

	forward scatter	back scatter
Reflectivity, pos 2		
Reflectivity, pos 2	0.001	
slope exponent	2	2
break-over angle, deg	0.48	0.42
Max BRDF	10	10
large angle BRDF	0.045	0.038
micro-roughness angle	3.4	3.4
micro-roughness constant	5901.836	7708.52

Angle	Angle (minus)	BRDF, pos 1	BRDF, pos 2	Instrument	parametric fit
-85	85	3.51E-02	3.88E-02	1.59E-06	0.038000035
-84.58	84.58	3.45E-02	4.09E-02	2.28E-06	0.038000035
-84.16	84.16	3.57E-02	4.19E-02	1.72E-06	0.038000036
-83.74	83.74	3.71E-02	4.17E-02	1.38E-06	0.038000037
-83.32	83.32	3.84E-02	4.04E-02	1.49E-06	0.038000038
-82.9	82.9	3.75E-02	3.98E-02	7.85E-07	0.038000038
-82.48	82.48	3.76E-02	3.95E-02	1.25E-06	0.038000039
-82.06	82.06	3.73E-02	3.91E-02	1.92E-06	0.03800004
-81.64	81.64	3.85E-02	3.81E-02	1.46E-06	0.038000041
-81.22	81.22	3.90E-02	3.70E-02	1.28E-06	0.038000042
-80.8	80.8	3.73E-02	3.72E-02	1.17E-06	0.038000043
-80.38	80.38	3.65E-02	3.69E-02	1.49E-06	0.038000043
-79.96	79.96	3.67E-02	3.65E-02	1.32E-06	0.038000044
-79.54	79.54	3.68E-02	3.55E-02	8.39E-07	0.038000045
-79.12	79.12	3.82E-02	3.73E-02	5.93E-07	0.038000046
-78.7	78.7	3.66E-02	3.81E-02	7.18E-07	0.038000047
-78.28	78.28	3.52E-02	3.84E-02	6.60E-07	0.038000048
-77.86	77.86	3.45E-02	3.66E-02	7.27E-07	0.038000049
-77.44	77.44	3.56E-02	3.56E-02	7.34E-07	0.03800005
-77.02	77.02	3.70E-02	3.50E-02	7.82E-07	0.038000052
-76.6	76.6	3.90E-02	3.68E-02	8.15E-07	0.038000053
-76.18	76.18	3.86E-02	3.86E-02	6.93E-07	0.038000054
-75.76	75.76	3.88E-02	3.96E-02	7.20E-07	0.038000055
-75.34	75.34	3.72E-02	3.88E-02	9.09E-07	0.038000056
-74.92	74.92	3.80E-02	3.75E-02	7.57E-07	0.038000058

-74.5	74.5	3.79E-02	3.69E-02	6.58E-07	0.038000059
-74.08	74.08	3.81E-02	3.71E-02	5.42E-07	0.03800006
-73.66	73.66	3.85E-02	3.82E-02	5.59E-07	0.038000062
-73.2401	73.2401	3.88E-02	3.80E-02	6.88E-07	0.038000063
-72.8201	72.8201	3.95E-02	3.69E-02	7.06E-07	0.038000064
-72.4001	72.4001	3.81E-02	3.86E-02	5.91E-07	0.038000066
-71.9801	71.9801	3.73E-02	3.87E-02	6.40E-07	0.038000068
-71.5601	71.5601	3.79E-02	3.79E-02	5.41E-07	0.038000069
-71.1401	71.1401	3.86E-02	3.60E-02	4.93E-07	0.038000071
-70.7201	70.7201	3.95E-02	3.62E-02	5.55E-07	0.038000072
-70.3001	70.3001	4.00E-02	3.96E-02	5.63E-07	0.038000074
-69.8801	69.8801	3.81E-02	3.86E-02	6.51E-07	0.038000076
-69.4601	69.4601	3.67E-02	3.85E-02	5.52E-07	0.038000078
-69.0401	69.0401	3.62E-02	3.63E-02	4.70E-07	0.03800008
-68.6201	68.6201	3.56E-02	3.50E-02	4.68E-07	0.038000082
-68.2001	68.2001	3.46E-02	3.53E-02	4.50E-07	0.038000084
-67.7801	67.7801	3.38E-02	3.45E-02	5.71E-07	0.038000086
-67.3601	67.3601	3.45E-02	3.61E-02	6.33E-07	0.038000088
-66.9401	66.9401	3.57E-02	3.58E-02	4.63E-07	0.03800009
-66.5201	66.5201	3.78E-02	3.76E-02	4.03E-07	0.038000093
-66.1001	66.1001	3.76E-02	3.67E-02	3.86E-07	0.038000095
-65.6801	65.6801	3.57E-02	3.72E-02	4.81E-07	0.038000097
-65.2601	65.2601	3.64E-02	3.69E-02	5.51E-07	0.0380001
