A	B		C		D
2dB Range	No. of Counts		Relative Noise Energy		Total Relative Noise Energy
98-100		x	79,400	=	
96-98		x	50,100	=	
94-96		x	31,600	=	
92-94		x	20,000	=	
90-92		x	12,600	=	
88-90		x	7,940	=	
86-88		x	5,010	=	
84-86		x	3,160	=	
82-84		x	2,000	=	
80-82		x	1,260	=	
78-80		x	794	=	
76-78		x	501	=	
74-76		x	316	=	
72-74		x	200	=	
70-72		x	126	=	
68-70		x	79.4	=	
66-68		x	50.1	=	
64-66		x	31.6	=	
62-64		x	20.0	=	
60-62		x	12.6	=	
58-60		x	7.94	=	
56-58		x	5.01	=	
54-56		x	3.16	=	
52-54		x	2.00	=	
50-52		x	1.26	=	
48-50		x	.794	=	
46-48		x	.501	=	
44-46		x	.316	=	
42-44		x	.200	=	
40-42		x	.126	=	
Sum B =			Sum D =		

$$Q = \frac{\text{Sum D}}{\text{Sum B}} = \frac{\qquad}{\qquad} = \qquad$$

$$L_{eq} = \qquad \text{dB}$$

L_{eq} Table

L_{eq}	Q	L_{eq}	Q
100	100,000	69	74.9
99	79,400	68	63.1
98	63,100	67	50.1
97	50,100	66	39.3
96	39,800	65	31.6
95	31,600	64	25.1
94	25,100	63	20.0
93	20,000	62	15.8
92	15,800	61	12.6
91	12,600	60	10.0
90	10,000	59	7.94
89	7,940	58	6.31
88	6,310	57	5.01
87	5,010	56	3.98
86	3,980	55	3.16
85	3,160	54	2.51
84	2,510	53	2.00
83	2,000	52	1.58
82	1,580	51	1.26
81	1,260	50	1.00
80	1,000	49	.794
79	794	48	.631
78	631	47	.501
77	501	46	.398
76	398	45	.316
75	316	44	.251
74	251	43	.200
73	200	42	.158
72	158	41	.128
71	126	40	.100
70	100		