a	b	c	d	e
Data Set	Input1_InterferenceFilterSpectra			
Cone sensitivitie	H_melpomene_Palacios1996.csv			
Ocular Media	Disregarded			
Irradiance Spec	Daylight			
Von Kreis Trans	TRUE			
Von Kreis Denoi	0.2005609	0.6604168	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
700 nm	0	4.28619	9.93622	16.81051	22.33335	28.15866	31.83608	34.38055	35.59935	35.67465	34.54048	31.81095	29.56533	25.20913	20.06374
690 nm	4.28619	0	5.55329	12.35576	17.87694	23.77156	27.54804	30.24394	31.66745	32.04695	31.23261	28.91176	26.93477	23.02343	18.33617
680 nm	9.93622	5.55329	0	6.98026	12.74219	18.95041	22.96076	25.87941	27.51699	28.16156	27.60679	25.61898	23.87523	20.38237	16.17428
671 nm	16.81051	12.35576	6.98026	0	5.98056	12.57506	16.90043	20.12941	22.07084	23.09392	22.90776	21.38357	19.95822	17.02502	13.44655
660 nm	22.33335	17.87694	12.74219	5.98056	0	6.80966	11.38054	14.88464	17.11473	18.5093	18.68811	17.617	16.49679	14.08839	11.08758
650 nm	28.15866	23.77156	18.95041	12.57506	6.80966	0	4.75033	8.54307	11.11909	12.98014	13.62447	13.12892	12.39232	10.63405	8.33579
640 nm	31.83608	27.54804	22.96076	16.90043	11.38054	4.75033	0	3.93115	6.73709	8.93799	9.93085	9.86676	9.41629	8.13813	6.35431
632 nm	34.38055	30.24394	25.87941	20.12941	14.88464	8.54307	3.93115	0	2.94352	5.4167	6.71187	7.02711	6.8279	5.96857	4.6342
620 nm	35.59935	31.66745	27.51699	22.07084	17.11473	11.11909	6.73709	2.94352	0	2.62666	4.14748	4.76294	4.76394	4.23754	3.26503
610 nm	35.67465	32.04695	28.16156	23.09392	18.5093	12.98014	8.93799	5.4167	2.62666	0	1.67563	2.56194	2.75377	2.55018	1.94734
600 nm	34.54048	31.23261	27.60679	22.90776	18.68811	13.62447	9.93085	6.71187	4.14748	1.67563	0	1.0229	1.33706	1.36129	1.07378
589 nm	31.81095	28.91176	25.61898	21.38357	17.617	13.12892	9.86676	7.02711	4.76294	2.56194	1.0229	0	0.37119	0.55871	0.64541
580 nm	29.56533	26.93477	23.87523	19.95822	16.49679	12.39232	9.41629	6.8279	4.76394	2.75377	1.33706	0.37119	0	0.25753	0.56816
570 nm	25.20913	23.02343	20.38237	17.02502	14.08839	10.63405	8.13813	5.96857	4.23754	2.55018	1.36129	0.55871	0.25753	0	0.43843
560 nm	20.06374	18.33617	16.17428	13.44655	11.08758	8.33579	6.35431	4.6342	3.26503	1.94734	1.07378	0.64541	0.56816	0.43843	0
550 nm	14.78999	13.48249	11.80546	9.71107	7.92432	5.86285	4.39435	3.14076	2.18327	1.39719	1.13245	1.22566	1.27932	1.20055	0.76957
540 nm	9.98972	9.04862	7.82846	6.32471	5.0627	3.63797	2.66425	1.90911	1.48283	1.44074	1.69101	2.01148	2.13233	2.14213	1.79317
532 nm	7.42063	6.67324	5.70591	4.52826	3.55862	2.50504	1.85167	1.46722	1.42736	1.71826	2.09502	2.48645	2.64391	2.71929	2.43656
520 nm	2.92999	2.51951	2.00387	1.42391	1.04206	0.8961	1.06914	1.37736	1.74877	2.28041	2.78709	3.34409	3.61134	3.885	3.79717
510 nm	1.11486	0.90292	0.64069	0.37574	0.32265	0.5308	0.77518	1.06697	1.43193	2.01036	2.6122	3.3397	3.72264	4.19457	4.29384
500 nm	1.31187	1.14163	0.9288	0.6949	0.55156	0.53031	0.66628	0.92674	1.31932	1.98967	2.71445	3.62413	4.12312	4.78591	5.0581