-64.8401	64.8401	3.62E-02	3.61E-02	4.98E-07	0.038000103
-64.4201	64.4201	3.75E-02	3.63E-02	3.61E-07	0.038000105
-64.0001	64.0001	3.81E-02	3.60E-02	4.30E-07	0.038000108
-63.5801	63.5801	3.91E-02	3.58E-02	4.70E-07	0.038000111
-63.1601	63.1601	3.86E-02	3.50E-02	4.45E-07	0.038000114
-62.7401	62.7401	3.78E-02	3.55E-02	3.63E-07	0.038000117
-62.3201	62.3201	3.82E-02	3.72E-02	3.73E-07	0.03800012
-61.9001	61.9001	3.65E-02	3.61E-02	2.11E-07	0.038000124
-61.4801	61.4801	3.42E-02	3.54E-02	3.55E-07	0.038000127
-61.0601	61.0601	3.42E-02	3.33E-02	3.63E-07	0.03800013
-60.6401	60.6401	3.56E-02	3.28E-02	4.17E-07	0.038000134
-60.2201	60.2201	3.90E-02	3.43E-02	4.13E-07	0.038000138
-59.8001	59.8001	3.92E-02	3.59E-02	3.32E-07	0.038000142
-59.3801	59.3801	3.82E-02	3.58E-02	2.99E-07	0.038000146
-58.9601	58.9601	3.76E-02	3.56E-02	3.30E-07	0.03800015
-58.5401	58.5401	3.50E-02	3.70E-02	3.75E-07	0.038000154
-58.1201	58.1201	3.41E-02	3.79E-02	3.58E-07	0.038000159
-57.7001	57.7001	3.49E-02	3.80E-02	3.50E-07	0.038000164
-57.2801	57.2801	3.52E-02	3.76E-02	3.36E-07	0.038000168
-56.8601	56.8601	3.50E-02	3.73E-02	1.82E-07	0.038000173



-56.4401	56.4401	3.43E-02	3.80E-02	2.25E-07	0.038000179
-56.0201	56.0201	3.30E-02	3.85E-02	3.12E-07	0.038000184
-55.6001	55.6001	3.43E-02	3.77E-02	3.90E-07	0.03800019
-55.1801	55.1801	3.47E-02	3.77E-02	3.18E-07	0.038000196
-54.7601	54.7601	3.69E-02	3.67E-02	3.49E-07	0.038000202
-54.3401	54.3401	3.91E-02	3.59E-02	2.83E-07	0.038000208
-53.9201	53.9201	3.95E-02	3.57E-02	2.66E-07	0.038000214
-53.5001	53.5001	3.71E-02	3.71E-02	2.66E-07	0.038000221
-53.0801	53.0801	3.60E-02	3.69E-02	3.20E-07	0.038000228
-52.6601	52.6601	3.42E-02	3.75E-02	2.52E-07	0.038000236
-52.2401	52.2401	3.54E-02	3.70E-02	3.43E-07	0.038000243
-51.8201	51.8201	3.74E-02	3.60E-02	2.85E-07	0.038000251
-51.4001	51.4001	3.78E-02	3.63E-02	2.80E-07	0.03800026
-50.9801	50.9801	3.62E-02	3.70E-02	3.17E-07	0.038000268
-50.5602	50.5602	3.56E-02	3.59E-02	3.31E-07	0.038000277
-50.1402	50.1402	3.59E-02	3.60E-02	2.55E-07	0.038000287
-49.7202	49.7202	3.75E-02	3.70E-02	2.97E-07	0.038000297
-49.3002	49.3002	3.99E-02	3.71E-02	2.87E-07	0.038000307
-48.8802	48.8802	3.97E-02	3.60E-02	3.71E-07	0.038000318
-48.4602	48.4602	3.74E-02	3.50E-02	3.07E-07	0.038000329
-48.0402	48.0402	3.64E-02	3.56E-02	2.47E-07	0.03800034
-47.6202	47.6202	3.56E-02	3.58E-02	2.67E-07	0.038000353
-47.2002	47.2002	3.49E-02	3.87E-02	3.07E-07	0.038000365
-46.7802	46.7802	3.51E-02	4.06E-02	3.21E-07	0.038000379
-46.3602	46.3602	3.46E-02	3.92E-02	3.12E-07	0.038000392
-45.9402	45.9402	3.35E-02	3.85E-02	3.05E-07	0.038000407
-45.5202	45.5202	3.37E-02	3.84E-02	3.06E-07	0.038000422
-45.1002	45.1002	3.42E-02	3.78E-02	2.00E-07	0.038000438
-44.6802	44.6802	3.49E-02	3.65E-02	2.56E-07	0.038000455
-44.2602	44.2602	3.57E-02	3.53E-02	3.38E-07	0.038000472
-43.8402	43.8402	3.71E-02	3.56E-02	2.99E-07	0.038000491
