a	b	c	d	e
Data Set	Input1_InterferenceFilterSpectra			
Cone sensitivit	Hi_erato_female_Palacios1996.csv			
Ocular Media	Disregarded			
Irradiance Spec	Daylight			
Von Kreis Trans	TRUE			
Von Kreis Denor	0.1617337	0.3223735	0.6604168	0.7867202

	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	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	0	4.37126	10.05965	14.94499	22.31388	27.51257	31.46533	34.00107	32.44255	36.31564	36.46792	35.341	35.11603	33.71522	31.94323	29.92666	27.86515	26.5469	23.40059	21.65224	18.9609	16.56442	11.73038	8.14011	5.67158	3.09538	2.29663	3.03078	3.65339	5.78271	6.67033	8.16155	9.55231	10.24411	11.19665	12.68515	14.26578	17.07867	20.99553	24.32414	18.57303
690 nm	4.37174	0	5.62676	12.55542	18.05291	23.83677	27.57696	30.3262	32.00253	33.15169	33.55898	33.16176	32.69555	31.55763	30.07102	28.3206	26.48392	25.28188	22.34339	20.66651	18.11984	15.28121	11.12322	7.81903	5.72356	3.80815	3.33705	3.6292	3.94473	5.83139	6.67951	8.11271	9.47708	10.17078	11.12362	12.62974	14.19464	17.1432	20.22122	23.18062	19.00891
680 nm	10.05906	5.62976	0	7.28231	13.25357	19.53278	23.68745	26.82476	28.85194	30.39019	31.12018	31.03478	30.74553	29.85546	28.58509	26.99987	25.26737	24.10171	21.18372	19.48616	16.94461	14.19147	10.4043	7.72265	6.26932	5.17049	4.84706	4.55403	4.39895	5.87717	6.6697	8.02846	9.36002	10.05295	11.00337	12.5162	14.12698	17.16766	20.33619	22.22607	19.67264
671 nm	16.94499	12.55542	7.28231	0	6.33451	13.33816	18.02383	21.65766	24.12943	26.15475	27.28526	27.58683	27.51841	26.94448	25.96425	25.05609	24.60216	23.03323	21.93455	19.10604	17.46649	15.10441	12.68887	9.744	8.1678	7.56079	7.13627	6.79455	5.81828	5.04641	5.89933	6.61197	7.87164	9.15648	9.85815	10.7623	12.26314	13.90344	17.02203	20.2732	20.04214	20.4797
660 nm	22.33388	18.05291	13.20357	6.33451	0	7.39849	12.49523	16.54206	19.39705	21.85075	23.34085	24.0025	24.14448	23.87786	23.18217	22.07558	20.69259	19.68336	17.06696	15.59016	13.51276	11.51339	9.47601	8.86129	8.81262	8.72481	8.32851	6.86176	5.60448	5.87122	6.49912	7.6504	8.87318	9.56855	10.44165	11.87174	13.50823	16.63891	19.89832	28.36992	20.90243
650 nm	27.91257	23.83677	19.53278	13.33816	7.39849	0	5.40548	9.87441	13.16057	16.11356	18.03268	19.13565	19.54006	19.66677	19.34902	18.57618	17.47908	16.60458	14.44958	13.24585	11.58888	10.13438	9.16953	9.48722	9.92014	10.17465	9.8092	7.95734	6.21363	5.7547	6.25637	7.23509	8.3374	9.00197	9.78126	11.07987	12.65207	15.67723	18.80677	26.54369	20.61329
640 nm	31.46533	27.57696	23.68745	18.02383	12.49523	5.40548	0	4.66197	8.22164	11.52302	13.7526	15.18133	15.78202	16.20707	16.18434	15.69226	14.86452	14.19105	12.37094	11.37088	9.99862	8.93729	8.63765	9.44134	10.14392	10.70271	10.50188	8.5913	6.58729	5.58817	5.97338	6.78373	7.75993	8.37885	9.05679	10.2079	11.68705	14.55472	17.51211	24.65949	19.88644
