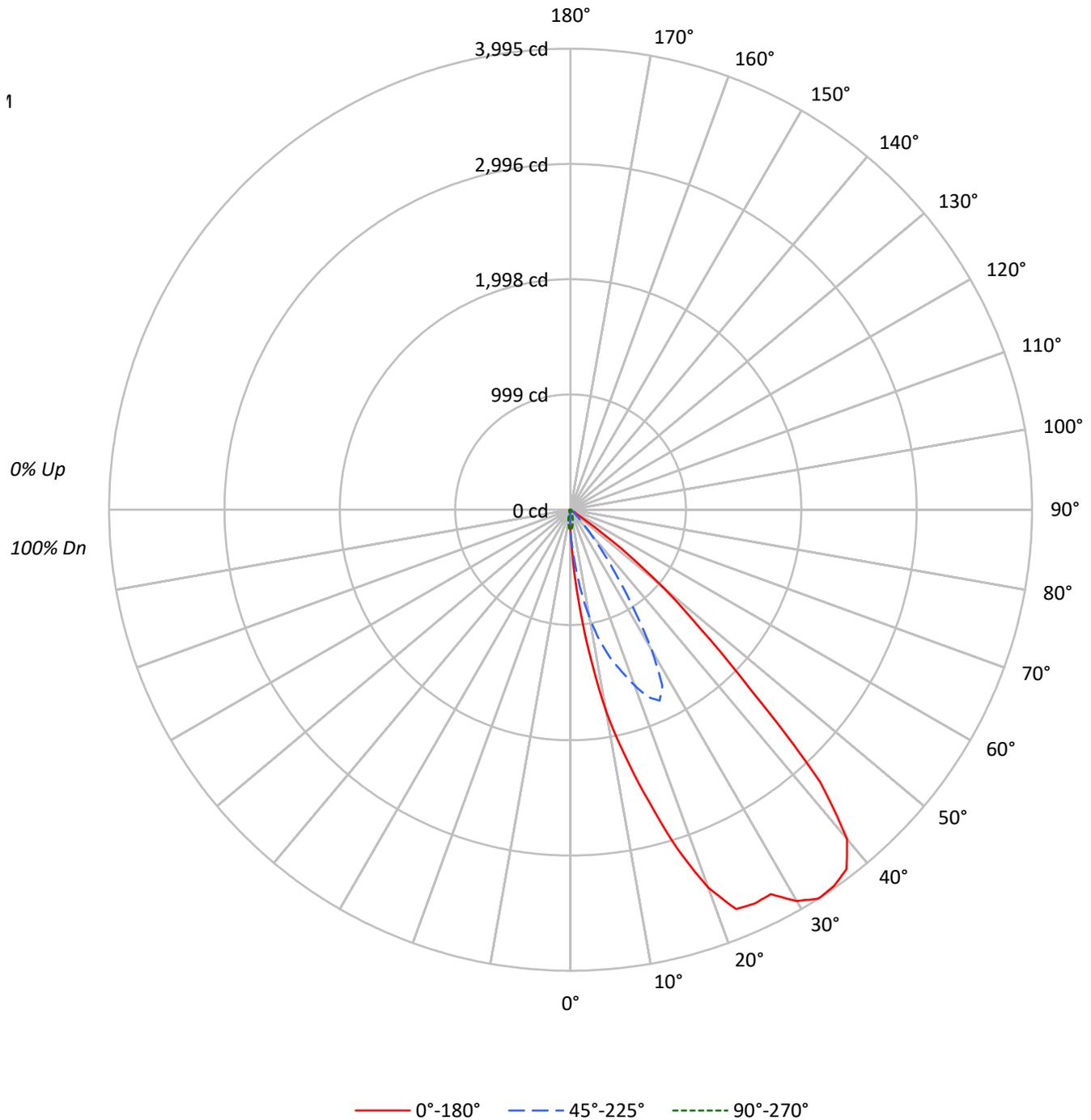
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1473.9 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1320282

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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 96 | 94 | 91 |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 89 | 86 | 82 |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 82 | 79 | 74 |
| 4 | 92 | 83 | 77 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 76 | 72 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 70 | 65 | 60 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 64 | 60 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 51 | 59 | 54 | 49 |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 55 | 50 | 44 |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 40 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 42 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 30036 | 30036 | 30036 | 30036 | 30036 |
| 5° | 135469 | 86371 | 26917 | 10338 | 7538 |
| 10° | 310673 | 166887 | 18957 | 3707 | 2833 |
| 15° | 466231 | 236780 | 11768 | 1997 | 1783 |
| 20° | 638404 | 296815 | 6855 | 1136 | 1375 |
| 25° | 715640 | 346818 | 3553 | 950 | 1178 |
| 30° | 778420 | 279963 | 1491 | 736 | 1233 |
| 35° | 836586 | 143282 | 526 | 1051 | 1577 |
| 40° | 836873 | 57127 | 270 | 1124 | 1956 |
| 45° | 534345 | 19119 | 609 | 1827 | 2728 |
| 50° | 277389 | 2331 | 991 | 2331 | 3349 |
| 55° | 23931 | 360 | 1111 | 3003 | 4114 |
| 60° | 861 | 413 | 1274 | 3444 | 4719 |
| 65° | 1019 | 489 | 2038 | 3545 | 5094 |
| 70° | 604 | 604 | 2518 | 3777 | 5035 |
| 75° | 799 | 799 | 2462 | 4126 | 5789 |
| 80° | 1190 | 1190 | 3670 | 3670 | 4959 |
| 85° | 0 | 2371 | 7311 | 4940 | 4940 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 534345 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 34.0 | 2.3 |
| 10°-20° | 199.5 | 13.5 |
| 20°-30° | 436.9 | 29.6 |
| 30°-40° | 497.8 | 33.8 |
| 40°-50° | 262.6 | 17.8 |
| 50°-60° | 31.0 | 2.1 |
| 60°-70° | 5.6 | 0.4 |
| 70°-80° | 4.6 | 0.3 |
| 80°-90° | 2.1 | 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° | 670.4 | 45.5 |
| 0°-40° | 1168.2 | 79.3 |
| 0°-60° | 1461.8 | 99.2 |
| 0°-90° | 1473.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1473.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 174 | 174 | 174 | 174 | 174 | |
| 5° | 784 | 500 | 156 | 60 | 44 | 106 |
| 15° | 2615 | 1328 | 66 | 11 | 10 | 770 |
| 25° | 3766 | 1825 | 19 | 5 | 6 | 1735 |