-43.4202	43.4202	3.71E-02	3.71E-02	2.80E-07	0.03800051
-43.0002	43.0002	3.72E-02	3.89E-02	2.42E-07	0.03800053
-42.5802	42.5802	3.77E-02	3.97E-02	2.19E-07	0.038000551
-42.1602	42.1602	3.63E-02	3.75E-02	2.25E-07	0.038000574
-41.7402	41.7402	3.53E-02	3.63E-02	2.31E-07	0.038000597
-41.3202	41.3202	3.54E-02	3.56E-02	2.52E-07	0.038000622
-40.9002	40.9002	3.54E-02	3.63E-02	2.83E-07	0.038000648
-40.4802	40.4802	3.52E-02	3.73E-02	2.14E-07	0.038000675
-40.0602	40.0602	3.61E-02	3.61E-02	2.23E-07	0.038000704
-39.6402	39.6402	3.79E-02	3.55E-02	2.58E-07	0.038000734
-39.2202	39.2202	3.66E-02	3.68E-02	2.29E-07	0.038000766
-38.8002	38.8002	3.60E-02	3.78E-02	2.47E-07	0.0380008

-38.3802	38.3802	3.48E-02	3.75E-02	2.39E-07	0.038000835
-37.9602	37.9602	3.51E-02	3.93E-02	2.20E-07	0.038000873
-37.5402	37.5402	3.73E-02	3.86E-02	2.58E-07	0.038000913
-37.1202	37.1202	3.82E-02	3.73E-02	2.34E-07	0.038000955
-36.7002	36.7002	3.78E-02	3.55E-02	2.22E-07	0.038000999
-36.2802	36.2802	3.79E-02	3.60E-02	2.55E-07	0.038001046
-35.8602	35.8602	3.66E-02	3.81E-02	2.18E-07	0.038001096
-35.4402	35.4402	3.64E-02	3.84E-02	2.06E-07	0.038001149
-35.0202	35.0202	3.59E-02	3.72E-02	1.80E-07	0.038001205
-34.6002	34.6002	3.59E-02	3.71E-02	2.64E-07	0.038001265
-34.1802	34.1802	3.74E-02	3.85E-02	2.21E-07	0.038001328
-33.7602	33.7602	3.80E-02	3.79E-02	1.86E-07	0.038001395
-33.3402	33.3402	3.80E-02	3.76E-02	2.22E-07	0.038001467
-32.9202	32.9202	3.71E-02	3.65E-02	2.09E-07	0.038001543
-32.5002	32.5002	3.79E-02	3.74E-02	2.34E-07	0.038001624
-32.0802	32.0802	3.74E-02	3.86E-02	2.38E-07	0.038001711
-31.6602	31.6602	3.73E-02	3.99E-02	2.62E-07	0.038001804
-31.2402	31.2402	3.68E-02	4.01E-02	2.40E-07	0.038001902
-30.8202	30.8202	3.71E-02	4.05E-02	2.57E-07	0.038002008
-30.4002	30.4002	3.79E-02	3.99E-02	2.83E-07	0.038002121
-29.9802	29.9802	3.88E-02	3.95E-02	2.16E-07	0.038002243
-29.5602	29.5602	3.89E-02	3.91E-02	1.67E-07	0.038002373
-29.1402	29.1402	3.82E-02	3.68E-02	1.40E-07	0.038002513
-28.7202	28.7202	3.80E-02	3.69E-02	1.93E-07	0.038002663
-28.3002	28.3002	3.71E-02	3.75E-02	1.63E-07	0.038002824
-27.8802	27.8802	3.64E-02	3.91E-02	1.78E-07	0.038002998
-27.4602	27.4602	3.65E-02	3.96E-02	1.87E-07	0.038003186
-27.0402	27.0402	3.78E-02	4.01E-02	2.40E-07	0.038003388
-26.6202	26.6202	3.82E-02	4.14E-02	2.49E-07	0.038003607
-26.2002	26.2002	3.70E-02	4.08E-02	2.37E-07	0.038003844
-25.7802	25.7802	3.72E-02	4.15E-02	2.40E-07	0.038004101
-25.3602	25.3602	3.78E-02	4.10E-02	2.58E-07	0.038004379
-24.9402	24.9402	3.98E-02	4.18E-02	1.71E-07	0.038004681
-24.5202	24.5202	4.02E-02	3.99E-02	1.98E-07	0.03800501
-24.1002	24.1002	4.14E-02	3.83E-02	1.94E-07	0.038005368
-23.6802	23.6802	4.28E-02	3.81E-02	1.98E-07	0.038005759
-23.2602	23.2602	4.32E-02	4.01E-02	1.77E-07	0.038006186
-22.8402	22.8402	4.51E-02	4.08E-02	2.24E-07	0.038006653
-22.4202	22.4202	4.39E-02	3.96E-02	1.85E-07	0.038007166