632 nm	34.00107	30.3262	26.82476	21.65766	16.54206	9.87441	4.66197	0	3.71292	7.28153	9.77363	11.48973	12.26702	12.9676	13.22892	13.02153	12.46453	11.94849	10.45415	9.61857	8.44598	7.59851	7.58929	8.58796	9.44576	10.33397	10.46298	8.83887	6.76879	5.32257	5.57142	6.16945	6.96915	7.53217	8.08653	9.05594	10.40628	13.0574	15.79827	22.47759	18.7765
620 nm	35.44755	32.00253	28.85194	24.12943	19.39705	13.16057	8.22164	3.71292	0	3.71017	6.391	8.3351	9.25704	10.19114	10.70154	10.74996	10.5309	10.04092	8.81192	8.05706	6.98446	6.13233	5.98016	6.85514	7.70949	8.83677	9.39517	8.47734	6.63668	4.91888	5.01177	5.35456	5.95388	6.45289	6.8788	7.65455	8.86098	11.29295	13.8455	20.35819	17.57602
610 nm	36.31564	33.15169	30.39019	26.15475	21.85075	16.11356	11.52302	7.28153	3.71017	0	2.80522	4.95588	6.02028	7.19613	7.9752	8.30861	8.25911	8.03132	7.0963	6.40411	5.42562	4.45085	3.82091	4.27137	4.93071	6.03104	6.91965	7.07374	5.89178	4.18195	4.08966	4.14848	4.5853	5.07284	5.88999	5.97582	7.05952	9.39057	11.91373	18.72306	16.76722
600 nm	36.46792	33.55898	31.12018	27.28526	23.34085	18.03268	13.7526	9.77363	6.391	2.80522	0	2.25584	3.4148	4.77065	5.76392	6.33523	6.52194	6.43481	5.79718	5.19124	4.37037	3.40393	2.3684	2.32602	2.72022	3.54484	4.92353	5.24709	4.7164	3.39772	3.22009	3.17281	3.63626	4.20181	4.47761	4.94171	5.97524	8.358	10.98162	18.08078	16.62543
589 nm	35.781	33.16176	31.03478	27.58683	24.0025	19.13565	15.18133	11.48973	8.3351	4.95589	2.25584	0	1.20482	2.68872	3.86382	4.65529	5.08556	5.15401	4.88348	4.43805	3.90134	3.15825	2.1159	1.43802	1.13026	0.77154	1.23505	2.75858	2.91786	2.551	2.39097	2.3719	2.98283	3.65931	3.90946	4.25554	5.23423	7.66142	10.34308	17.30677	16.27088
580 nm	35.11603	32.69555	30.74553	27.51841	24.14448	19.54006	15.78202	12.26702	9.25706	6.02028	3.4148	1.20482	0	1.52826	2.79207	3.70152	4.27315	4.43439	4.39116	4.06558	3.72789	3.20133	2.46755	1.96902	1.62724	0.97224	0.44564	2.20827	2.57755	2.37873	2.21813	2.22739	2.90103	3.60926	3.83804	4.12279	5.04569	7.46391	10.13207	16.77428
570 nm	33.71522	31.55763	29.85546	26.9425	23.87786	19.66677	16.20707	12.9676	10.19114	7.19613	4.77065	2.68872	1.52826	0	1.35052	2.48886	3.18719	3.48947	3.80215	3.68805	3.6609	3.48214	3.22761	3.05009	2.92849	2.53005	2.11765	2.74235	3.02332	3.39956	3.1948	3.21483	2.92379	3.64124	3.83242	4.00058	4.8405	7.16402	9.69531	15.48738	14.80876
560 nm	31.94323	30.07102	28.58509	25.95609	23.18217	19.34902	16.18434	13.22892	10.70154	7.9752	5.76392	3.86382	2.79207	1.35052	0	1.14158	2.08493	2.50217	3.09801	3.1582	3.34845	3.40391	3.44135	3.44826	3.42783	3.16279	2.81949	3.16661	3.31432	2.39785	2.17145	2.22507	2.95425	3.66135	3.81594	3.87925	4.59481	6.71101	8.94881	13.59892	13.07763
