

#4 Oxidized Stainless Steel @ 57 deg incidence

	forward	backward
Reflectivity, pos 1	0.04	0.04
Reflectivity, pos 2	0.04	0.04
slope exponent	0.9	0.95
break-over angle, deg	0.5	0.6
Max BRDF	50	40
large angle BRDF	0.06	0.04
micro-roughness angle	10	10
micro-roughness constant	15233.79	9796.533282

Angle	Angle(minus)	BRDF, pos 1	BRDF, pos 2	Instrument	parametric fit
-85	85	3.42E-02	2.98E-02	1.59E-06	0.043055337
-84.58	84.58	3.32E-02	2.93E-02	2.28E-06	0.043084227
-84.16	84.16	3.37E-02	2.81E-02	1.72E-06	0.043113535
-83.74	83.74	3.13E-02	2.79E-02	1.38E-06	0.043143271
-83.32	83.32	3.15E-02	2.82E-02	1.49E-06	0.043173443
-82.9	82.9	3.09E-02	3.04E-02	7.85E-07	0.043204059
-82.48	82.48	3.19E-02	3.13E-02	1.25E-06	0.043235128
-82.06	82.06	3.44E-02	3.18E-02	1.92E-06	0.043266659
-81.64	81.64	3.46E-02	3.23E-02	1.46E-06	0.043298662
-81.22	81.22	3.49E-02	3.16E-02	1.28E-06	0.043331145
-80.8	80.8	3.29E-02	3.18E-02	1.17E-06	0.04336412
-80.38	80.38	3.14E-02	3.19E-02	1.49E-06	0.043397595
-79.96	79.96	3.02E-02	3.25E-02	1.32E-06	0.043431581
-79.54	79.54	3.08E-02	3.29E-02	8.39E-07	0.043466089
-79.12	79.12	3.29E-02	3.35E-02	5.93E-07	0.04350113
-78.7	78.7	3.40E-02	3.43E-02	7.18E-07	0.043536714
-78.28	78.28	3.19E-02	3.32E-02	6.60E-07	0.043572852
-77.86	77.86	3.17E-02	3.37E-02	7.27E-07	0.043609558
-77.44	77.44	3.21E-02	3.52E-02	7.34E-07	0.043646842
-77.02	77.02	3.60E-02	3.65E-02	7.82E-07	0.043684718
-76.6	76.6	3.69E-02	3.51E-02	8.15E-07	0.043723197
-76.18	76.18	3.85E-02	3.46E-02	6.93E-07	0.043762292
-75.76	75.76	3.99E-02	3.41E-02	7.20E-07	0.043802018
-75.34	75.34	3.83E-02	3.42E-02	9.09E-07	0.043842388
-74.92	74.92	3.67E-02	3.52E-02	7.57E-07	0.043883415
-74.5	74.5	3.55E-02	3.55E-02	6.58E-07	0.043925115
-74.08	74.08	3.32E-02	3.74E-02	5.42E-07	0.043967502

-73.66	73.66	3.45E-02	3.93E-02	5.59E-07	0.044010592
-73.2401	73.2401	3.59E-02	4.06E-02	6.88E-07	0.044054389
-72.8201	72.8201	3.72E-02	4.08E-02	7.06E-07	0.044098932
-72.4001	72.4001	3.79E-02	3.90E-02	5.91E-07	0.044144226
-71.9801	71.9801	3.80E-02	3.94E-02	6.40E-07	0.044190288
-71.5601	71.5601	3.60E-02	3.84E-02	5.41E-07	0.044237136
-71.1401	71.1401	3.54E-02	3.72E-02	4.93E-07	0.044284788
-70.7201	70.7201	3.61E-02	3.97E-02	5.55E-07	0.044333264
-70.3001	70.3001	3.73E-02	3.68E-02	5.63E-07	0.044382581
-69.8801	69.8801	3.66E-02	3.43E-02	6.51E-07	0.04443276
-69.4601	69.4601	3.68E-02	3.46E-02	5.52E-07	0.044483821
-69.0401	69.0401	3.53E-02	3.33E-02	4.70E-07	0.044535786
-68.6201	68.6201	3.54E-02	3.62E-02	4.68E-07	0.044588675
