

8-Bit Floating Point — All Values

1 111 1111 :	-480	=	-15/8 × 2^8	1 111 0111 :	-1.875	=	-15/8 × 2^0	0 000 0000 :	0	=	0/8 × 2^-6	*	0 000 1000 :	2	=	8/8 × 2^1
1 110 1111 :	-448	=	-14/8 × 2^8	1 110 0111 :	-1.75	=	-14/8 × 2^0	0 001 0000 :	0.001953125	=	1/8 × 2^-6	*	0 001 1000 :	2.25	=	9/8 × 2^1
1 101 1111 :	-416	=	-13/8 × 2^8	1 101 0111 :	-1.625	=	-13/8 × 2^0	0 010 0000 :	0.00390625	=	2/8 × 2^-6	*	0 010 1000 :	2.5	=	10/8 × 2^1
1 100 1111 :	-384	=	-12/8 × 2^8	1 100 0111 :	-1.5	=	-12/8 × 2^0	0 011 0000 :	0.005859375	=	3/8 × 2^-6	*	0 011 1000 :	2.75	=	11/8 × 2^1
1 011 1111 :	-352	=	-11/8 × 2^8	1 011 0111 :	-1.375	=	-11/8 × 2^0	0 100 0000 :	0.0078125	=	4/8 × 2^-6	*	0 100 1000 :	3	=	12/8 × 2^1
1 010 1111 :	-320	=	-10/8 × 2^8	1 010 0111 :	-1.25	=	-10/8 × 2^0	0 101 0000 :	0.009765625	=	5/8 × 2^-6	*	0 101 1000 :	3.25	=	13/8 × 2^1
1 001 1111 :	-288	=	-9/8 × 2^8	1 001 0111 :	-1.125	=	-9/8 × 2^0	0 110 0000 :	0.01171875	=	6/8 × 2^-6	*	0 110 1000 :	3.5	=	14/8 × 2^1
1 000 1111 :	-256	=	-8/8 × 2^8	1 000 0111 :	-1	=	-8/8 × 2^0	0 111 0000 :	0.013671875	=	7/8 × 2^-6	*	0 111 1000 :	3.75	=	15/8 × 2^1
1 111 1110 :	-240	=	-15/8 × 2^7	1 111 0110 :	-0.9375	=	-15/8 × 2^-1	0 000 0001 :	0.015625	=	8/8 × 2^-6		0 000 1001 :	4	=	8/8 × 2^2
1 110 1110 :	-224	=	-14/8 × 2^7	1 110 0110 :	-0.875	=	-14/8 × 2^-1	0 001 0001 :	0.017578125	=	9/8 × 2^-6		0 001 1001 :	4.5	=	9/8 × 2^2
1 101 1110 :	-208	=	-13/8 × 2^7	1 101 0110 :	-0.8125	=	-13/8 × 2^-1	0 010 0001 :	0.01953125	=	10/8 × 2^-6		0 010 1001 :	5	=	10/8 × 2^2
1 100 1110 :	-192	=	-12/8 × 2^7	1 100 0110 :	-0.75	=	-12/8 × 2^-1	0 011 0001 :	0.021484375	=	11/8 × 2^-6		0 011 1001 :	5.5	=	11/8 × 2^2
1 011 1110 :	-176	=	-11/8 × 2^7	1 011 0110 :	-0.6875	=	-11/8 × 2^-1	0 100 0001 :	0.0234375	=	12/8 × 2^-6		0 100 1001 :	6	=	12/8 × 2^2
1 010 1110 :	-160	=	-10/8 × 2^7	1 010 0110 :	-0.625	=	-10/8 × 2^-1	0 101 0001 :	0.025390625	=	13/8 × 2^-6		0 101 1001 :	6.5	=	13/8 × 2^2
1 001 1110 :	-144	=	-9/8 × 2^7	1 001 0110 :	-0.5625	=	-9/8 × 2^-1	0 110 0001 :	0.02734375	=	14/8 × 2^-6		0 110 1001 :	7	=	14/8 × 2^2