550 nm	29.92666	28.3206	26.99987	24.60216	22.07558	18.57618	15.69226	13.02153	10.74996	8.30861	6.33523	4.65529	3.70152	2.48886	1.14158	0	1.09423	1.5685	2.39616	2.60811	2.96089	3.19208	3.44039	3.58082	3.63541	3.46232	3.14429	3.27323	3.33705	2.3085	2.08197	2.17875	2.91558	3.59364	3.70989	3.66344	4.20647	5.96954	7.76215	11.25231	10.99664
540 nm	27.86515	26.48392	25.26737	23.03323	20.69259	17.47908	14.86452	12.46453	10.4309	8.25911	6.52194	5.08556	4.27315	3.18719	2.08493	1.0657	0	0.52806	1.40199	1.64877	2.0048	2.23949	2.47835	2.59057	2.66098	2.28727	1.70055	1.91035	1.91002	1.84611	1.7539	1.99058	2.73828	3.356	3.43191	3.26033	3.55935	4.85204	6.18235	8.92723	9.07762
532 nm	26.5469	25.28188	24.10171	21.93455	19.68336	16.64058	14.19105	11.94849	10.04907	8.03132	6.43481	5.15401	4.43439	3.48947	2.50217	1.5685	0.52806	0	0.88465	1.15075	1.50176	1.74103	1.9955	2.12746	2.14707	1.81645	1.08818	0.4751	0.90409	1.49492	1.53049	1.86737	2.5951	3.14909	3.20054	2.96069	3.10682	4.1434	5.28674	7.86818	8.22429
520 nm	23.40059	22.34339	21.18372	19.10604	17.06696	14.44958	12.37094	10.45415	8.81392	7.09639	5.79718	4.88348	4.39116	3.80215	3.09801	2.39619	1.40199	0.88465	0	0.3178	0.65751	0.94636	1.35881	1.70681	1.92036	2.00479	1.91634	1.88694	1.77216	1.39281	1.35579	1.68978	2.31763	2.73744	2.7567	2.45621	2.45129	3.30494	4.373	6.97213	7.29133
510 nm	21.65224	20.66651	19.48616	17.46649	15.59016	13.24585	11.37984	9.61857	8.05706	6.40411	5.19124	4.43805	4.06558	3.68805	3.1582	2.60811	1.64877	1.15075	0.3178	0	0.29957	0.62762	1.22155	1.80768	2.22616	2.69332	2.99585	3.24242	2.9145	1.70527	1.51328	1.73188	2.37833	2.85765	2.86435	2.5579	2.64714	3.70464	4.91721	7.59765	7.31762
500 nm	18.9609	18.11984	16.94461	15.10441	13.51276	11.56888	9.99862	8.44598	6.98446	5.42562	4.37037	3.90134	3.72789	3.6609	3.34845	2.96089	2.0048	1.50176	0.65751	0.29957	0	0.38234	1.09151	1.80512	2.3318	2.96824	3.38025	3.59637	3.09893	1.60232	1.39006	1.6012	2.23484	2.71159	2.70529	2.36787	2.44592	3.58125	4.89025	7.66083	6.99993
492 nm	16.56442	15.28121	14.19147	12.68887	11.51339	10.12438	8.93729	7.59851	6.13233	4.45085	3.40393	3.15825	3.20133	3.48214	3.40391	3.19208	2.23949	1.74103	0.94636	0.62762	0.38234	0	0.76698	1.44424	2.28924	3.09213	3.59212	3.73502	3.07025	1.44162	1.23138	1.44524	2.05692	2.52259	2.50482	2.13247	2.1814	3.40653	4.86697	7.87268	6.60138
480 nm	11.73038	11.12322	10.4043	9.744	9.47601	9.16953	8.63765	7.58929	5.98016	3.82091	2.3684	2.1159	2.46755	3.22761	3.44135	3.44039	2.47835	1.9955	1.35881	1.22155	1.09151	0.76698	0	0.95252	1.71108	2.66445	3.22292	3.32451	2.64473	1.16527	0.98794	1.20935	1.75895	2.1672	2.12637	1.68365	1.58408	2.76152	4.30495	7.58835	5.56121
470 nm	8.14011	7.81903	7.72265	8.1678	8.86129	9.48722	9.44134	8.58796	6.85514	4.27137	2.32602	1.43802	1.96902	3.05009	3.44826	3.58082	2.59057	2.12746	1.70681	1.80788	1.80512	1.44424	0.95252	0	0.80834	1.85194	2.46505	2.6644	2.1305	0.9391	0.80292	1.01843	1.49111	1.8383	1.77792	1.27723	0.98997	2.06749	3.56386	6.79639	4.24994
