a	b	c	d	e
Data Set	Input1_InterferenceFilterSpectra			
Cone sensitivitie	H_ismenius_Palacios1996.csv			
Ocular Media	Disregarded			
Irradiance Spec	Daylight			
Von Kreis Trans	TRUE			
Von Kreis Denoı	0.2005609	0.5883512	0.7572052	

	700 nm	690 nm	680 nm	671 nm	660 nm	650 nm	640 nm	632 nm	620 nm	610 nm	600 nm	589 nm	580 nm	570 nm	560 nm	550 nm	540 nm	532 nm	520 nm	510 nm	500 nm
700 nm	0	3.94288	9.115	15.44982	20.61568	26.30776	30.22253	33.41125	35.7034	37.59709	38.52138	38.35808	37.74039	35.79891	32.53766	28.06454	22.76566	19.39229	12.18232	8.82514	4.77627
690 nm	3.94288	0	5.10385	11.39573	16.572	22.32467	26.3063	29.5831	31.98142	34.01887	35.09065	35.12348	34.64512	32.96241	30.02362	25.9217	21.02226	17.88953	11.18845	8.09253	4.36087
680 nm	9.115	5.10385	0	6.4719	11.88819	17.94999	22.15601	25.63284	28.19984	30.41121	31.62115	31.79262	31.40143	29.8706	27.12811	23.28893	18.75624	15.89533	9.8507	7.10151	3.79951
671 nm	15.44982	11.39573	6.4719	0	5.62327	12.04056	16.52684	20.2609	23.0498	25.497	26.90144	27.27348	27.01053	25.70348	23.25385	19.82061	15.8362	13.35418	8.17167	5.85452	3.09596
660 nm	20.61568	16.572	11.88819	5.62327	0	6.59985	11.28355	15.2214	18.19917	20.85987	22.45221	23.03051	22.90488	21.84644	19.733	16.74892	13.3037	11.16825	6.74785	4.79297	2.50176
650 nm	26.30776	22.32467	17.94999	12.04056	6.59985	0	4.81094	8.93807	12.12074	15.03378	16.86459	17.72357	17.79354	17.10131	15.47576	13.09594	10.32445	8.61156	5.11595	3.57122	1.83491
640 nm	30.22253	26.3063	22.15601	16.52684	11.28355	4.81094	0	4.21111	7.52335	10.61712	12.6304	13.71532	13.9465	13.55728	12.32369	10.41286	8.15382	6.76336	3.9844	2.72648	1.41686
632 nm	33.41125	29.5831	25.63284	20.2609	15.2214	8.93807	4.21111	0	3.38839	6.6289	8.80685	10.10529	10.48986	10.38641	9.51519	8.03621	6.25202	5.16703	3.09587	2.09283	1.21984
620 nm	35.7034	31.98142	28.19984	23.0498	18.19917	12.12074	7.52335	3.38839	0	3.32698	5.63541	7.1158	7.63158	7.77101	7.206	6.09894	4.73762	3.93934	2.5806	1.82766	1.37752
610 nm	37.59709	34.01887	30.41121	25.497	20.85987	15.03378	10.61712	6.6289	3.32698	0	2.40573	4.06587	4.71722	5.11012	4.86916	4.17838	3.3331	2.91641	2.49251	2.06321	1.97561
600 nm	38.52138	35.09065	31.62115	26.90144	22.45221	16.86459	12.6304	8.80685	5.63541	2.40573	0	1.76277	2.51166	3.10051	3.12452	2.81452	2.50453	2.48233	2.79826	2.60746	2.70417
589 nm	38.35808	35.12348	31.79262	27.27348	23.03051	17.72357	13.71532	10.10529	7.1158	4.06587	1.76277	0	0.80126	1.53972	1.80959	1.91636	2.19732	2.51866	3.326	3.35068	3.62376
580 nm	37.74039	34.64512	31.40143	27.01053	22.90488	17.79354	13.9465	10.48986	7.63158	4.71722	2.51166	0.80126	0	0.79394	1.20254	1.56604	2.14864	2.60544	3.6036	3.74724	4.12512
570 nm	35.79891	32.96241	29.8706	25.70348	21.84644	17.10131	13.55728	10.38641	7.77101	5.11012	3.10051	1.53972	0.79394	0	0.56396	1.21405	2.08772	2.67169	3.8973	4.22924	4.78299