1 000 1110 :	-128	=	-8/8 × 2^7	1 000 0110 :	-0.5	=	-8/8 × 2^-1	0 111 0001 :	0.029296875	=	15/8 × 2^-6		0 111 1001 :	7.5	=	15/8 × 2^2
1 111 1101 :	-120	=	-15/8 × 2^6	1 111 0101 :	-0.46875	=	-15/8 × 2^-2	0 000 0010 :	0.03125	=	8/8 × 2^-5		0 000 1010 :	8	=	8/8 × 2^3
1 110 1101 :	-112	=	-14/8 × 2^6	1 110 0101 :	-0.4375	=	-14/8 × 2^-2	0 001 0010 :	0.03515625	=	9/8 × 2^-5		0 001 1010 :	9	=	9/8 × 2^3
1 101 1101 :	-104	=	-13/8 × 2^6	1 101 0101 :	-0.40625	=	-13/8 × 2^-2	0 010 0010 :	0.0390625	=	10/8 × 2^-5		0 010 1010 :	10	=	10/8 × 2^3
1 100 1101 :	-96	=	-12/8 × 2^6	1 100 0101 :	-0.375	=	-12/8 × 2^-2	0 011 0010 :	0.04296875	=	11/8 × 2^-5		0 011 1010 :	11	=	11/8 × 2^3
1 011 1101 :	-88	=	-11/8 × 2^6	1 011 0101 :	-0.34375	=	-11/8 × 2^-2	0 100 0010 :	0.046875	=	12/8 × 2^-5		0 100 1010 :	12	=	12/8 × 2^3
1 010 1101 :	-80	=	-10/8 × 2^6	1 010 0101 :	-0.3125	=	-10/8 × 2^-2	0 101 0010 :	0.05078125	=	13/8 × 2^-5		0 101 1010 :	13	=	13/8 × 2^3
1 001 1101 :	-72	=	-9/8 × 2^6	1 001 0101 :	-0.28125	=	-9/8 × 2^-2	0 110 0010 :	0.0546875	=	14/8 × 2^-5		0 110 1010 :	14	=	14/8 × 2^3
1 000 1101 :	-64	=	-8/8 × 2^6	1 000 0101 :	-0.25	=	-8/8 × 2^-2	0 111 0010 :	0.05859375	=	15/8 × 2^-5		0 111 1010 :	15	=	15/8 × 2^3
1 111 1100 :	-60	=	-15/8 × 2^5	1 111 0100 :	-0.234375	=	-15/8 × 2^-3	0 000 0011 :	0.0625	=	8/8 × 2^-4		0 000 1011 :	16	=	8/8 × 2^4
1 110 1100 :	-56	=	-14/8 × 2^5	1 110 0100 :	-0.21875	=	-14/8 × 2^-3	0 001 0011 :	0.0703125	=	9/8 × 2^-4		0 001 1011 :	18	=	9/8 × 2^4
1 101 1100 :	-52	=	-13/8 × 2^5	1 101 0100 :	-0.203125	=	-13/8 × 2^-3	0 010 0011 :	0.078125	=	10/8 × 2^-4		0 010 1011 :	20	=	10/8 × 2^4
1 100 1100 :	-48	=	-12/8 × 2^5	1 100 0100 :	-0.1875	=	-12/8 × 2^-3	0 011 0011 :	0.0859375	=	11/8 × 2^-4		0 011 1011 :	22	=	11/8 × 2^4
1 011 1100 :	-44	=	-11/8 × 2^5	1 011 0100 :	-0.171875	=	-11/8 × 2^-3	0 100 0011 :	0.09375	=	12/8 × 2^-4		0 100 1011 :	24	=	12/8 × 2^4
1 010 1100 :	-40	=	-10/8 × 2^5	1 010 0100 :	-0.15625	=	-10/8 × 2^-3	0 101 0011 :	0.1015625	=	13/8 × 2^-4		0 101 1011 :	26	=	13/8 × 2^4
1 001 1100 :	-36	=	-9/8 × 2^5	1 001 0100 :	-0.140625	=	-9/8 × 2^-3	0 110 0011 :	0.109375	=	14/8 × 2^-4		0 110 1011 :	28	=	14/8 × 2^4
