



TAB #1: VIDEO DATA												
Comment	Min	Sec	1/100	Frame #	Track length	Track thickness	X (pixels)	Y (pixels)	X source offset (mm)	Y source offset (mm)	R	
CALIBRATION												
Pinpoint (source)	3	28	3	6242	N/A	N/A	703	345				
Boundary below point	3	28	3	6242	N/A	N/A	705	631				
Boundary above point	3	28	3	6242	N/A	N/A	699	6			Diameter =	625 pixels
Boundary left of point	3	28	3	6242	N/A	N/A	405	340			Pixel =	0.16 mm
Boundary right of point	3	28	3	6242	N/A	N/A	1049	342			Height (a) =	2.25 mm
Last data frame	4	45	46	8565	N/A	N/A	N/A	N/A			Height (b) =	3.5 mm
First data frame	3	15	3	5852	N/A	N/A	N/A	N/A				
TRACK STARTS												
	3	15	20	5857	Long	Sharp	731	393	4.48	-7.68	8.89	
	3	15	20	5857	Short	Diffuse	735	424	5.12	-12.64	13.64	
	3	15	56	5868	Short	Diffuse	757	285	8.64	9.6	12.92	
	3	15	70	5872	Short	Diffuse	762	286	9.44	9.44	13.35	
	3	15	93	5879	Long	Diffuse	827	380	19.84	-5.6	20.62	
	3	16	23	5888	Short	Sharp	619	404	-13.44	-9.44	16.42	
	3	16	30	5890	Long	Sharp	712	382	1.44	-5.92	6.09	
	3	16	33	5891	Short	Diffuse	729	370	4.16	-4	5.77	
	3	16	43	5894	Long	Diffuse	788	334	13.6	1.76	13.71	
	3	16	53	5897	Short	Diffuse	608	304	-15.2	6.56	16.56	
	3	17	20	5917	Long	Diffuse	758	285	8.8	9.6	13.02	
	3	17	26	5919	Short	Diffuse	653	276	-8	11.04	13.63	
	3	17	46	5925	Short	Diffuse	735	390	5.12	-7.2	8.83	
	3	17	56	5928	Short	Diffuse	726	371	3.68	-4.16	5.55	
	3	17	56	5928	Short	Sharp	727	376	3.84	-4.96	6.27	
	3	17	86	5937	Short	Sharp	789	376	13.76	-4.96	14.63	
	3	17	90	5938	Long	Sharp	700	278	-0.48	10.72	10.73	
	3	18	26	5949	Long	Sharp	769	292	10.56	8.48	13.54	
	3	18	43	5954	Long	Sharp	759	352	8.96	-1.12	9.03	
	3	18	66	5961	Long	Sharp	818	312	18.4	5.28	19.14	
	3	18	93	5969	Short	Sharp	729	295	4.16	8	9.02	
	3	19	26	5979	Short	Diffuse	674	384	-4.64	-6.24	7.78	

	3	19	60	5989	Short	Diffuse	769	397	10.56	-8.32	13.44		
	3	19	93	5999	Long	Sharp	720	289	2.72	8.96	9.36		
	3	20	43	6014	Long	Sharp	686	287	-2.72	9.28	9.67		
	3	21	3	6032	Short	Diffuse	717	381	2.24	-5.76	6.18		
	3	21	23	6038	Long	Diffuse	800	294	15.52	8.16	17.53		
	3	21	96	6060	Short	Diffuse	720	282	2.72	10.08	10.44		
	3	22	53	6077	Short	Diffuse	735	356	5.12	-1.76	5.41		
	3	22	86	6087	Long	Sharp	715	280	1.92	10.4	10.58		
	3	23	23	6098	Long	Sharp	743	256	6.4	14.24	15.61		
	3	23	70	6112	Short	Diffuse	515	335	-30.08	1.6	30.12		
	3	23	70	6112	Long	Diffuse	625	291	-12.48	8.64	15.18		
	3	23	73	6113	Long	Sharp	653	375	-8	-4.8	9.33		
	3	24	43	6134	Long	Sharp	595	282	-17.28	10.08	20.01		
	3	24	86	6147	Long	Sharp	718	297	2.4	7.68	8.05		
	3	24	86	6147	Long	Sharp	715	338	1.92	1.12	2.22		
	3	25	30	6160	Short	Diffuse	742	257	6.24	14.08	15.40		
	3	25	53	6167	Long	Diffuse	699	384	-0.64	-6.24	6.27		
	3	26	26	6189	Long	Sharp	725	306	3.52	6.24	7.16		
	3	26	53	6197	Short	Diffuse	741	368	6.08	-3.68	7.11		
	3	27	23	6218	Long	Sharp	663	525	-6.4	-28.8	29.50		
	3	27	23	6218	Long	Sharp	687	418	-2.56	-11.68	11.96		
	3	27	53	6227	Short	Diffuse	673	384	-4.8	-6.24	7.87		
	3	27	53	6227	Long	Sharp	658	324	-7.2	3.36	7.95		
	3	27	66	6231	Long	Diffuse	739	389	5.76	-7.04	9.10		
	3	27	90	6238	Short	Sharp	758	322	8.8	3.68	9.54		
	3	28	0	6241	Long	Sharp	769	346	10.56	-0.16	10.56		
	3	28	16	6246	Long	Sharp	702	306	-0.16	6.24	6.24		
	3	28	63	6260	Long	Sharp	655	366	-7.68	-3.36	8.38		
	3	28	66	6261	Short	Sharp	734	320	4.96	4	6.37		
	3	29	6	6273	Long	Sharp	746	357	6.88	-1.92	7.14		
	3	29	6	6273	Long	Sharp	767	371	10.24	-4.16	11.05		
	3	29	23	6278	Short	Diffuse	656	317	-7.52	4.48	8.75		
	3	29	60	6289	Short	Diffuse	723	349	3.2	-0.64	3.26		
	3	30	23	6308	Short	Diffuse	703	310	0	5.6	5.60		
	3	30	23	6308	Long	Sharp	737	289	5.44	8.96	10.48		
	3	30	50	6316	Long	Sharp	748	367	7.2	-3.52	8.01		

	3	30	56	6318	Short	Diffuse	680	385	-3.68	-6.4	7.38		
	3	31	10	6334	Short	Diffuse	669	291	-5.44	8.64	10.21		
	3	31	10	6334	Short	Diffuse	655	314	-7.68	4.96	9.14		
	3	32	0	6361	Long	Sharp	731	340	4.48	0.8	4.55		
	3	32	20	6367	Short	Sharp	641	305	-9.92	6.4	11.81		
	3	32	83	6386	Short	Diffuse	686	303	-2.72	6.72	7.25		
	3	32	96	6390	Long	Sharp	736	281	5.28	10.24	11.52		
	3	33	96	6420	Long	Sharp	723	286	3.2	9.44	9.97		
	3	34	10	6424	Short	Sharp	728	322	4	3.68	5.44		
	3	34	23	6428	Short	Diffuse	685	377	-2.88	-5.12	5.87		
	3	34	30	6430	Long	Sharp	686	315	-2.72	4.8	5.52		
	3	34	33	6431	Short	Diffuse	705	310	0.32	5.6	5.61		
	3	34	63	6440	Short	Sharp	657	306	-7.36	6.24	9.65		
	3	34	73	6443	Long	Sharp	640	302	-10.08	6.88	12.20		
	3	35	20	6457	Long	Sharp	658	277	-7.2	10.88	13.05		
	3	35	20	6457	Long	Sharp	743	319	6.4	4.16	7.63		
	3	35	96	6480	Long	Sharp	655	372	-7.68	-4.32	8.81		
	3	36	0	6481	Short	Diffuse	680	355	-3.68	-1.6	4.01		
	3	36	23	6488	Long	Sharp	739	266	5.76	12.64	13.89		
	3	36	36	6492	Short	Diffuse	698	410	-0.8	-10.4	10.43		
	3	36	43	6494	Short	Diffuse	748	368	7.2	-3.68	8.09		
	3	36	56	6498	Short	Diffuse	762	368	9.44	-3.68	10.13		
	3	36	90	6508	Long	Sharp	657	364	-7.36	-3.04	7.96		
	3	37	30	6520	Long	Sharp	732	357	4.64	-1.92	5.02		
	3	37	60	6529	Long	Sharp	688	318	-2.4	4.32	4.94		
	3	37	73	6533	Long	Sharp	661	374	-6.72	-4.64	8.17		
	3	37	80	6535	Short	Sharp	706	323	0.48	3.52	3.55		
	3	38	26	6549	Long	Sharp	723	332	3.2	2.08	3.82		
	3	38	30	6550	Long	Sharp	746	304	6.88	6.56	9.51		
	3	39	23	6578	Long	Sharp	738	351	5.6	-0.96	5.68		
	3	39	30	6580	Long	Sharp	735	357	5.12	-1.92	5.47		
	3	39	30	6580	Short	Diffuse	700	348	-0.48	-0.48	0.68		
	3	39	70	6592	Long	Sharp	726	318	3.68	4.32	5.67		
	3	40	23	6608	Long	Sharp	734	356	4.96	-1.76	5.26		
	3	40	23	6608	Short	Diffuse	680	352	-3.68	-1.12	3.85		
	3	40	53	6617	Long	Sharp	676	325	-4.32	3.2	5.38		

	3	40	93	6629	Long	Diffuse	746	318	6.88	4.32	8.12		
	3	41	46	6645	Long	Sharp	715	331	1.92	2.24	2.95		
	3	41	70	6652	Long	Sharp	671	361	-5.12	-2.56	5.72		
	3	42	36	6672	Short	Diffuse	745	365	6.72	-3.2	7.44		
	3	43	23	6698	Short	Sharp	710	349	1.12	-0.64	1.29		
	3	43	73	6713	Long	Sharp	754	281	8.16	10.24	13.09		
	3	43	93	6719	Short	Diffuse	715	336	1.92	1.44	2.40		
	3	43	96	6720	Short	Sharp	704	338	0.16	1.12	1.13		
	3	44	13	6725	Long	Sharp	663	348	-6.4	-0.48	6.42		
	3	44	16	6726	Long	Sharp	662	345	-6.56	0	6.56		
	3	44	33	6731	Short	Sharp	688	331	-2.4	2.24	3.28		
	3	44	46	6735	Long	Sharp	694	297	-1.44	7.68	7.81		
	3	44	90	6748	Long	Sharp	663	324	-6.4	3.36	7.23		
	3	45	23	6758	Short	Sharp	711	354	1.28	-1.44	1.93		
	3	45	46	6765	Long	Sharp	694	337	-1.44	1.28	1.93		
	3	46	36	6792	Long	Sharp	748	337	7.2	1.28	7.31		
	3	47	23	6818	Short	Diffuse	781	367	12.48	-3.52	12.97		
	3	47	46	6825	Long	Sharp	712	332	1.44	2.08	2.53		
	3	47	80	6835	Long	Sharp	746	346	6.88	-0.16	6.88		
	3	47	86	6837	Long	Sharp	662	309	-6.56	5.76	8.73		
	3	47	96	6840	Long	Sharp	704	315	0.16	4.8	4.80		
	3	48	3	6842	Short	Sharp	757	342	8.64	0.48	8.65		
	3	48	40	6853	Short	Diffuse	748	296	7.2	7.84	10.64		
	3	48	76	6864	Short	Sharp	699	342	-0.64	0.48	0.80		
	2	49	3	5072	Long	Sharp	682	326	-3.36	3.04	4.53		
	3	49	23	6878	Short	Diffuse	730	351	4.32	-0.96	4.43		
	3	50	3	6902	Long	Sharp	742	341	6.24	0.64	6.27		
	3	50	16	6906	Short	Diffuse	605	329	-15.68	2.56	15.89		
	3	50	20	6907	Short	Diffuse	569	315	-21.44	4.8	21.97		
	3	50	30	6910	Short	Diffuse	610	331	-14.88	2.24	15.05		
	3	50	46	6915	Short	Sharp	682	332	-3.36	2.08	3.95		
	3	50	80	6925	Long	Sharp	704	319	0.16	4.16	4.16		
	3	51	20	6937	Long	Diffuse	713	345	1.6	0	1.60		
	3	51	66	6951	Short	Sharp	713	345	1.6	0	1.60		
	3	52	36	6972	Short	Sharp	721	335	2.88	1.6	3.29		
	3	52	70	6982	Short	Diffuse	694	369	-1.44	-3.84	4.10		

	3	53	6	6993	Short	Diffuse	752	344	7.84	0.16	7.84		
	3	53	26	6999	Short	Sharp	685	325	-2.88	3.2	4.31		
	3	53	43	7004	Short	Diffuse	712	336	1.44	1.44	2.04		
	3	55	3	7052	Long	Sharp	675	361	-4.48	-2.56	5.16		
	3	55	56	7068	Short	Diffuse	726	346	3.68	-0.16	3.68		
	3	57	16	7116	Short	Diffuse	728	358	4	-2.08	4.51		
	3	57	43	7124	Short	Diffuse	729	362	4.16	-2.72	4.97		
	3	57	50	7126	Short	Sharp	721	354	2.88	-1.44	3.22		
	3	57	86	7137	Long	Sharp	688	358	-2.4	-2.08	3.18		
	3	58	63	7160	Long	Diffuse	749	328	7.36	2.72	7.85		
	3	59	60	7189	Long	Sharp	703	326	0	3.04	3.04		
	3	59	90	7198	Short	Diffuse	717	337	2.24	1.28	2.58		
	4	0	56	7218	Short	Diffuse	701	359	-0.32	-2.24	2.26		
	4	1	40	7243	Long	Sharp	666	310	-5.92	5.6	8.15		
	4	2	0	7261	Long	Sharp	675	370	-4.48	-4	6.01		
	4	2	56	7278	Long	Sharp	661	356	-6.72	-1.76	6.95		
	4	2	86	7287	Short	Diffuse	746	363	6.88	-2.88	7.46		
	4	3	10	7294	Short	Sharp	723	339	3.2	0.96	3.34		
	4	3	53	7307	Short	Diffuse	726	350	3.68	-0.8	3.77		
	4	3	73	7313	Short	Sharp	725	346	3.52	-0.16	3.52		
	4	4	33	7331	Short	Diffuse	705	336	0.32	1.44	1.48		
	4	5	70	7372	Short	Sharp	705	336	0.32	1.44	1.48		
	4	6	26	7389	Long	Sharp	755	336	8.32	1.44	8.44		
	4	6	30	7390	Long	Sharp	753	337	8	1.28	8.10		
	4	6	46	7395	Short	Diffuse	705	352	0.32	-1.12	1.16		
	4	6	56	7398	Short	Diffuse	741	355	6.08	-1.6	6.29		
	4	7	6	7413	Long	Sharp	687	322	-2.56	3.68	4.48		
	4	7	13	7415	Long	Diffuse	749	338	7.36	1.12	7.44		
	4	8	0	7441	Long	Sharp	714	296	1.76	7.84	8.04		
	4	8	66	7461	Short	Sharp	701	349	-0.32	-0.64	0.72		
	4	9	0	7471	Long	Sharp	732	360	4.64	-2.4	5.22		
	4	9	33	7481	Long	Sharp	676	364	-4.32	-3.04	5.28		
	4	9	83	7496	Short	Diffuse	700	351	-0.48	-0.96	1.07		
	4	10	3	7502	Long	Sharp	658	317	-7.2	4.48	8.48		
	4	10	26	7509	Long	Sharp	714	340	1.76	0.8	1.93		
	4	11	0	7531	Short	Diffuse	738	356	5.6	-1.76	5.87		

	4	11	6	7533	Long	Sharp	662	350	-6.56	-0.8	6.61		
	4	11	76	7554	Long	Sharp	704	345	0.16	0	0.16		
	4	11	96	7560	Long	Sharp	638	306	-10.4	6.24	12.13		
	4	12	6	7563	Long	Sharp	742	382	6.24	-5.92	8.60		
	4	12	60	7579	Long	Sharp	692	317	-1.76	4.48	4.81		
	4	13	23	7598	Short	Diffuse	704	338	0.16	1.12	1.13		
	4	13	93	7619	Long	Sharp	709	329	0.96	2.56	2.73		
	4	14	23	7628	Long	Sharp	675	334	-4.48	1.76	4.81		
	4	14	26	7629	Long	Sharp	699	338	-0.64	1.12	1.29		
	4	14	50	7636	Long	Sharp	661	325	-6.72	3.2	7.44		
	4	14	63	7640	Short	Sharp	644	272	-9.44	11.68	15.02		
	4	15	26	7668	Long	Diffuse	693	344	-1.6	0.16	1.61		
	4	15	26	7673	Long	Sharp	710	330	1.12	2.4	2.65		
	4	15	56	7673	Long	Diffuse	722	347	3.04	-0.32	3.06		
	4	15	73	7674	Long	Sharp	686	366	-2.72	-3.36	4.32		
	4	15	76	7679	Short	Diffuse	791	310	14.08	5.6	15.15		
	4	15	93	7679	Long	Diffuse	665	351	-6.08	-0.96	6.16		
	4	16	30	7690	Long	Sharp	708	331	0.8	2.24	2.38		
	4	17	23	7718	Long	Sharp	714	337	1.76	1.28	2.18		
	4	17	50	7726	Short	Diffuse	706	303	0.48	6.72	6.74		
	4	17	50	7726	Short	Diffuse	682	311	-3.36	5.44	6.39		
	4	17	93	7739	Long	Sharp	654	316	-7.84	4.64	9.11		
	4	18	53	7757	Short	Diffuse	626	236	-12.32	17.44	21.35		
	4	19	36	7782	Short	Diffuse	710	337	1.12	1.28	1.70		
	4	19	46	7785	Short	Diffuse	713	337	1.6	1.28	2.05		
	4	20	20	7807	Long	Sharp	750	267	7.52	12.48	14.57		
	4	20	30	7810	Long	Sharp	733	278	4.8	10.72	11.75		
	4	21	86	7857	Long	Sharp	716	336	2.08	1.44	2.53		
	4	22	33	7871	Short	Diffuse	694	353	-1.44	-1.28	1.93		
	4	22	60	7879	Short	Diffuse	678	349	-4	-0.64	4.05		
	4	22	60	7879	Short	Diffuse	681	393	-3.52	-7.68	8.45		
	4	22	80	7885	Short	Diffuse	658	320	-7.2	4	8.24		
	4	23	26	7899	Short	Diffuse	666	384	-5.92	-6.24	8.60		
	4	23	26	7899	Long	Diffuse	734	306	4.96	6.24	7.97		
	4	23	73	7913	Long	Diffuse	653	315	-8	4.8	9.33		
	4	24	30	7930	Short	Sharp	698	330	-0.8	2.4	2.53		