492 nm	2.22611	1.95149	1.59335	1.15642	0.79685	0.40785	0.17872	0.24309	0.60977	1.35918	2.24488	3.41751	4.0901	5.03632	5.56133
480 nm	2.63164	2.24291	1.85506	1.67906	1.8275	2.18563	2.41973	2.44956	2.17119	1.59374	1.58429	2.72311	3.6131	4.98634	5.90317
470 nm	2.30705	2.1508	2.32996	2.99053	3.71065	4.52669	4.97874	5.09325	4.72655	3.67971	2.5259	2.20705	2.9902	4.64011	5.88103
460 nm	2.16834	2.44102	3.12211	4.18994	5.13691	6.14737	6.71017	6.8949	6.5375	5.3557	3.80108	2.25847	2.54807	4.25818	5.70769
450 nm	2.29515	2.98158	3.95842	5.19728	6.22116	7.30832	7.95647	8.28587	8.14848	7.23102	5.63573	2.97069	1.85817	3.26921	5.06409
440 nm	2.16154	2.86929	3.78548	4.89541	5.79925	6.77205	7.38985	7.79594	7.90436	7.5398	6.54398	4.08157	2.01489	1.93386	4.24407
430 nm	1.85161	2.18317	2.632	3.1943	3.66229	4.17887	4.52352	4.78365	4.93865	4.98568	4.8371	4.12637	3.08232	1.457	3.21931
420 nm	1.58687	1.63667	1.70669	1.79998	1.87911	1.96494	2.01902	2.05222	2.06229	2.04514	1.99226	1.84443	1.61991	1.14008	1.55792
410 nm	3.73352	3.78741	3.8532	3.9294	3.97933	4.0092	4.00306	3.95528	3.86286	3.67851	3.41311	2.91495	2.49517	2.00259	2.22567
400 nm	4.81101	4.89636	5.00478	5.1359	5.2304	5.30406	5.31929	5.27185	5.15186	4.89122	4.51508	3.85902	3.39574	2.91446	3.03888
390 nm	6.46494	6.54787	6.64384	6.74677	6.80115	6.80138	6.73747	6.58317	6.32577	5.85463	5.27016	4.43867	3.96819	3.5317	3.54784
380 nm	7.73589	7.81118	7.88774	7.95301	7.95851	7.87335	7.7199	7.44879	7.04756	6.37518	5.62335	4.69651	4.2427	3.85479	3.83097
370 nm	8.21857	8.28669	8.34886	8.38885	8.3639	8.22837	8.02416	7.68967	7.21433	6.44625	5.62521	4.67311	4.23398	3.87383	3.84354
360 nm	8.73293	8.76974	8.77937	8.73655	8.62282	8.35702	8.0347	7.56863	6.95449	6.0104	5.03638	3.9469	3.45009	3.05121	3.02868
350 nm	9.4612	9.4635	9.41375	9.27475	9.05469	8.62697	8.15217	7.5096	6.70029	5.48668	4.2308	2.75627	1.97591	1.18512	1.15244
340 nm	10.19794	10.1992	10.14399	9.99141	9.75003	9.27825	8.75223	8.03939	7.14254	5.80934	4.45039	2.87997	2.05639	1.20566	1.14488
330 nm	11.92598	11.98489	12.0134	11.97558	11.83184	11.45362	10.97104	10.26039	9.32783	7.97272	6.7147	5.47704	4.9764	4.56657	4.46796
320 nm	13.91096	14.06845	14.24362	14.40753	14.43522	14.22158	13.82062	13.13023	12.16134	10.77609	9.58311	8.48276	8.05884	7.64274	7.36618
310 nm	20.65986	21.10197	21.68737	22.34849	22.69854	22.61608	22.14824	21.21893	19.92088	18.32404	17.19108	16.08406	15.50535	14.44316	13.0284
300 nm	10.71456	11.05583	11.82735	13.16993	14.46775	15.91429	16.76769	17.17419	17.10436	16.73613	16.39029	15.82433	15.39965	14.34998	12.69597

	550 nm	540 nm	532 nm	520 nm	510 nm	500 nm	492 nm	480 nm	470 nm	460 nm	450 nm	440 nm	430 nm
700 nm	14.78999	9.98972	7.42063	2.92999	1.11486	1.31187	2.22611	2.63164	2.30705	2.16834	2.29515	2.16154	1.85161
690 nm	13.48249	9.04862	6.67324	2.51951	0.90292	1.14163	1.95149	2.24291	2.1508	2.44102	2.98158	2.86929	2.18317