1 000 1100 :	-32	=	-8/8 × 2^5	1 000 0100 :	-0.125	=	-8/8 × 2^-3	0 111 0011 :	0.1171875	=	15/8 × 2^-4		0 111 1011 :	30	=	15/8 × 2^4
1 111 1011 :	-30	=	-15/8 × 2^4	1 111 0011 :	-0.1171875	=	-15/8 × 2^-4	0 000 0100 :	0.125	=	8/8 × 2^-3		0 000 1100 :	32	=	8/8 × 2^5
1 110 1011 :	-28	=	-14/8 × 2^4	1 110 0011 :	-0.109375	=	-14/8 × 2^-4	0 001 0100 :	0.140625	=	9/8 × 2^-3		0 001 1100 :	36	=	9/8 × 2^5
1 101 1011 :	-26	=	-13/8 × 2^4	1 101 0011 :	-0.1015625	=	-13/8 × 2^-4	0 010 0100 :	0.15625	=	10/8 × 2^-3		0 010 1100 :	40	=	10/8 × 2^5
1 100 1011 :	-24	=	-12/8 × 2^4	1 100 0011 :	-0.09375	=	-12/8 × 2^-4	0 011 0100 :	0.171875	=	11/8 × 2^-3		0 011 1100 :	44	=	11/8 × 2^5
1 011 1011 :	-22	=	-11/8 × 2^4	1 011 0011 :	-0.0859375	=	-11/8 × 2^-4	0 100 0100 :	0.1875	=	12/8 × 2^-3		0 100 1100 :	48	=	12/8 × 2^5
1 010 1011 :	-20	=	-10/8 × 2^4	1 010 0011 :	-0.078125	=	-10/8 × 2^-4	0 101 0100 :	0.203125	=	13/8 × 2^-3		0 101 1100 :	52	=	13/8 × 2^5
1 001 1011 :	-18	=	-9/8 × 2^4	1 001 0011 :	-0.0703125	=	-9/8 × 2^-4	0 110 0100 :	0.21875	=	14/8 × 2^-3		0 110 1100 :	56	=	14/8 × 2^5
1 000 1011 :	-16	=	-8/8 × 2^4	1 000 0011 :	-0.0625	=	-8/8 × 2^-4	0 111 0100 :	0.234375	=	15/8 × 2^-3		0 111 1100 :	60	=	15/8 × 2^5
1 111 1010 :	-15	=	-15/8 × 2^3	1 111 0010 :	-0.05859375	=	-15/8 × 2^-5	0 000 0101 :	0.25	=	8/8 × 2^-2		0 000 1101 :	64	=	8/8 × 2^6
1 110 1010 :	-14	=	-14/8 × 2^3	1 110 0010 :	-0.0546875	=	-14/8 × 2^-5	0 001 0101 :	0.28125	=	9/8 × 2^-2		0 001 1101 :	72	=	9/8 × 2^6
1 101 1010 :	-13	=	-13/8 × 2^3	1 101 0010 :	-0.05078125	=	-13/8 × 2^-5	0 010 0101 :	0.3125	=	10/8 × 2^-2		0 010 1101 :	80	=	10/8 × 2^6
1 100 1010 :	-12	=	-12/8 × 2^3	1 100 0010 :	-0.046875	=	-12/8 × 2^-5	0 011 0101 :	0.34375	=	11/8 × 2^-2		0 011 1101 :	88	=	11/8 × 2^6
1 011 1010 :	-11	=	-11/8 × 2^3	1 011 0010 :	-0.04296875	=	-11/8 × 2^-5	0 100 0101 :	0.375	=	12/8 × 2^-2		0 100 1101 :	96	=	12/8 × 2^6
1 010 1010 :	-10	=	-10/8 × 2^3	1 010 0010 :	-0.0390625	=	-10/8 × 2^-5	0 101 0101 :	0.40625	=	13/8 × 2^-2		0 101 1101 :	104	=	13/8 × 2^6