	4	24	43	7934	Short	Diffuse	702	327	-0.16	2.88	2.88		
	4	25	43	7964	Short	Diffuse	720	340	2.72	0.8	2.84		
	4	25	73	7973	Short	Sharp	706	329	0.48	2.56	2.60		
	4	26	40	7993	Long	Diffuse	567	372	-21.76	-4.32	22.18		
	4	27	53	8027	Long	Diffuse	626	285	-12.32	9.6	15.62		
	4	27	76	8034	Short	Sharp	685	289	-2.88	8.96	9.41		
	4	28	43	8054	Short	Sharp	681	358	-3.52	-2.08	4.09		
	4	28	50	8056	Short	Sharp	716	357	2.08	-1.92	2.83		
	4	29	10	8074	Short	Diffuse	710	338	1.12	1.12	1.58		
	4	29	10	8074	Long	Sharp	716	345	2.08	0	2.08		
	4	29	56	8088	Short	Diffuse	707	333	0.64	1.92	2.02		
	4	31	66	8151	Short	Sharp	662	367	-6.56	-3.52	7.44		
	4	32	50	8176	Long	Sharp	717	343	2.24	0.32	2.26		
	4	33	6	8193	Short	Diffuse	606	305	-15.52	6.4	16.79		
	4	33	6	8193	Long	Sharp	661	320	-6.72	4	7.82		
	4	34	33	8231	Long	Diffuse	656	335	-7.52	1.6	7.69		
	4	35	0	8251	Short	Sharp	710	342	1.12	0.48	1.22		
	4	35	23	8258	Short	Diffuse	644	359	-9.44	-2.24	9.70		
	4	36	26	8289	Short	Diffuse	658	306	-7.2	6.24	9.53		
	4	36	30	8290	Short	Sharp	716	358	2.08	-2.08	2.94		
	4	41	16	8436	Short	Diffuse	712	351	1.44	-0.96	1.73		
	4	41	36	8442	Short	Diffuse	699	351	-0.64	-0.96	1.15		
	4	41	73	8453	Short	Diffuse	627	361	-12.16	-2.56	12.43		
	4	42	53	8477	Long	Sharp	724	341	3.36	0.64	3.42		
	4	42	66	8481	Short	Diffuse	684	323	-3.04	3.52	4.65		
	4	44	36	8532	Short	Sharp	704	340	0.16	0.8	0.82		

TAB #2: IDEAL DISTRIBUTION C(R,b)+C(R,a-b), DIVIDED BY PI									
PETRIE DISH SENSITIVE VOLUME PARAMETERS									
radius=50mm									
a=	2.3	mm							
b=	3.5	mm							
a-b=	-1	mm							
scale	24								
n	R	R/b	Log term	Arctan term	Total b part	R/(a-b)	Log term	Arctan term	Total a-b part
1	0.3	0.1	0.005089	0.214212695	0.767556174	-0.2	0.039221	0.549360307	-0.735726275
2	0.5	0.1	0.020203	0.408256935	1.499608748	-0.4	0.14842	0.95223196	-1.375814956
3	0.8	0.2	0.044895	0.582729854	2.19668811	-0.6	0.307485	1.236452192	-1.929921114
4	1	0.3	0.078472	0.738569524	2.85964399	-0.8	0.494696	1.433688615	-2.410481071
5	1.3	0.4	0.120048	0.876980276	3.489599114	-1	0.693147	1.570796327	-2.829929384
6	1.5	0.4	0.168623	0.999346749	4.087893115	-1.2	0.891998	1.667371863	-3.199212378
7	1.8	0.5	0.223144	1.107148718	4.656022942	-1.4	1.085189	1.736698561	-3.527359786
8	2	0.6	0.282567	1.201885957	5.195585251	-1.6	1.269761	1.787517809	-3.821597942
9	2.3	0.6	0.345903	1.285018518	5.708224776	-1.8	1.444563	1.825554616	-4.087647356
10	2.5	0.7	0.412245	1.357924058	6.195590987	-2	1.609438	1.854590436	-4.330035436
11	2.8	0.8	0.480787	1.421871141	6.659303893	-2.2	1.764731	1.87716097	-4.552364708
12	3	0.9	0.550831	1.478005808	7.100928682	-2.4	1.911023	1.894997375	-4.757525331
13	3.3	0.9	0.621783	1.527348233	7.521958245	-2.6	2.048982	1.909303936	-4.947857838
14	3.5	1	0.693147	1.570796327	7.923802276	-2.8	2.179287	1.920934066	-5.125276179
15	3.8	1.1	0.764518	1.609133705	8.307781579	-3	2.302585	1.930503326	-5.291360524
16	4	1.1	0.835568	1.643039999	8.675126319	-3.2	2.419479	1.938463158	-5.447427503
17	4.3	1.2	0.906034	1.673102086	9.026977111	-3.4	2.530517	1.945149804	-5.594583706
18	4.5	1.3	0.975714	1.699825291	9.364388053	-3.6	2.636196	1.950817322	-5.733766775
19	4.8	1.4	1.044451	1.723643996	9.688331019	-3.8	2.736962	1.955660234	-5.865777223
20	5	1.4	1.112126	1.744931327	9.999700671	-4	2.833213	1.959829305	-5.991303311
21	5.3	1.5	1.178655	1.764007811	10.29931982	-4.2	2.92531	1.963442719	-6.110940661
22	5.5	1.6	1.243978	1.781148969	10.58794488	-4.4	3.013572	1.96659409	-6.225207852
23	5.8	1.6	1.308057	1.796591906	10.86627115	-4.6	3.098289	1.969358289	-6.334558938
24	6	1.7	1.37087	1.810540966	11.134938	-4.8	3.179719	1.971795736	-6.439393557
25	6.3	1.8	1.432408	1.823172578	11.3945336	-5	3.258097	1.973955598	-6.540065171
26	6.5	1.9	1.492675	1.83463937	11.64559947	-5.2	3.333632	1.975878194	-6.636887821
27	6.8	1.9	1.551679	1.845073664	11.8886346	-5.4	3.406517	1.977596826	-6.730141712
28	7	2	1.609438	1.854590436	12.12409922	-5.6	3.476923	1.979139188	-6.82007785
29	7.3	2.1	1.665973	1.863289826	12.35241831	-5.8	3.545009	1.980528453	-6.906921921
30	7.5	2.1	1.721308	1.871259256	12.57398473	-6	3.610918	1.981784129	-6.990877552
31	7.8	2.2	1.775471	1.878575235	12.78916206	-6.2	3.674781	1.982922727	-7.072129071
32	8	2.3	1.828491	1.885304876	12.99828724	-6.4	3.736717	1.983958297	-7.15084385
33	8.3	2.4	1.880399	1.891507195	13.20167287	-6.6	3.796837	1.98490285	-7.227174307
34	8.5	2.4	1.931226	1.897234212	13.39960933	-6.8	3.855241	1.985766705	-7.30125962
35	8.8	2.5	1.981001	1.902531886	13.59236674	-7	3.912023	1.986558764	-7.373227212
36	9	2.6	2.029758	1.907440914	13.78019662	-7.2	3.967268	1.987286741	-7.443194025
37	9.3	2.6	2.077526	1.911997419	13.96333352	-7.4	4.021057	1.987957341	-7.511267634

38	9.5	2.7	2.124337	1.916233534	14.14199638	-7.6	4.073461	1.98857642	-7.577547215
39	9.8	2.8	2.170219	1.920177901	14.31638986	-7.8	4.12455	1.989149108	-7.642124391
40	10	2.9	2.215203	1.923856111	14.48670545	-8	4.174387	1.989679913	-7.705083978
41	10	2.9	2.259315	1.92729107	14.65312256	-8.2	4.223031	1.990172809	-7.766504641
42	11	3	2.302585	1.930503326	14.81580947	-8.4	4.270536	1.990631314	-7.826459466
43	11	3.1	2.345038	1.933511349	14.97492415	-8.6	4.316955	1.991058545	-7.885016478
44	11	3.1	2.386701	1.936331766	15.13061512	-8.8	4.362334	1.991457276	-7.942239097
45	11	3.2	2.427598	1.938979583	15.28302212	-9	4.406719	1.991829981	-7.998186535
46	12	3.3	2.467754	1.941468358	15.43227675	-9.2	4.450152	1.992178872	-8.052914169
47	12	3.4	2.507191	1.943810369	15.57850312	-9.4	4.492673	1.99250593	-8.106473856
48	12	3.4	2.545931	1.946016749	15.72181835	-9.6	4.534318	1.992812937	-8.158914227
49	12	3.5	2.583998	1.948097613	15.86233308	-9.8	4.575123	1.993101495	-8.210280949
50	13	3.6	2.62141	1.950062165	16.00015192	-10	4.615121	1.99337305	-8.260616958
51	13	3.6	2.658188	1.951918792	16.13537389	-10.2	4.654341	1.99362891	-8.309962675
52	13	3.7	2.694351	1.95367515	16.26809277	-10.4	4.692815	1.99387026	-8.358356195
53	13	3.8	2.729918	1.955338236	16.39839748	-10.6	4.730569	1.994098174	-8.405833462
54	14	3.9	2.764906	1.956914456	16.52637239	-10.8	4.767629	1.99431363	-8.45242843
55	14	3.9	2.799332	1.958409682	16.6520976	-11	4.804021	1.994517518	-8.498173204
56	14	4	2.833213	1.959829305	16.77564927	-11.2	4.839768	1.994710651	-8.543098173
57	14	4.1	2.866565	1.961178278	16.89709981	-11.4	4.874892	1.99489377	-8.587232129
58	15	4.1	2.899401	1.962461162	17.01651814	-11.6	4.909414	1.995067556	-8.630602378
59	15	4.2	2.931738	1.963682158	17.13396993	-11.8	4.943355	1.99523263	-8.673234838
60	15	4.3	2.963589	1.964845142	17.24951775	-12	4.976734	1.995389565	-8.715154135
61	15	4.4	2.994967	1.965953696	17.3632213	-12.2	5.009568	1.995538887	-8.756383682
62	16	4.4	3.025885	1.967011131	17.47513755	-12.4	5.041876	1.995681079	-8.796945762
63	16	4.5	3.056357	1.968020513	17.58532093	-12.6	5.073673	1.995816588	-8.836861597
64	16	4.6	3.086393	1.968984683	17.69382345	-12.8	5.104975	1.995945826	-8.876151416
65	16	4.6	3.116007	1.969906278	17.80069484	-13	5.135798	1.996069173	-8.914834513
66	17	4.7	3.145207	1.970787746	17.90598272	-13.2	5.166156	1.996186981	-8.952929305
67	17	4.8	3.174007	1.971631365	18.00973265	-13.4	5.196063	1.996299578	-8.990453388
68	17	4.9	3.202415	1.972439253	18.1119883	-13.6	5.225532	1.996407265	-9.027423577
69	17	4.9	3.230441	1.973213384	18.21279153	-13.8	5.254574	1.996510323	-9.063855958
70	18	5	3.258097	1.973955598	18.31218248	-14	5.283204	1.996609014	-9.099765928
71	18	5.1	3.285389	1.974667614	18.41019967	-14.2	5.311431	1.996703581	-9.135168233
72	18	5.1	3.312329	1.975351034	18.5068801	-14.4	5.339267	1.99679425	-9.170077004
73	18	5.2	3.338924	1.976007361	18.6022593	-14.6	5.366723	1.996881233	-9.20450579
74	19	5.3	3.365182	1.976637996	18.69637142	-14.8	5.393809	1.996964726	-9.238467592
75	19	5.4	3.391113	1.977244256	18.7892493	-15	5.420535	1.997044913	-9.271974891
76	19	5.4	3.416722	1.977827371	18.88092455	-15.2	5.44691	1.997121967	-9.305039672
77	19	5.5	3.442019	1.978388498	18.97142756	-15.4	5.472943	1.997196049	-9.337673457
78	20	5.6	3.467011	1.978928721	19.06078762	-15.6	5.498643	1.997267308	-9.36988732
79	20	5.6	3.491703	1.97944906	19.14903296	-15.8	5.524018	1.997335888	-9.401691918
80	20	5.7	3.516104	1.979950474	19.23619074	-16	5.549076	1.99740192	-9.433097506
81	20	5.8	3.54022	1.980433863	19.3222872	-16.2	5.573826	1.997465529	-9.464113958
82	21	5.9	3.564056	1.980900076	19.40734763	-16.4	5.598274	1.997526832	-9.494750789
83	21	5.9	3.58762	1.981349913	19.49139642	-16.6	5.622428	1.997585938	-9.525017167
84	21	6	3.610918	1.981784129	19.57445715	-16.8	5.646295	1.997642953	-9.554921934

85	21	6.1	3.633954	1.982203434	19.65655255	-17	5.669881	1.997697972	-9.584473619
86	22	6.1	3.656736	1.982608499	19.73770463	-17.2	5.693193	1.997751089	-9.613680453
87	22	6.2	3.679267	1.98299996	19.81793463	-17.4	5.716238	1.997802389	-9.642550382
88	22	6.3	3.701554	1.983378415	19.89726309	-17.6	5.739021	1.997851955	-9.671091082
89	22	6.4	3.723601	1.983744432	19.97570988	-17.8	5.761548	1.997899864	-9.69930997
90	23	6.4	3.745414	1.984098548	20.05329423	-18	5.783825	1.997946189	-9.727214214
91	23	6.5	3.766997	1.984441269	20.13003476	-18.2	5.805858	1.997990998	-9.754810747
92	23	6.6	3.788355	1.984773078	20.20594947	-18.4	5.827651	1.998034358	-9.782106275
93	23	6.6	3.809493	1.985094432	20.28105583	-18.6	5.849209	1.99807633	-9.809107287
94	24	6.7	3.830414	1.985405762	20.35537073	-18.8	5.870539	1.998116973	-9.835820065
95	24	6.8	3.851124	1.98570748	20.42891057	-19	5.891644	1.998156341	-9.862250691
96	24	6.9	3.871626	1.985999976	20.50169123	-19.2	5.91253	1.998194489	-9.88840506
97	24	6.9	3.891924	1.98628362	20.57372813	-19.4	5.9332	1.998231465	-9.91428888
98	25	7	3.912023	1.986558764	20.64503619	-19.6	5.953659	1.998267317	-9.939907687
99	25	7.1	3.931926	1.986825744	20.71562994	-19.8	5.973911	1.998302091	-9.965266849
100	25	7.1	3.951636	1.987084878	20.78552345	-20	5.993961	1.998335829	-9.99037157
101	25	7.2	3.971158	1.98733647	20.85473037	-20.2	6.013813	1.998368572	-10.0152269
102	26	7.3	3.990495	1.987580807	20.923264	-20.4	6.03347	1.998400358	-10.03983775
103	26	7.4	4.00965	1.987818166	20.99113721	-20.6	6.052936	1.998431224	-10.06420887
104	26	7.4	4.028626	1.988048808	21.05836255	-20.8	6.072215	1.998461206	-10.08834488
105	26	7.5	4.047428	1.988272984	21.12495219	-21	6.09131	1.998490338	-10.11225027
106	27	7.6	4.066057	1.988490933	21.19091798	-21.2	6.110225	1.99851865	-10.13592942
107	27	7.6	4.084518	1.988702882	21.25627142	-21.4	6.128963	1.998546173	-10.15938654
108	27	7.7	4.102812	1.988909049	21.32102372	-21.6	6.147528	1.998572937	-10.18262577
109	27	7.8	4.120943	1.989109641	21.38518577	-21.8	6.165922	1.998598968	-10.20565112
110	28	7.9	4.138915	1.989304857	21.44876819	-22	6.184149	1.998624295	-10.22846648
111	28	7.9	4.156728	1.989494887	21.5117813	-22.2	6.202212	1.99864894	-10.25107565
112	28	8	4.174387	1.989679913	21.57423514	-22.4	6.220113	1.99867293	-10.27348231
113	28	8.1	4.191894	1.989860107	21.63613951	-22.6	6.237856	1.998696287	-10.29569006
114	29	8.1	4.209251	1.990035637	21.69750395	-22.8	6.255443	1.998719032	-10.31770241
115	29	8.2	4.226461	1.990206661	21.75833774	-23	6.272877	1.998741188	-10.33952274
116	29	8.3	4.243527	1.990373332	21.81864994	-23.2	6.290161	1.998762774	-10.36115439
117	29	8.4	4.26045	1.990535796	21.87844938	-23.4	6.307297	1.99878381	-10.38260059
118	30	8.4	4.277233	1.990694193	21.93774466	-23.6	6.324287	1.998804314	-10.40386449
119	30	8.5	4.293878	1.990848658	21.99654417	-23.8	6.341135	1.998824304	-10.42494915
120	30	8.6	4.310388	1.990999318	22.0548561	-24	6.357842	1.998843797	-10.44585758
121	30	8.6	4.326765	1.991146298	22.11268842	-24.2	6.374411	1.998862809	-10.46659269
122	31	8.7	4.34301	1.991289716	22.17004894	-24.4	6.390845	1.998881356	-10.48715734
123	31	8.8	4.359126	1.991429686	22.22694526	-24.6	6.407144	1.998899454	-10.50755429
124	31	8.9	4.375115	1.991566318	22.28338478	-24.8	6.423312	1.998917116	-10.52778627
125	31	8.9	4.390979	1.991699716	22.33937477	-25	6.43935	1.998934356	-10.54785591
126	32	9	4.406719	1.991829981	22.3949223	-25.2	6.455261	1.998951188	-10.5677658
127	32	9.1	4.422338	1.991957211	22.45003427	-25.4	6.471047	1.998967625	-10.58751847
128	32	9.1	4.437838	1.992081499	22.50471744	-25.6	6.486709	1.998983678	-10.60711637

TAB #3: DATA SORTED													
Comment	Min	Sec	1/100	Frame #	Track length	Track thickness	X (pixels)	Y (pixels)	X source offset (mm)	Y source offset (mm)	R		
CALIBRATION													
Pinpoint (source)	3	28	3	6242	N/A	N/A	703	345					
Boundary below point	3	28	3	6242	N/A	N/A	705	631					
Boundary above point	3	28	3	6242	N/A	N/A	699	6			Diameter =	625 pixels	
Boundary left of point	3	28	3	6242	N/A	N/A	405	340			Pixel =	0.16 mm	
Boundary right of point	3	28	3	6242	N/A	N/A	1049	342			Height (a) =	2.25 mm	
Last data frame	4	45	46	8565	N/A	N/A	N/A	N/A			Height (b) =	3.5 mm	
First data frame	3	15	3	5852	N/A	N/A	N/A	N/A					
SORTED TRACK STARTS													
	4	11	76	7554	Long	Sharp	704	345	0.16	0	0.16	1	
	3	39	30	6580	Short	Diffuse	700	348	-0.48	-0.48	0.68	2	
	4	8	66	7461	Short	Sharp	701	349	-0.32	-0.64	0.72	3	
	3	48	76	6864	Short	Sharp	699	342	-0.64	0.48	0.80	4	
	4	44	36	8532	Short	Sharp	704	340	0.16	0.8	0.82	5	
	4	9	83	7496	Short	Diffuse	700	351	-0.48	-0.96	1.07	6	
	3	43	96	6720	Short	Sharp	704	338	0.16	1.12	1.13	7	
	4	13	23	7598	Short	Diffuse	704	338	0.16	1.12	1.13	8	
	4	41	36	8442	Short	Diffuse	699	351	-0.64	-0.96	1.15	9	
	4	6	46	7395	Short	Diffuse	705	352	0.32	-1.12	1.16	10	
	4	35	0	8251	Short	Sharp	710	342	1.12	0.48	1.22	11	
	3	43	23	6698	Short	Sharp	710	349	1.12	-0.64	1.29	12	
	4	14	26	7629	Long	Sharp	699	338	-0.64	1.12	1.29	13	
	4	4	33	7331	Short	Diffuse	705	336	0.32	1.44	1.48	14	
	4	5	70	7372	Short	Sharp	705	336	0.32	1.44	1.48	15	
	4	29	10	8074	Short	Diffuse	710	338	1.12	1.12	1.58	16	
	3	51	20	6937	Long	Diffuse	713	345	1.6	0	1.60	17	
	3	51	66	6951	Short	Sharp	713	345	1.6	0	1.60	18	
	4	15	26	7656	Long	Diffuse	693	344	-1.6	0.16	1.61	19	
	4	19	36	7782	Short	Diffuse	710	337	1.12	1.28	1.70	20	
	4	41	16	8436	Short	Diffuse	712	351	1.44	-0.96	1.73	21	
	3	45	23	6758	Short	Sharp	711	354	1.28	-1.44	1.93	22	