460 nm	5.69345	5.72356	6.26932	7.56079	8.81262	9.92014	10.14392	9.44576	7.70949	4.93071	2.72022	1.13026	1.62724	2.92849	3.42783	3.63541	2.60098	2.14707	1.92036	2.22616	2.3318	2.28924	1.71108	0.80834	0	1.08642	1.75092	2.08612	1.71468	0.78397	0.68275	0.8853	1.29617	1.59457	1.5261	1.01084	0.57747	1.61185	3.00412	5.93792	3.07935
450 nm	3.09538	3.80815	5.17049	7.13627	8.72481	10.17465	10.70271	10.33397	8.83677	6.03104	3.54484	0.77154	0.97224	2.53005	3.16279	3.46232	2.28727	1.81645	2.00479	2.69332	2.96824	3.09213	2.66445	1.85194	1.08642	0	0.719	1.25743	1.1408	0.57885	0.52672	0.70721	1.03831	1.27667	1.21418	0.7505	0.18925	1.15419	2.29251	4.51646	1.4191
440 nm	2.29663	3.33705	4.84706	6.79455	8.32851	9.8092	10.50188	10.46298	9.39517	6.91965	4.42353	1.23505	0.44564	2.11765	2.81949	3.14429	1.70055	1.08818	1.91034	2.99585	3.38025	3.59212	3.22292	2.46505	1.75092	0.719	0	0.67441	0.7213	0.41901	0.40469	0.57559	0.85913	1.06076	1.0137	0.62985	0.09825	0.87526	1.76838	3.34109	0.46439
430 nm	3.03078	3.6292	4.55403	5.81828	6.86176	7.95734	8.5913	8.83887	8.47734	7.07374	5.24709	2.75858	2.20827	2.74235	3.16661	3.27323	2.53005	1.91035	2.08612	2.24242	3.59637	3.73502	3.32451	2.6644	2.08612	1.26743	0.67441	0	0.21004	0.22093	0.2714	0.44205	0.67508	0.83458	0.81817	0.56854	0.25959	0.51406	1.02642	1.72914	0.86713
420 nm	3.65339	3.94473	4.39895	5.04641	5.60448	6.21363	6.58729	6.76879	6.63668	5.89178	4.7164	2.91786	2.57755	3.02332	3.31432	3.33705	1.91002	0.90409	1.77219	2.9145	3.09893	3.07025	2.64473	2.1305	1.71468	1.1408	0.7213	0.21004	0	0.17715	0.22178	0.38769	0.59288	0.73013	0.73305	0.55912	0.32059	0.4757	0.56	0.87811	1.15067
410 nm	5.78271	5.83139	5.87717	5.89933	5.87122	5.7547	5.58817	5.32257	4.91888	4.18195	3.39772	2.551	2.37873	2.39956	2.39785	2.3085	1.84631	1.49492	1.39281	1.70527	1.60232	1.44162	1.16527	0.9391	0.78397	0.57885	0.41901	0.22093	0.17715	0	0.09154	0.2638	0.45986	0.58323	0.62753	0.56875	0.46027	0.33104	0.27181	0.25322	1.55767
400 nm	6.67033	6.67951	6.6697	6.61197	6.49912	6.25637	5.97335	5.57142	5.01177	4.08966	3.22009	2.39097	2.21813	2.1948	2.17145	2.08197	1.7539	1.53049	1.35579	1.51328	1.39006	1.23138	0.98796	0.80292	0.68275	0.52672	0.40469	0.2714	0.22178	0.09154	0	0.17451	0.37641	0.50096	0.55806	0.52538	0.43847	0.32781	0.26138	0.22988	1.65564
390 nm	8.16155	8.11271	8.02846	7.87164	7.6504	7.23509	6.78373	6.16945	5.35456	4.14848	3.17281	2.3719	2.22739	2.21483	2.22507	2.17875	1.99058	1.86737	1.68978	1.73188	1.6012	1.44524	1.20935	1.01843	0.8853	0.70721	0.57559	0.44205	0.38769	0.2638	0.17451	0	0.2104	0.32809	0.40681	0.38904	0.30698	0.20644	0.16854	0.23008	1.76109
380 nm	9.55231	9.47708	9.36002	9.15648	8.87318	8.3374	7.75993	6.96915	5.95388	4.5853	3.63626	2.98283	2.90103	2.92379	2.95425	2.91558	2.73828	2.5951	2.31763	2.37833	2.23484	2.05692	1.75895	1.49111	1.29617	1.03831	0.85913	0.67508	0.59288	0.45986	0.37641	0.2104	0	0.13006	0.2019	0.18833	0.1187	0.14049	0.26105	0.4569	1.87502