-68.2001	68.2001	3.53E-02	3.88E-02	4.50E-07	0.044642511
-67.7801	67.7801	3.60E-02	3.86E-02	5.71E-07	0.044697317
-67.3601	67.3601	3.57E-02	3.82E-02	6.33E-07	0.044753118
-66.9401	66.9401	3.81E-02	3.76E-02	4.63E-07	0.044809936
-66.5201	66.5201	4.00E-02	3.70E-02	4.03E-07	0.044867797
-66.1001	66.1001	3.95E-02	4.00E-02	3.86E-07	0.044926727
-65.6801	65.6801	3.90E-02	3.87E-02	4.81E-07	0.044986754
-65.2601	65.2601	3.79E-02	3.74E-02	5.51E-07	0.045047903
-64.8401	64.8401	3.96E-02	3.55E-02	4.98E-07	0.045110205
-64.4201	64.4201	4.04E-02	3.43E-02	3.61E-07	0.045173688
-64.0001	64.0001	3.89E-02	3.57E-02	4.30E-07	0.045238382
-63.5801	63.5801	3.74E-02	3.60E-02	4.70E-07	0.04530432
-63.1601	63.1601	3.87E-02	3.85E-02	4.45E-07	0.045371532
-62.7401	62.7401	4.17E-02	3.98E-02	3.63E-07	0.045440054
-62.3201	62.3201	4.28E-02	3.89E-02	3.73E-07	0.045509918
-61.9001	61.9001	4.03E-02	3.78E-02	2.11E-07	0.045581161
-61.4801	61.4801	4.05E-02	3.91E-02	3.55E-07	0.04565382
-61.0601	61.0601	4.28E-02	4.18E-02	3.63E-07	0.045727932
-60.6401	60.6401	4.49E-02	4.40E-02	4.17E-07	0.045803537
-60.2201	60.2201	4.56E-02	4.41E-02	4.13E-07	0.045880676
-59.8001	59.8001	4.37E-02	4.41E-02	3.32E-07	0.045959391
-59.3801	59.3801	4.18E-02	4.36E-02	2.99E-07	0.046039726
-58.9601	58.9601	4.09E-02	4.51E-02	3.30E-07	0.046121725
-58.5401	58.5401	4.31E-02	4.46E-02	3.75E-07	0.046205436
-58.1201	58.1201	4.74E-02	4.37E-02	3.58E-07	0.046290906
-57.7001	57.7001	4.99E-02	4.45E-02	3.50E-07	0.046378186
-57.2801	57.2801	4.76E-02	4.39E-02	3.36E-07	0.046467328
-56.8601	56.8601	4.52E-02	4.39E-02	1.82E-07	0.046558386
-56.4401	56.4401	4.26E-02	4.44E-02	2.25E-07	0.046651415
-56.0201	56.0201	4.17E-02	4.42E-02	3.12E-07	0.046746473

-55.6001	55.6001	4.37E-02	4.31E-02	3.90E-07	0.04684362
-55.1801	55.1801	4.86E-02	4.21E-02	3.18E-07	0.046942919
-54.7601	54.7601	5.13E-02	4.40E-02	3.49E-07	0.047044433
-54.3401	54.3401	4.74E-02	4.63E-02	2.83E-07	0.047148231
-53.9201	53.9201	4.54E-02	4.63E-02	2.66E-07	0.047254381
-53.5001	53.5001	4.47E-02	4.35E-02	2.66E-07	0.047362955
-53.0801	53.0801	4.55E-02	4.07E-02	3.20E-07	0.04747403
-52.6601	52.6601	4.67E-02	4.10E-02	2.52E-07	0.047587683
-52.2401	52.2401	4.81E-02	4.30E-02	3.43E-07	0.047703994
-51.8201	51.8201	4.70E-02	4.73E-02	2.85E-07	0.047823049
-51.4001	51.4001	4.64E-02	5.11E-02	2.80E-07	0.047944935
-50.9801	50.9801	4.60E-02	4.92E-02	3.17E-07	0.048069743
-50.5602	50.5602	4.57E-02	4.76E-02	3.31E-07	0.048197538
-50.1402	50.1402	4.71E-02	4.41E-02	2.55E-07	0.048328479
-49.7202	49.7202	4.75E-02	4.27E-02	2.97E-07	0.048462639