	3	45	46	6765	Long	Sharp	694	337	-1.44	1.28	1.93	23	
	4	22	33	7871	Short	Diffuse	694	353	-1.44	-1.28	1.93	24	
	4	10	26	7509	Long	Sharp	714	340	1.76	0.8	1.93	25	
	4	29	56	8088	Short	Diffuse	707	333	0.64	1.92	2.02	26	
	3	53	43	7004	Short	Diffuse	712	336	1.44	1.44	2.04	27	
	4	19	46	7785	Short	Diffuse	713	337	1.6	1.28	2.05	28	
	4	29	10	8074	Long	Sharp	716	345	2.08	0	2.08	29	
	4	17	23	7718	Long	Sharp	714	337	1.76	1.28	2.18	30	
	3	24	86	6147	Long	Sharp	715	338	1.92	1.12	2.22	31	
	4	0	56	7218	Short	Diffuse	701	359	-0.32	-2.24	2.26	32	
	4	32	50	8176	Long	Sharp	717	343	2.24	0.32	2.26	33	
	4	16	30	7690	Long	Sharp	708	331	0.8	2.24	2.38	34	
	3	43	93	6719	Short	Diffuse	715	336	1.92	1.44	2.40	35	
	3	47	46	6825	Long	Sharp	712	332	1.44	2.08	2.53	36	
	4	21	86	7857	Long	Sharp	716	336	2.08	1.44	2.53	37	
	4	24	30	7930	Short	Sharp	698	330	-0.8	2.4	2.53	38	
	3	59	90	7198	Short	Diffuse	717	337	2.24	1.28	2.58	39	
	4	25	73	7973	Short	Sharp	706	329	0.48	2.56	2.60	40	
	4	15	26	7666	Long	Sharp	710	330	1.12	2.4	2.65	41	
	4	13	93	7619	Long	Sharp	709	329	0.96	2.56	2.73	42	
	4	28	50	8056	Short	Sharp	716	357	2.08	-1.92	2.83	43	
	4	25	43	7964	Short	Diffuse	720	340	2.72	0.8	2.84	44	
	4	24	43	7934	Short	Diffuse	702	327	-0.16	2.88	2.88	45	
	4	36	30	8290	Short	Sharp	716	358	2.08	-2.08	2.94	46	
	3	41	46	6645	Long	Sharp	715	331	1.92	2.24	2.95	47	
	3	59	60	7189	Long	Sharp	703	326	0	3.04	3.04	48	
	4	15	56	7677	Long	Diffuse	722	347	3.04	-0.32	3.06	49	
	3	57	86	7137	Long	Sharp	688	358	-2.4	-2.08	3.18	50	
	3	57	50	7126	Short	Sharp	721	354	2.88	-1.44	3.22	51	
	3	29	60	6289	Short	Diffuse	723	349	3.2	-0.64	3.26	52	
	3	44	33	6731	Short	Sharp	688	331	-2.4	2.24	3.28	53	
	3	52	36	6972	Short	Sharp	721	335	2.88	1.6	3.29	54	
	4	3	10	7294	Short	Sharp	723	339	3.2	0.96	3.34	55	
	4	42	53	8477	Long	Sharp	724	341	3.36	0.64	3.42	56	
	4	3	73	7313	Short	Sharp	725	346	3.52	-0.16	3.52	57	
	3	37	80	6535	Short	Sharp	706	323	0.48	3.52	3.55	58	

	3	55	56	7068	Short	Diffuse	726	346	3.68	-0.16	3.68	59	
	4	3	53	7307	Short	Diffuse	726	350	3.68	-0.8	3.77	60	
	3	38	26	6549	Long	Sharp	723	332	3.2	2.08	3.82	61	
	3	40	23	6608	Short	Diffuse	680	352	-3.68	-1.12	3.85	62	
	3	50	46	6915	Short	Sharp	682	332	-3.36	2.08	3.95	63	
	3	36	0	6481	Short	Diffuse	680	355	-3.68	-1.6	4.01	64	
	4	22	60	7879	Short	Diffuse	678	349	-4	-0.64	4.05	65	
	4	28	43	8054	Short	Sharp	681	358	-3.52	-2.08	4.09	66	
	3	52	70	6982	Short	Diffuse	694	369	-1.44	-3.84	4.10	67	
	3	50	80	6925	Long	Sharp	704	319	0.16	4.16	4.16	68	
	3	53	26	6999	Short	Sharp	685	325	-2.88	3.2	4.31	69	
	4	15	73	7658	Long	Sharp	686	366	-2.72	-3.36	4.32	70	
	3	49	23	6878	Short	Diffuse	730	351	4.32	-0.96	4.43	71	
	4	7	6	7413	Long	Sharp	687	322	-2.56	3.68	4.48	72	
	3	57	16	7116	Short	Diffuse	728	358	4	-2.08	4.51	73	
	2	49	3	5072	Long	Sharp	682	326	-3.36	3.04	4.53	74	
	3	32	0	6361	Long	Sharp	731	340	4.48	0.8	4.55	75	
	4	42	66	8481	Short	Diffuse	684	323	-3.04	3.52	4.65	76	
	3	47	96	6840	Long	Sharp	704	315	0.16	4.8	4.80	77	
	4	12	60	7579	Long	Sharp	692	317	-1.76	4.48	4.81	78	
	4	14	23	7628	Long	Sharp	675	334	-4.48	1.76	4.81	79	
	3	37	60	6529	Long	Sharp	688	318	-2.4	4.32	4.94	80	
	3	57	43	7124	Short	Diffuse	729	362	4.16	-2.72	4.97	81	
	3	37	30	6520	Long	Sharp	732	357	4.64	-1.92	5.02	82	
	3	55	3	7052	Long	Sharp	675	361	-4.48	-2.56	5.16	83	
	4	9	0	7471	Long	Sharp	732	360	4.64	-2.4	5.22	84	
	3	40	23	6608	Long	Sharp	734	356	4.96	-1.76	5.26	85	
	4	9	33	7481	Long	Sharp	676	364	-4.32	-3.04	5.28	86	
	3	40	53	6617	Long	Sharp	676	325	-4.32	3.2	5.38	87	
	3	22	53	6077	Short	Diffuse	735	356	5.12	-1.76	5.41	88	
	3	34	10	6424	Short	Sharp	728	322	4	3.68	5.44	89	
	3	39	30	6580	Long	Sharp	735	357	5.12	-1.92	5.47	90	
	3	34	30	6430	Long	Sharp	686	315	-2.72	4.8	5.52	91	
	3	17	56	5928	Short	Diffuse	726	371	3.68	-4.16	5.55	92	
	3	30	23	6308	Short	Diffuse	703	310	0	5.6	5.60	93	
	3	34	33	6431	Short	Diffuse	705	310	0.32	5.6	5.61	94	

	3	39	70	6592	Long	Sharp	726	318	3.68	4.32	5.67	95	
	3	39	23	6578	Long	Sharp	738	351	5.6	-0.96	5.68	96	
	3	41	70	6652	Long	Sharp	671	361	-5.12	-2.56	5.72	97	
	3	16	33	5891	Short	Diffuse	729	370	4.16	-4	5.77	98	
	4	11	0	7531	Short	Diffuse	738	356	5.6	-1.76	5.87	99	
	3	34	23	6428	Short	Diffuse	685	377	-2.88	-5.12	5.87	100	
	4	2	0	7261	Long	Sharp	675	370	-4.48	-4	6.01	101	
	3	16	30	5890	Long	Sharp	712	382	1.44	-5.92	6.09	102	
	4	15	93	7679	Long	Diffuse	665	351	-6.08	-0.96	6.16	103	
	3	21	3	6032	Short	Diffuse	717	381	2.24	-5.76	6.18	104	
	3	28	16	6246	Long	Sharp	702	306	-0.16	6.24	6.24	105	
	3	17	56	5928	Short	Sharp	727	376	3.84	-4.96	6.27	106	
	3	25	53	6167	Long	Diffuse	699	384	-0.64	-6.24	6.27	107	
	3	50	3	6902	Long	Sharp	742	341	6.24	0.64	6.27	108	
	4	6	56	7398	Short	Diffuse	741	355	6.08	-1.6	6.29	109	
	3	28	66	6261	Short	Sharp	734	320	4.96	4	6.37	110	
	4	17	50	7726	Short	Diffuse	682	311	-3.36	5.44	6.39	111	
	3	44	13	6725	Long	Sharp	663	348	-6.4	-0.48	6.42	112	
	3	44	16	6726	Long	Sharp	662	345	-6.56	0	6.56	113	
	4	11	6	7533	Long	Sharp	662	350	-6.56	-0.8	6.61	114	
	4	17	50	7726	Short	Diffuse	706	303	0.48	6.72	6.74	115	
	3	47	80	6835	Long	Sharp	746	346	6.88	-0.16	6.88	116	
	4	2	56	7278	Long	Sharp	661	356	-6.72	-1.76	6.95	117	
	3	26	53	6197	Short	Diffuse	741	368	6.08	-3.68	7.11	118	
	3	29	6	6273	Long	Sharp	746	357	6.88	-1.92	7.14	119	
	3	26	26	6189	Long	Sharp	725	306	3.52	6.24	7.16	120	
	3	44	90	6748	Long	Sharp	663	324	-6.4	3.36	7.23	121	
	3	32	83	6386	Short	Diffuse	686	303	-2.72	6.72	7.25	122	
	3	46	36	6792	Long	Sharp	748	337	7.2	1.28	7.31	123	
	3	30	56	6318	Short	Diffuse	680	385	-3.68	-6.4	7.38	124	
	3	42	36	6672	Short	Diffuse	745	365	6.72	-3.2	7.44	125	
	4	14	50	7636	Long	Sharp	661	325	-6.72	3.2	7.44	126	
	4	7	13	7415	Long	Diffuse	749	338	7.36	1.12	7.44	127	
	4	31	66	8151	Short	Sharp	662	367	-6.56	-3.52	7.44	128	
	4	2	86	7287	Short	Diffuse	746	363	6.88	-2.88	7.46	129	
	3	35	20	6457	Long	Sharp	743	319	6.4	4.16	7.63	130	

	4	34	33	8231	Long	Diffuse	656	335	-7.52	1.6	7.69	131	
	3	19	26	5979	Short	Diffuse	674	384	-4.64	-6.24	7.78	132	
	3	44	46	6735	Long	Sharp	694	297	-1.44	7.68	7.81	133	
	4	33	6	8193	Long	Sharp	661	320	-6.72	4	7.82	134	
	3	53	6	6993	Short	Diffuse	752	344	7.84	0.16	7.84	135	
	3	58	63	7160	Long	Diffuse	749	328	7.36	2.72	7.85	136	
	3	27	53	6227	Short	Diffuse	673	384	-4.8	-6.24	7.87	137	
	3	27	53	6227	Long	Sharp	658	324	-7.2	3.36	7.95	138	
	3	36	90	6508	Long	Sharp	657	364	-7.36	-3.04	7.96	139	
	4	23	26	7899	Long	Diffuse	734	306	4.96	6.24	7.97	140	
	3	30	50	6316	Long	Sharp	748	367	7.2	-3.52	8.01	141	
	4	8	0	7441	Long	Sharp	714	296	1.76	7.84	8.04	142	
	3	24	86	6147	Long	Sharp	718	297	2.4	7.68	8.05	143	
	3	36	43	6494	Short	Diffuse	748	368	7.2	-3.68	8.09	144	
	4	6	30	7390	Long	Sharp	753	337	8	1.28	8.10	145	
	3	40	93	6629	Long	Diffuse	746	318	6.88	4.32	8.12	146	
	4	1	40	7243	Long	Sharp	666	310	-5.92	5.6	8.15	147	
	3	37	73	6533	Long	Sharp	661	374	-6.72	-4.64	8.17	148	
	4	22	80	7885	Short	Diffuse	658	320	-7.2	4	8.24	149	
	3	28	63	6260	Long	Sharp	655	366	-7.68	-3.36	8.38	150	
	4	6	26	7389	Long	Sharp	755	336	8.32	1.44	8.44	151	
	4	22	60	7879	Short	Diffuse	681	393	-3.52	-7.68	8.45	152	
	4	10	3	7502	Long	Sharp	658	317	-7.2	4.48	8.48	153	
	4	12	6	7563	Long	Sharp	742	382	6.24	-5.92	8.60	154	
	4	23	26	7899	Short	Diffuse	666	384	-5.92	-6.24	8.60	155	
	3	48	3	6842	Short	Sharp	757	342	8.64	0.48	8.65	156	
	3	47	86	6837	Long	Sharp	662	309	-6.56	5.76	8.73	157	
	3	29	23	6278	Short	Diffuse	656	317	-7.52	4.48	8.75	158	
	3	35	96	6480	Long	Sharp	655	372	-7.68	-4.32	8.81	159	
	3	17	46	5925	Short	Diffuse	735	390	5.12	-7.2	8.83	160	
	3	15	20	5857	Long	Sharp	731	393	4.48	-7.68	8.89	161	
	3	18	93	5969	Short	Sharp	729	295	4.16	8	9.02	162	
	3	18	43	5954	Long	Sharp	759	352	8.96	-1.12	9.03	163	
	3	27	66	6231	Long	Diffuse	739	389	5.76	-7.04	9.10	164	
	4	17	93	7739	Long	Sharp	654	316	-7.84	4.64	9.11	165	
	3	31	10	6334	Short	Diffuse	655	314	-7.68	4.96	9.14	166	

	3	23	73	6113	Long	Sharp	653	375	-8	-4.8	9.33	167	
	4	23	73	7913	Long	Diffuse	653	315	-8	4.8	9.33	168	
	3	19	93	5999	Long	Sharp	720	289	2.72	8.96	9.36	169	
	4	27	76	8034	Short	Sharp	685	289	-2.88	8.96	9.41	170	
	3	38	30	6550	Long	Sharp	746	304	6.88	6.56	9.51	171	
	4	36	26	8289	Short	Diffuse	658	306	-7.2	6.24	9.53	172	
	3	27	90	6238	Short	Sharp	758	322	8.8	3.68	9.54	173	
	3	34	63	6440	Short	Sharp	657	306	-7.36	6.24	9.65	174	
	3	20	43	6014	Long	Sharp	686	287	-2.72	9.28	9.67	175	
	4	35	23	8258	Short	Diffuse	644	359	-9.44	-2.24	9.70	176	
	3	33	96	6420	Long	Sharp	723	286	3.2	9.44	9.97	177	
	3	36	56	6498	Short	Diffuse	762	368	9.44	-3.68	10.13	178	
	3	31	10	6334	Short	Diffuse	669	291	-5.44	8.64	10.21	179	
	3	36	36	6492	Short	Diffuse	698	410	-0.8	-10.4	10.43	180	
	3	21	96	6060	Short	Diffuse	720	282	2.72	10.08	10.44	181	
	3	30	23	6308	Long	Sharp	737	289	5.44	8.96	10.48	182	
	3	28	0	6241	Long	Sharp	769	346	10.56	-0.16	10.56	183	
	3	22	86	6087	Long	Sharp	715	280	1.92	10.4	10.58	184	
	3	48	40	6853	Short	Diffuse	748	296	7.2	7.84	10.64	185	
	3	17	90	5938	Long	Sharp	700	278	-0.48	10.72	10.73	186	
	3	29	6	6273	Long	Sharp	767	371	10.24	-4.16	11.05	187	
	3	32	96	6390	Long	Sharp	736	281	5.28	10.24	11.52	188	
	4	20	30	7810	Long	Sharp	733	278	4.8	10.72	11.75	189	
	3	32	20	6367	Short	Sharp	641	305	-9.92	6.4	11.81	190	
	3	27	23	6218	Long	Sharp	687	418	-2.56	-11.68	11.96	191	
	4	11	96	7560	Long	Sharp	638	306	-10.4	6.24	12.13	192	
	3	34	73	6443	Long	Sharp	640	302	-10.08	6.88	12.20	193	
	4	41	73	8453	Short	Diffuse	627	361	-12.16	-2.56	12.43	194	
	3	15	56	5868	Short	Diffuse	757	285	8.64	9.6	12.92	195	
	3	47	23	6818	Short	Diffuse	781	367	12.48	-3.52	12.97	196	
	3	17	20	5917	Long	Diffuse	758	285	8.8	9.6	13.02	197	
	3	35	20	6457	Long	Sharp	658	277	-7.2	10.88	13.05	198	
	3	43	73	6713	Long	Sharp	754	281	8.16	10.24	13.09	199	
	3	15	70	5872	Short	Diffuse	762	286	9.44	9.44	13.35	200	
	3	19	60	5989	Short	Diffuse	769	397	10.56	-8.32	13.44	201	
	3	18	26	5949	Long	Sharp	769	292	10.56	8.48	13.54	202	