560 nm	32.53766	30.02362	27.12811	23.25385	19.733	15.47576	12.32369	9.51519	7.206	4.86916	3.12452	1.80959	1.20254	0.56396	0	0.74326	1.75779	2.41839	3.82504	4.33003	5.04515
550 nm	28.06454	25.9217	23.28893	19.82061	16.74892	13.09594	10.41286	8.03621	6.09894	4.17838	2.81452	1.91636	1.56604	1.21405	0.74326	0	1.09617	1.81697	3.3914	4.05762	4.9243
540 nm	22.76566	21.02226	18.75624	15.8362	13.3037	10.32445	8.15382	6.25202	4.73762	3.3331	2.50453	2.19732	2.14864	2.08772	1.75779	1.09617	0	0.73745	2.38676	3.14361	4.08078
532 nm	19.39229	17.88953	15.89533	13.35418	11.16825	8.61156	6.76336	5.16703	3.93934	2.91641	2.48233	2.51866	2.60544	2.67169	2.41839	1.81697	0.73745	0	1.67834	2.4817	3.45251
520 nm	12.18232	11.18845	9.8507	8.17167	6.74785	5.11595	3.9844	3.09587	2.5806	2.49251	2.79826	3.326	3.6036	3.8973	3.82504	3.3914	2.38676	1.67834	0	0.88108	1.89833
510 nm	8.82514	8.09253	7.10151	5.85452	4.79297	3.57122	2.72648	2.09283	1.82766	2.06321	2.60746	3.35068	3.74724	4.22924	4.33003	4.05762	3.14361	2.4817	0.88108	0	0.98409
500 nm	4.77627	4.36087	3.79951	3.09596	2.50176	1.83491	1.41686	1.21984	1.37752	1.97561	2.70417	3.62376	4.12512	4.78299	5.04515	4.9243	4.08078	3.45251	1.89833	0.98409	0
492 nm	1.56306	1.4163	1.22134	0.98387	0.79021	0.56846	0.38421	0.18036	0.40519	1.18887	2.1031	3.30498	3.98683	4.94005	5.46163	5.56866	4.8375	4.2637	2.79941	1.87221	0.93509
480 nm	1.57757	1.37988	1.30174	1.50527	1.83237	2.22404	2.40699	2.3451	1.92037	0.91932	0.53434	2.20788	3.22859	4.71215	5.67039	6.13445	5.57602	5.08472	3.75539	2.81089	1.95314
470 nm	2.87387	2.74157	2.83713	3.31552	3.89415	4.57768	4.9489	4.99437	4.55588	3.36514	1.9214	1.38817	2.44422	4.31453	5.622	6.35325	5.93162	5.50889	4.29899	3.35534	2.56779
460 nm	3.52462	3.58642	3.92387	4.63746	5.36943	6.20196	6.67019	6.79051	6.39045	5.16024	3.52992	1.80699	2.17378	4.03474	5.50652	6.358	6.01779	5.64314	4.53317	3.61978	2.89093
450 nm	4.07631	4.40059	4.96888	5.82243	6.59928	7.46041	7.97436	8.20334	8.0013	7.05975	5.52459	3.11985	2.26324	3.44699	5.02496	5.94036	5.68911	5.38182	4.44173	3.62253	3.00063
440 nm	3.8291	4.21787	4.79795	5.58752	6.27532	7.03678	7.51845	7.81042	7.8263	7.37835	6.37348	4.17206	2.65808	2.6545	4.32365	5.2567	5.06069	4.80559	4.01234	3.28593	2.75895
430 nm	2.55522	2.79755	3.13491	3.5745	3.95047	4.3695	4.64755	4.84999	4.95673	4.9513	4.75731	4.00091	2.96383	1.55516	3.12248	3.68299	3.50873	3.33627	2.83801	2.37765	2.00924
420 nm	1.95238	2.01286	2.08554	2.17183	2.23946	2.30478	2.3387	2.3498	2.33756	2.29203	2.20998	2.01268	1.69812	0.89663	1.62435	1.6789	1.56177	1.48439	1.30145	1.134	0.96034
410 nm	1.44477	1.5818	1.7651	1.99647	2.19078	2.4061	2.55021	2.65983	2.7297	2.77004	2.75779	2.63946	2.41061	0.87537	2.09324	2.27167	2.13677	2.03472	1.78337	1.57994	1.35941
400 nm	3.1007	3.25857	3.46207	3.71564	3.92564	4.15005	4.29039	4.38021	4.41155	4.37143	4.23293	3.82356	3.27778	1.81714	2.57973	3.09289	2.95481	2.8196	2.44784	2.07404	1.71541