680 nm	11.80546	7.82846	5.70591	2.00387	0.64069	0.9288	1.59335	1.85506	2.32996	3.12211	3.95842	3.78548	2.632
671 nm	9.71107	6.32471	4.52826	1.42391	0.37574	0.6949	1.15642	1.67906	2.99053	4.18994	5.19728	4.89541	3.1943
660 nm	7.92432	5.0627	3.55862	1.04206	0.32265	0.55156	0.79685	1.8275	3.71065	5.13691	6.22116	5.79925	3.66229
650 nm	5.86285	3.63797	2.50504	0.8961	0.5308	0.53031	0.40785	2.18563	4.52669	6.14737	7.30832	6.77205	4.17887
640 nm	4.39435	2.66425	1.85167	1.06914	0.77518	0.66628	0.17872	2.41973	4.97874	6.71017	7.95647	7.38985	4.52352
632 nm	3.14076	1.90911	1.46722	1.37736	1.06697	0.92674	0.24309	2.44956	5.09325	6.8949	8.28587	7.79594	4.78365
620 nm	2.18327	1.48283	1.42736	1.74877	1.43193	1.31932	0.60977	2.17119	4.72655	6.5375	8.14848	7.90436	4.93865
610 nm	1.39719	1.44074	1.71826	2.28041	2.01036	1.98967	1.35918	1.59374	3.67971	5.3557	7.23102	7.5398	4.98568
600 nm	1.13245	1.69101	2.09502	2.78709	2.6122	2.71445	2.24488	1.58429	2.5259	3.80108	5.63573	6.54398	4.8371
589 nm	1.22566	2.01148	2.48645	3.34409	3.3397	3.62413	3.41751	2.72311	2.20705	2.25847	2.97069	4.08157	4.12637
580 nm	1.27932	2.13233	2.64391	3.61134	3.72264	4.12312	4.0901	3.6131	2.9902	2.54807	1.85817	2.01489	3.08232
570 nm	1.20055	2.14213	2.71929	3.885	4.19457	4.78591	5.03632	4.98634	4.64011	4.25818	3.26921	1.93386	1.457
560 nm	0.76957	1.79317	2.43656	3.79717	4.29384	5.0581	5.56133	5.90317	5.88103	5.70769	5.06409	4.24407	3.21931
550 nm	0	1.10239	1.81156	3.36122	4.03073	4.95193	5.67761	6.35486	6.59947	6.57863	6.09899	5.38328	3.82522
540 nm	1.10239	0	0.72732	2.35707	3.12207	4.11683	4.95789	5.81055	6.19718	6.26415	5.88305	5.22006	3.64992
532 nm	1.81156	0.72732	0	1.65719	2.46896	3.49564	4.39236	5.33196	5.79263	5.91037	5.5962	4.97908	3.47453
520 nm	3.36122	2.35707	1.65719	0	0.88807	1.95219	2.94035	4.03218	4.63419	4.8617	4.71628	4.23301	2.97814
510 nm	4.03073	3.12207	2.46896	0.88807	0	1.02921	2.01113	3.11005	3.73695	4.00301	3.94936	3.55547	2.55333
500 nm	4.95193	4.11683	3.49564	1.95219	1.02921	0	1.03142	2.22759	2.9537	3.30096	3.38117	3.10216	2.24917
492 nm	5.67761	4.95789	4.39236	2.94035	2.01113	1.03142	0	1.23499	2.02535	2.44101	2.66165	2.52093	1.89119
480 nm	6.35486	5.81055	5.33196	4.03218	3.11005	2.22759	1.23499	0	0.85401	1.35707	1.7799	1.85365	1.51446
470 nm	6.59947	6.19718	5.79263	4.63419	3.73695	2.9537	2.02535	0.85401	0	0.54904	1.11784	1.35304	1.20999
460 nm	6.57863	6.26415	5.91037	4.8617	4.00301	3.30096	2.44101	1.35707	0.54904	0	0.63511	0.95633	0.94197
450 nm	6.09899	5.88305	5.5962	4.71628	3.94936	3.38117	2.66165	1.7799	1.11784	0.63511	0	0.3826	0.53473
440 nm	5.38328	5.22006	4.97908	4.23301	3.55547	3.10216	2.52093	1.85365	1.35304	0.95633	0.3826	0	0.24806
430 nm	3.82522	3.64992	3.47453	2.97814	2.55333	2.24917	1.89119	1.51446	1.20999	0.94197	0.53473	0.24806	0
420 nm	1.54579	1.43077	1.3637	1.20915	1.0848	0.94782	0.79724	0.63816	0.50405	0.3872	0.21293	0.09323	0.0259