	3	17	26	5919	Short	Diffuse	653	276	-8	11.04	13.63	203	
	3	15	20	5857	Short	Diffuse	735	424	5.12	-12.64	13.64	204	
	3	16	43	5894	Long	Diffuse	788	334	13.6	1.76	13.71	205	
	3	36	23	6488	Long	Sharp	739	266	5.76	12.64	13.89	206	
	4	20	20	7807	Long	Sharp	750	267	7.52	12.48	14.57	207	
	3	17	86	5937	Short	Sharp	789	376	13.76	-4.96	14.63	208	
	4	14	63	7640	Short	Sharp	644	272	-9.44	11.68	15.02	209	
	3	50	30	6910	Short	Diffuse	610	331	-14.88	2.24	15.05	210	
	4	15	76	7672	Short	Diffuse	791	310	14.08	5.6	15.15	211	
	3	23	70	6112	Long	Diffuse	625	291	-12.48	8.64	15.18	212	
	3	25	30	6160	Short	Diffuse	742	257	6.24	14.08	15.40	213	
	3	23	23	6098	Long	Sharp	743	256	6.4	14.24	15.61	214	
	4	27	53	8027	Long	Diffuse	626	285	-12.32	9.6	15.62	215	
	3	50	16	6906	Short	Diffuse	605	329	-15.68	2.56	15.89	216	
	3	16	23	5888	Short	Sharp	619	404	-13.44	-9.44	16.42	217	
	3	16	53	5897	Short	Diffuse	608	304	-15.2	6.56	16.56	218	
	4	33	6	8193	Short	Diffuse	606	305	-15.52	6.4	16.79	219	
	3	21	23	6038	Long	Diffuse	800	294	15.52	8.16	17.53	220	
	3	18	66	5961	Long	Sharp	818	312	18.4	5.28	19.14	221	
	3	24	43	6134	Long	Sharp	595	282	-17.28	10.08	20.01	222	
	3	15	93	5879	Long	Diffuse	827	380	19.84	-5.6	20.62	223	
	4	18	53	7757	Short	Diffuse	626	236	-12.32	17.44	21.35	224	
	3	50	20	6907	Short	Diffuse	569	315	-21.44	4.8	21.97	225	
	4	26	40	7993	Long	Diffuse	567	372	-21.76	-4.32	22.18	226	
	3	27	23	6218	Long	Sharp	663	525	-6.4	-28.8	29.50	227	
	3	23	70	6112	Short	Diffuse	515	335	-30.08	1.6	30.12	228	
CORRESPONDING IDEAL CUMULATIVE TRACK DISTRIBUTION - NO CUTOFF													
COPIED FROM PRECEDING TAB													
											0.25	0.78	
											0.50	3.02	
											0.75	6.51	
											1.00	10.96	
											1.25	16.09	
											1.50	21.68	
											1.75	27.53	
											2.00	33.51	

												2.25	39.53	
												2.50	45.50	
												2.75	51.39	
												3.00	57.16	
												3.25	62.79	
												3.50	68.26	
												3.75	73.58	
												4.00	78.73	
												4.25	83.72	
												4.50	88.56	
												4.75	93.24	
												5.00	97.77	
												5.25	102.16	
												5.50	106.42	
												5.75	110.54	
												6.00	114.53	
												6.25	118.41	

TAB #4: CUTOFF MODELS, DIVIDED BY PI

a =	2.25 mm	h=	1.25
b =	3.5 mm	Active region scale	1.05
a-b=	-1.25 mm		
K =	22.5 mm		
K/b=	6.43		
sqrt(K^2-b^2)=	22.23 mm		
K/(a-b)=	-18.00		
sqrt(K^2-(a-b)^2)=	22.47 mm		
simple scale=	22.14		
subtractive scale=	28.23		

		Simple cutoff b part		Simple cutoff a-b part		Simple scaled
R	R/b	(C1)	R/(a-b)	(C1)		(C1)
0.25	0.07		0.77	-0.20	-0.74	0.70
0.50	0.14		1.50	-0.40	-1.38	2.74
0.75	0.21		2.20	-0.60	-1.93	5.91
1.00	0.29		2.86	-0.80	-2.41	9.94
1.25	0.36		3.49	-1.00	-2.83	14.60
1.50	0.43		4.09	-1.20	-3.20	19.67
1.75	0.50		4.66	-1.40	-3.53	24.99
2.00	0.57		5.20	-1.60	-3.82	30.42
2.25	0.64		5.71	-1.80	-4.09	35.88
2.50	0.71		6.20	-2.00	-4.33	41.30
2.75	0.79		6.66	-2.20	-4.55	46.64
3.00	0.86		7.10	-2.40	-4.76	51.88
3.25	0.93		7.52	-2.60	-4.95	56.98
3.50	1.00		7.92	-2.80	-5.13	61.95
3.75	1.07		8.31	-3.00	-5.29	66.78
4.00	1.14		8.68	-3.20	-5.45	71.45
4.25	1.21		9.03	-3.40	-5.59	75.98
4.50	1.29		9.36	-3.60	-5.73	80.37
4.75	1.36		9.69	-3.80	-5.87	84.62
5.00	1.43		10.00	-4.00	-5.99	88.74
5.25	1.50		10.30	-4.20	-6.11	92.72
5.50	1.57		10.59	-4.40	-6.23	96.58
5.75	1.64		10.87	-4.60	-6.33	100.32
6.00	1.71		11.13	-4.80	-6.44	103.95
6.25	1.79		11.39	-5.00	-6.54	107.47
6.50	1.86		11.65	-5.20	-6.64	110.88
6.75	1.93		11.89	-5.40	-6.73	114.20
7.00	2.00		12.12	-5.60	-6.82	117.42
7.25	2.07		12.35	-5.80	-6.91	120.55
7.50	2.14		12.57	-6.00	-6.99	123.60
7.75	2.21		12.79	-6.20	-7.07	126.56
8.00	2.29		13.00	-6.40	-7.15	129.45
8.25	2.36		13.20	-6.60	-7.23	132.26

8.50	2.43	13.40	-6.80	-7.30	135.00
8.75	2.50	13.59	-7.00	-7.37	137.68
9.00	2.57	13.78	-7.20	-7.44	140.28
9.25	2.64	13.96	-7.40	-7.51	142.83
9.50	2.71	14.14	-7.60	-7.58	145.32
9.75	2.79	14.32	-7.80	-7.64	147.75
10.00	2.86	14.49	-8.00	-7.71	150.13
10.25	2.93	14.65	-8.20	-7.77	152.45
10.50	3.00	14.82	-8.40	-7.83	154.73
10.75	3.07	14.97	-8.60	-7.89	156.95
11.00	3.14	15.13	-8.80	-7.94	159.13
11.25	3.21	15.28	-9.00	-8.00	161.27
11.50	3.29	15.43	-9.20	-8.05	163.36
11.75	3.36	15.58	-9.40	-8.11	165.41
12.00	3.43	15.72	-9.60	-8.16	167.42
12.25	3.50	15.86	-9.80	-8.21	169.40
12.50	3.57	16.00	-10.00	-8.26	171.33
12.75	3.64	16.14	-10.20	-8.31	173.23
13.00	3.71	16.27	-10.40	-8.36	175.10
13.25	3.79	16.40	-10.60	-8.41	176.93
13.50	3.86	16.53	-10.80	-8.45	178.74
13.75	3.93	16.65	-11.00	-8.50	180.51
14.00	4.00	16.78	-11.20	-8.54	182.25
14.25	4.07	16.90	-11.40	-8.59	183.96
14.50	4.14	17.02	-11.60	-8.63	185.64
14.75	4.21	17.13	-11.80	-8.67	187.30
15.00	4.29	17.25	-12.00	-8.72	188.93
15.25	4.36	17.36	-12.20	-8.76	190.53
15.50	4.43	17.48	-12.40	-8.80	192.11
15.75	4.50	17.59	-12.60	-8.84	193.67
16.00	4.57	17.69	-12.80	-8.88	195.20
16.25	4.64	17.80	-13.00	-8.91	196.71
16.50	4.71	17.91	-13.20	-8.95	198.20
16.75	4.79	18.01	-13.40	-8.99	199.66
17.00	4.86	18.11	-13.60	-9.03	201.11
17.25	4.93	18.21	-13.80	-9.06	202.53
17.50	5.00	18.31	-14.00	-9.10	203.94
17.75	5.07	18.41	-14.20	-9.14	205.32
18.00	5.14	18.51	-14.40	-9.17	206.69
18.25	5.21	18.60	-14.60	-9.20	208.04
18.50	5.29	18.70	-14.80	-9.24	209.37
18.75	5.36	18.79	-15.00	-9.27	210.69
19.00	5.43	18.88	-15.20	-9.31	211.98
19.25	5.50	18.97	-15.40	-9.34	213.27
19.50	5.57	19.06	-15.60	-9.37	214.53
19.75	5.64	19.15	-15.80	-9.40	215.78
20.00	5.71	19.24	-16.00	-9.43	217.01

20.25	5.79	19.32	-16.20	-9.46	218.23
20.50	5.86	19.41	-16.40	-9.49	219.44
20.75	5.93	19.49	-16.60	-9.53	220.63
21.00	6.00	19.57	-16.80	-9.55	221.81
21.25	6.07	19.66	-17.00	-9.58	222.97
21.50	6.14	19.74	-17.20	-9.61	224.12
21.75	6.21	19.82	-17.40	-9.64	225.26
22.00	6.29	19.90	-17.60	-9.67	226.38
22.25	6.36	19.98	-17.80	-9.70	227.49
22.50	6.43	20.03	-18.00	-9.73	228.00
22.75	6.50	20.03	-18.20	-9.73	228.00
23.00	6.57	20.03	-18.40	-9.73	228.00
23.25	6.64	20.03	-18.60	-9.73	228.00
23.50	6.71	20.03	-18.80	-9.73	228.00
23.75	6.79	20.03	-19.00	-9.73	228.00
24.00	6.86	20.03	-19.20	-9.73	228.00
24.25	6.93	20.03	-19.40	-9.73	228.00
24.50	7.00	20.03	-19.60	-9.73	228.00
24.75	7.07	20.03	-19.80	-9.73	228.00
25.00	7.14	20.03	-20.00	-9.73	228.00
25.25	7.21	20.03	-20.20	-9.73	228.00
25.50	7.29	20.03	-20.40	-9.73	228.00
25.75	7.36	20.03	-20.60	-9.73	228.00
26.00	7.43	20.03	-20.80	-9.73	228.00
26.25	7.50	20.03	-21.00	-9.73	228.00
26.50	7.57	20.03	-21.20	-9.73	228.00
26.75	7.64	20.03	-21.40	-9.73	228.00
27.00	7.71	20.03	-21.60	-9.73	228.00
27.25	7.79	20.03	-21.80	-9.73	228.00
27.50	7.86	20.03	-22.00	-9.73	228.00
27.75	7.93	20.03	-22.20	-9.73	228.00
28.00	8.00	20.03	-22.40	-9.73	228.00
28.25	8.07	20.03	-22.60	-9.73	228.00
28.50	8.14	20.03	-22.80	-9.73	228.00
28.75	8.21	20.03	-23.00	-9.73	228.00
29.00	8.29	20.03	-23.20	-9.73	228.00
29.25	8.36	20.03	-23.40	-9.73	228.00
29.50	8.43	20.03	-23.60	-9.73	228.00
29.75	8.50	20.03	-23.80	-9.73	228.00
30.00	8.57	20.03	-24.00	-9.73	228.00
30.25	8.64	20.03	-24.20	-9.73	228.00
30.50	8.71	20.03	-24.40	-9.73	228.00
30.75	8.79	20.03	-24.60	-9.73	228.00
31.00	8.86	20.03	-24.80	-9.73	228.00
31.25	8.93	20.03	-25.00	-9.73	228.00
31.50	9.00	20.03	-25.20	-9.73	228.00
31.75	9.07	20.03	-25.40	-9.73	228.00

32.00	9.14	20.03	-25.60	-9.73	228.00
32.25	9.21	20.03	-25.80	-9.73	228.00
32.50	9.29	20.03	-26.00	-9.73	228.00
32.75	9.36	20.03	-26.20	-9.73	228.00
33.00	9.43	20.03	-26.40	-9.73	228.00
33.25	9.50	20.03	-26.60	-9.73	228.00
33.50	9.57	20.03	-26.80	-9.73	228.00
33.75	9.64	20.03	-27.00	-9.73	228.00
34.00	9.71	20.03	-27.20	-9.73	228.00
34.25	9.79	20.03	-27.40	-9.73	228.00
34.50	9.86	20.03	-27.60	-9.73	228.00
34.75	9.93	20.03	-27.80	-9.73	228.00
35.00	10.00	20.03	-28.00	-9.73	228.00
35.25	10.07	20.03	-28.20	-9.73	228.00
35.50	10.14	20.03	-28.40	-9.73	228.00
35.75	10.21	20.03	-28.60	-9.73	228.00
36.00	10.29	20.03	-28.80	-9.73	228.00
36.25	10.36	20.03	-29.00	-9.73	228.00
36.50	10.43	20.03	-29.20	-9.73	228.00
36.75	10.50	20.03	-29.40	-9.73	228.00
37.00	10.57	20.03	-29.60	-9.73	228.00
37.25	10.64	20.03	-29.80	-9.73	228.00
37.50	10.71	20.03	-30.00	-9.73	228.00
37.75	10.79	20.03	-30.20	-9.73	228.00
38.00	10.86	20.03	-30.40	-9.73	228.00
38.25	10.93	20.03	-30.60	-9.73	228.00
38.50	11.00	20.03	-30.80	-9.73	228.00
38.75	11.07	20.03	-31.00	-9.73	228.00
39.00	11.14	20.03	-31.20	-9.73	228.00
39.25	11.21	20.03	-31.40	-9.73	228.00
39.50	11.29	20.03	-31.60	-9.73	228.00
39.75	11.36	20.03	-31.80	-9.73	228.00
40.00	11.43	20.03	-32.00	-9.73	228.00
40.25	11.50	20.03	-32.20	-9.73	228.00
40.50	11.57	20.03	-32.40	-9.73	228.00
40.75	11.64	20.03	-32.60	-9.73	228.00
41.00	11.71	20.03	-32.80	-9.73	228.00
41.25	11.79	20.03	-33.00	-9.73	228.00
41.50	11.86	20.03	-33.20	-9.73	228.00
41.75	11.93	20.03	-33.40	-9.73	228.00
42.00	12.00	20.03	-33.60	-9.73	228.00
42.25	12.07	20.03	-33.80	-9.73	228.00
42.50	12.14	20.03	-34.00	-9.73	228.00
42.75	12.21	20.03	-34.20	-9.73	228.00
43.00	12.29	20.03	-34.40	-9.73	228.00
43.25	12.36	20.03	-34.60	-9.73	228.00
43.50	12.43	20.03	-34.80	-9.73	228.00

43.75	12.50	20.03	-35.00	-9.73	228.00
44.00	12.57	20.03	-35.20	-9.73	228.00
44.25	12.64	20.03	-35.40	-9.73	228.00
44.50	12.71	20.03	-35.60	-9.73	228.00
44.75	12.79	20.03	-35.80	-9.73	228.00
45.00	12.86	20.03	-36.00	-9.73	228.00
45.25	12.93	20.03	-36.20	-9.73	228.00
45.50	13.00	20.03	-36.40	-9.73	228.00
45.75	13.07	20.03	-36.60	-9.73	228.00
46.00	13.14	20.03	-36.80	-9.73	228.00
46.25	13.21	20.03	-37.00	-9.73	228.00
46.50	13.29	20.03	-37.20	-9.73	228.00
46.75	13.36	20.03	-37.40	-9.73	228.00
47.00	13.43	20.03	-37.60	-9.73	228.00
47.25	13.50	20.03	-37.80	-9.73	228.00
47.50	13.57	20.03	-38.00	-9.73	228.00
47.75	13.64	20.03	-38.20	-9.73	228.00
48.00	13.71	20.03	-38.40	-9.73	228.00
48.25	13.79	20.03	-38.60	-9.73	228.00
48.50	13.86	20.03	-38.80	-9.73	228.00
48.75	13.93	20.03	-39.00	-9.73	228.00
49.00	14.00	20.03	-39.20	-9.73	228.00
49.25	14.07	20.03	-39.40	-9.73	228.00
49.50	14.14	20.03	-39.60	-9.73	228.00
49.75	14.21	20.03	-39.80	-9.73	228.00
50.00	14.29	20.03	-40.00	-9.73	228.00

mm

height of source above hypothetical active region

Subtraction b part (C1-C2)	Subtraction a-b part (C1-C2)	Subtractive scaled (C2)	Active region solid angle
0.00	0.00	0.89	4.65
0.00	0.00	3.46	17.12
0.00	0.00	7.46	34.12
0.01	0.00	12.55	52.46
0.01	0.00	18.43	70.12
0.02	-0.01	24.81	86.14
0.02	-0.01	31.48	100.25
0.03	-0.01	38.29	112.52
0.04	-0.01	45.12	123.14
0.04	-0.02	51.88	132.34
0.05	-0.02	58.53	140.34
0.06	-0.02	65.03	147.32
0.07	-0.03	71.34	153.46
0.08	-0.03	77.47	158.88
0.10	-0.03	83.39	163.70
0.11	-0.04	89.11	167.99
0.12	-0.04	94.63	171.85
0.14	-0.05	99.95	175.33
0.16	-0.06	105.08	178.47
0.17	-0.06	110.02	181.34
0.19	-0.07	114.78	183.95
0.21	-0.07	119.37	186.34
0.23	-0.08	123.79	188.54
0.25	-0.09	128.04	190.57
0.27	-0.10	132.14	192.45
0.29	-0.10	136.10	194.19
0.32	-0.11	139.91	195.81
0.34	-0.12	143.59	197.32
0.36	-0.13	147.14	198.72
0.39	-0.14	150.56	200.04
0.42	-0.15	153.86	201.28
0.44	-0.16	157.05	202.44
0.47	-0.17	160.13	203.54

