Normalized Directional Models

Scanner Index		COS (Sun Zenith Angle) 0.95	0.85	0.75	0.65	0.55	0.43	0.35	0.25	0.15	0.05	Nonscanner Index	
(Clear)	1	1.00000	1.07895	1.19737	1.32895	1.51316	1.75000	2.11842	2.67105	3.52632	4.39474	1	(Ocean)
	2	1.00000	0.97813	1.01875	1.04375	1.09375	1.16438	1.28125	1.44375	1.68750	2.03750	2	(Land)
	3	1.00000	1.00450	1.00899	1.01289	1.01588	1.01738	1.01514	1.00525	0.97437	0.92747	3	(Snow)
	4	1.00000	1.02000	1.04800	1.08300	1.12600	1.17600	1.23400	1.30000	1.37200	1.45300	4	(Desert)
	5+	1.00000	1.01059	1.07627	1.13559	1.22881	1.35297	1.55085	1.83898	2.27966	2.79661		Clear
(Partly Cloudy)	6	1.00000	1.12000	1.20000	1.36000	1.48000	1.72000	2.00000	2.40000	2.92000	3.56000	5	(Ocean)
	7*	1.00000	1.03756	1.07981	1.13146	1.19249	1.29108	1.41315	1.59624	1.77465	2.01174	6	(Land/ Desert)+ + Partly Cloudy
	8*	1.00000	1.03756	1.07981	1.13146	1.19249	1.29108	1.41315	1.59624	1.77465	2.01174		
	9*	1.00000	1.03756	1.07981	1.13146	1.19249	1.29108	1.41315	1.59624	1.77465	2.01174		
	10+	1.00000	1.06805	1.12426	1.21598	1.29882	1.44970	1.63018	1.89349	2.19822	2.58432		
(Mostly Cloudy)	11	1.00000	1.07843	1.13725	1.23529	1.29412	1.43137	1.56863	1.75686	1.96078	2.19608	7	(Ocean)
	12*	1.00000	1.04700	1.10300	1.17000	1.24400	1.33200	1.42800	1.53400	1.65000	1.77500	8	(Land/ Desert)+ + Mostly Cloudy
	13*	1.00000	1.04700	1.10300	1.17000	1.24400	1.33200	1.42800	1.53400	1.65000	1.77500		
	14*	1.00000	1.04700	1.10300	1.17000	1.24400	1.33200	1.42800	1.53400	1.65000	1.77500		
	15+	1.00000	1.08468	1.16216	1.25586	1.35135	1.46613	1.61171	1.77658	1.94685	2.14775		
(Over-Cast)	16	1.00000	1.02353	1.07059	1.12941	1.17647	1.24706	1.31765	1.38824	1.45882	1.51765	9	Overcast

Direction Model Index Selection for Scanner Measurements

Geotype (G) =	1 (Ocean)	and f_i =	1 (Clear)	Then if f_i =	1, INDEX = G
	2 (Land)		2 (Partly cloudy)		2, INDEX = G + 5
	3 (Snow)		3 (Mostly cloudy)		3, INDEX = G + 10
	4 (Desert)		4 (Overcast)		4, INDEX = 16
	5 (Land/Ocean)+				

* Storing separate but equal models for land, snow, desert, and land/desert mix makes easier the generation of a scanner model index from cloud and geotype information.

+ These are linear composit models (50-50 for each constituent), not independent models, which function as separate scene types for scanner processing.

++ Snow geotypes must be either clear or overcast.