| 35° | 3979 | 682 | 2 | 5 | 8 | 2466 |
| 45° | 2194 | 78 | 2 | 8 | 11 | 1769 |
| 55° | 80 | 1 | 4 | 10 | 14 | 248 |
| 65° | 2 | 1 | 5 | 9 | 12 | 2 |
| 75° | 1 | 1 | 4 | 6 | 9 | 1 |
| 85° | 0 | 1 | 4 | 2 | 2 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1320282

CATALOG NUMBER: LDSQA3D17R409840DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 |
| 2.5° | 388.7 | 388.7 | 387.4 | 376.2 | 375.0 | 373.7 | 353.8 | 348.8 | 325.2 | 309.0 | 235.5 |
| 5° | 783.6 | 766.2 | 764.9 | 745.0 | 711.4 | 666.5 | 637.8 | 591.8 | 546.9 | 499.6 | 290.3 |
| 7.5° | 1248.3 | 1263.2 | 1222.1 | 1200.9 | 1126.2 | 1072.6 | 990.4 | 918.2 | 817.2 | 722.6 | 335.1 |
| 10° | 1776.5 | 1750.3 | 1709.2 | 1668.1 | 1587.1 | 1491.2 | 1369.1 | 1240.8 | 1095.1 | 954.3 | 360.0 |
| 12.5° | 2188.9 | 2155.2 | 2130.3 | 2074.3 | 1994.5 | 1871.2 | 1725.4 | 1553.5 | 1360.4 | 1157.3 | 358.8 |
| 15° | 2614.9 | 2581.3 | 2525.2 | 2475.4 | 2357.1 | 2218.8 | 2060.6 | 1833.8 | 1597.1 | 1328.0 | 332.6 |
| 17.5° | 3083.4 | 3039.7 | 2977.5 | 2901.5 | 2786.9 | 2633.6 | 2433.0 | 2156.5 | 1821.4 | 1467.6 | 285.3 |
| 20° | 3483.3 | 3457.1 | 3394.8 | 3305.1 | 3193.0 | 3043.5 | 2811.8 | 2505.3 | 2096.7 | 1619.5 | 226.7 |
| 22.5° | 3744.9 | 3721.2 | 3678.8 | 3600.4 | 3515.6 | 3356.2 | 3144.4 | 2808.0 | 2327.2 | 1757.8 | 171.9 |
| 25° | 3766.0 | 3756.1 | 3744.9 | 3718.7 | 3667.6 | 3554.3 | 3347.5 | 2984.9 | 2470.4 | 1825.1 | 127.1 |
| 27.5° | 3754.8 | 3751.1 | 3748.6 | 3734.9 | 3701.3 | 3589.1 | 3377.4 | 3011.1 | 2451.7 | 1720.4 | 93.4 |
| 30° | 3914.3 | 3903.1 | 3896.9 | 3852.0 | 3763.6 | 3590.4 | 3313.8 | 2870.3 | 2178.9 | 1407.8 | 67.3 |
| 32.5° | 3995.3 | 3992.8 | 3986.6 | 3943.0 | 3818.4 | 3592.9 | 3206.7 | 2530.2 | 1727.9 | 1016.6 | 46.1 |
| 35° | 3979.1 | 3966.6 | 3944.2 | 3863.2 | 3690.1 | 3407.3 | 2860.4 | 2020.7 | 1247.0 | 681.5 | 29.9 |
| 37.5° | 3924.3 | 3895.6 | 3852.0 | 3706.3 | 3475.8 | 3089.6 | 2319.7 | 1487.5 | 848.4 | 441.0 | 17.4 |
| 40° | 3722.4 | 3683.8 | 3615.3 | 3437.2 | 3134.4 | 2546.4 | 1715.5 | 1005.4 | 556.9 | 254.1 | 5.0 |
| 42.5° | 3200.5 | 3150.6 | 3100.8 | 2901.5 | 2555.1 | 1898.6 | 1128.7 | 621.7 | 317.7 | 139.5 | 1.2 |
| 45° | 2193.9 | 2131.6 | 2063.0 | 1918.5 | 1640.7 | 1149.9 | 671.5 | 350.1 | 164.4 | 78.5 | 1.2 |
| 47.5° | 1523.6 | 1495.0 | 1375.4 | 1191.0 | 913.2 | 609.2 | 347.6 | 171.9 | 87.2 | 36.1 | 1.2 |
| 50° | 1035.3 | 1002.9 | 863.3 | 685.2 | 485.9 | 291.5 | 159.5 | 86.0 | 38.6 | 8.7 | 1.2 |