1 001 1010 :	-9	=	-9/8 × 2^3	1 001 0010 :	-0.03515625	=	-9/8 × 2^-5	0 110 0101 :	0.4375	=	14/8 × 2^-2		0 110 1101 :	112	=	14/8 × 2^6
1 000 1010 :	-8	=	-8/8 × 2^3	1 000 0010 :	-0.03125	=	-8/8 × 2^-5	0 111 0101 :	0.46875	=	15/8 × 2^-2		0 111 1101 :	120	=	15/8 × 2^6
1 111 1001 :	-7.5	=	-15/8 × 2^2	1 111 0001 :	-0.029296875	=	-15/8 × 2^-6	0 000 0110 :	0.5	=	8/8 × 2^-1		0 000 1110 :	128	=	8/8 × 2^7
1 110 1001 :	-7	=	-14/8 × 2^2	1 110 0001 :	-0.02734375	=	-14/8 × 2^-6	0 001 0110 :	0.5625	=	9/8 × 2^-1		0 001 1110 :	144	=	9/8 × 2^7
1 101 1001 :	-6.5	=	-13/8 × 2^2	1 101 0001 :	-0.025390625	=	-13/8 × 2^-6	0 010 0110 :	0.625	=	10/8 × 2^-1		0 010 1110 :	160	=	10/8 × 2^7
1 100 1001 :	-6	=	-12/8 × 2^2	1 100 0001 :	-0.0234375	=	-12/8 × 2^-6	0 011 0110 :	0.6875	=	11/8 × 2^-1		0 011 1110 :	176	=	11/8 × 2^7
1 011 1001 :	-5.5	=	-11/8 × 2^2	1 011 0001 :	-0.021484375	=	-11/8 × 2^-6	0 100 0110 :	0.75	=	12/8 × 2^-1		0 100 1110 :	192	=	12/8 × 2^7
1 010 1001 :	-5	=	-10/8 × 2^2	1 010 0001 :	-0.01953125	=	-10/8 × 2^-6	0 101 0110 :	0.8125	=	13/8 × 2^-1		0 101 1110 :	208	=	13/8 × 2^7
1 001 1001 :	-4.5	=	-9/8 × 2^2	1 001 0001 :	-0.017578125	=	-9/8 × 2^-6	0 110 0110 :	0.875	=	14/8 × 2^-1		0 110 1110 :	224	=	14/8 × 2^7
1 000 1001 :	-4	=	-8/8 × 2^2	1 000 0001 :	-0.015625	=	-8/8 × 2^-6	0 111 0110 :	0.9375	=	15/8 × 2^-1		0 111 1110 :	240	=	15/8 × 2^7
1 111 1000 :	-3.75	=	-15/8 × 2^1	1 111 0000 :	-0.013671875	=	-7/8 × 2^-6	0 000 0111 :	1	=	8/8 × 2^0		0 000 1111 :	256	=	8/8 × 2^8
1 110 1000 :	-3.5	=	-14/8 × 2^1	1 110 0000 :	-0.01171875	=	-6/8 × 2^-6	0 001 0111 :	1.125	=	9/8 × 2^0		0 001 1111 :	288	=	9/8 × 2^8
1 101 1000 :	-3.25	=	-13/8 × 2^1	1 101 0000 :	-0.009765625	=	-5/8 × 2^-6	0 010 0111 :	1.25	=	10/8 × 2^0		0 010 1111 :	320	=	10/8 × 2^8
1 100 1000 :	-3	=	-12/8 × 2^1	1 100 0000 :	-0.0078125	=	-4/8 × 2^-6	0 011 0111 :	1.375	=	11/8 × 2^0		0 011 1111 :	352	=	11/8 × 2^8
1 011 1000 :	-2.75	=	-11/8 × 2^1	1 011 0000 :	-0.005859375	=	-3/8 × 2^-6	0 100 0111 :	1.5	=	12/8 × 2^0		0 100 1111 :	384	=	12/8 × 2^8
1 010 1000 :	-2.5	=	-10/8 × 2^1	1 010 0000 :	-0.00390625	=	-2/8 × 2^-6	0 101 0111 :	1.625	=	13/8 × 2^0		0 101 1111 :	416	=	13/8 × 2^8