410 nm	2.38027	2.2441	2.14003	1.87912	1.66563	1.48427	1.29698	1.11529	0.94717	0.81246	0.63712	0.5125	0.35618
400 nm	3.22041	3.07754	2.94579	2.56329	2.18124	1.96275	1.7379	1.56724	1.36687	1.1838	0.92877	0.74577	0.52387
390 nm	3.65152	3.48717	3.33182	2.84976	2.29619	2.06536	1.88229	1.82018	1.62437	1.42181	1.13063	0.92108	0.6765
380 nm	3.87233	3.68783	3.51596	2.96401	2.29769	2.04544	1.92619	1.95522	1.76231	1.55072	1.24197	1.01928	0.77095
370 nm	3.86382	3.67735	3.50538	2.94745	2.26883	2.008	1.91711	1.966	1.77037	1.55816	1.24793	1.0235	0.78228
360 nm	3.06649	2.93109	2.81003	2.42349	1.94547	1.72139	1.65347	1.62457	1.42807	1.25156	1.00312	0.82291	0.65408
350 nm	1.2886	1.18888	1.11294	0.97048	0.87693	0.79107	0.73894	0.65808	0.59812	0.55857	0.47752	0.39621	0.39146
340 nm	1.28835	1.19248	1.11625	0.97031	0.87166	0.78154	0.72977	0.63972	0.55561	0.48143	0.31594	0.11847	0.15971
330 nm	4.41735	4.16196	3.92321	3.1011	2.05141	1.70386	1.86436	2.12054	1.89259	1.59306	1.0839	0.67317	0.21512
320 nm	7.01716	6.28422	5.65934	3.86533	2.16568	1.72441	2.06247	2.8022	2.75467	2.41053	1.69471	1.08721	0.37172
310 nm	11.24023	8.91936	7.4109	4.2773	2.12351	1.60061	2.07849	3.29031	3.6446	3.37927	2.43734	1.54081	0.50302
300 nm	10.53927	7.97653	6.41687	3.43102	1.76198	1.40032	1.6745	2.09652	1.83805	1.31829	0.55227	0.55634	0.73928

	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	1.58687	3.73352	4.81101	6.46494	7.73589	8.21857	8.73293	9.4612	10.19794	11.92598	13.91096	20.65986	10.71456
690 nm	1.63667	3.78741	4.89636	6.54787	7.81118	8.28669	8.76974	9.4635	10.1992	11.98489	14.06845	21.10197	11.05583
680 nm	1.70669	3.8532	5.00478	6.64384	7.88774	8.34886	8.77937	9.41375	10.14399	12.0134	14.24362	21.68737	11.82735
671 nm	1.79998	3.9294	5.1359	6.74677	7.95301	8.38885	8.73655	9.27475	9.99141	11.97558	14.40753	22.34849	13.16993
660 nm	1.87911	3.97933	5.2304	6.80115	7.95851	8.3639	8.62282	9.05469	9.75003	11.83184	14.43522	22.69854	14.46775
650 nm	1.96494	4.0092	5.30406	6.80138	7.87335	8.22837	8.35702	8.62697	9.27825	11.45362	14.22158	22.61608	15.91429
640 nm	2.01902	4.00306	5.31929	6.73747	7.7199	8.02416	8.0347	8.15217	8.75223	10.97104	13.82062	22.14824	16.76769
632 nm	2.05222	3.95528	5.27185	6.58317	7.44879	7.68967	7.56863	7.5096	8.03939	10.26039	13.13023	21.21893	17.17419
620 nm	2.06229	3.86286	5.15186	6.32577	7.04756	7.21433	6.95449	6.70029	7.14254	9.32783	12.16134	19.92088	17.10436
610 nm	2.04514	3.67851	4.89122	5.85463	6.37518	6.44625	6.0104	5.48668	5.80934	7.97272	10.77609	18.32404	16.73613
600 nm	1.99226	3.41311	4.51508	5.27016	5.62335	5.62521	5.03638	4.2308	4.45039	6.7147	9.58311	17.19108	16.39029
589 nm	1.84443	2.91495	3.85902	4.43867	4.69651	4.67311	3.9469	2.75627	2.87997	5.47704	8.48276	16.08406	15.82433
580 nm	1.61991	2.49517	3.39574	3.96819	4.2427	4.23398	3.45009	1.97591	2.05639	4.9764	8.05884	15.50535	15.39965
570 nm	1.14008	2.00259	2.91446	3.5317	3.85479	3.87383	3.05121	1.18512	1.20566	4.56657	7.64274	14.44316	14.34998