-49.3002	49.3002	4.91E-02	4.38E-02	2.87E-07	0.048600126
-48.8802	48.8802	4.89E-02	4.30E-02	3.71E-07	0.048741052
-48.4602	48.4602	4.63E-02	4.80E-02	3.07E-07	0.048885532
-48.0402	48.0402	4.43E-02	5.06E-02	2.47E-07	0.04903369
-47.6202	47.6202	4.34E-02	5.23E-02	2.67E-07	0.049185651
-47.2002	47.2002	4.40E-02	5.27E-02	3.07E-07	0.049341548
-46.7802	46.7802	4.77E-02	5.14E-02	3.21E-07	0.04950152
-46.3602	46.3602	5.12E-02	4.96E-02	3.12E-07	0.049665711
-45.9402	45.9402	5.42E-02	5.00E-02	3.05E-07	0.049834272
-45.5202	45.5202	5.40E-02	5.06E-02	3.06E-07	0.050007361
-45.1002	45.1002	5.22E-02	5.26E-02	2.00E-07	0.050185143
-44.6802	44.6802	5.01E-02	5.18E-02	2.56E-07	0.050367791
-44.2602	44.2602	5.13E-02	5.25E-02	3.38E-07	0.050555486
-43.8402	43.8402	5.24E-02	5.66E-02	2.99E-07	0.050748416
-43.4202	43.4202	5.60E-02	5.61E-02	2.80E-07	0.050946781
-43.0002	43.0002	5.54E-02	5.40E-02	2.42E-07	0.051150787
-42.5802	42.5802	5.79E-02	5.79E-02	2.19E-07	0.051360654
-42.1602	42.1602	5.95E-02	5.84E-02	2.25E-07	0.051576609
-41.7402	41.7402	6.24E-02	5.73E-02	2.31E-07	0.051798893
-41.3202	41.3202	6.32E-02	5.49E-02	2.52E-07	0.052027757
-40.9002	40.9002	6.02E-02	5.27E-02	2.83E-07	0.052263466
-40.4802	40.4802	5.51E-02	5.73E-02	2.14E-07	0.052506299
-40.0602	40.0602	5.09E-02	6.23E-02	2.23E-07	0.052756547
-39.6402	39.6402	5.08E-02	6.21E-02	2.58E-07	0.053014519
-39.2202	39.2202	4.97E-02	6.03E-02	2.29E-07	0.053280539
-38.8002	38.8002	5.39E-02	5.66E-02	2.47E-07	0.053554947
-38.3802	38.3802	5.83E-02	5.79E-02	2.39E-07	0.053838104
-37.9602	37.9602	6.00E-02	5.80E-02	2.20E-07	0.054130389

-37.5402	37.5402	5.72E-02	6.01E-02	2.58E-07	0.054432202
-37.1202	37.1202	5.70E-02	6.04E-02	2.34E-07	0.054743965
-36.7002	36.7002	5.79E-02	6.27E-02	2.22E-07	0.055066124
-36.2802	36.2802	5.95E-02	6.57E-02	2.55E-07	0.055399152
-35.8602	35.8602	5.83E-02	6.46E-02	2.18E-07	0.055743546
-35.4402	35.4402	5.69E-02	6.35E-02	2.06E-07	0.056099835
-35.0202	35.0202	5.96E-02	5.94E-02	1.80E-07	0.056468578
-34.6002	34.6002	6.28E-02	5.96E-02	2.64E-07	0.056850367
-34.1802	34.1802	6.39E-02	6.13E-02	2.21E-07	0.057245831
-33.7602	33.7602	6.24E-02	6.13E-02	1.86E-07	0.057655637
-33.3402	33.3402	6.26E-02	6.11E-02	2.22E-07	0.058080492
-32.9202	32.9202	6.48E-02	6.29E-02	2.09E-07	0.05852115
-32.5002	32.5002	7.02E-02	6.45E-02	2.34E-07	0.058978412
-32.0802	32.0802	6.99E-02	6.41E-02	2.38E-07	0.059453128
-31.6602	31.6602	6.73E-02	6.37E-02	2.62E-07	0.059946208
-31.2402	31.2402	6.29E-02	6.69E-02	2.40E-07	0.06045862