1 001 1000 :	-2.25	=	-9/8 × 2^1	1 001 0000 :	-0.001953125	=	-1/8 × 2^-6	0 110 0111 :	1.75	=	14/8 × 2^0		0 110 1111 :	448	=	14/8 × 2^8
1 000 1000 :	-2	=	-8/8 × 2^1	1 000 0000 :	-0	=	-0/8 × 2^-6	0 111 0111 :	1.875	=	15/8 × 2^0		0 111 1111 :	480	=	15/8 × 2^8

8-Bit Fixed Point — All Values

1000.0000	:	-8 + 0/16	=	-8.0000	1100.0000	:	-4 + 0/16	=	-4.0000	0000.0000	:	0 + 0/16	=	0.0000	0100.0000	:	4 + 0/16	=	4.0000
1000.0001	:	-8 + 1/16	=	-7.9375	1100.0001	:	-4 + 1/16	=	-3.9375	0000.0001	:	0 + 1/16	=	0.0625	0100.0001	:	4 + 1/16	=	4.0625
1000.0010	:	-8 + 2/16	=	-7.8750	1100.0010	:	-4 + 2/16	=	-3.8750	0000.0010	:	0 + 2/16	=	0.1250	0100.0010	:	4 + 2/16	=	4.1250
1000.0011	:	-8 + 3/16	=	-7.8125	1100.0011	:	-4 + 3/16	=	-3.8125	0000.0011	:	0 + 3/16	=	0.1875	0100.0011	:	4 + 3/16	=	4.1875
1000.0100	:	-8 + 4/16	=	-7.7500	1100.0100	:	-4 + 4/16	=	-3.7500	0000.0100	:	0 + 4/16	=	0.2500	0100.0100	:	4 + 4/16	=	4.2500
1000.0101	:	-8 + 5/16	=	-7.6875	1100.0101	:	-4 + 5/16	=	-3.6875	0000.0101	:	0 + 5/16	=	0.3125	0100.0101	:	4 + 5/16	=	4.3125
1000.0110	:	-8 + 6/16	=	-7.6250	1100.0110	:	-4 + 6/16	=	-3.6250	0000.0110	:	0 + 6/16	=	0.3750	0100.0110	:	4 + 6/16	=	4.3750
1000.0111	:	-8 + 7/16	=	-7.5625	1100.0111	:	-4 + 7/16	=	-3.5625	0000.0111	:	0 + 7/16	=	0.4375	0100.0111	:	4 + 7/16	=	4.4375
1000.1000	:	-8 + 8/16	=	-7.5000	1100.1000	:	-4 + 8/16	=	-3.5000	0000.1000	:	0 + 8/16	=	0.5000	0100.1000	:	4 + 8/16	=	4.5000
1000.1001	:	-8 + 9/16	=	-7.4375	1100.1001	:	-4 + 9/16	=	-3.4375	0000.1001	:	0 + 9/16	=	0.5625	0100.1001	:	4 + 9/16	=	4.5625
1000.1010	:	-8 + 10/16	=	-7.3750	1100.1010	:	-4 + 10/16	=	-3.3750	0000.1010	:	0 + 10/16	=	0.6250	0100.1010	:	4 + 10/16	=	4.6250
1000.1011	:	-8 + 11/16	=	-7.3125	1100.1011	:	-4 + 11/16	=	-3.3125	0000.1011	:	0 + 11/16	=	0.6875	0100.1011	:	4 + 11/16	=	4.6875
1000.1100	:	-8 + 12/16	=	-7.2500	1100.1100	:	-4 + 12/16	=	-3.2500	0000.1100	:	0 + 12/16	=	0.7500	0100.1100	:	4 + 12/16	=	4.7500
1000.1101	:	-8 + 13/16	=	-7.1875	1100.1101	:	-4 + 13/16	=	-3.1875	0000.1101	:	0 + 13/16	=	0.8125	0100.1101	:	4 + 13/16	=	4.8125