-22.0002	22.0002	4.23E-02	3.98E-02	2.27E-07	0.038007728
-21.5802	21.5802	4.15E-02	3.95E-02	2.32E-07	0.038008347
-21.1602	21.1602	4.12E-02	3.83E-02	1.48E-07	0.038009029
-20.7402	20.7402	4.06E-02	3.89E-02	1.84E-07	0.038009782

-20.3202	20.3202	3.83E-02	3.87E-02	1.99E-07	0.038010616
-19.9002	19.9002	3.81E-02	3.94E-02	1.30E-07	0.038011539
-19.4802	19.4802	4.07E-02	4.10E-02	9.96E-08	0.038012566
-19.0602	19.0602	4.44E-02	4.12E-02	1.74E-07	0.038013709
-18.6402	18.6402	4.51E-02	4.05E-02	1.98E-07	0.038014986
-18.2202	18.2202	4.55E-02	4.06E-02	1.76E-07	0.038016414
-17.8002	17.8002	4.38E-02	4.03E-02	1.50E-07	0.038018017
-17.3802	17.3802	4.27E-02	4.08E-02	2.10E-07	0.03801982
-16.9602	16.9602	4.13E-02	4.26E-02	2.22E-07	0.038021854
-16.5402	16.5402	4.07E-02	4.15E-02	1.83E-07	0.038024157
-16.1202	16.1202	3.87E-02	3.99E-02	1.55E-07	0.03802677
-15.7002	15.7002	4.06E-02	3.94E-02	1.86E-07	0.038029746
-15.2802	15.2802	4.16E-02	4.11E-02	1.55E-07	0.038033147
-14.8602	14.8602	4.39E-02	4.15E-02	1.63E-07	0.038037049
-14.4402	14.4402	4.50E-02	4.28E-02	1.54E-07	0.038041542
-14.0202	14.0202	4.42E-02	4.41E-02	1.90E-07	0.038046736
-13.6002	13.6002	4.31E-02	4.35E-02	2.20E-07	0.038052768
-13.1802	13.1802	4.29E-02	4.27E-02	1.85E-07	0.038059804
-12.7602	12.7602	4.14E-02	4.24E-02	1.97E-07	0.038068053
-12.3402	12.3402	3.97E-02	4.34E-02	2.09E-07	0.038077774
-11.9202	11.9202	3.86E-02	4.24E-02	2.44E-07	0.038089292
-11.5002	11.5002	3.91E-02	4.06E-02	2.36E-07	0.038103023
-11.0802	11.0802	4.07E-02	3.91E-02	2.85E-07	0.038119495
-10.6602	10.6602	3.91E-02	3.90E-02	2.44E-07	0.038139392
-10.2402	10.2402	3.76E-02	4.07E-02	2.31E-07	0.038163604
-9.8202	9.8202	3.68E-02	4.35E-02	2.49E-07	0.038193304
-9.4002	9.4002	3.75E-02	4.48E-02	2.62E-07	0.038230051
-8.9802	8.9802	4.03E-02	4.67E-02	2.19E-07	0.03827595
-8.5602	8.5602	4.47E-02	4.53E-02	2.20E-07	0.038333872
-8.1402	8.1402	4.44E-02	4.26E-02	2.40E-07	0.038407797
-7.7202	7.7202	4.38E-02	4.07E-02	2.45E-07	0.038503327
-7.3002	7.3002	4.10E-02	4.02E-02	3.04E-07	0.038628487
-6.8802	6.8802	3.92E-02	4.23E-02	3.52E-07	0.038794996
-6.4602	6.4602	3.93E-02	4.63E-02	3.56E-07	0.039020343
-6.0402	6.0402	4.14E-02	4.64E-02	3.65E-07	0.039331261
-5.6202	5.6202	4.08E-02	4.66E-02	3.96E-07	0.039769738
-5.2002	5.2002	4.12E-02	4.71E-02	4.89E-07	0.040403788
-4.7802	4.7802	4.51E-02	4.82E-02	6.22E-07	0.041347535
-4.3602	4.3602	4.91E-02	5.34E-02	7.37E-07	0.042800435
-3.9402	3.9402	5.52E-02	5.77E-02	1.03E-06	0.045128044
-3.5202	3.5202	4.48E-02	2.74E-02	2.37E-05	0.049039007
-3.3712	3.3712	5.73E-02	3.39E-02	1.31E-05	0.051045412
-3.2222	3.2222	6.00E-02	4.37E-02	1.49E-05	0.053524674

-3.0732	3.0732	5.64E-02	6.41E-02	1.62E-05	0.056615589
-2.9242	2.9242	5.40E-02	7.30E-02	1.80E-05	0.060506304
-2.7752	2.7752	6.15E-02	7.65E-02	1.94E-05	0.065455139
-2.6262	2.6262	8.41E-02	9.87E-02	2.12E-05	0.071821661
-2.4772	2.4772	1.22E-01	1.05E-01	2.28E-05	0.08011384