-30.8202	30.8202	6.14E-02	6.88E-02	2.57E-07	0.060991396
-30.4002	30.4002	6.57E-02	7.14E-02	2.83E-07	0.061545639
-29.9802	29.9802	7.31E-02	7.15E-02	2.16E-07	0.062122531
-29.5602	29.5602	7.47E-02	7.07E-02	1.67E-07	0.062723332
-29.1402	29.1402	7.02E-02	6.69E-02	1.40E-07	0.063349394
-28.7202	28.7202	6.78E-02	6.90E-02	1.93E-07	0.064002166
-28.3002	28.3002	6.64E-02	7.53E-02	1.63E-07	0.064683205
-27.8802	27.8802	6.61E-02	7.73E-02	1.78E-07	0.06539418
-27.4602	27.4602	6.79E-02	7.82E-02	1.87E-07	0.066136887
-27.0402	27.0402	6.70E-02	7.26E-02	2.40E-07	0.066913262
-26.6202	26.6202	6.69E-02	7.13E-02	2.49E-07	0.067725389
-26.2002	26.2002	7.02E-02	7.70E-02	2.37E-07	0.068575516
-25.7802	25.7802	7.08E-02	8.32E-02	2.40E-07	0.069466075
-25.3602	25.3602	7.52E-02	9.16E-02	2.58E-07	0.070399693
-24.9402	24.9402	7.91E-02	9.23E-02	1.71E-07	0.071379218
-24.5202	24.5202	7.66E-02	8.92E-02	1.98E-07	0.072407736
-24.1002	24.1002	7.40E-02	8.16E-02	1.94E-07	0.073488601
-23.6802	23.6802	7.60E-02	7.80E-02	1.98E-07	0.074625458
-23.2602	23.2602	7.97E-02	7.43E-02	1.77E-07	0.075822277
-22.8402	22.8402	8.63E-02	7.41E-02	2.24E-07	0.077083391
-22.4202	22.4202	9.05E-02	6.98E-02	1.85E-07	0.078413531
-22.0002	22.0002	9.11E-02	6.76E-02	2.27E-07	0.079817873
-21.5802	21.5802	8.75E-02	7.05E-02	2.32E-07	0.081302092
-21.1602	21.1602	9.20E-02	7.80E-02	1.48E-07	0.082872418
-20.7402	20.7402	9.38E-02	8.87E-02	1.84E-07	0.084535705
-20.3202	20.3202	9.28E-02	9.38E-02	1.99E-07	0.086299504
-19.9002	19.9002	8.90E-02	1.01E-01	1.30E-07	0.088172157

-19.4802	19.4802	8.93E-02	1.07E-01	9.96E-08	0.09016289
-19.0602	19.0602	9.29E-02	1.05E-01	1.74E-07	0.092281934
-18.6402	18.6402	9.64E-02	1.10E-01	1.98E-07	0.094540662
-18.2202	18.2202	9.39E-02	1.13E-01	1.76E-07	0.096951738
-17.8002	17.8002	9.53E-02	1.14E-01	1.50E-07	0.099529304
-17.3802	17.3802	9.81E-02	1.06E-01	2.10E-07	0.102289192
-16.9602	16.9602	1.03E-01	1.08E-01	2.22E-07	0.10524917
-16.5402	16.5402	1.07E-01	1.13E-01	1.83E-07	0.108429239
-16.1202	16.1202	1.20E-01	1.12E-01	1.55E-07	0.111851972
-15.7002	15.7002	1.24E-01	1.15E-01	1.86E-07	0.115542933
-15.2802	15.2802	1.31E-01	1.17E-01	1.55E-07	0.119531159
-14.8602	14.8602	1.22E-01	1.19E-01	1.63E-07	0.123849745
-14.4402	14.4402	1.27E-01	1.17E-01	1.54E-07	0.128536551
-14.0202	14.0202	1.26E-01	1.34E-01	1.90E-07	0.13363505
-13.6002	13.6002	1.29E-01	1.46E-01	2.20E-07	0.139195358
-13.1802	13.1802	1.24E-01	1.56E-01	1.85E-07	0.145275497
-12.7602	12.7602	1.38E-01	1.53E-01	1.97E-07	0.151942948