1000.1110	:	-8 + 14/16	=	-7.1250	1100.1110	:	-4 + 14/16	=	-3.1250	0000.1110	:	0 + 14/16	=	0.8750	0100.1110	:	4 + 14/16	=	4.8750
1000.1111	:	-8 + 15/16	=	-7.0625	1100.1111	:	-4 + 15/16	=	-3.0625	0000.1111	:	0 + 15/16	=	0.9375	0100.1111	:	4 + 15/16	=	4.9375
1001.0000	:	-7 + 0/16	=	-7.0000	1010.0000	:	-3 + 0/16	=	-3.0000	0001.0000	:	1 + 0/16	=	1.0000	0101.0000	:	5 + 0/16	=	5.0000
1001.0001	:	-7 + 1/16	=	-6.9375	1010.0001	:	-3 + 1/16	=	-2.9375	0001.0001	:	1 + 1/16	=	1.0625	0101.0001	:	5 + 1/16	=	5.0625
1001.0010	:	-7 + 2/16	=	-6.8750	1010.0010	:	-3 + 2/16	=	-2.8750	0001.0010	:	1 + 2/16	=	1.1250	0101.0010	:	5 + 2/16	=	5.1250
1001.0011	:	-7 + 3/16	=	-6.8125	1010.0011	:	-3 + 3/16	=	-2.8125	0001.0011	:	1 + 3/16	=	1.1875	0101.0011	:	5 + 3/16	=	5.1875
1001.0100	:	-7 + 4/16	=	-6.7500	1010.0100	:	-3 + 4/16	=	-2.7500	0001.0100	:	1 + 4/16	=	1.2500	0101.0100	:	5 + 4/16	=	5.2500
1001.0101	:	-7 + 5/16	=	-6.6875	1010.0101	:	-3 + 5/16	=	-2.6875	0001.0101	:	1 + 5/16	=	1.3125	0101.0101	:	5 + 5/16	=	5.3125
1001.0110	:	-7 + 6/16	=	-6.6250	1010.0110	:	-3 + 6/16	=	-2.6250	0001.0110	:	1 + 6/16	=	1.3750	0101.0110	:	5 + 6/16	=	5.3750
1001.0111	:	-7 + 7/16	=	-6.5625	1010.0111	:	-3 + 7/16	=	-2.5625	0001.0111	:	1 + 7/16	=	1.4375	0101.0111	:	5 + 7/16	=	5.4375
1001.1000	:	-7 + 8/16	=	-6.5000	1010.1000	:	-3 + 8/16	=	-2.5000	0001.1000	:	1 + 8/16	=	1.5000	0101.1000	:	5 + 8/16	=	5.5000
1001.1001	:	-7 + 9/16	=	-6.4375	1010.1001	:	-3 + 9/16	=	-2.4375	0001.1001	:	1 + 9/16	=	1.5625	0101.1001	:	5 + 9/16	=	5.5625
1001.1010	:	-7 + 10/16	=	-6.3750	1010.1010	:	-3 + 10/16	=	-2.3750	0001.1010	:	1 + 10/16	=	1.6250	0101.1010	:	5 + 10/16	=	5.6250
1001.1011	:	-7 + 11/16	=	-6.3125	1010.1011	:	-3 + 11/16	=	-2.3125	0001.1011	:	1 + 11/16	=	1.6875	0101.1011	:	5 + 11/16	=	5.6875
1001.1100	:	-7 + 12/16	=	-6.2500	1010.1100	:	-3 + 12/16	=	-2.2500	0001.1100	:	1 + 12/16	=	1.7500	0101.1100	:	5 + 12/16	=	5.7500
1001.1101	:	-7 + 13/16	=	-6.1875	1010.1101	:	-3 + 13/16	=	-2.1875	0001.1101	:	1 + 13/16	=	1.8125	0101.1101	:	5 + 13/16	=	5.8125
1001.1110	:	-7 + 14/16	=	-6.1250	1010.1110	:	-3 + 14/16	=	-2.1250	0001.1110	:	1 + 14/16	=	1.8750	0101.1110	:	5 + 14/16	=	5.8750