-2.3282	2.3282	1.15E-01	9.38E-02	2.48E-05	0.091060835
-2.1792	2.1792	1.00E-01	8.30E-02	2.64E-05	0.105727456
-2.0302	2.0302	9.97E-02	1.33E-01	2.79E-05	0.125697652
-1.8812	1.8812	1.37E-01	2.45E-01	3.24E-05	0.153374595
-1.7322	1.7322	1.75E-01	3.23E-01	6.71E-05	0.192481486
-1.5832	1.5832	2.14E-01	4.09E-01	5.06E-04	0.248913907
-1.4342	1.4342	2.27E-01	4.03E-01	1.09E-03	0.3322159
-1.2852	1.2852	2.78E-01	1.97E-01	2.71E-03	0.458167078
-1.2442	1.2442	2.19E-01	3.10E-01	4.29E-03	0.503476582
-1.2032	1.2032	2.06E-01	5.71E-01	4.62E-03	0.554671462
-1.1622	1.1622	2.98E-01	8.30E-01	5.01E-03	0.612620209
-1.1212	1.1212	3.30E-01	1.00E+00	8.58E-03	0.678328219
-1.0802	1.0802	2.47E-01	1.08E+00	1.00E-02	0.752958687
-1.0392	1.0392	2.69E-01	1.29E+00	1.15E-02	0.837855784
-0.9982	0.9982	4.42E-01	1.64E+00	1.60E-02	0.934569829
-0.9572	0.9572	1.02E+00	1.93E+00	2.28E-02	1.044883801
-0.9162	0.9162	1.56E+00	1.87E+00	3.13E-02	1.170840008
-0.8752	0.8752	1.50E+00	1.68E+00	5.51E-02	1.314764895
-0.8342	0.8342	1.13E+00	1.77E+00	6.51E-02	1.479288839
-0.7932	0.7932	8.89E-01	2.06E+00	6.07E-02	1.667356143
-0.7522	0.7522	9.67E-01	1.65E+00	2.43E-01	1.882218319
-0.7112	0.7112	1.39E+00	1.31E+00	4.04E-01	2.127400916
-0.6702	0.6702	1.76E+00	2.02E+00	6.61E-01	2.406630806
-0.6292	0.6292	2.06E+00	5.69E+00	6.17E-01	2.72370699
-0.5882	0.5882	1.99E+00	6.89E+00	4.24E-01	3.082294338
-0.5472	0.5472	1.69E+00	7.08E+00	3.83E-01	3.485617135
-0.5062	0.5062	1.28E+00	4.73E+00	6.89E-01	3.936029837
-0.4652	0.4652	9.39E-01	2.54E+00	4.97E+00	4.434448772
-0.4242	0.4242	7.97E-01	4.17E+00	2.77E+01	4.979644291
-0.3832	0.3832	1.40E+00	8.11E+00	1.92E+02	5.567422038
-0.3422	0.3422	2.89E+00	1.27E+01	7.59E+02	6.189767061
-0.3312	0.3312	3.61E+00	1.45E+01	1.10E+03	6.361115445
-0.3202	0.3202	4.33E+00	1.47E+01	1.57E+03	6.533769713
-0.3092	0.3092	4.54E+00	1.56E+01	2.08E+03	6.707398838
-0.2982	0.2982	4.66E+00	1.57E+01	2.65E+03	6.881644849
-0.2872	0.2872	4.91E+00	1.54E+01	3.69E+03	7.056123006
-0.2762	0.2762	4.91E+00	1.54E+01	3.78E+03	7.230422264
-0.2652	0.2652	4.86E+00	1.55E+01	4.48E+03	7.40410604

-0.2542	0.2542	4.43E+00	1.38E+01	5.25E+03	7.576713291
-0.2432	0.2432	4.05E+00	1.31E+01	5.95E+03	7.747759947
-0.2322	0.2322	3.88E+00	1.28E+01	6.53E+03	7.916740692
-0.2212	0.2212	3.60E+00	1.19E+01	7.19E+03	8.083131108
-0.2102	0.2102	3.06E+00	8.18E+00	7.73E+03	8.246390198
-0.1992	0.1992	2.77E+00	8.72E+00	8.19E+03	8.405963269
-0.1882	0.1882	2.37E+00	6.37E+00	8.67E+03	8.561285174
-0.1772	0.1772	1.97E+00	4.99E+00	9.20E+03	8.711783902
-0.1662	0.1662	1.40E+00	4.96E+00	9.78E+03	8.856884476
-0.1552	0.1552	7.81E-01	4.38E+00	1.05E+04	8.996013143
-0.1442	0.1442	5.81E-01	4.22E+00	1.11E+04	9.128601805
-0.1332	0.1332	4.35E-01	3.69E+00	1.19E+04	9.254092644
-0.1222	0.1222	8.13E-01	4.20E+00	1.26E+04	9.371942885
-0.1112	0.1112	2.19E+00	4.17E+00	1.34E+04	9.481629639
-0.1002	0.1002	3.47E+00	5.52E+00	1.42E+04	9.582654744