-12.3402	12.3402	1.54E-01	1.42E-01	2.09E-07	0.159276564
-11.9202	11.9202	1.66E-01	1.55E-01	2.44E-07	0.167368962
-11.5002	11.5002	1.70E-01	1.70E-01	2.36E-07	0.176329518
-11.0802	11.0802	1.66E-01	1.89E-01	2.85E-07	0.186288157
-10.6602	10.6602	1.77E-01	1.94E-01	2.44E-07	0.197400174
-10.2402	10.2402	1.82E-01	1.86E-01	2.31E-07	0.209852449
-9.8202	9.8202	1.95E-01	1.90E-01	2.49E-07	0.223871495
-9.4002	9.4002	2.16E-01	2.04E-01	2.62E-07	0.23973403
-8.9802	8.9802	2.36E-01	2.40E-01	2.19E-07	0.257780978
-8.5602	8.5602	2.49E-01	2.59E-01	2.20E-07	0.278436271
-8.1402	8.1402	2.67E-01	2.80E-01	2.40E-07	0.302232399
-7.7202	7.7202	2.73E-01	2.96E-01	2.45E-07	0.329845651
-7.3002	7.3002	3.20E-01	3.21E-01	3.04E-07	0.362145471
-6.8802	6.8802	3.65E-01	3.73E-01	3.52E-07	0.400264792
-6.4602	6.4602	4.31E-01	4.12E-01	3.56E-07	0.445702181
-6.0402	6.0402	5.05E-01	4.75E-01	3.65E-07	0.50047337
-5.6202	5.6202	5.36E-01	4.96E-01	3.96E-07	0.567341414
-5.2002	5.2002	5.83E-01	5.57E-01	4.89E-07	0.650175741
-4.7802	4.7802	6.81E-01	6.69E-01	6.22E-07	0.754529461
-4.3602	4.3602	7.74E-01	8.13E-01	7.37E-07	0.888600196
-3.9402	3.9402	9.48E-01	9.83E-01	1.03E-06	1.06489417
-3.5202	3.5202	1.62E+00	6.92E-01	2.37E-05	1.30324467
-3.3712	3.3712	1.71E+00	5.70E-01	1.31E-05	1.408341554
-3.2222	3.2222	1.85E+00	5.81E-01	1.49E-05	1.527232171
-3.0732	3.0732	1.94E+00	9.54E-01	1.62E-05	1.662432931
-2.9242	2.9242	2.25E+00	1.64E+00	1.80E-05	1.817056106

-2.7752	2.7752	2.33E+00	2.03E+00	1.94E-05	1.994985122
-2.6262	2.6262	2.10E+00	2.21E+00	2.12E-05	2.201111927
-2.4772	2.4772	2.10E+00	2.28E+00	2.28E-05	2.441662215
-2.3282	2.3282	2.86E+00	2.38E+00	2.48E-05	2.724646553
-2.1792	2.1792	4.69E+00	2.62E+00	2.64E-05	3.060494185
-2.0302	2.0302	5.04E+00	3.26E+00	2.79E-05	3.462955126
-1.8812	1.8812	5.25E+00	3.17E+00	3.24E-05	3.950400669
-1.7322	1.7322	4.52E+00	3.26E+00	6.71E-05	4.547720674
-1.5832	1.5832	5.11E+00	4.33E+00	5.06E-04	5.289118132
-1.4342	1.4342	6.41E+00	6.63E+00	1.09E-03	6.222244503
-1.2852	1.2852	7.30E+00	1.48E+01	2.71E-03	7.414284661
-1.2442	1.2442	5.51E+00	2.75E+01	4.29E-03	7.799565051
-1.2032	1.2032	3.75E+00	4.76E+01	4.62E-03	8.213898536
-1.1622	1.1622	4.26E+00	4.77E+01	5.01E-03	8.65998646
-1.1212	1.1212	6.67E+00	3.35E+01	8.58E-03	9.140798724
-1.0802	1.0802	1.05E+01	2.27E+01	1.00E-02	9.659594443
-1.0392	1.0392	1.42E+01	2.17E+01	1.15E-02	10.21994075
-0.9982	0.9982	1.48E+01	2.84E+01	1.60E-02	10.82572784
-0.9572	0.9572	1.28E+01	3.52E+01	2.28E-02	11.4811776
-0.9162	0.9162	1.02E+01	3.34E+01	3.13E-02	12.19084194