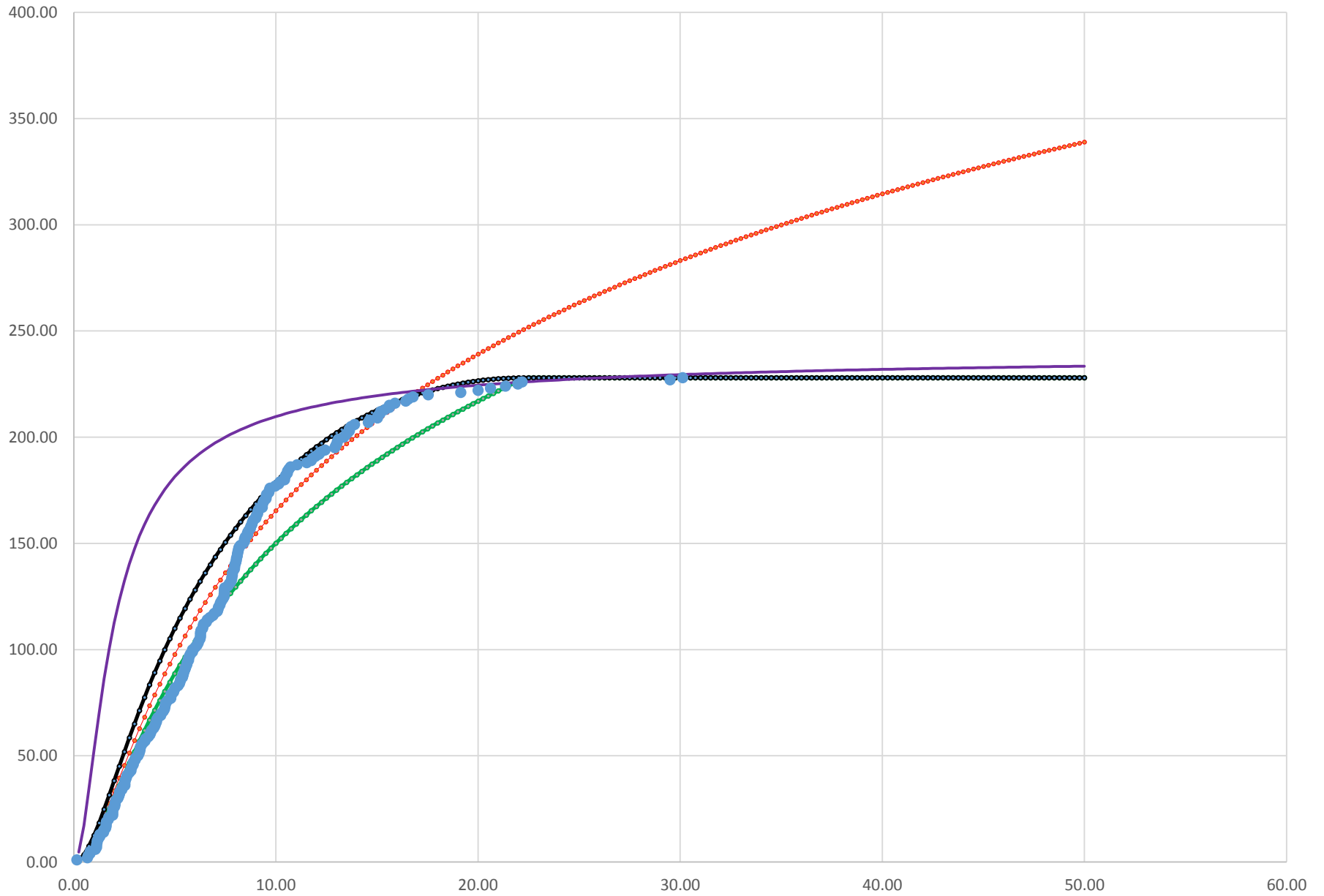
0.50	-0.18	163.10	204.57
0.53	-0.19	165.97	205.54
0.56	-0.20	168.74	206.47
0.59	-0.21	171.41	207.34
0.62	-0.22	174.00	208.17
0.66	-0.23	176.49	208.96
0.69	-0.25	178.90	209.71
0.73	-0.26	181.23	210.42
0.76	-0.27	183.48	211.10
0.80	-0.29	185.65	211.75
0.84	-0.30	187.75	212.37
0.88	-0.31	189.78	212.96
0.91	-0.33	191.73	213.53
0.95	-0.34	193.62	214.07
1.00	-0.36	195.44	214.60
1.04	-0.37	197.20	215.10
1.08	-0.39	198.89	215.58
1.12	-0.40	200.52	216.04
1.17	-0.42	202.09	216.49
1.21	-0.43	203.61	216.91
1.26	-0.45	205.07	217.33
1.31	-0.47	206.47	217.73
1.36	-0.48	207.82	218.11
1.40	-0.50	209.12	218.48
1.45	-0.52	210.36	218.84
1.50	-0.54	211.56	219.18
1.56	-0.56	212.70	219.52
1.61	-0.57	213.80	219.84
1.66	-0.59	214.85	220.16
1.72	-0.61	215.85	220.46
1.77	-0.63	216.81	220.75
1.83	-0.65	217.72	221.04
1.88	-0.67	218.59	221.32
1.94	-0.69	219.42	221.58
2.00	-0.71	220.20	221.84
2.06	-0.73	220.95	222.10
2.12	-0.76	221.65	222.34
2.18	-0.78	222.31	222.58
2.24	-0.80	222.93	222.81
2.30	-0.82	223.52	223.04
2.37	-0.85	224.06	223.26
2.43	-0.87	224.57	223.48
2.50	-0.89	225.04	223.68
2.56	-0.91	225.47	223.89
2.63	-0.94	225.87	224.09
2.70	-0.96	226.23	224.28
2.77	-0.99	226.56	224.47

2.84	-1.01	226.85	224.65
2.91	-1.04	227.11	224.83
2.98	-1.06	227.34	225.00
3.05	-1.09	227.53	225.18
3.12	-1.11	227.69	225.34
3.20	-1.14	227.81	225.50
3.27	-1.17	227.90	225.66
3.35	-1.20	227.97	225.82
3.42	-1.22	228.00	225.97
3.47	-1.25	228.00	226.12
3.47	-1.25	228.00	226.27
3.47	-1.25	228.00	226.41
3.47	-1.25	228.00	226.55
3.47	-1.25	228.00	226.68
3.47	-1.25	228.00	226.82
3.47	-1.25	228.00	226.95
3.47	-1.25	228.00	227.08
3.47	-1.25	228.00	227.20
3.47	-1.25	228.00	227.32
3.47	-1.25	228.00	227.44
3.47	-1.25	228.00	227.56
3.47	-1.25	228.00	227.68
3.47	-1.25	228.00	227.79
3.47	-1.25	228.00	227.90
3.47	-1.25	228.00	228.01
3.47	-1.25	228.00	228.12
3.47	-1.25	228.00	228.23
3.47	-1.25	228.00	228.33
3.47	-1.25	228.00	228.43
3.47	-1.25	228.00	228.53
3.47	-1.25	228.00	228.63
3.47	-1.25	228.00	228.72
3.47	-1.25	228.00	228.82
3.47	-1.25	228.00	228.91
3.47	-1.25	228.00	229.00
3.47	-1.25	228.00	229.09
3.47	-1.25	228.00	229.18
3.47	-1.25	228.00	229.27
3.47	-1.25	228.00	229.35
3.47	-1.25	228.00	229.43
3.47	-1.25	228.00	229.52
3.47	-1.25	228.00	229.60
3.47	-1.25	228.00	229.68
3.47	-1.25	228.00	229.75
3.47	-1.25	228.00	229.83
3.47	-1.25	228.00	229.91
3.47	-1.25	228.00	229.98

3.47	-1.25	228.00	230.06
3.47	-1.25	228.00	230.13
3.47	-1.25	228.00	230.20
3.47	-1.25	228.00	230.27
3.47	-1.25	228.00	230.34
3.47	-1.25	228.00	230.41
3.47	-1.25	228.00	230.47
3.47	-1.25	228.00	230.54
3.47	-1.25	228.00	230.60
3.47	-1.25	228.00	230.67
3.47	-1.25	228.00	230.73
3.47	-1.25	228.00	230.79
3.47	-1.25	228.00	230.86
3.47	-1.25	228.00	230.92
3.47	-1.25	228.00	230.98
3.47	-1.25	228.00	231.03
3.47	-1.25	228.00	231.09
3.47	-1.25	228.00	231.15
3.47	-1.25	228.00	231.21
3.47	-1.25	228.00	231.26
3.47	-1.25	228.00	231.32
3.47	-1.25	228.00	231.37
3.47	-1.25	228.00	231.42
3.47	-1.25	228.00	231.48
3.47	-1.25	228.00	231.53
3.47	-1.25	228.00	231.58
3.47	-1.25	228.00	231.63
3.47	-1.25	228.00	231.68
3.47	-1.25	228.00	231.73
3.47	-1.25	228.00	231.78
3.47	-1.25	228.00	231.83
3.47	-1.25	228.00	231.88
3.47	-1.25	228.00	231.92
3.47	-1.25	228.00	231.97
3.47	-1.25	228.00	232.01
3.47	-1.25	228.00	232.06
3.47	-1.25	228.00	232.10
3.47	-1.25	228.00	232.15
3.47	-1.25	228.00	232.19
3.47	-1.25	228.00	232.24
3.47	-1.25	228.00	232.28
3.47	-1.25	228.00	232.32
3.47	-1.25	228.00	232.36
3.47	-1.25	228.00	232.40
3.47	-1.25	228.00	232.44
3.47	-1.25	228.00	232.48
3.47	-1.25	228.00	232.52

3.47	-1.25	228.00	232.56
3.47	-1.25	228.00	232.60
3.47	-1.25	228.00	232.64
3.47	-1.25	228.00	232.68
3.47	-1.25	228.00	232.72
3.47	-1.25	228.00	232.75
3.47	-1.25	228.00	232.79
3.47	-1.25	228.00	232.83
3.47	-1.25	228.00	232.86
3.47	-1.25	228.00	232.90
3.47	-1.25	228.00	232.93
3.47	-1.25	228.00	232.97
3.47	-1.25	228.00	233.00
3.47	-1.25	228.00	233.04
3.47	-1.25	228.00	233.07
3.47	-1.25	228.00	233.10
3.47	-1.25	228.00	233.14
3.47	-1.25	228.00	233.17
3.47	-1.25	228.00	233.20
3.47	-1.25	228.00	233.23
3.47	-1.25	228.00	233.26
3.47	-1.25	228.00	233.29
3.47	-1.25	228.00	233.33
3.47	-1.25	228.00	233.36
3.47	-1.25	228.00	233.39
3.47	-1.25	228.00	233.42

Cumulative distribution: measured vs. models



TAB #1: VIDEO DATA												
Comment	Min	Sec	1/100	Frame #	Track length	Track thickness	X (pixels)	Y (pixels)	X source offset (mm)	Y source offset (mm)	R	
CALIBRATION												
Pinpoint (source)	3	28	3	6242	N/A	N/A	703	345				
Boundary below point	3	28	3	6242	N/A	N/A	705	631				
Boundary above point	3	28	3	6242	N/A	N/A	699	6			Diameter =	625 pixels
Boundary left of point	3	28	3	6242	N/A	N/A	405	340			Pixel =	0.16 mm
Boundary right of point	3	28	3	6242	N/A	N/A	1049	342			Height (a) =	4 mm
Last data frame	4	45	46	8565	N/A	N/A	N/A	N/A			Height (b) =	3.5 mm
First data frame	3	15	3	5852	N/A	N/A	N/A	N/A				
TRACK STARTS												
	3	15	20	5857	Long	Sharp	731	393	4.48	-7.68	8.89	
	3	15	20	5857	Short	Diffuse	735	424	5.12	-12.64	13.64	
	3	15	56	5868	Short	Diffuse	757	285	8.64	9.6	12.92	
	3	15	70	5872	Short	Diffuse	762	286	9.44	9.44	13.35	
	3	15	93	5879	Long	Diffuse	827	380	19.84	-5.6	20.62	
	3	16	23	5888	Short	Sharp	619	404	-13.44	-9.44	16.42	
	3	16	30	5890	Long	Sharp	712	382	1.44	-5.92	6.09	
	3	16	33	5891	Short	Diffuse	729	370	4.16	-4	5.77	
	3	16	43	5894	Long	Diffuse	788	334	13.6	1.76	13.71	
	3	16	53	5897	Short	Diffuse	608	304	-15.2	6.56	16.56	
	3	17	20	5917	Long	Diffuse	758	285	8.8	9.6	13.02	
	3	17	26	5919	Short	Diffuse	653	276	-8	11.04	13.63	
	3	17	46	5925	Short	Diffuse	735	390	5.12	-7.2	8.83	
	3	17	56	5928	Short	Diffuse	726	371	3.68	-4.16	5.55	
	3	17	56	5928	Short	Sharp	727	376	3.84	-4.96	6.27	
	3	17	86	5937	Short	Sharp	789	376	13.76	-4.96	14.63	
	3	17	90	5938	Long	Sharp	700	278	-0.48	10.72	10.73	
	3	18	26	5949	Long	Sharp	769	292	10.56	8.48	13.54	
	3	18	43	5954	Long	Sharp	759	352	8.96	-1.12	9.03	
	3	18	66	5961	Long	Sharp	818	312	18.4	5.28	19.14	
	3	18	93	5969	Short	Sharp	729	295	4.16	8	9.02	
	3	19	26	5979	Short	Diffuse	674	384	-4.64	-6.24	7.78	

	3	19	60	5989	Short	Diffuse	769	397	10.56	-8.32	13.44		
	3	19	93	5999	Long	Sharp	720	289	2.72	8.96	9.36		
	3	20	43	6014	Long	Sharp	686	287	-2.72	9.28	9.67		
	3	21	3	6032	Short	Diffuse	717	381	2.24	-5.76	6.18		
	3	21	23	6038	Long	Diffuse	800	294	15.52	8.16	17.53		
	3	21	96	6060	Short	Diffuse	720	282	2.72	10.08	10.44		
	3	22	53	6077	Short	Diffuse	735	356	5.12	-1.76	5.41		
	3	22	86	6087	Long	Sharp	715	280	1.92	10.4	10.58		
	3	23	23	6098	Long	Sharp	743	256	6.4	14.24	15.61		
	3	23	70	6112	Short	Diffuse	515	335	-30.08	1.6	30.12		
	3	23	70	6112	Long	Diffuse	625	291	-12.48	8.64	15.18		
	3	23	73	6113	Long	Sharp	653	375	-8	-4.8	9.33		
	3	24	43	6134	Long	Sharp	595	282	-17.28	10.08	20.01		
	3	24	86	6147	Long	Sharp	718	297	2.4	7.68	8.05		
	3	24	86	6147	Long	Sharp	715	338	1.92	1.12	2.22		
	3	25	30	6160	Short	Diffuse	742	257	6.24	14.08	15.40		
	3	25	53	6167	Long	Diffuse	699	384	-0.64	-6.24	6.27		
	3	26	26	6189	Long	Sharp	725	306	3.52	6.24	7.16		
	3	26	53	6197	Short	Diffuse	741	368	6.08	-3.68	7.11		
	3	27	23	6218	Long	Sharp	663	525	-6.4	-28.8	29.50		
	3	27	23	6218	Long	Sharp	687	418	-2.56	-11.68	11.96		
	3	27	53	6227	Short	Diffuse	673	384	-4.8	-6.24	7.87		
	3	27	53	6227	Long	Sharp	658	324	-7.2	3.36	7.95		
	3	27	66	6231	Long	Diffuse	739	389	5.76	-7.04	9.10		
	3	27	90	6238	Short	Sharp	758	322	8.8	3.68	9.54		
	3	28	0	6241	Long	Sharp	769	346	10.56	-0.16	10.56		
	3	28	16	6246	Long	Sharp	702	306	-0.16	6.24	6.24		
	3	28	63	6260	Long	Sharp	655	366	-7.68	-3.36	8.38		
	3	28	66	6261	Short	Sharp	734	320	4.96	4	6.37		
	3	29	6	6273	Long	Sharp	746	357	6.88	-1.92	7.14		
	3	29	6	6273	Long	Sharp	767	371	10.24	-4.16	11.05		
	3	29	23	6278	Short	Diffuse	656	317	-7.52	4.48	8.75		
	3	29	60	6289	Short	Diffuse	723	349	3.2	-0.64	3.26		
	3	30	23	6308	Short	Diffuse	703	310	0	5.6	5.60		
	3	30	23	6308	Long	Sharp	737	289	5.44	8.96	10.48		
	3	30	50	6316	Long	Sharp	748	367	7.2	-3.52	8.01		

	3	30	56	6318	Short	Diffuse	680	385	-3.68	-6.4	7.38		
	3	31	10	6334	Short	Diffuse	669	291	-5.44	8.64	10.21		
	3	31	10	6334	Short	Diffuse	655	314	-7.68	4.96	9.14		
	3	32	0	6361	Long	Sharp	731	340	4.48	0.8	4.55		
	3	32	20	6367	Short	Sharp	641	305	-9.92	6.4	11.81		
	3	32	83	6386	Short	Diffuse	686	303	-2.72	6.72	7.25		
	3	32	96	6390	Long	Sharp	736	281	5.28	10.24	11.52		
	3	33	96	6420	Long	Sharp	723	286	3.2	9.44	9.97		
	3	34	10	6424	Short	Sharp	728	322	4	3.68	5.44		
	3	34	23	6428	Short	Diffuse	685	377	-2.88	-5.12	5.87		
	3	34	30	6430	Long	Sharp	686	315	-2.72	4.8	5.52		
	3	34	33	6431	Short	Diffuse	705	310	0.32	5.6	5.61		
	3	34	63	6440	Short	Sharp	657	306	-7.36	6.24	9.65		
	3	34	73	6443	Long	Sharp	640	302	-10.08	6.88	12.20		
	3	35	20	6457	Long	Sharp	658	277	-7.2	10.88	13.05		
	3	35	20	6457	Long	Sharp	743	319	6.4	4.16	7.63		
	3	35	96	6480	Long	Sharp	655	372	-7.68	-4.32	8.81		
	3	36	0	6481	Short	Diffuse	680	355	-3.68	-1.6	4.01		
	3	36	23	6488	Long	Sharp	739	266	5.76	12.64	13.89		
	3	36	36	6492	Short	Diffuse	698	410	-0.8	-10.4	10.43		
	3	36	43	6494	Short	Diffuse	748	368	7.2	-3.68	8.09		
	3	36	56	6498	Short	Diffuse	762	368	9.44	-3.68	10.13		
	3	36	90	6508	Long	Sharp	657	364	-7.36	-3.04	7.96		
	3	37	30	6520	Long	Sharp	732	357	4.64	-1.92	5.02		
	3	37	60	6529	Long	Sharp	688	318	-2.4	4.32	4.94		
	3	37	73	6533	Long	Sharp	661	374	-6.72	-4.64	8.17		
	3	37	80	6535	Short	Sharp	706	323	0.48	3.52	3.55		
	3	38	26	6549	Long	Sharp	723	332	3.2	2.08	3.82		
	3	38	30	6550	Long	Sharp	746	304	6.88	6.56	9.51		
	3	39	23	6578	Long	Sharp	738	351	5.6	-0.96	5.68		
	3	39	30	6580	Long	Sharp	735	357	5.12	-1.92	5.47		
	3	39	30	6580	Short	Diffuse	700	348	-0.48	-0.48	0.68		
	3	39	70	6592	Long	Sharp	726	318	3.68	4.32	5.67		
	3	40	23	6608	Long	Sharp	734	356	4.96	-1.76	5.26		
	3	40	23	6608	Short	Diffuse	680	352	-3.68	-1.12	3.85		
	3	40	53	6617	Long	Sharp	676	325	-4.32	3.2	5.38		