-0.0892	0.0892	7.08E+00	7.10E+00	1.49E+04	9.674549552
-0.0782	0.0782	9.17E+00	9.56E+00	1.53E+04	9.756879562
-0.0672	0.0672	1.40E+01	1.05E+01	1.57E+04	9.829248847
-0.0562	0.0562	1.82E+01	1.35E+01	1.59E+04	9.891304179
-0.0452	0.0452	2.23E+01	1.64E+01	1.59E+04	9.942738786
-0.0342	0.0342	2.85E+01	2.00E+01	1.59E+04	9.98329568
-0.0232	0.0232	3.29E+01	2.24E+01	1.60E+04	10.01277048
-0.0122	0.0122	3.62E+01	2.30E+01	1.59E+04	10.03101369
-0.0012	0.0012	3.65E+01	2.30E+01	1.59E+04	10.03793237
0.0098		3.58E+01	2.23E+01	1.59E+04	
0.0208		3.47E+01	2.10E+01	1.59E+04	10.02946211
0.0318		3.10E+01	1.94E+01	1.58E+04	10.00873873
0.0428		2.79E+01	1.85E+01	1.56E+04	9.97945824
0.0538		2.48E+01	1.71E+01	1.55E+04	9.941734137
0.0648		2.01E+01	1.49E+01	1.52E+04	9.89571175
0.0758		1.57E+01	1.32E+01	1.49E+04	9.841566995
0.0868		1.44E+01	1.20E+01	1.48E+04	9.779504898
0.0978		1.35E+01	1.02E+01	1.43E+04	9.709757894
0.1088		1.24E+01	8.56E+00	1.39E+04	9.632583927
0.1198		1.28E+01	7.55E+00	1.35E+04	9.548264373
0.1308		1.26E+01	6.18E+00	1.30E+04	9.457101833
0.1418		1.29E+01	5.01E+00	1.26E+04	9.359417796
0.1528		1.22E+01	3.69E+00	1.20E+04	9.255550234
0.1638		1.16E+01	2.69E+00	1.14E+04	9.145851133
0.1748		1.06E+01	1.83E+00	1.10E+04	9.030684004
0.1858		9.93E+00	1.32E+00	1.03E+04	8.910421401
0.1968		8.93E+00	7.29E-01	9.68E+03	8.785442464
0.2078		9.31E+00	7.03E-01	9.12E+03	8.65613053

0.2188	8.59E+00	6.91E-01	8.46E+03	8.52287081
0.2298	8.51E+00	7.55E-01	8.02E+03	8.386048175
0.2408	7.82E+00	8.69E-01	7.49E+03	8.246045058
0.2518	6.95E+00	1.10E+00	7.00E+03	8.10323949
0.2628	6.47E+00	1.26E+00	6.45E+03	7.958003273
0.2738	6.24E+00	1.32E+00	5.90E+03	7.810700317
0.2848	5.72E+00	1.28E+00	5.42E+03	7.661685135
0.2958	6.27E+00	1.04E+00	5.00E+03	7.511301494
0.3068	5.54E+00	8.97E-01	4.60E+03	7.359881248
0.3178	5.06E+00	5.59E-01	4.25E+03	7.20774332
0.3288	4.95E+00	3.24E-01	3.96E+03	7.055192858
0.3398	5.05E+00	2.33E-01	3.59E+03	6.902520545
0.3508	4.18E+00	2.18E-01	3.22E+03	6.750002059
0.3618	3.62E+00	2.21E-01	2.80E+03	6.597897682
0.3728	3.66E+00	1.07E+00	2.54E+03	6.446452042
0.4138	2.95E+00	8.84E-01	1.11E+03	5.891444367
0.4548	3.99E+00	7.72E-01	1.72E+02	5.358474875
0.4958	5.07E+00	9.00E-01	9.36E+00	4.854620237
0.5368	5.72E+00	1.36E+00	3.97E+00	4.384414542
0.5778	4.75E+00	2.33E+00	2.73E+00	3.950267389
0.6188	3.49E+00	3.28E+00	1.44E+00	3.55290657
0.6598	2.12E+00	3.83E+00	9.64E-01	3.191797691
0.7008	1.44E+00	3.81E+00	5.33E-01	2.865513162
0.7418	1.15E+00	4.85E+00	2.37E-01	2.572038616
0.7828	1.06E+00	4.92E+00	2.22E-01	2.309015463
0.8238	7.66E-01	4.23E+00	2.03E-01	2.073924707
0.8648	5.03E-01	2.60E+00	1.85E-01	1.864220366
0.9058	2.49E-01	1.45E+00	1.48E-01	1.67742173
0.9468	2.10E-01	1.01E+00	8.91E-02	1.511173439
0.9878	3.86E-01	9.96E-01	5.53E-02	1.363281212
1.0288	6.38E-01	8.61E-01	3.78E-02	1.231729842
1.0698	6.74E-01	7.46E-01	3.77E-02	1.114688683
1.1108	5.32E-01	6.64E-01	3.27E-02	1.010508679