-0.8752	0.8752	7.50E+00	2.33E+01	5.51E-02	12.95958551
-0.8342	0.8342	6.98E+00	1.23E+01	6.51E-02	13.79254573
-0.7932	0.7932	8.53E+00	9.78E+00	6.07E-02	14.6950601
-0.7522	0.7522	9.77E+00	1.19E+01	2.43E-01	15.67254834
-0.7112	0.7112	1.07E+01	1.52E+01	4.04E-01	16.73033256
-0.6702	0.6702	1.08E+01	2.08E+01	6.61E-01	17.87337516
-0.6292	0.6292	9.45E+00	2.24E+01	6.17E-01	19.10590963
-0.5882	0.5882	7.86E+00	2.24E+01	4.24E-01	20.43093659
-0.5472	0.5472	7.19E+00	1.28E+01	3.83E-01	21.84955686
-0.5062	0.5062	5.24E+00	8.26E+00	6.89E-01	23.36011787
-0.4652	0.4652	5.29E+00	8.20E+00	4.97E+00	24.95716387
-0.4242	0.4242	1.05E+01	8.61E+00	2.77E+01	26.63020855
-0.3832	0.3832	2.58E+01	1.11E+01	1.92E+02	28.36239646
-0.3422	0.3422	5.06E+01	1.20E+01	7.59E+02	30.12919108
-0.3312	0.3312	5.72E+01	1.36E+01	1.10E+03	30.60503325
-0.3202	0.3202	8.13E+01	3.01E+01	1.57E+03	31.080268
-0.3092	0.3092	1.19E+02	4.79E+01	2.08E+03	31.55409148
-0.2982	0.2982	1.51E+02	8.42E+01	2.65E+03	32.02565183
-0.2872	0.2872	1.94E+02	1.38E+02	3.69E+03	32.49405005
-0.2762	0.2762	2.49E+02	1.97E+02	3.78E+03	32.95834142
-0.2652	0.2652	3.09E+02	2.73E+02	4.48E+03	33.41753742
-0.2542	0.2542	3.71E+02	3.31E+02	5.25E+03	33.87060824
-0.2432	0.2432	4.32E+02	3.95E+02	5.95E+03	34.31648587

-0.2322	0.2322	5.10E+02	4.63E+02	6.53E+03	34.75406785
-0.2212	0.2212	5.59E+02	5.35E+02	7.19E+03	35.18222163
-0.2102	0.2102	5.97E+02	5.86E+02	7.73E+03	35.59978962
-0.1992	0.1992	6.35E+02	6.15E+02	8.19E+03	36.00559485
-0.1882	0.1882	6.69E+02	6.53E+02	8.67E+03	36.39844726
-0.1772	0.1772	7.08E+02	6.86E+02	9.20E+03	36.77715065
-0.1662	0.1662	7.61E+02	7.24E+02	9.78E+03	37.14051006
-0.1552	0.1552	8.25E+02	7.62E+02	1.05E+04	37.48733981
-0.1442	0.1442	8.91E+02	8.00E+02	1.11E+04	37.81647185
-0.1332	0.1332	9.53E+02	8.55E+02	1.19E+04	38.12676447
-0.1222	0.1222	1.01E+03	9.29E+02	1.26E+04	38.41711129
-0.1112	0.1112	1.07E+03	9.83E+02	1.34E+04	38.68645033
-0.1002	0.1002	1.10E+03	1.05E+03	1.42E+04	38.93377731
-0.0892	0.0892	1.12E+03	1.10E+03	1.49E+04	39.15813352
-0.0782	0.0782	1.12E+03	1.14E+03	1.53E+04	39.35865667
-0.0672	0.0672	1.14E+03	1.19E+03	1.57E+04	39.53454699
-0.0562	0.0562	1.13E+03	1.22E+03	1.59E+04	39.68509603
-0.0452	0.0452	1.12E+03	1.26E+03	1.59E+04	39.80968948
-0.0342	0.0342	1.09E+03	1.28E+03	1.59E+04	39.90781337
-0.0232	0.0232	1.07E+03	1.37E+03	1.60E+04	39.97905934
-0.0122	0.0122	1.05E+03	1.33E+03	1.59E+04	40.02312894
-0.0012	0.0012	1.03E+03	1.35E+03	1.59E+04	40.03983671

**BRDF Oxidized Stainless Steel  
#4, 57 deg incidence  
Backward Scatter**