| 52.5° | 543.2 | 503.3 | 414.9 | 316.4 | 196.8 | 122.1 | 69.8 | 37.4 | 11.2 | 1.2 | 1.2 |
| 55° | 79.7 | 73.5 | 59.8 | 48.6 | 43.6 | 33.6 | 19.9 | 8.7 | 1.2 | 1.2 | 2.5 |
| 57.5° | 2.5 | 2.5 | 2.5 | 2.5 | 3.7 | 3.7 | 2.5 | 1.2 | 1.2 | 1.2 | 2.5 |
| 60° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 |
| 62.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 |
| 65° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 |
| 67.5° | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7 |
| 70° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7 |
| 72.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7 |
| 77.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 2.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 2.5 |
| 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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CATALOG NUMBER: LDSQA3D17R409840DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|--------|-------|--------|-------|
| 0° | 174.4 | 174.4 | 174.4 | 174.4 | 174.4 |
| 2.5° | 171.9 | 127.1 | 98.4 | 84.7 | 83.5 |
| 5° | 155.7 | 90.9 | 59.8 | 46.1 | 43.6 |
| 7.5° | 132.1 | 63.5 | 34.9 | 24.9 | 23.7 |
| 10° | 108.4 | 43.6 | 21.2 | 17.4 | 16.2 |
| 12.5° | 86.0 | 28.7 | 14.9 | 13.7 | 12.5 |
| 15° | 66.0 | 18.7 | 11.2 | 10.0 | 10.0 |
| 17.5° | 49.8 | 12.5 | 8.7 | 8.7 | 8.7 |
| 20° | 37.4 | 8.7 | 6.2 | 7.5 | 7.5 |
| 22.5° | 26.2 | 6.2 | 5.0 | 6.2 | 6.2 |
| 25° | 18.7 | 5.0 | 5.0 | 6.2 | 6.2 |
| 27.5° | 12.5 | 3.7 | 3.7 | 5.0 | 6.2 |
| 30° | 7.5 | 2.5 | 3.7 | 5.0 | 6.2 |
| 32.5° | 3.7 | 2.5 | 3.7 | 6.2 | 6.2 |
| 35° | 2.5 | 3.7 | 5.0 | 6.2 | 7.5 |
| 37.5° | 1.2 | 3.7 | 5.0 | 7.5 | 7.5 |
| 40° | 1.2 | 3.7 | 5.0 | 7.5 | 8.7 |
| 42.5° | 2.5 | 5.0 | 6.2 | 8.7 | 10.0 |
| 45° | 2.5 | 5.0 | 7.5 | 10.0 | 11.2 |
| 47.5° | 2.5 | 5.0 | 8.7 | 11.2 | 11.2 |
| 50° | 3.7 | 6.2 | 8.7 | 11.2 | 12.5 |
| 52.5° | 3.7 | 6.2 | 8.7 | 12.5 | 13.7 |
| 55° | 3.7 | 6.2 | 10.0 | 12.5 | 13.7 |
| 57.5° | 3.7 | 7.5 | 10.0 | 12.5 | 13.7 |
| 60° | 3.7 | 6.2 | 10.0 | 12.5 | 13.7 |
| 62.5° | 5.0 | 6.2 | 8.7 | 12.5 | 12.5 |
| 65° | 5.0 | 6.2 | 8.7 | 12.5 | 12.5 |
| 67.5° | 5.0 | 6.2 | 8.7 | 11.2 | 11.2 |
| 70° | 5.0 | 6.2 | 7.5 | 10.0 | 10.0 |
| 72.5° | 5.0 | 6.2 | 7.5 | 8.7 | 10.0 |
| 75° | 3.7 | 5.0 | 6.2 | 7.5 | 8.7 |
| 77.5° | 3.7 | 5.0 | 5.0 | 7.5 | 7.5 |
| 80° | 3.7 | 3.7 | 3.7 | 5.0 | 5.0 |
| 82.5° | 3.7 | 3.7 | 2.5 | 3.7 | 3.7 |
| 85° | 3.7 | 2.5 | 2.5 | 2.5 | 2.5 |
| 87.5° | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)