390 nm	5.94846	6.11133	6.29275	6.49017	6.62811	6.7312	6.74943	6.68639	6.53148	6.19396	5.68745	4.70372	3.85073	2.59116	2.85623	3.39462	3.28741	3.14798	2.73549	2.29989	1.77885
380 nm	8.49127	8.67403	8.85384	9.01833	9.09892	9.08595	8.972	8.72727	8.33276	7.60447	6.65444	5.14275	4.12167	2.95662	3.07354	3.50493	3.40755	3.27473	2.87818	2.49366	1.95216
370 nm	9.71788	9.91153	10.0906	10.23676	10.2844	10.20215	10.00664	9.6469	9.09855	8.12786	6.93158	5.18864	4.12411	3.01879	3.10408	3.47868	3.38048	3.25228	2.87706	2.53745	2.0359
360 nm	10.98642	11.17881	11.33649	11.43161	11.41181	11.21001	10.88749	10.36328	9.61178	8.34493	6.86648	4.8534	3.67664	2.44105	2.48444	2.85847	2.76088	2.63832	2.31196	2.07047	1.76265
350 nm	12.47167	12.66765	12.80802	12.85369	12.76322	12.42794	11.95751	11.2367	10.24008	8.62053	6.80765	4.43092	3.01333	1.15777	1.08761	1.68788	1.57317	1.42119	1.04313	0.83603	0.73452
340 nm	13.71448	13.92926	14.08155	14.12637	14.01707	13.62231	13.06936	12.22335	11.05839	9.19709	7.17361	4.61393	3.13354	1.21602	1.05342	1.65215	1.54665	1.39913	1.03	0.82841	0.7303
330 nm	16.08676	16.36736	16.59341	16.71491	16.64598	16.23126	15.59183	14.57317	13.15099	10.93729	8.6792	6.0984	4.84507	3.69913	3.62974	3.86669	3.7739	3.65329	3.27612	2.94309	2.35213
320 nm	18.61316	18.9819	19.31707	19.56319	19.57098	19.15873	18.43563	17.23593	15.54605	13.00181	10.58144	8.06799	7.00739	6.1634	6.12277	6.26104	6.08404	5.87703	5.11897	4.36913	3.02126
310 nm	27.09605	27.70108	28.30611	28.77231	28.7667	27.92712	26.60302	24.55046	21.87958	18.42799	15.78154	13.5818	12.87056	12.37112	12.24204	11.98136	11.14921	10.37984	7.90569	6.00357	3.47078
300 nm	15.34526	15.70482	16.21699	16.96748	17.60867	18.09225	18.0837	17.55749	16.57996	15.33848	14.62217	14.21372	14.2032	14.22654	14.04433	13.39413	12.09708	11.01369	7.90466	5.921	3.33378

	492 nm	480 nm	470 nm	460 nm	450 nm	440 nm	430 nm	420 nm	410 nm	400 nm	390 nm	380 nm	370 nm	360 nm	350 nm	340 nm	330 nm	320 nm	310 nm	300 nm
700 nm	1.56306	1.57757	2.87387	3.52462	4.07631	3.8291	2.55522	1.95238	1.44477	3.1007	5.94846	8.49127	9.71788	10.98642	12.47167	13.71448	16.08676	18.61316	27.09605	15.34526
690 nm	1.4163	1.37988	2.74157	3.58642	4.40059	4.21787	2.79755	2.01286	1.5818	3.25857	6.11133	8.67403	9.91153	11.17881	12.66765	13.92926	16.36736	18.9819	27.70108	15.70482
680 nm	1.22134	1.30174	2.83713	3.92387	4.96888	4.79795	3.13491	2.08554	1.7651	3.46207	6.29275	8.85384	10.0906	11.33649	12.80802	14.08155	16.59341	19.31707	28.30611	16.21699
671 nm	0.98387	1.50527	3.31552	4.63746	5.82243	5.58752	3.5745	2.17183	1.99647	3.71564	6.49017	9.01833	10.23676	11.43161	12.85369	14.12637	16.71491	19.56319	28.77231	16.96748
660 nm	0.79021	1.83237	3.89415	5.36943	6.59928	6.27532	3.95047	2.23946	2.19078	3.92564	6.62811	9.09892	10.2844	11.41181	12.76322	14.01707	16.64598	19.57098	28.7667	17.60867