1.1518	4.59E-01	1.03E+00	2.90E-02	0.917713989
1.1928	5.11E-01	1.27E+00	2.78E-02	0.834990403
1.2338	4.94E-01	1.13E+00	2.47E-02	0.761172126
1.2748	3.25E-01	8.56E-01	2.16E-02	0.69522801
1.3158	1.69E-01	5.86E-01	1.96E-02	0.636247946
1.3568	4.73E-01	5.22E-01	1.72E-02	0.583429869
1.5058	3.41E-01	4.23E-01	9.11E-03	0.4330511
1.6548	2.63E-01	3.64E-01	2.61E-03	0.330043735
1.8038	2.42E-01	3.06E-01	1.33E-03	0.258148607
1.9528	2.12E-01	2.20E-01	4.21E-04	0.207039354



2.1018	1.59E-01	1.48E-01	1.17E-04	0.17006622
2.2508	1.18E-01	1.23E-01	7.82E-05	0.142877488
2.3998	1.04E-01	9.58E-02	4.47E-05	0.12257679
2.5488	1.02E-01	8.28E-02	2.73E-05	0.107203642
2.6978	9.81E-02	8.35E-02	2.87E-05	0.095409143
2.8468	9.70E-02	9.31E-02	2.78E-05	0.086250563
2.9958	9.94E-02	9.06E-02	2.56E-05	0.079059212
3.1448	8.86E-02	7.67E-02	2.29E-05	0.073354117
3.2938	7.56E-02	5.97E-02	2.01E-05	0.068784764
3.4428	4.81E-02	5.26E-02	1.82E-05	0.065092561
3.5918	4.64E-02	5.01E-02	1.54E-05	0.062084525
3.7408	4.16E-02	4.95E-02	1.22E-05	0.059615077
3.8898	5.91E-02	6.54E-02	6.29E-06	0.057573285
4.3098	5.57E-02	6.09E-02	3.41E-06	0.05345393
4.7298	5.47E-02	5.66E-02	1.13E-06	0.050885897
5.1498	5.31E-02	5.33E-02	5.26E-07	0.049220128
5.5698	4.96E-02	5.02E-02	4.08E-07	0.048102574
5.9898	4.83E-02	4.62E-02	4.76E-07	0.047330795
6.4098	4.92E-02	4.38E-02	3.39E-07	0.046784259
6.8298	4.71E-02	4.49E-02	3.36E-07	0.046388635
7.2498	4.75E-02	4.41E-02	3.35E-07	0.046096651
7.6698	4.97E-02	4.53E-02	3.13E-07	0.045877416
8.0898	5.17E-02	4.57E-02	2.77E-07	0.045710254
8.5098	5.06E-02	4.60E-02	2.66E-07	0.045581022
8.9298	4.67E-02	4.44E-02	2.12E-07	0.045479857
9.3498	4.46E-02	4.22E-02	2.16E-07	0.045399759
9.7698	4.08E-02	4.23E-02	2.63E-07	0.045335681
10.1898	4.01E-02	4.24E-02	2.85E-07	0.045283931
10.6098	4.01E-02	4.26E-02	2.67E-07	0.045241772
11.0298	3.90E-02	4.32E-02	2.73E-07	0.045207149
11.4498	3.87E-02	4.48E-02	2.28E-07	0.045178504
11.8698	4.15E-02	4.66E-02	2.61E-07	0.045154639
12.2898	4.08E-02	4.41E-02	1.96E-07	0.045134631
12.7098	3.80E-02	4.38E-02	2.53E-07	0.045117754
13.1298	3.55E-02	4.28E-02	2.15E-07	0.045103439
13.5498	3.64E-02	4.40E-02	2.10E-07	0.045091234
13.9698	3.57E-02	4.34E-02	2.06E-07	0.045080776
14.3898	3.57E-02	4.20E-02	2.02E-07	0.045071774
14.8098	3.57E-02	4.10E-02	1.99E-07	0.045063991
15.2298	3.62E-02	4.20E-02	2.60E-07	0.045057235
15.6498	3.53E-02	4.43E-02	2.65E-07	0.045051346
16.0698	3.55E-02	4.46E-02	1.96E-07	0.045046196
16.4898	3.68E-02	4.17E-02	2.74E-07	0.045041675

16.9098	3.47E-02	3.68E-02	2.75E-07	0.045037694
17.3298	3.16E-02	3.80E-02	2.33E-07	0.045034177
17.7498	3.10E-02	3.76E-02	2.02E-07	0.045031061
18.1698	3.40E-02	3.79E-02	1.59E-07	0.045028291
18.5898	3.72E-02	3.57E-02	1.99E-07	0.045025824
19.0098	3.86E-02	3.38E-02	2.07E-07	0.045023619
19.4298	3.69E-02	3.24E-02	2.03E-07	0.045021645
19.8498	3.03E-02	3.20E-02	2.17E-07	0.045019873