1001.1111	:	-7 + 15/16	=	-6.0625	1010.1111	:	-3 + 15/16	=	-2.0625	0001.1111	:	1 + 15/16	=	1.9375	0101.1111	:	5 + 15/16	=	5.9375
1010.0000	:	-6 + 0/16	=	-6.0000	1110.0000	:	-2 + 0/16	=	-2.0000	0010.0000	:	2 + 0/16	=	2.0000	0110.0000	:	6 + 0/16	=	6.0000
1010.0001	:	-6 + 1/16	=	-5.9375	1110.0001	:	-2 + 1/16	=	-1.9375	0010.0001	:	2 + 1/16	=	2.0625	0110.0001	:	6 + 1/16	=	6.0625
1010.0010	:	-6 + 2/16	=	-5.8750	1110.0010	:	-2 + 2/16	=	-1.8750	0010.0010	:	2 + 2/16	=	2.1250	0110.0010	:	6 + 2/16	=	6.1250
1010.0011	:	-6 + 3/16	=	-5.8125	1110.0011	:	-2 + 3/16	=	-1.8125	0010.0011	:	2 + 3/16	=	2.1875	0110.0011	:	6 + 3/16	=	6.1875
1010.0100	:	-6 + 4/16	=	-5.7500	1110.0100	:	-2 + 4/16	=	-1.7500	0010.0100	:	2 + 4/16	=	2.2500	0110.0100	:	6 + 4/16	=	6.2500
1010.0101	:	-6 + 5/16	=	-5.6875	1110.0101	:	-2 + 5/16	=	-1.6875	0010.0101	:	2 + 5/16	=	2.3125	0110.0101	:	6 + 5/16	=	6.3125
1010.0110	:	-6 + 6/16	=	-5.6250	1110.0110	:	-2 + 6/16	=	-1.6250	0010.0110	:	2 + 6/16	=	2.3750	0110.0110	:	6 + 6/16	=	6.3750
1010.0111	:	-6 + 7/16	=	-5.5625	1110.0111	:	-2 + 7/16	=	-1.5625	0010.0111	:	2 + 7/16	=	2.4375	0110.0111	:	6 + 7/16	=	6.4375
1010.1000	:	-6 + 8/16	=	-5.5000	1110.1000	:	-2 + 8/16	=	-1.5000	0010.1000	:	2 + 8/16	=	2.5000	0110.1000	:	6 + 8/16	=	6.5000
1010.1001	:	-6 + 9/16	=	-5.4375	1110.1001	:	-2 + 9/16	=	-1.4375	0010.1001	:	2 + 9/16	=	2.5625	0110.1001	:	6 + 9/16	=	6.5625
1010.1010	:	-6 + 10/16	=	-5.3750	1110.1010	:	-2 + 10/16	=	-1.3750	0010.1010	:	2 + 10/16	=	2.6250	0110.1010	:	6 + 10/16	=	6.6250
1010.1011	:	-6 + 11/16	=	-5.3125	1110.1011	:	-2 + 11/16	=	-1.3125	0010.1011	:	2 + 11/16	=	2.6875	0110.1011	:	6 + 11/16	=	6.6875
1010.1100	:	-6 + 12/16	=	-5.2500	1110.1100	:	-2 + 12/16	=	-1.2500	0010.1100	:	2 + 12/16	=	2.7500	0110.1100	:	6 + 12/16	=	6.7500
1010.1101	:	-6 + 13/16	=	-5.1875	1110.1101	:	-2 + 13/16	=	-1.1875	0010.1101	:	2 + 13/16	=	2.8125	0110.1101	:	6 + 13/16	=	6.8125
1010.1110	:	-6 + 14/16	=	-5.1250	1110.1110	:	-2 + 14/16	=	-1.1250	0010.1110	:	2 + 14/16	=	2.8750	0110.1110	:	6 + 14/16	=	6.8750