650 nm	0.56846	2.22404	4.57768	6.20196	7.46041	7.03678	4.3695	2.30478	2.4061	4.15005	6.7312	9.08595	10.20215	11.21001	12.42794	13.62231	16.23126	19.15873	27.92712	18.09225
640 nm	0.38421	2.40699	4.9489	6.67019	7.97436	7.51845	4.64755	2.3387	2.55021	4.29039	6.74943	8.972	10.00664	10.88749	11.95751	13.06936	15.59183	18.43563	26.60302	18.0837
632 nm	0.18036	2.3451	4.99437	6.79051	8.20334	7.81042	4.84999	2.3498	2.65983	4.38021	6.68639	8.72727	9.6469	10.36328	11.2367	12.22335	14.57317	17.23593	24.55046	17.55749
620 nm	0.40519	1.92037	4.55588	6.39045	8.0013	7.8263	4.95673	2.33756	2.7297	4.41155	6.53148	8.33276	9.09855	9.61178	10.24008	11.05839	13.15099	15.54605	21.87958	16.57996
610 nm	1.18887	0.91932	3.36514	5.16024	7.05975	7.37835	4.9513	2.29203	2.77004	4.37143	6.19396	7.60447	8.12786	8.34493	8.62053	9.19709	10.93729	13.00181	18.42799	15.33848
600 nm	2.1031	0.53434	1.9214	3.52992	5.52459	6.37348	4.75731	2.20998	2.75779	4.23293	5.68745	6.65444	6.93158	6.86648	6.80765	7.17361	8.6792	10.58144	15.78154	14.62217
589 nm	3.30498	2.20788	1.38817	1.80699	3.11985	4.17206	4.00091	2.01268	2.63946	3.82356	4.70372	5.14275	5.18864	4.8534	4.43092	4.61393	6.0984	8.06799	13.5818	14.21372
580 nm	3.98683	3.22859	2.44422	2.17378	2.26324	2.65808	2.96383	1.69812	2.41061	3.27778	3.85073	4.12167	4.12411	3.67664	3.01333	3.13354	4.84507	7.00739	12.87056	14.2032
570 nm	4.94005	4.71215	4.31453	4.03474	3.44699	2.6545	1.55516	0.89663	0.87537	1.81714	2.59116	2.95662	3.01879	2.44105	1.15777	1.21602	3.69913	6.1634	12.37112	14.22654
560 nm	5.46163	5.67039	5.622	5.50652	5.02496	4.32365	3.12248	1.62435	2.09324	2.57973	2.85623	3.07354	3.10408	2.48444	1.08761	1.05342	3.62974	6.12277	12.24204	14.04433
550 nm	5.56866	6.13445	6.35325	6.358	5.94036	5.2567	3.68299	1.6789	2.27167	3.09289	3.39462	3.50493	3.47868	2.85847	1.68788	1.65215	3.86669	6.26104	11.98136	13.39413
540 nm	4.8375	5.57602	5.93162	6.01779	5.68911	5.06069	3.50873	1.56177	2.13677	2.95481	3.28741	3.40755	3.38048	2.76088	1.57317	1.54665	3.7739	6.08404	11.14921	12.09708
532 nm	4.2637	5.08472	5.50889	5.64314	5.38182	4.80559	3.33627	1.48439	2.03472	2.8196	3.14798	3.27473	3.25228	2.63832	1.42119	1.39913	3.65329	5.87703	10.37984	11.01369
520 nm	2.79941	3.75539	4.29899	4.53317	4.44173	4.01234	2.83801	1.30145	1.78337	2.44784	2.73549	2.87818	2.87706	2.31196	1.04313	1.03	3.27612	5.11897	7.90569	7.90466
510 nm	1.87221	2.81089	3.35534	3.61978	3.62253	3.28593	2.37765	1.134	1.57994	2.07404	2.29989	2.49366	2.53745	2.07047	0.83603	0.82841	2.94309	4.36913	6.00357	5.921
500 nm	0.93509	1.95314	2.56779	2.89093	3.00063	2.75895	2.00924	0.96034	1.35941	1.71541	1.77885	1.95216	2.0359	1.76265	0.73452	0.7303	2.35213	3.02126	3.47078	3.33378
492 nm	0	1.03492	1.67876	2.04493	2.26648	2.1396	1.57992	0.70663	1.06101	1.25341	0.7899	0.329	0.41682	0.57648	0.51262	0.53775	0.97361	1.09435	1.20459	1.03231
480 nm	1.03492	0	0.67927	1.10861	1.50675	1.58251	1.27016	0.52651	0.94642	1.33424	1.5362	1.63143	1.63219	1.37962	0.5753	0.56341	1.80305	2.30699	2.65807	1.428
