

		Range	Min Det. Signal		S-band
Ka Radar constant	67.5 dBZ	1	-36.56	-37.00	-44.43
Ka Assumed MDS	-104.5 dBm	2	-30.10	-30.98	-38.40
Ka One-way attenuatic	0.22 dB/km	3	-26.14	-27.46	-34.87
		4	-23.20	-24.96	-32.36
S Radar Const	68.9 dBZ	5	-20.82	-23.02	-30.41
S Assumed MDS	-113.34 dBm	6	-18.80	-21.44	-28.82
S One-way attenuator	0.005 dB/km	7	-17.02	-20.10	-27.47
		8	-15.42	-18.94	-26.30
Constants verified w/ Dixon, 9-Mar-2012		9	-13.96	-17.92	-25.27
		10	-12.60	-17.00	-24.34
		11	-11.33	-16.17	-23.50
		12	-10.14	-15.42	-22.74
		13	-9.00	-14.72	-22.03
		14	-7.92	-14.08	-21.38
		15	-6.88	-13.48	-20.77
		16	-5.88	-12.92	-20.20
		17	-4.91	-12.39	-19.66
		18	-3.97	-11.89	-19.15
		19	-3.06	-11.42	-18.67
		20	-2.18	-10.98	-18.22
		21	-1.32	-10.56	-17.79
		22	-0.47	-10.15	-17.37
		23	0.35	-9.77	-16.98
		24	1.16	-9.40	-16.60
		25	1.96	-9.04	-16.23
		26	2.74	-8.70	-15.88
		27	3.51	-8.37	-15.54
		28	4.26	-8.06	-15.22
		29	5.01	-7.75	-14.90
		30	5.74	-7.46	-14.60
		31	6.47	-7.17	-14.30
		32	7.18	-6.90	-14.02
		33	7.89	-6.63	-13.74
		34	8.59	-6.37	-13.47
		35	9.28	-6.12	-13.21
		36	9.97	-5.87	-12.95
		37	10.64	-5.64	-12.71
		38	11.32	-5.40	-12.46
		39	11.98	-5.18	-12.23
		40	12.64	-4.96	-12.00
		41	13.30	-4.74	-11.77
		42	13.94	-4.54	-11.56
		43	14.59	-4.33	-11.34
		44	15.23	-4.13	-11.13
		45	15.86	-3.94	-10.93
		46	16.50	-3.74	-10.72
		47	17.12	-3.56	-10.53
		48	17.74	-3.38	-10.34
		49	18.36	-3.20	-10.15
		50	18.98	-3.02	-9.96

51	19.59	-2.85	-9.78
52	20.20	-2.68	-9.60
53	20.81	-2.51	-9.42
54	21.41	-2.35	-9.25
55	22.01	-2.19	-9.08
56	22.60	-2.04	-8.92
57	23.20	-1.88	-8.75
58	23.79	-1.73	-8.59
59	24.38	-1.58	-8.43
60	24.96	-1.44	-8.28
61	25.55	-1.29	-8.12
62	26.13	-1.15	-7.97
63	26.71	-1.01	-7.82
64	27.28	-0.88	-7.68
65	27.86	-0.74	-7.53
66	28.43	-0.61	-7.39
67	29.00	-0.48	-7.25
68	29.57	-0.35	-7.11
69	30.14	-0.22	-6.97
70	30.70	-0.10	-6.84
71	31.27	0.03	-6.70
72	31.83	0.15	-6.57
73	32.39	0.27	-6.44
74	32.94	0.38	-6.32
75	33.50	0.50	-6.19
76	34.06	0.62	-6.06
77	34.61	0.73	-5.94
78	35.16	0.84	-5.82
79	35.71	0.95	-5.70
80	36.26	1.06	-5.58
81	36.81	1.17	-5.46
82	37.36	1.28	-5.34
83	37.90	1.38	-5.23
84	38.45	1.49	-5.11
85	38.99	1.59	-5.00
86	39.53	1.69	-4.89
87	40.07	1.79	-4.78
88	40.61	1.89	-4.67
89	41.15	1.99	-4.56
90	41.68	2.08	-4.46
91	42.22	2.18	-4.35
92	42.76	2.28	-4.24
93	43.29	2.37	-4.14
94	43.82	2.46	-4.04
95	44.35	2.55	-3.94
96	44.89	2.65	-3.83
97	45.42	2.74	-3.73
98	45.94	2.82	-3.64
99	46.47	2.91	-3.54