20.2698	2.83E-02	3.25E-02	2.35E-07	0.045018279
20.6898	2.78E-02	3.62E-02	2.55E-07	0.045016841
21.1098	3.12E-02	3.82E-02	2.80E-07	0.045015542
21.5298	3.13E-02	3.64E-02	2.67E-07	0.045014365
21.9498	3.25E-02	3.32E-02	2.36E-07	0.045013298
22.3698	3.11E-02	3.01E-02	2.25E-07	0.045012328
22.7898	2.99E-02	3.01E-02	2.29E-07	0.045011445
23.2098	3.05E-02	2.94E-02	2.71E-07	0.04501064
23.6298	3.02E-02	3.07E-02	2.59E-07	0.045009904
24.0498	2.62E-02	2.72E-02	2.91E-07	0.045009231
24.4698	2.86E-02	2.67E-02	3.06E-07	0.045008614
24.8898	2.69E-02	2.86E-02	3.05E-07	0.045008047
25.3098	2.52E-02	3.02E-02	2.54E-07	0.045007527
25.7298	2.64E-02	2.99E-02	2.55E-07	0.045007048
26.1498	2.80E-02	2.77E-02	2.72E-07	0.045006606
26.5698	2.74E-02	2.49E-02	2.50E-07	0.045006198
26.9898	2.47E-02	2.39E-02	2.11E-07	0.045005822
27.4098	2.24E-02	2.35E-02	1.93E-07	0.045005473
27.8298	2.27E-02	2.26E-02	1.74E-07	0.045005151
28.2498	2.21E-02	2.03E-02	1.72E-07	0.045004851
28.6698	2.08E-02	1.65E-02	1.92E-07	0.045004573
29.0898	1.93E-02	1.26E-02	2.07E-07	0.045004315
29.5098	1.87E-02	1.05E-02	1.66E-07	0.045004075
29.9298	1.77E-02	9.23E-03	1.74E-07	0.045003851
30.3498	1.49E-02	7.93E-03	1.79E-07	0.045003642
30.7698	1.07E-02	7.65E-03	2.14E-07	0.045003448
31.1898	9.72E-03	6.55E-03	1.62E-07	0.045003266
31.6098	7.71E-03	5.30E-03	2.00E-07	0.045003096
32.0298	6.26E-03	3.98E-03	2.18E-07	0.045002936
32.4498	5.18E-03	2.17E-03	2.33E-07	0.045002787
32.8698	6.10E-03	5.36E-03	2.24E-07	0.045002648
33.2898	9.26E+06	7.61E+06	2.23E-07	0.045002517
33.7098	7.23E+06	7.14E+06	2.15E-07	0.045002394
34.1298	7.16E+06	6.77E+06	3.10E-07	0.045002278
34.5498	6.36E+06	5.79E+06	2.68E-07	0.045002169

34.9698	4.95E+06	3.43E+06	1.91E-07	0.045002067
35.3898	2.69E+06	3.21E+06	1.82E-07	0.045001971
35.8098	2.53E+06	2.08E+06	1.86E-07	0.04500188
36.2298	1.61E+06	1.14E+06	2.13E-07	0.045001794
36.6498	1.02E+06	8.75E+05	1.95E-07	0.045001713
37.0698	8.06E+05	7.66E+05	2.52E-07	0.045001637
37.4898	6.92E+05	7.78E+05	2.51E-07	0.045001565
37.9098	7.35E+05	7.60E+05	2.60E-07	0.045001497
			2.96E-07	
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			2.23E-07	
			1.69E-07	
			1.93E-07	
			2.19E-07	
			1.81E-07	
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3.62E-07  
3.52E-07  
4.73E-07  
5.39E-07  
4.28E-07  
3.80E-07  
3.86E-07  
5.45E-07  
4.98E-07  
5.54E-07  
5.19E-07  
4.58E-07  
3.63E-07  
3.71E-07  
4.98E-07  
4.94E-07  
4.98E-07  
6.19E-07  
4.70E-07  
4.71E-07  
4.15E-07

5.58E-07  
6.30E-07  
6.11E-07  
5.78E-07  
5.18E-07  
5.77E-07  
6.35E-07  
6.49E-07  
7.79E-07  
8.04E-07  
8.98E-07  
7.29E-07  
6.41E-07  
6.83E-07  
7.41E-07  
1.01E-06  
8.49E-07  
8.66E-07  
1.11E-06  
1.22E-06  
1.14E-06  
1.05E-06  
7.63E-07  
9.66E-07  
1.04E-06  
1.24E-06  
1.37E-06  
1.56E-06  
1.60E-06  
1.54E-06  
1.81E-06  
1.97E-06  
1.57E-06  
1.48E-06



**BRDF porcelainized steel  
57 deg incidence  
Back-scatter**