470 nm	1.67876	0.67927	0	0.46813	0.99929	1.22273	1.06902	0.45916	0.84824	1.23844	1.48963	1.62617	1.63842	1.31893	0.53552	0.50474	1.78626	2.63197	3.53872	1.99395
460 nm	2.04493	1.10861	0.46813	0	0.59115	0.89077	0.85233	0.36658	0.73699	1.09057	1.32834	1.46467	1.48324	1.19758	0.55965	0.50644	1.55472	2.37168	3.39977	1.89382
450 nm	2.26648	1.50675	0.99929	0.59115	0	0.3612	0.49312	0.20018	0.58783	0.8771	1.0878	1.21903	1.24737	1.04039	0.62118	0.53007	1.14086	1.7138	2.45027	1.55637
440 nm	2.1396	1.58251	1.22273	0.89077	0.3612	0	0.23057	0.07833	0.48814	0.72363	0.90901	1.0281	1.0562	0.90058	0.59459	0.47514	0.78837	1.13171	1.53531	1.39391
430 nm	1.57992	1.27016	1.06902	0.85233	0.49312	0.23057	0	0.02349	0.35475	0.52271	0.67547	0.77482	0.79636	0.69155	0.48327	0.33971	0.34814	0.43599	0.51912	1.04265
420 nm	0.70663	0.52651	0.45916	0.36658	0.20018	0.07833	0.02349	0	0.27194	0.4155	0.56235	0.66125	0.68536	0.61433	0.46817	0.35052	0.26646	0.24029	0.20902	0.79117
410 nm	1.06101	0.94642	0.84824	0.73699	0.58783	0.48814	0.35475	0.27194	0	0.125	0.26855	0.36274	0.38163	0.33912	0.2525	0.17794	0.1299	0.1096	0.08814	0.69173
400 nm	1.25341	1.33424	1.23844	1.09057	0.8771	0.72363	0.52271	0.4155	0.125	0	0.14879	0.25668	0.29402	0.29288	0.2763	0.26238	0.25754	0.24325	0.2021	1.33267
390 nm	0.7899	1.5362	1.48963	1.32834	1.0878	0.90901	0.67547	0.56235	0.26855	0.14879	0	0.14238	0.23588	0.32277	0.40176	0.4354	0.44102	0.40974	0.31723	2.28205
380 nm	0.329	1.63143	1.62617	1.46467	1.21903	1.0281	0.77482	0.66125	0.36274	0.25668	0.14238	0	0.12722	0.26194	0.38513	0.43689	0.43866	0.39014	0.27128	2.98877
370 nm	0.41682	1.63219	1.63842	1.48324	1.24737	1.0562	0.79636	0.68536	0.38163	0.29402	0.23588	0.12722	0	0.14219	0.27412	0.32968	0.32642	0.27547	0.22451	3.22421
360 nm	0.57648	1.37962	1.31893	1.19758	1.04039	0.90058	0.69155	0.61433	0.33912	0.29288	0.32277	0.26194	0.14219	0	0.13387	0.18853	0.1774	0.14407	0.29458	3.39247
350 nm	0.51262	0.5753	0.53552	0.55965	0.62118	0.59459	0.48327	0.46817	0.2525	0.2763	0.40176	0.38513	0.27412	0.13387	0	0.05251	0.05769	0.15179	0.46691	3.61326
340 nm	0.53775	0.56341	0.50474	0.50644	0.53007	0.47514	0.33971	0.35052	0.17794	0.26238	0.4354	0.43689	0.32968	0.18853	0.05251	0	0.0599	0.19644	0.55917	3.89862
330 nm	0.97361	1.80305	1.78626	1.55472	1.14086	0.78837	0.34814	0.26646	0.1299	0.25754	0.44102	0.43866	0.32642	0.1774	0.05769	0.0599	0	0.15285	0.57543	4.60485
320 nm	1.09435	2.30699	2.63197	2.37168	1.7138	1.13171	0.43599	0.24029	0.1096	0.24325	0.40974	0.39014	0.27547	0.14407	0.15179	0.19644	0.15285	0	0.46103	5.39793
310 nm	1.20459	2.65807	3.53872	3.39977	2.45027	1.53531	0.51912	0.20902	0.08814	0.2021	0.31723	0.27128	0.22451	0.29458	0.46691	0.55917	0.57543	0.46103	0	7.35939
300 nm	1.03231	1.428	1.99395	1.89382	1.55637	1.39391	1.04265	0.79117	0.69173	1.33267	2.28205	2.98877	3.22421	3.39247	3.61326	3.89862	4.60485	5.39793	7.35939	0