370 nm	10.24411	10.17078	10.05795	9.85815	9.56855	9.00197	8.37885	7.53217	6.45289	5.07284	4.20181	3.65931	3.60926	3.64124	3.66135	3.59364	3.356	3.14909	2.73744	2.85765	2.71159	2.52259	2.1672	1.8383	1.59457	1.27667	1.06076	0.83458	0.73013	0.58323	0.50096	0.38809	0.13006	0	0.07282	0.06701	0.09904	0.24539	0.39075	0.6274	1.97304
360 nm	11.19665	11.12362	11.00337	10.77623	10.44165	9.78126	9.05678	8.08653	6.8788	5.38999	4.47761	3.90946	3.83804	3.83242	3.81594	3.70989	3.43191	3.20054	2.7567	2.86435	2.70529	2.50482	2.12637	1.77792	1.5261	1.21418	1.01371	0.81817	0.73305	0.62753	0.55806	0.40681	0.20179	0.07282	0	0.03668	0.15559	0.32671	0.49771	0.75047	2.12724
350 nm	12.68515	12.62974	12.5162	12.26314	11.87174	11.07987	10.2079	9.05594	7.65455	5.97582	4.94171	4.25554	4.11279	4.00058	3.87925	3.66344	3.356	3.26033	2.96069	2.45621	2.5579	2.36787	2.13247	1.68365	1.01084	0.7505	0.62985	0.56854	0.55912	0.56875	0.52538	0.38909	0.18833	0.06701	0.03668	0	0.12879	0.31509	0.49998	0.77563	2.43891
340 nm	14.20579	14.19464	14.12698	13.90344	13.50823	12.65207	11.68705	10.40628	8.86098	7.05952	5.97524	5.23423	5.04569	4.8405	4.59481	4.20647	3.55935	3.10682	2.45129	2.64714	2.44592	2.1814	1.58408	0.98997	0.57747	0.51406	0.25959	0.32059	0.32809	0.46027	0.43847	0.30698	0.1187	0.09904	0.15559	0.12879	0	0.18705	0.37664	0.66251	2.88589
330 nm	17.07867	17.1432	17.16766	17.02203	16.63891	15.67723	14.55472	13.0574	11.29295	9.39057	8.358	7.66142	7.46391	7.16402	6.71101	5.96954	4.85204	4.3434	3.30494	3.70464	3.58125	3.40653	2.76152	2.06749	1.15419	0.9258	0.87526	0.51406	0.4757	0.33104	0.32781	0.20644	0.14049	0.24539	0.32671	0.31509	0.18705	0	0.17867	0.51348	3.24422
320 nm	20.99553	20.22122	20.33619	20.2732	19.89832	18.80677	17.51211	15.79827	13.8455	11.91373	10.98162	10.34308	10.13207	9.69531	8.94881	7.76215	6.18235	5.28674	4.373	4.91721	4.89025	4.86697	4.30495	3.56386	3.00412	2.29251	1.76838	1.02642	0.56	0.27181	0.26138	0.16854	0.26105	0.39075	0.49771	0.49998	0.37664	0.19867	0	0.33827	4.6485
310 nm	29.32434	29.18062	29.22607	29.04214	28.36992	26.54369	24.65949	22.47759	20.35819	18.72306	18.08078	17.30677	16.77428	15.48738	13.59892	11.25231	8.92723	7.86818	6.97213	7.59765	7.66083	7.87268	7.58835	6.79639	5.93792	4.51646	3.34109	1.72914	0.87811	0.25322	0.22988	0.23008	0.4569	0.6274	0.75047	0.77563	0.66251	0.51348	0.33827	0	6.69105
300 nm	18.57303	19.00891	19.67264	20.4797	20.90243	20.61329	19.88644	18.7765	17.57602	16.76722	16.62543	16.27088	15.90883	14.80876	13.07763	10.99664	9.07762	8.22429	7.29133	7.31762	6.99993	6.60138	5.56121	4.24994	3.07935	1.4191	0.46439	0.86713	1.15067	1.55767	1.65564	1.76109	1.87502	1.97304	2.12724	2.43891	2.88589	3.24422	4.6485	6.69105	