	3	40	93	6629	Long	Diffuse	746	318	6.88	4.32	8.12		
	3	41	46	6645	Long	Sharp	715	331	1.92	2.24	2.95		
	3	41	70	6652	Long	Sharp	671	361	-5.12	-2.56	5.72		
	3	42	36	6672	Short	Diffuse	745	365	6.72	-3.2	7.44		
	3	43	23	6698	Short	Sharp	710	349	1.12	-0.64	1.29		
	3	43	73	6713	Long	Sharp	754	281	8.16	10.24	13.09		
	3	43	93	6719	Short	Diffuse	715	336	1.92	1.44	2.40		
	3	43	96	6720	Short	Sharp	704	338	0.16	1.12	1.13		
	3	44	13	6725	Long	Sharp	663	348	-6.4	-0.48	6.42		
	3	44	16	6726	Long	Sharp	662	345	-6.56	0	6.56		
	3	44	33	6731	Short	Sharp	688	331	-2.4	2.24	3.28		
	3	44	46	6735	Long	Sharp	694	297	-1.44	7.68	7.81		
	3	44	90	6748	Long	Sharp	663	324	-6.4	3.36	7.23		
	3	45	23	6758	Short	Sharp	711	354	1.28	-1.44	1.93		
	3	45	46	6765	Long	Sharp	694	337	-1.44	1.28	1.93		
	3	46	36	6792	Long	Sharp	748	337	7.2	1.28	7.31		
	3	47	23	6818	Short	Diffuse	781	367	12.48	-3.52	12.97		
	3	47	46	6825	Long	Sharp	712	332	1.44	2.08	2.53		
	3	47	80	6835	Long	Sharp	746	346	6.88	-0.16	6.88		
	3	47	86	6837	Long	Sharp	662	309	-6.56	5.76	8.73		
	3	47	96	6840	Long	Sharp	704	315	0.16	4.8	4.80		
	3	48	3	6842	Short	Sharp	757	342	8.64	0.48	8.65		
	3	48	40	6853	Short	Diffuse	748	296	7.2	7.84	10.64		
	3	48	76	6864	Short	Sharp	699	342	-0.64	0.48	0.80		
	2	49	3	5072	Long	Sharp	682	326	-3.36	3.04	4.53		
	3	49	23	6878	Short	Diffuse	730	351	4.32	-0.96	4.43		
	3	50	3	6902	Long	Sharp	742	341	6.24	0.64	6.27		
	3	50	16	6906	Short	Diffuse	605	329	-15.68	2.56	15.89		
	3	50	20	6907	Short	Diffuse	569	315	-21.44	4.8	21.97		
	3	50	30	6910	Short	Diffuse	610	331	-14.88	2.24	15.05		
	3	50	46	6915	Short	Sharp	682	332	-3.36	2.08	3.95		
	3	50	80	6925	Long	Sharp	704	319	0.16	4.16	4.16		
	3	51	20	6937	Long	Diffuse	713	345	1.6	0	1.60		
	3	51	66	6951	Short	Sharp	713	345	1.6	0	1.60		
	3	52	36	6972	Short	Sharp	721	335	2.88	1.6	3.29		
	3	52	70	6982	Short	Diffuse	694	369	-1.44	-3.84	4.10		

	3	53	6	6993	Short	Diffuse	752	344	7.84	0.16	7.84		
	3	53	26	6999	Short	Sharp	685	325	-2.88	3.2	4.31		
	3	53	43	7004	Short	Diffuse	712	336	1.44	1.44	2.04		
	3	55	3	7052	Long	Sharp	675	361	-4.48	-2.56	5.16		
	3	55	56	7068	Short	Diffuse	726	346	3.68	-0.16	3.68		
	3	57	16	7116	Short	Diffuse	728	358	4	-2.08	4.51		
	3	57	43	7124	Short	Diffuse	729	362	4.16	-2.72	4.97		
	3	57	50	7126	Short	Sharp	721	354	2.88	-1.44	3.22		
	3	57	86	7137	Long	Sharp	688	358	-2.4	-2.08	3.18		
	3	58	63	7160	Long	Diffuse	749	328	7.36	2.72	7.85		
	3	59	60	7189	Long	Sharp	703	326	0	3.04	3.04		
	3	59	90	7198	Short	Diffuse	717	337	2.24	1.28	2.58		
	4	0	56	7218	Short	Diffuse	701	359	-0.32	-2.24	2.26		
	4	1	40	7243	Long	Sharp	666	310	-5.92	5.6	8.15		
	4	2	0	7261	Long	Sharp	675	370	-4.48	-4	6.01		
	4	2	56	7278	Long	Sharp	661	356	-6.72	-1.76	6.95		
	4	2	86	7287	Short	Diffuse	746	363	6.88	-2.88	7.46		
	4	3	10	7294	Short	Sharp	723	339	3.2	0.96	3.34		
	4	3	53	7307	Short	Diffuse	726	350	3.68	-0.8	3.77		
	4	3	73	7313	Short	Sharp	725	346	3.52	-0.16	3.52		
	4	4	33	7331	Short	Diffuse	705	336	0.32	1.44	1.48		
	4	5	70	7372	Short	Sharp	705	336	0.32	1.44	1.48		
	4	6	26	7389	Long	Sharp	755	336	8.32	1.44	8.44		
	4	6	30	7390	Long	Sharp	753	337	8	1.28	8.10		
	4	6	46	7395	Short	Diffuse	705	352	0.32	-1.12	1.16		
	4	6	56	7398	Short	Diffuse	741	355	6.08	-1.6	6.29		
	4	7	6	7413	Long	Sharp	687	322	-2.56	3.68	4.48		
	4	7	13	7415	Long	Diffuse	749	338	7.36	1.12	7.44		
	4	8	0	7441	Long	Sharp	714	296	1.76	7.84	8.04		
	4	8	66	7461	Short	Sharp	701	349	-0.32	-0.64	0.72		
	4	9	0	7471	Long	Sharp	732	360	4.64	-2.4	5.22		
	4	9	33	7481	Long	Sharp	676	364	-4.32	-3.04	5.28		
	4	9	83	7496	Short	Diffuse	700	351	-0.48	-0.96	1.07		
	4	10	3	7502	Long	Sharp	658	317	-7.2	4.48	8.48		
	4	10	26	7509	Long	Sharp	714	340	1.76	0.8	1.93		
	4	11	0	7531	Short	Diffuse	738	356	5.6	-1.76	5.87		

	4	11	6	7533	Long	Sharp	662	350	-6.56	-0.8	6.61		
	4	11	76	7554	Long	Sharp	704	345	0.16	0	0.16		
	4	11	96	7560	Long	Sharp	638	306	-10.4	6.24	12.13		
	4	12	6	7563	Long	Sharp	742	382	6.24	-5.92	8.60		
	4	12	60	7579	Long	Sharp	692	317	-1.76	4.48	4.81		
	4	13	23	7598	Short	Diffuse	704	338	0.16	1.12	1.13		
	4	13	93	7619	Long	Sharp	709	329	0.96	2.56	2.73		
	4	14	23	7628	Long	Sharp	675	334	-4.48	1.76	4.81		
	4	14	26	7629	Long	Sharp	699	338	-0.64	1.12	1.29		
	4	14	50	7636	Long	Sharp	661	325	-6.72	3.2	7.44		
	4	14	63	7640	Short	Sharp	644	272	-9.44	11.68	15.02		
	4	15	26	7668	Long	Diffuse	693	344	-1.6	0.16	1.61		
	4	15	26	7673	Long	Sharp	710	330	1.12	2.4	2.65		
	4	15	56	7673	Long	Diffuse	722	347	3.04	-0.32	3.06		
	4	15	73	7674	Long	Sharp	686	366	-2.72	-3.36	4.32		
	4	15	76	7679	Short	Diffuse	791	310	14.08	5.6	15.15		
	4	15	93	7679	Long	Diffuse	665	351	-6.08	-0.96	6.16		
	4	16	30	7690	Long	Sharp	708	331	0.8	2.24	2.38		
	4	17	23	7718	Long	Sharp	714	337	1.76	1.28	2.18		
	4	17	50	7726	Short	Diffuse	706	303	0.48	6.72	6.74		
	4	17	50	7726	Short	Diffuse	682	311	-3.36	5.44	6.39		
	4	17	93	7739	Long	Sharp	654	316	-7.84	4.64	9.11		
	4	18	53	7757	Short	Diffuse	626	236	-12.32	17.44	21.35		
	4	19	36	7782	Short	Diffuse	710	337	1.12	1.28	1.70		
	4	19	46	7785	Short	Diffuse	713	337	1.6	1.28	2.05		
	4	20	20	7807	Long	Sharp	750	267	7.52	12.48	14.57		
	4	20	30	7810	Long	Sharp	733	278	4.8	10.72	11.75		
	4	21	86	7857	Long	Sharp	716	336	2.08	1.44	2.53		
	4	22	33	7871	Short	Diffuse	694	353	-1.44	-1.28	1.93		
	4	22	60	7879	Short	Diffuse	678	349	-4	-0.64	4.05		
	4	22	60	7879	Short	Diffuse	681	393	-3.52	-7.68	8.45		
	4	22	80	7885	Short	Diffuse	658	320	-7.2	4	8.24		
	4	23	26	7899	Short	Diffuse	666	384	-5.92	-6.24	8.60		
	4	23	26	7899	Long	Diffuse	734	306	4.96	6.24	7.97		
	4	23	73	7913	Long	Diffuse	653	315	-8	4.8	9.33		
	4	24	30	7930	Short	Sharp	698	330	-0.8	2.4	2.53		

	4	24	43	7934	Short	Diffuse	702	327	-0.16	2.88	2.88		
	4	25	43	7964	Short	Diffuse	720	340	2.72	0.8	2.84		
	4	25	73	7973	Short	Sharp	706	329	0.48	2.56	2.60		
	4	26	40	7993	Long	Diffuse	567	372	-21.76	-4.32	22.18		
	4	27	53	8027	Long	Diffuse	626	285	-12.32	9.6	15.62		
	4	27	76	8034	Short	Sharp	685	289	-2.88	8.96	9.41		
	4	28	43	8054	Short	Sharp	681	358	-3.52	-2.08	4.09		
	4	28	50	8056	Short	Sharp	716	357	2.08	-1.92	2.83		
	4	29	10	8074	Short	Diffuse	710	338	1.12	1.12	1.58		
	4	29	10	8074	Long	Sharp	716	345	2.08	0	2.08		
	4	29	56	8088	Short	Diffuse	707	333	0.64	1.92	2.02		
	4	31	66	8151	Short	Sharp	662	367	-6.56	-3.52	7.44		
	4	32	50	8176	Long	Sharp	717	343	2.24	0.32	2.26		
	4	33	6	8193	Short	Diffuse	606	305	-15.52	6.4	16.79		
	4	33	6	8193	Long	Sharp	661	320	-6.72	4	7.82		
	4	34	33	8231	Long	Diffuse	656	335	-7.52	1.6	7.69		
	4	35	0	8251	Short	Sharp	710	342	1.12	0.48	1.22		
	4	35	23	8258	Short	Diffuse	644	359	-9.44	-2.24	9.70		
	4	36	26	8289	Short	Diffuse	658	306	-7.2	6.24	9.53		
	4	36	30	8290	Short	Sharp	716	358	2.08	-2.08	2.94		
	4	41	16	8436	Short	Diffuse	712	351	1.44	-0.96	1.73		
	4	41	36	8442	Short	Diffuse	699	351	-0.64	-0.96	1.15		
	4	41	73	8453	Short	Diffuse	627	361	-12.16	-2.56	12.43		
	4	42	53	8477	Long	Sharp	724	341	3.36	0.64	3.42		
	4	42	66	8481	Short	Diffuse	684	323	-3.04	3.52	4.65		
	4	44	36	8532	Short	Sharp	704	340	0.16	0.8	0.82		

TAB #2: IDEAL DISTRIBUTION C(R,b)+C(R,a-b), DIVIDED BY PI									
PETRIE DISH SENSITIVE VOLUME PARAMETERS									
radius=50mm									
a=	4	mm							
b=	3.5	mm							
a-b=	0.5	mm							
scale	9.8								
n	R	R/b	Log term	Arctan term	Total b part	R/(a-b)	Log term	Arctan term	Total a-b part
1	0.3	0.1	0.005089	0.214212695	0.767556174	0.5	0.223144	1.107148718	0.665146135
2	0.5	0.1	0.020203	0.408256935	1.499608748	1	0.693147	1.570796327	1.131971754
3	0.8	0.2	0.044895	0.582729854	2.19668811	1.5	1.178655	1.764007811	1.471331403
4	1	0.3	0.078472	0.738569524	2.85964399	2	1.609438	1.854590436	1.732014174
5	1.3	0.4	0.120048	0.876980276	3.489599114	2.5	1.981001	1.902531886	1.941766677
6	1.5	0.4	0.168623	0.999346749	4.087893115	3	2.302585	1.930503326	2.11654421
7	1.8	0.5	0.223144	1.107148718	4.656022942	3.5	2.583998	1.948097613	2.266047583
8	2	0.6	0.282567	1.201885957	5.195585251	4	2.833213	1.959829305	2.396521325
9	2.3	0.6	0.345903	1.285018518	5.708224776	4.5	3.056357	1.968020513	2.512188704
10	2.5	0.7	0.412245	1.357924058	6.195590987	5	3.258097	1.973955598	2.616026068
11	2.8	0.8	0.480787	1.421871141	6.659303893	5.5	3.442019	1.978388498	2.710203937
12	3	0.9	0.550831	1.478005808	7.100928682	6	3.610918	1.981784129	2.796351021
13	3.3	0.9	0.621783	1.527348233	7.521958245	6.5	3.766997	1.984441269	2.875719251
14	3.5	1	0.693147	1.570796327	7.923802276	7	3.912023	1.986558764	2.949290885
15	3.8	1.1	0.764518	1.609133705	8.307781579	7.5	4.047428	1.988272984	3.017850313
16	4	1.1	0.835568	1.643039999	8.675126319	8	4.174387	1.989679913	3.082033591
17	4.3	1.2	0.906034	1.673102086	9.026977111	8.5	4.293878	1.990848658	3.142363453
18	4.5	1.3	0.975714	1.699825291	9.364388053	9	4.406719	1.991829981	3.199274614
19	4.8	1.4	1.044451	1.723643996	9.688331019	9.5	4.513603	1.992661836	3.253132414
20	5	1.4	1.112126	1.744931327	9.999700671	10	4.615121	1.99337305	3.304246783
21	5.3	1.5	1.178655	1.764007811	10.29931982	10.5	4.711178	1.993985833	3.352882877
22	5.5	1.6	1.243978	1.781148969	10.58794488	11	4.804021	1.994517518	3.399269282
23	5.8	1.6	1.308057	1.796591906	10.86627115	11.5	4.892227	1.99498179	3.443604426
24	6	1.7	1.37087	1.810540966	11.134938	12	4.976734	1.995389565	3.486061654
25	6.3	1.8	1.432408	1.823172578	11.3945336	12.5	5.057837	1.995749643	3.526793269
26	6.5	1.9	1.492675	1.83463937	11.64559947	13	5.135798	1.996069173	3.565933805
27	6.8	1.9	1.551679	1.845073664	11.8886346	13.5	5.210851	1.996354017	3.603602679
28	7	2	1.609438	1.854590436	12.12409922	14	5.283204	1.996609014	3.639906371
29	7.3	2.1	1.665973	1.863289826	12.35241831	14.5	5.353042	1.99683819	3.674940228
30	7.5	2.1	1.721308	1.871259256	12.57398473	15	5.420535	1.997044913	3.708789956
31	7.8	2.2	1.775471	1.878575235	12.78916206	15.5	5.485834	1.997232022	3.741532881
32	8	2.3	1.828491	1.885304876	12.99828724	16	5.549076	1.99740192	3.773239002
33	8.3	2.4	1.880399	1.891507195	13.20167287	16.5	5.610387	1.997556653	3.80397189
34	8.5	2.4	1.931226	1.897234212	13.39960933	17	5.669881	1.997697972	3.833789448
35	8.8	2.5	1.981001	1.902531886	13.59236674	17.5	5.727662	1.997827384	3.862744566
36	9	2.6	2.029758	1.907440914	13.78019662	18	5.783825	1.997946189	3.890885686
37	9.3	2.6	2.077526	1.911997419	13.96333352	18.5	5.838459	1.998055514	3.918257279

38	9.5	2.7	2.124337	1.916233534	14.14199638	19	5.891644	1.998156341	3.944900277
39	9.8	2.8	2.170219	1.920177901	14.31638986	19.5	5.943455	1.998249529	3.970852428
40	10	2.9	2.215203	1.923856111	14.48670545	20	5.993961	1.998335829	3.996148628
41	10	2.9	2.259315	1.92729107	14.65312256	20.5	6.043226	1.998415904	4.020821193
42	11	3	2.302585	1.930503326	14.81580947	21	6.09131	1.998490338	4.04490011
43	11	3.1	2.345038	1.933511349	14.97492415	21.5	6.138267	1.998559648	4.068413257
44	11	3.1	2.386701	1.936331766	15.13061512	22	6.184149	1.998624295	4.091386593
45	11	3.2	2.427598	1.938979583	15.28302212	22.5	6.229004	1.998684686	4.113844332
46	12	3.3	2.467754	1.941468358	15.43227675	23	6.272877	1.998741188	4.135809097
47	12	3.4	2.507191	1.943810369	15.57850312	23.5	6.31581	1.998794127	4.157302053
48	12	3.4	2.545931	1.946016749	15.72181835	24	6.357842	1.998843797	4.178343032
49	12	3.5	2.583998	1.948097613	15.86233308	24.5	6.399011	1.998890461	4.198950641
50	13	3.6	2.62141	1.950062165	16.00015192	25	6.43935	1.998934356	4.219142364
51	13	3.6	2.658188	1.951918792	16.13537389	25.5	6.478894	1.998975698	4.238934646
52	13	3.7	2.694351	1.95367515	16.26809277	26	6.517671	1.999014681	4.258342977
53	13	3.8	2.729918	1.955338236	16.39839748	26.5	6.555712	1.999051481	4.277381964
54	14	3.9	2.764906	1.956914456	16.52637239	27	6.593045	1.999086257	4.296065396
55	14	3.9	2.799332	1.958409682	16.6520976	27.5	6.629693	1.999119156	4.314406303
56	14	4	2.833213	1.959829305	16.77564927	28	6.665684	1.99915031	4.332417014
57	14	4.1	2.866565	1.961178278	16.89709981	28.5	6.701039	1.99917984	4.350109203
58	15	4.1	2.899401	1.962461162	17.01651814	29	6.73578	1.999207858	4.367493936
59	15	4.2	2.931738	1.963682158	17.13396993	29.5	6.769929	1.999234464	4.384581713
60	15	4.3	2.963589	1.964845142	17.24951775	30	6.803505	1.999259753	4.401382505
61	15	4.4	2.994967	1.965953696	17.3632213	30.5	6.836528	1.999283809	4.417905789
62	16	4.4	3.025885	1.967011131	17.47513755	31	6.869014	1.999306711	4.434160581
63	16	4.5	3.056357	1.968020513	17.58532093	31.5	6.900982	1.999328532	4.450155463
64	16	4.6	3.086393	1.968984683	17.69382345	32	6.932448	1.99934934	4.465898616
65	16	4.6	3.116007	1.969906278	17.80069484	32.5	6.963426	1.999369195	4.481397835
66	17	4.7	3.145207	1.970787746	17.90598272	33	6.993933	1.999388155	4.496660565
67	17	4.8	3.174007	1.971631365	18.00973265	33.5	7.023982	1.999406273	4.51169391
68	17	4.9	3.202415	1.972439253	18.1119883	34	7.053586	1.999423598	4.526504663
69	17	4.9	3.230441	1.973213384	18.21279153	34.5	7.082758	1.999440176	4.541099315
70	18	5	3.258097	1.973955598	18.31218248	35	7.111512	1.999456049	4.555484083
71	18	5.1	3.285389	1.974667614	18.41019967	35.5	7.139859	1.999471256	4.569664914
72	18	5.1	3.312329	1.975351034	18.5068801	36	7.167809	1.999485835	4.58364751
73	18	5.2	3.338924	1.976007361	18.6022593	36.5	7.195375	1.999499819	4.597437334
74	19	5.3	3.365182	1.976637996	18.69637142	37	7.222566	1.99951324	4.611039629
75	19	5.4	3.391113	1.977244256	18.7892493	37.5	7.249393	1.999526128	4.624459426
76	19	5.4	3.416722	1.977827371	18.88092455	38	7.275865	1.999538511	4.637701556
77	19	5.5	3.442019	1.978388498	18.97142756	38.5	7.301991	1.999550415	4.65077066
78	20	5.6	3.467011	1.978928721	19.06078762	39	7.327781	1.999561865	4.663671202
79	20	5.6	3.491703	1.97944906	19.14903296	39.5	7.353242	1.999572882	4.676407472
80	20	5.7	3.516104	1.979950474	19.23619074	40	7.378384	1.99958349	4.688983601
81	20	5.8	3.54022	1.980433863	19.3222872	40.5	7.403213	1.999593707	4.701403566
82	21	5.9	3.564056	1.980900076	19.40734763	41	7.427739	1.999603552	4.713671196
83	21	5.9	3.58762	1.981349913	19.49139642	41.5	7.451967	1.999613044	4.725790183
84	21	6	3.610918	1.981784129	19.57445715	42	7.475906	1.9996222	4.737764084