1010.1111	:	-6 + 15/16	=	-5.0625	1110.1111	:	-2 + 15/16	=	-1.0625	0010.1111	:	2 + 15/16	=	2.9375	0110.1111	:	6 + 15/16	=	6.9375
1011.0000	:	-5 + 0/16	=	-5.0000	1111.0000	:	-1 + 0/16	=	-1.0000	0011.0000	:	3 + 0/16	=	3.0000	0111.0000	:	7 + 0/16	=	7.0000
1011.0001	:	-5 + 1/16	=	-4.9375	1111.0001	:	-1 + 1/16	=	-0.9375	0011.0001	:	3 + 1/16	=	3.0625	0111.0001	:	7 + 1/16	=	7.0625
1011.0010	:	-5 + 2/16	=	-4.8750	1111.0010	:	-1 + 2/16	=	-0.8750	0011.0010	:	3 + 2/16	=	3.1250	0111.0010	:	7 + 2/16	=	7.1250
1011.0011	:	-5 + 3/16	=	-4.8125	1111.0011	:	-1 + 3/16	=	-0.8125	0011.0011	:	3 + 3/16	=	3.1875	0111.0011	:	7 + 3/16	=	7.1875
1011.0100	:	-5 + 4/16	=	-4.7500	1111.0100	:	-1 + 4/16	=	-0.7500	0011.0100	:	3 + 4/16	=	3.2500	0111.0100	:	7 + 4/16	=	7.2500
1011.0101	:	-5 + 5/16	=	-4.6875	1111.0101	:	-1 + 5/16	=	-0.6875	0011.0101	:	3 + 5/16	=	3.3125	0111.0101	:	7 + 5/16	=	7.3125
1011.0110	:	-5 + 6/16	=	-4.6250	1111.0110	:	-1 + 6/16	=	-0.6250	0011.0110	:	3 + 6/16	=	3.3750	0111.0110	:	7 + 6/16	=	7.3750
1011.0111	:	-5 + 7/16	=	-4.5625	1111.0111	:	-1 + 7/16	=	-0.5625	0011.0111	:	3 + 7/16	=	3.4375	0111.0111	:	7 + 7/16	=	7.4375
1011.1000	:	-5 + 8/16	=	-4.5000	1111.1000	:	-1 + 8/16	=	-0.5000	0011.1000	:	3 + 8/16	=	3.5000	0111.1000	:	7 + 8/16	=	7.5000
1011.1001	:	-5 + 9/16	=	-4.4375	1111.1001	:	-1 + 9/16	=	-0.4375	0011.1001	:	3 + 9/16	=	3.5625	0111.1001	:	7 + 9/16	=	7.5625
1011.1010	:	-5 + 10/16	=	-4.3750	1111.1010	:	-1 + 10/16	=	-0.3750	0011.1010	:	3 + 10/16	=	3.6250	0111.1010	:	7 + 10/16	=	7.6250
1011.1011	:	-5 + 11/16	=	-4.3125	1111.1011	:	-1 + 11/16	=	-0.3125	0011.1011	:	3 + 11/16	=	3.6875	0111.1011	:	7 + 11/16	=	7.6875
1011.1100	:	-5 + 12/16	=	-4.2500	1111.1100	:	-1 + 12/16	=	-0.2500	0011.1100	:	3 + 12/16	=	3.7500	0111.1100	:	7 + 12/16	=	7.7500
1011.1101	:	-5 + 13/16	=	-4.1875	1111.1101	:	-1 + 13/16	=	-0.1875	0011.1101	:	3 + 13/16	=	3.8125	0111.1101	:	7 + 13/16	=	7.8125
1011.1110	:	-5 + 14/16	=	-4.1250	1111.1110	:	-1 + 14/16	=	-0.1250	0011.1110	:	3 + 14/16	=	3.8750	0111.1110	:	7 + 14/16	=	7.8750
1011.1111	:	-5 + 15/16	=	-4.0625	1111.1111	:	-1 + 15/16	=	-0.0625	0011.1111	:	3 + 15/16	=	3.9375	0111.1111	:	7 + 15/16	=	7.9375