

**TABLE 1** INPUT VOLTAGE VERSUS OUTPUT WORD

Input analog voltage (V)			Output binary word	
Raw range	Normalized range	Average normalized range	Raw	Normalized
0 to 0.189	0 to 0.2855	0.1427	0	0
0.189 to 0.265	0.2855 to 0.4003	0.3429	1000	0.5333
0.265 to 0.378	0.4003 to 0.571	0.4856	1100	0.8
0.378 to 0.662	0.571 to 1	0.7855	1110	0.933
More than 0.662	1	1	1111	1