85	21	6.1	3.633954	1.982203434	19.65655255	42.5	7.499562	1.999631034	4.749596333
86	22	6.1	3.656736	1.982608499	19.73770463	43	7.522941	1.999639562	4.76129024
87	22	6.2	3.679267	1.98299996	19.81793463	43.5	7.54605	1.999647797	4.772849003
88	22	6.3	3.701554	1.983378415	19.89726309	44	7.568896	1.999655754	4.784275709
89	22	6.4	3.723601	1.983744432	19.97570988	44.5	7.591483	1.999663444	4.795573341
90	23	6.4	3.745414	1.984098548	20.05329423	45	7.613819	1.999670879	4.806744782
91	23	6.5	3.766997	1.984441269	20.13003476	45.5	7.635908	1.999678071	4.81779282
92	23	6.6	3.788355	1.984773078	20.20594947	46	7.657755	1.999685029	4.82872015
93	23	6.6	3.809493	1.985094432	20.28105583	46.5	7.679367	1.999691765	4.839529382
94	24	6.7	3.830414	1.985405762	20.35537073	47	7.700748	1.999698286	4.85022304
95	24	6.8	3.851124	1.98570748	20.42891057	47.5	7.721903	1.999704603	4.86080357
96	24	6.9	3.871626	1.985999976	20.50169123	48	7.742836	1.999710723	4.871273339
97	24	6.9	3.891924	1.98628362	20.57372813	48.5	7.763553	1.999716656	4.881634643
98	25	7	3.912023	1.986558764	20.64503619	49	7.784057	1.999722407	4.891889705
99	25	7.1	3.931926	1.986825744	20.71562994	49.5	7.804353	1.999727986	4.902040682
100	25	7.1	3.951636	1.987084878	20.78552345	50	7.824446	1.999733397	4.912089664
101	25	7.2	3.971158	1.98733647	20.85473037	50.5	7.844339	1.999738649	4.922038682
102	26	7.3	3.990495	1.987580807	20.923264	51	7.864036	1.999743747	4.931889703
103	26	7.4	4.00965	1.987818166	20.99113721	51.5	7.883541	1.999748698	4.94164464
104	26	7.4	4.028626	1.988048808	21.05836255	52	7.902857	1.999753506	4.951305349
105	26	7.5	4.047428	1.988272984	21.12495219	52.5	7.921989	1.999758178	4.960873632
106	27	7.6	4.066057	1.988490933	21.19091798	53	7.94094	1.999762718	4.97035124
107	27	7.6	4.084518	1.988702882	21.25627142	53.5	7.959713	1.999767132	4.979739877
108	27	7.7	4.102812	1.988909049	21.32102372	54	7.978311	1.999771423	4.989041197
109	27	7.8	4.120943	1.989109641	21.38518577	54.5	7.996738	1.999775597	4.998256808
110	28	7.9	4.138915	1.989304857	21.44876819	55	8.014997	1.999779658	5.007388276
111	28	7.9	4.156728	1.989494887	21.5117813	55.5	8.033091	1.99978361	5.016437124
112	28	8	4.174387	1.989679913	21.57423514	56	8.051022	1.999787456	5.025404832
113	28	8.1	4.191894	1.989860107	21.63613951	56.5	8.068794	1.9997912	5.034292843
114	29	8.1	4.209251	1.990035637	21.69750395	57	8.08641	1.999794847	5.043102561
115	29	8.2	4.226461	1.990206661	21.75833774	57.5	8.103872	1.999798398	5.051835353
116	29	8.3	4.243527	1.990373332	21.81864994	58	8.121183	1.999801859	5.06049255
117	29	8.4	4.26045	1.990535796	21.87844938	58.5	8.138346	1.999805231	5.069075451
118	30	8.4	4.277233	1.990694193	21.93774466	59	8.155362	1.999808517	5.077585319
119	30	8.5	4.293878	1.990848658	21.99654417	59.5	8.172235	1.999811721	5.086023386
120	30	8.6	4.310388	1.990999318	22.0548561	60	8.188967	1.999814846	5.094390855
121	30	8.6	4.326765	1.991146298	22.11268842	60.5	8.20556	1.999817893	5.102688896
122	31	8.7	4.34301	1.991289716	22.17004894	61	8.222016	1.999820866	5.110918651
123	31	8.8	4.359126	1.991429686	22.22694526	61.5	8.238339	1.999823766	5.119081237
124	31	8.9	4.375115	1.991566318	22.28338478	62	8.254529	1.999826597	5.127177739
125	31	8.9	4.390979	1.991699716	22.33937477	62.5	8.270589	1.99982936	5.13520922
126	32	9	4.406719	1.991829981	22.3949223	63	8.286521	1.999832057	5.143176715
127	32	9.1	4.422338	1.991957211	22.45003427	63.5	8.302328	1.999834691	5.151081236
128	32	9.1	4.437838	1.992081499	22.50471744	64	8.31801	1.999837263	5.15892377

TAB #3: DATA SORTED													
Comment	Min	Sec	1/100	Frame #	Track length	Track thickness	X (pixels)	Y (pixels)	X source offset (mm)	Y source offset (mm)	R		
CALIBRATION													
Pinpoint (source)	3	28	3	6242	N/A	N/A	703	345					
Boundary below point	3	28	3	6242	N/A	N/A	705	631					
Boundary above point	3	28	3	6242	N/A	N/A	699	6			Diameter =	625 pixels	
Boundary left of point	3	28	3	6242	N/A	N/A	405	340			Pixel =	0.16 mm	
Boundary right of point	3	28	3	6242	N/A	N/A	1049	342			Height (a) =	4 mm	
Last data frame	4	45	46	8565	N/A	N/A	N/A	N/A			Height (b) =	3.5 mm	
First data frame	3	15	3	5852	N/A	N/A	N/A	N/A					
SORTED TRACK STARTS													
	4	11	76	7554	Long	Sharp	704	345	0.16	0	0.16	1	
	3	39	30	6580	Short	Diffuse	700	348	-0.48	-0.48	0.68	2	
	4	8	66	7461	Short	Sharp	701	349	-0.32	-0.64	0.72	3	
	3	48	76	6864	Short	Sharp	699	342	-0.64	0.48	0.80	4	
	4	44	36	8532	Short	Sharp	704	340	0.16	0.8	0.82	5	
	4	9	83	7496	Short	Diffuse	700	351	-0.48	-0.96	1.07	6	
	3	43	96	6720	Short	Sharp	704	338	0.16	1.12	1.13	7	
	4	13	23	7598	Short	Diffuse	704	338	0.16	1.12	1.13	8	
	4	41	36	8442	Short	Diffuse	699	351	-0.64	-0.96	1.15	9	
	4	6	46	7395	Short	Diffuse	705	352	0.32	-1.12	1.16	10	
	4	35	0	8251	Short	Sharp	710	342	1.12	0.48	1.22	11	
	3	43	23	6698	Short	Sharp	710	349	1.12	-0.64	1.29	12	
	4	14	26	7629	Long	Sharp	699	338	-0.64	1.12	1.29	13	
	4	4	33	7331	Short	Diffuse	705	336	0.32	1.44	1.48	14	
	4	5	70	7372	Short	Sharp	705	336	0.32	1.44	1.48	15	
	4	29	10	8074	Short	Diffuse	710	338	1.12	1.12	1.58	16	
	3	51	20	6937	Long	Diffuse	713	345	1.6	0	1.60	17	
	3	51	66	6951	Short	Sharp	713	345	1.6	0	1.60	18	
	4	15	26	7656	Long	Diffuse	693	344	-1.6	0.16	1.61	19	
	4	19	36	7782	Short	Diffuse	710	337	1.12	1.28	1.70	20	
	4	41	16	8436	Short	Diffuse	712	351	1.44	-0.96	1.73	21	
	3	45	23	6758	Short	Sharp	711	354	1.28	-1.44	1.93	22	

	3	45	46	6765	Long	Sharp	694	337	-1.44	1.28	1.93	23	
	4	22	33	7871	Short	Diffuse	694	353	-1.44	-1.28	1.93	24	
	4	10	26	7509	Long	Sharp	714	340	1.76	0.8	1.93	25	
	4	29	56	8088	Short	Diffuse	707	333	0.64	1.92	2.02	26	
	3	53	43	7004	Short	Diffuse	712	336	1.44	1.44	2.04	27	
	4	19	46	7785	Short	Diffuse	713	337	1.6	1.28	2.05	28	
	4	29	10	8074	Long	Sharp	716	345	2.08	0	2.08	29	
	4	17	23	7718	Long	Sharp	714	337	1.76	1.28	2.18	30	
	3	24	86	6147	Long	Sharp	715	338	1.92	1.12	2.22	31	
	4	0	56	7218	Short	Diffuse	701	359	-0.32	-2.24	2.26	32	
	4	32	50	8176	Long	Sharp	717	343	2.24	0.32	2.26	33	
	4	16	30	7690	Long	Sharp	708	331	0.8	2.24	2.38	34	
	3	43	93	6719	Short	Diffuse	715	336	1.92	1.44	2.40	35	
	3	47	46	6825	Long	Sharp	712	332	1.44	2.08	2.53	36	
	4	21	86	7857	Long	Sharp	716	336	2.08	1.44	2.53	37	
	4	24	30	7930	Short	Sharp	698	330	-0.8	2.4	2.53	38	
	3	59	90	7198	Short	Diffuse	717	337	2.24	1.28	2.58	39	
	4	25	73	7973	Short	Sharp	706	329	0.48	2.56	2.60	40	
	4	15	26	7666	Long	Sharp	710	330	1.12	2.4	2.65	41	
	4	13	93	7619	Long	Sharp	709	329	0.96	2.56	2.73	42	
	4	28	50	8056	Short	Sharp	716	357	2.08	-1.92	2.83	43	
	4	25	43	7964	Short	Diffuse	720	340	2.72	0.8	2.84	44	
	4	24	43	7934	Short	Diffuse	702	327	-0.16	2.88	2.88	45	
	4	36	30	8290	Short	Sharp	716	358	2.08	-2.08	2.94	46	
	3	41	46	6645	Long	Sharp	715	331	1.92	2.24	2.95	47	
	3	59	60	7189	Long	Sharp	703	326	0	3.04	3.04	48	
	4	15	56	7677	Long	Diffuse	722	347	3.04	-0.32	3.06	49	
	3	57	86	7137	Long	Sharp	688	358	-2.4	-2.08	3.18	50	
	3	57	50	7126	Short	Sharp	721	354	2.88	-1.44	3.22	51	
	3	29	60	6289	Short	Diffuse	723	349	3.2	-0.64	3.26	52	
	3	44	33	6731	Short	Sharp	688	331	-2.4	2.24	3.28	53	
	3	52	36	6972	Short	Sharp	721	335	2.88	1.6	3.29	54	
	4	3	10	7294	Short	Sharp	723	339	3.2	0.96	3.34	55	
	4	42	53	8477	Long	Sharp	724	341	3.36	0.64	3.42	56	
	4	3	73	7313	Short	Sharp	725	346	3.52	-0.16	3.52	57	
	3	37	80	6535	Short	Sharp	706	323	0.48	3.52	3.55	58	

	3	55	56	7068	Short	Diffuse	726	346	3.68	-0.16	3.68	59	
	4	3	53	7307	Short	Diffuse	726	350	3.68	-0.8	3.77	60	
	3	38	26	6549	Long	Sharp	723	332	3.2	2.08	3.82	61	
	3	40	23	6608	Short	Diffuse	680	352	-3.68	-1.12	3.85	62	
	3	50	46	6915	Short	Sharp	682	332	-3.36	2.08	3.95	63	
	3	36	0	6481	Short	Diffuse	680	355	-3.68	-1.6	4.01	64	
	4	22	60	7879	Short	Diffuse	678	349	-4	-0.64	4.05	65	
	4	28	43	8054	Short	Sharp	681	358	-3.52	-2.08	4.09	66	
	3	52	70	6982	Short	Diffuse	694	369	-1.44	-3.84	4.10	67	
	3	50	80	6925	Long	Sharp	704	319	0.16	4.16	4.16	68	
	3	53	26	6999	Short	Sharp	685	325	-2.88	3.2	4.31	69	
	4	15	73	7658	Long	Sharp	686	366	-2.72	-3.36	4.32	70	
	3	49	23	6878	Short	Diffuse	730	351	4.32	-0.96	4.43	71	
	4	7	6	7413	Long	Sharp	687	322	-2.56	3.68	4.48	72	
	3	57	16	7116	Short	Diffuse	728	358	4	-2.08	4.51	73	
	2	49	3	5072	Long	Sharp	682	326	-3.36	3.04	4.53	74	
	3	32	0	6361	Long	Sharp	731	340	4.48	0.8	4.55	75	
	4	42	66	8481	Short	Diffuse	684	323	-3.04	3.52	4.65	76	
	3	47	96	6840	Long	Sharp	704	315	0.16	4.8	4.80	77	
	4	12	60	7579	Long	Sharp	692	317	-1.76	4.48	4.81	78	
	4	14	23	7628	Long	Sharp	675	334	-4.48	1.76	4.81	79	
	3	37	60	6529	Long	Sharp	688	318	-2.4	4.32	4.94	80	
	3	57	43	7124	Short	Diffuse	729	362	4.16	-2.72	4.97	81	
	3	37	30	6520	Long	Sharp	732	357	4.64	-1.92	5.02	82	
	3	55	3	7052	Long	Sharp	675	361	-4.48	-2.56	5.16	83	
	4	9	0	7471	Long	Sharp	732	360	4.64	-2.4	5.22	84	
	3	40	23	6608	Long	Sharp	734	356	4.96	-1.76	5.26	85	
	4	9	33	7481	Long	Sharp	676	364	-4.32	-3.04	5.28	86	
	3	40	53	6617	Long	Sharp	676	325	-4.32	3.2	5.38	87	
	3	22	53	6077	Short	Diffuse	735	356	5.12	-1.76	5.41	88	
	3	34	10	6424	Short	Sharp	728	322	4	3.68	5.44	89	
	3	39	30	6580	Long	Sharp	735	357	5.12	-1.92	5.47	90	
	3	34	30	6430	Long	Sharp	686	315	-2.72	4.8	5.52	91	
	3	17	56	5928	Short	Diffuse	726	371	3.68	-4.16	5.55	92	
	3	30	23	6308	Short	Diffuse	703	310	0	5.6	5.60	93	
	3	34	33	6431	Short	Diffuse	705	310	0.32	5.6	5.61	94	

	3	39	70	6592	Long	Sharp	726	318	3.68	4.32	5.67	95	
	3	39	23	6578	Long	Sharp	738	351	5.6	-0.96	5.68	96	
	3	41	70	6652	Long	Sharp	671	361	-5.12	-2.56	5.72	97	
	3	16	33	5891	Short	Diffuse	729	370	4.16	-4	5.77	98	
	4	11	0	7531	Short	Diffuse	738	356	5.6	-1.76	5.87	99	
	3	34	23	6428	Short	Diffuse	685	377	-2.88	-5.12	5.87	100	
	4	2	0	7261	Long	Sharp	675	370	-4.48	-4	6.01	101	
	3	16	30	5890	Long	Sharp	712	382	1.44	-5.92	6.09	102	
	4	15	93	7679	Long	Diffuse	665	351	-6.08	-0.96	6.16	103	
	3	21	3	6032	Short	Diffuse	717	381	2.24	-5.76	6.18	104	
	3	28	16	6246	Long	Sharp	702	306	-0.16	6.24	6.24	105	
	3	17	56	5928	Short	Sharp	727	376	3.84	-4.96	6.27	106	
	3	25	53	6167	Long	Diffuse	699	384	-0.64	-6.24	6.27	107	
	3	50	3	6902	Long	Sharp	742	341	6.24	0.64	6.27	108	
	4	6	56	7398	Short	Diffuse	741	355	6.08	-1.6	6.29	109	
	3	28	66	6261	Short	Sharp	734	320	4.96	4	6.37	110	
	4	17	50	7726	Short	Diffuse	682	311	-3.36	5.44	6.39	111	
	3	44	13	6725	Long	Sharp	663	348	-6.4	-0.48	6.42	112	
	3	44	16	6726	Long	Sharp	662	345	-6.56	0	6.56	113	
	4	11	6	7533	Long	Sharp	662	350	-6.56	-0.8	6.61	114	
	4	17	50	7726	Short	Diffuse	706	303	0.48	6.72	6.74	115	
	3	47	80	6835	Long	Sharp	746	346	6.88	-0.16	6.88	116	
	4	2	56	7278	Long	Sharp	661	356	-6.72	-1.76	6.95	117	
	3	26	53	6197	Short	Diffuse	741	368	6.08	-3.68	7.11	118	
	3	29	6	6273	Long	Sharp	746	357	6.88	-1.92	7.14	119	
	3	26	26	6189	Long	Sharp	725	306	3.52	6.24	7.16	120	
	3	44	90	6748	Long	Sharp	663	324	-6.4	3.36	7.23	121	
	3	32	83	6386	Short	Diffuse	686	303	-2.72	6.72	7.25	122	
	3	46	36	6792	Long	Sharp	748	337	7.2	1.28	7.31	123	
	3	30	56	6318	Short	Diffuse	680	385	-3.68	-6.4	7.38	124	
	3	42	36	6672	Short	Diffuse	745	365	6.72	-3.2	7.44	125	
	4	14	50	7636	Long	Sharp	661	325	-6.72	3.2	7.44	126	
	4	7	13	7415	Long	Diffuse	749	338	7.36	1.12	7.44	127	
	4	31	66	8151	Short	Sharp	662	367	-6.56	-3.52	7.44	128	
	4	2	86	7287	Short	Diffuse	746	363	6.88	-2.88	7.46	129	
	3	35	20	6457	Long	Sharp	743	319	6.4	4.16	7.63	130	