560 nm	1.55792	2.22567	3.03888	3.54784	3.83097	3.84354	3.02868	1.15244	1.14488	4.46796	7.36618	13.0284	12.69597
550 nm	1.54579	2.38027	3.22041	3.65152	3.87233	3.86382	3.06649	1.2886	1.28835	4.41735	7.01716	11.24023	10.53927
540 nm	1.43077	2.2441	3.07754	3.48717	3.68783	3.67735	2.93109	1.18888	1.19248	4.16196	6.28422	8.91936	7.97653
532 nm	1.3637	2.14003	2.94579	3.33182	3.51596	3.50538	2.81003	1.11294	1.11625	3.92321	5.65934	7.4109	6.41687
520 nm	1.20915	1.87912	2.56329	2.84976	2.96401	2.94745	2.42349	0.97048	0.97031	3.1011	3.86533	4.2773	3.43102
510 nm	1.0848	1.66563	2.18124	2.29619	2.29769	2.26883	1.94547	0.87693	0.87166	2.05141	2.16568	2.12351	1.76198
500 nm	0.94782	1.48427	1.96275	2.06536	2.04544	2.008	1.72139	0.79107	0.78154	1.70386	1.72441	1.60061	1.40032
492 nm	0.79724	1.29698	1.7379	1.88229	1.92619	1.91711	1.65347	0.73894	0.72977	1.86436	2.06247	2.07849	1.6745
480 nm	0.63816	1.11529	1.56724	1.82018	1.95522	1.966	1.62457	0.65808	0.63972	2.12054	2.8022	3.29031	2.09652
470 nm	0.50405	0.94717	1.36687	1.62437	1.76231	1.77037	1.42807	0.59812	0.55561	1.89259	2.75467	3.6446	1.83805
460 nm	0.3872	0.81246	1.1838	1.42181	1.55072	1.55816	1.25156	0.55857	0.48143	1.59306	2.41053	3.37927	1.31829
450 nm	0.21293	0.63712	0.92877	1.13063	1.24197	1.24793	1.00312	0.47752	0.31594	1.0839	1.69471	2.43734	0.55227
440 nm	0.09323	0.5125	0.74577	0.92108	1.01928	1.0235	0.82291	0.39621	0.11847	0.67317	1.08721	1.54081	0.55634
430 nm	0.0259	0.35618	0.52387	0.6765	0.77095	0.78228	0.65408	0.39146	0.15971	0.21512	0.37172	0.50302	0.73928
420 nm	0	0.2678	0.41012	0.55927	0.65821	0.67652	0.59184	0.4182	0.26578	0.155	0.13998	0.14405	0.55618
410 nm	0.2678	0	0.13056	0.29931	0.43537	0.48601	0.47717	0.42307	0.35846	0.29881	0.24441	0.15215	1.24656
400 nm	0.41012	0.13056	0	0.17811	0.33427	0.40337	0.42305	0.40201	0.35363	0.29917	0.23801	0.13485	1.60767
390 nm	0.55927	0.29931	0.17811	0	0.17966	0.27677	0.33493	0.35258	0.32084	0.26831	0.20425	0.15869	2.00881
380 nm	0.65821	0.43537	0.33427	0.17966	0	0.11202	0.19253	0.23288	0.21799	0.18684	0.18778	0.3253	2.20174
370 nm	0.67652	0.48601	0.40337	0.27677	0.11202	0	0.08544	0.13625	0.14827	0.17638	0.25781	0.47395	2.20045
360 nm	0.59184	0.47717	0.42305	0.33493	0.19253	0.08544	0	0.05903	0.10624	0.19262	0.32031	0.58648	2.11267
350 nm	0.4182	0.42307	0.40201	0.35258	0.23288	0.13625	0.05903	0	0.07226	0.19121	0.34504	0.6517	2.08001
340 nm	0.26578	0.35846	0.35363	0.32084	0.21799	0.14827	0.10624	0.07226	0	0.12619	0.28998	0.61883	2.2661
330 nm	0.155	0.29881	0.29917	0.26831	0.18684	0.17638	0.19262	0.19121	0.12619	0	0.17598	0.5474	2.88262
320 nm	0.13998	0.24441	0.23801	0.20425	0.18778	0.25781	0.32031	0.34504	0.28998	0.17598	0	0.40006	3.61396
310 nm	0.14405	0.15215	0.13485	0.15869	0.3253	0.47395	0.58648	0.6517	0.61883	0.5474	0.40006	0	5.30113
300 nm	0.55618	1.24656	1.60767	2.00881	2.20174	2.20045	2.11267	2.08001	2.2661	2.88262	3.61396	5.30113	0