	4	34	33	8231	Long	Diffuse	656	335	-7.52	1.6	7.69	131	
	3	19	26	5979	Short	Diffuse	674	384	-4.64	-6.24	7.78	132	
	3	44	46	6735	Long	Sharp	694	297	-1.44	7.68	7.81	133	
	4	33	6	8193	Long	Sharp	661	320	-6.72	4	7.82	134	
	3	53	6	6993	Short	Diffuse	752	344	7.84	0.16	7.84	135	
	3	58	63	7160	Long	Diffuse	749	328	7.36	2.72	7.85	136	
	3	27	53	6227	Short	Diffuse	673	384	-4.8	-6.24	7.87	137	
	3	27	53	6227	Long	Sharp	658	324	-7.2	3.36	7.95	138	
	3	36	90	6508	Long	Sharp	657	364	-7.36	-3.04	7.96	139	
	4	23	26	7899	Long	Diffuse	734	306	4.96	6.24	7.97	140	
	3	30	50	6316	Long	Sharp	748	367	7.2	-3.52	8.01	141	
	4	8	0	7441	Long	Sharp	714	296	1.76	7.84	8.04	142	
	3	24	86	6147	Long	Sharp	718	297	2.4	7.68	8.05	143	
	3	36	43	6494	Short	Diffuse	748	368	7.2	-3.68	8.09	144	
	4	6	30	7390	Long	Sharp	753	337	8	1.28	8.10	145	
	3	40	93	6629	Long	Diffuse	746	318	6.88	4.32	8.12	146	
	4	1	40	7243	Long	Sharp	666	310	-5.92	5.6	8.15	147	
	3	37	73	6533	Long	Sharp	661	374	-6.72	-4.64	8.17	148	
	4	22	80	7885	Short	Diffuse	658	320	-7.2	4	8.24	149	
	3	28	63	6260	Long	Sharp	655	366	-7.68	-3.36	8.38	150	
	4	6	26	7389	Long	Sharp	755	336	8.32	1.44	8.44	151	
	4	22	60	7879	Short	Diffuse	681	393	-3.52	-7.68	8.45	152	
	4	10	3	7502	Long	Sharp	658	317	-7.2	4.48	8.48	153	
	4	12	6	7563	Long	Sharp	742	382	6.24	-5.92	8.60	154	
	4	23	26	7899	Short	Diffuse	666	384	-5.92	-6.24	8.60	155	
	3	48	3	6842	Short	Sharp	757	342	8.64	0.48	8.65	156	
	3	47	86	6837	Long	Sharp	662	309	-6.56	5.76	8.73	157	
	3	29	23	6278	Short	Diffuse	656	317	-7.52	4.48	8.75	158	
	3	35	96	6480	Long	Sharp	655	372	-7.68	-4.32	8.81	159	
	3	17	46	5925	Short	Diffuse	735	390	5.12	-7.2	8.83	160	
	3	15	20	5857	Long	Sharp	731	393	4.48	-7.68	8.89	161	
	3	18	93	5969	Short	Sharp	729	295	4.16	8	9.02	162	
	3	18	43	5954	Long	Sharp	759	352	8.96	-1.12	9.03	163	
	3	27	66	6231	Long	Diffuse	739	389	5.76	-7.04	9.10	164	
	4	17	93	7739	Long	Sharp	654	316	-7.84	4.64	9.11	165	
	3	31	10	6334	Short	Diffuse	655	314	-7.68	4.96	9.14	166	

	3	23	73	6113	Long	Sharp	653	375	-8	-4.8	9.33	167	
	4	23	73	7913	Long	Diffuse	653	315	-8	4.8	9.33	168	
	3	19	93	5999	Long	Sharp	720	289	2.72	8.96	9.36	169	
	4	27	76	8034	Short	Sharp	685	289	-2.88	8.96	9.41	170	
	3	38	30	6550	Long	Sharp	746	304	6.88	6.56	9.51	171	
	4	36	26	8289	Short	Diffuse	658	306	-7.2	6.24	9.53	172	
	3	27	90	6238	Short	Sharp	758	322	8.8	3.68	9.54	173	
	3	34	63	6440	Short	Sharp	657	306	-7.36	6.24	9.65	174	
	3	20	43	6014	Long	Sharp	686	287	-2.72	9.28	9.67	175	
	4	35	23	8258	Short	Diffuse	644	359	-9.44	-2.24	9.70	176	
	3	33	96	6420	Long	Sharp	723	286	3.2	9.44	9.97	177	
	3	36	56	6498	Short	Diffuse	762	368	9.44	-3.68	10.13	178	
	3	31	10	6334	Short	Diffuse	669	291	-5.44	8.64	10.21	179	
	3	36	36	6492	Short	Diffuse	698	410	-0.8	-10.4	10.43	180	
	3	21	96	6060	Short	Diffuse	720	282	2.72	10.08	10.44	181	
	3	30	23	6308	Long	Sharp	737	289	5.44	8.96	10.48	182	
	3	28	0	6241	Long	Sharp	769	346	10.56	-0.16	10.56	183	
	3	22	86	6087	Long	Sharp	715	280	1.92	10.4	10.58	184	
	3	48	40	6853	Short	Diffuse	748	296	7.2	7.84	10.64	185	
	3	17	90	5938	Long	Sharp	700	278	-0.48	10.72	10.73	186	
	3	29	6	6273	Long	Sharp	767	371	10.24	-4.16	11.05	187	
	3	32	96	6390	Long	Sharp	736	281	5.28	10.24	11.52	188	
	4	20	30	7810	Long	Sharp	733	278	4.8	10.72	11.75	189	
	3	32	20	6367	Short	Sharp	641	305	-9.92	6.4	11.81	190	
	3	27	23	6218	Long	Sharp	687	418	-2.56	-11.68	11.96	191	
	4	11	96	7560	Long	Sharp	638	306	-10.4	6.24	12.13	192	
	3	34	73	6443	Long	Sharp	640	302	-10.08	6.88	12.20	193	
	4	41	73	8453	Short	Diffuse	627	361	-12.16	-2.56	12.43	194	
	3	15	56	5868	Short	Diffuse	757	285	8.64	9.6	12.92	195	
	3	47	23	6818	Short	Diffuse	781	367	12.48	-3.52	12.97	196	
	3	17	20	5917	Long	Diffuse	758	285	8.8	9.6	13.02	197	
	3	35	20	6457	Long	Sharp	658	277	-7.2	10.88	13.05	198	
	3	43	73	6713	Long	Sharp	754	281	8.16	10.24	13.09	199	
	3	15	70	5872	Short	Diffuse	762	286	9.44	9.44	13.35	200	
	3	19	60	5989	Short	Diffuse	769	397	10.56	-8.32	13.44	201	
	3	18	26	5949	Long	Sharp	769	292	10.56	8.48	13.54	202	

	3	17	26	5919	Short	Diffuse	653	276	-8	11.04	13.63	203	
	3	15	20	5857	Short	Diffuse	735	424	5.12	-12.64	13.64	204	
	3	16	43	5894	Long	Diffuse	788	334	13.6	1.76	13.71	205	
	3	36	23	6488	Long	Sharp	739	266	5.76	12.64	13.89	206	
	4	20	20	7807	Long	Sharp	750	267	7.52	12.48	14.57	207	
	3	17	86	5937	Short	Sharp	789	376	13.76	-4.96	14.63	208	
	4	14	63	7640	Short	Sharp	644	272	-9.44	11.68	15.02	209	
	3	50	30	6910	Short	Diffuse	610	331	-14.88	2.24	15.05	210	
	4	15	76	7672	Short	Diffuse	791	310	14.08	5.6	15.15	211	
	3	23	70	6112	Long	Diffuse	625	291	-12.48	8.64	15.18	212	
	3	25	30	6160	Short	Diffuse	742	257	6.24	14.08	15.40	213	
	3	23	23	6098	Long	Sharp	743	256	6.4	14.24	15.61	214	
	4	27	53	8027	Long	Diffuse	626	285	-12.32	9.6	15.62	215	
	3	50	16	6906	Short	Diffuse	605	329	-15.68	2.56	15.89	216	
	3	16	23	5888	Short	Sharp	619	404	-13.44	-9.44	16.42	217	
	3	16	53	5897	Short	Diffuse	608	304	-15.2	6.56	16.56	218	
	4	33	6	8193	Short	Diffuse	606	305	-15.52	6.4	16.79	219	
	3	21	23	6038	Long	Diffuse	800	294	15.52	8.16	17.53	220	
	3	18	66	5961	Long	Sharp	818	312	18.4	5.28	19.14	221	
	3	24	43	6134	Long	Sharp	595	282	-17.28	10.08	20.01	222	
	3	15	93	5879	Long	Diffuse	827	380	19.84	-5.6	20.62	223	
	4	18	53	7757	Short	Diffuse	626	236	-12.32	17.44	21.35	224	
	3	50	20	6907	Short	Diffuse	569	315	-21.44	4.8	21.97	225	
	4	26	40	7993	Long	Diffuse	567	372	-21.76	-4.32	22.18	226	
	3	27	23	6218	Long	Sharp	663	525	-6.4	-28.8	29.50	227	
	3	23	70	6112	Short	Diffuse	515	335	-30.08	1.6	30.12	228	
CORRESPONDING IDEAL CUMULATIVE TRACK DISTRIBUTION - NO CUTOFF													
COPIED FROM PRECEDING TAB													
											0.25	14.00	
											0.50	25.71	
											0.75	35.83	
											1.00	44.85	
											1.25	53.06	
											1.50	60.61	
											1.75	67.62	
											2.00	74.16	

												2.25	80.30	
												2.50	86.08	
												2.75	91.53	
												3.00	96.68	
												3.25	101.57	
												3.50	106.21	
												3.75	110.63	
												4.00	114.85	
												4.25	118.88	
												4.50	122.73	
												4.75	126.42	
												5.00	129.96	
												5.25	133.36	
												5.50	136.63	
												5.75	139.79	
												6.00	142.82	
												6.25	145.76	

TAB #4: CUTOFF MODELS, DIVIDED BY PI

a =	4 mm	h=	0.5
b =	3.5 mm	Active region scale	1.05
a-b=	0.5 mm		
K =	22.5 mm		
K/b=	6.43		
sqrt(K^2-b^2)=	22.23 mm		
K/(a-b)=	45.00		
sqrt(K^2-(a-b)^2)=	22.49 mm		
simple scale=	9.18		
subtractive scale=	10.93		

		Simple cutoff b part		Simple cutoff a-b part		Simple scaled
R	R/b	(C1)	R/(a-b)	(C1)		(C1)
0.25	0.07		0.77	0.50	0.67	13.15
0.50	0.14		1.50	1.00	1.13	24.16
0.75	0.21		2.20	1.50	1.47	33.68
1.00	0.29		2.86	2.00	1.73	42.16
1.25	0.36		3.49	2.50	1.94	49.87
1.50	0.43		4.09	3.00	2.12	56.97
1.75	0.50		4.66	3.50	2.27	63.56
2.00	0.57		5.20	4.00	2.40	69.71
2.25	0.64		5.71	4.50	2.51	75.48
2.50	0.71		6.20	5.00	2.62	80.91
2.75	0.79		6.66	5.50	2.71	86.03
3.00	0.86		7.10	6.00	2.80	90.87
3.25	0.93		7.52	6.50	2.88	95.47
3.50	1.00		7.92	7.00	2.95	99.83
3.75	1.07		8.31	7.50	3.02	103.99
4.00	1.14		8.68	8.00	3.08	107.95
4.25	1.21		9.03	8.50	3.14	111.74
4.50	1.29		9.36	9.00	3.20	115.36
4.75	1.36		9.69	9.50	3.25	118.82
5.00	1.43		10.00	10.00	3.30	122.15
5.25	1.50		10.30	10.50	3.35	125.35
5.50	1.57		10.59	11.00	3.40	128.43
5.75	1.64		10.87	11.50	3.44	131.39
6.00	1.71		11.13	12.00	3.49	134.25
6.25	1.79		11.39	12.50	3.53	137.00
6.50	1.86		11.65	13.00	3.57	139.67
6.75	1.93		11.89	13.50	3.60	142.25
7.00	2.00		12.12	14.00	3.64	144.74
7.25	2.07		12.35	14.50	3.67	147.16
7.50	2.14		12.57	15.00	3.71	149.50
7.75	2.21		12.79	15.50	3.74	151.78
8.00	2.29		13.00	16.00	3.77	153.99
8.25	2.36		13.20	16.50	3.80	156.14

8.50	2.43	13.40	17.00	3.83	158.23
8.75	2.50	13.59	17.50	3.86	160.27
9.00	2.57	13.78	18.00	3.89	162.25
9.25	2.64	13.96	18.50	3.92	164.18
9.50	2.71	14.14	19.00	3.94	166.07
9.75	2.79	14.32	19.50	3.97	167.91
10.00	2.86	14.49	20.00	4.00	169.70
10.25	2.93	14.65	20.50	4.02	171.46
10.50	3.00	14.82	21.00	4.04	173.17
10.75	3.07	14.97	21.50	4.07	174.85
11.00	3.14	15.13	22.00	4.09	176.49
11.25	3.21	15.28	22.50	4.11	178.10
11.50	3.29	15.43	23.00	4.14	179.67
11.75	3.36	15.58	23.50	4.16	181.21
12.00	3.43	15.72	24.00	4.18	182.72
12.25	3.50	15.86	24.50	4.20	184.20
12.50	3.57	16.00	25.00	4.22	185.65
12.75	3.64	16.14	25.50	4.24	187.07
13.00	3.71	16.27	26.00	4.26	188.47
13.25	3.79	16.40	26.50	4.28	189.84
13.50	3.86	16.53	27.00	4.30	191.19
13.75	3.93	16.65	27.50	4.31	192.51
14.00	4.00	16.78	28.00	4.33	193.81
14.25	4.07	16.90	28.50	4.35	195.09
14.50	4.14	17.02	29.00	4.37	196.34
14.75	4.21	17.13	29.50	4.38	197.58
15.00	4.29	17.25	30.00	4.40	198.79
15.25	4.36	17.36	30.50	4.42	199.99
15.50	4.43	17.48	31.00	4.43	201.17
15.75	4.50	17.59	31.50	4.45	202.32
16.00	4.57	17.69	32.00	4.47	203.46
16.25	4.64	17.80	32.50	4.48	204.59
16.50	4.71	17.91	33.00	4.50	205.69
16.75	4.79	18.01	33.50	4.51	206.79
17.00	4.86	18.11	34.00	4.53	207.86
17.25	4.93	18.21	34.50	4.54	208.92
17.50	5.00	18.31	35.00	4.56	209.96
17.75	5.07	18.41	35.50	4.57	210.99
18.00	5.14	18.51	36.00	4.58	212.01
18.25	5.21	18.60	36.50	4.60	213.01
18.50	5.29	18.70	37.00	4.61	214.00
18.75	5.36	18.79	37.50	4.62	214.98
19.00	5.43	18.88	38.00	4.64	215.94
19.25	5.50	18.97	38.50	4.65	216.89
19.50	5.57	19.06	39.00	4.66	217.83
19.75	5.64	19.15	39.50	4.68	218.76
20.00	5.71	19.24	40.00	4.69	219.67

20.25	5.79	19.32	40.50	4.70	220.58
20.50	5.86	19.41	41.00	4.71	221.47
20.75	5.93	19.49	41.50	4.73	222.36
21.00	6.00	19.57	42.00	4.74	223.23
21.25	6.07	19.66	42.50	4.75	224.09
21.50	6.14	19.74	43.00	4.76	224.94
21.75	6.21	19.82	43.50	4.77	225.79
22.00	6.29	19.90	44.00	4.78	226.62
22.25	6.36	19.98	44.50	4.80	227.44
22.50	6.43	20.03	45.00	4.81	228.00
22.75	6.50	20.03	45.50	4.81	228.00
23.00	6.57	20.03	46.00	4.81	228.00
23.25	6.64	20.03	46.50	4.81	228.00
23.50	6.71	20.03	47.00	4.81	228.00
23.75	6.79	20.03	47.50	4.81	228.00
24.00	6.86	20.03	48.00	4.81	228.00
24.25	6.93	20.03	48.50	4.81	228.00
24.50	7.00	20.03	49.00	4.81	228.00
24.75	7.07	20.03	49.50	4.81	228.00
25.00	7.14	20.03	50.00	4.81	228.00
25.25	7.21	20.03	50.50	4.81	228.00
25.50	7.29	20.03	51.00	4.81	228.00
25.75	7.36	20.03	51.50	4.81	228.00
26.00	7.43	20.03	52.00	4.81	228.00
26.25	7.50	20.03	52.50	4.81	228.00
26.50	7.57	20.03	53.00	4.81	228.00
26.75	7.64	20.03	53.50	4.81	228.00
27.00	7.71	20.03	54.00	4.81	228.00
27.25	7.79	20.03	54.50	4.81	228.00
27.50	7.86	20.03	55.00	4.81	228.00
27.75	7.93	20.03	55.50	4.81	228.00
28.00	8.00	20.03	56.00	4.81	228.00
28.25	8.07	20.03	56.50	4.81	228.00
28.50	8.14	20.03	57.00	4.81	228.00
28.75	8.21	20.03	57.50	4.81	228.00
29.00	8.29	20.03	58.00	4.81	228.00
29.25	8.36	20.03	58.50	4.81	228.00
29.50	8.43	20.03	59.00	4.81	228.00
29.75	8.50	20.03	59.50	4.81	228.00
30.00	8.57	20.03	60.00	4.81	228.00
30.25	8.64	20.03	60.50	4.81	228.00
30.50	8.71	20.03	61.00	4.81	228.00
30.75	8.79	20.03	61.50	4.81	228.00
31.00	8.86	20.03	62.00	4.81	228.00
31.25	8.93	20.03	62.50	4.81	228.00
31.50	9.00	20.03	63.00	4.81	228.00
31.75	9.07	20.03	63.50	4.81	228.00

32.00	9.14	20.03	64.00	4.81	228.00
32.25	9.21	20.03	64.50	4.81	228.00
32.50	9.29	20.03	65.00	4.81	228.00
32.75	9.36	20.03	65.50	4.81	228.00
33.00	9.43	20.03	66.00	4.81	228.00
33.25	9.50	20.03	66.50	4.81	228.00
33.50	9.57	20.03	67.00	4.81	228.00
33.75	9.64	20.03	67.50	4.81	228.00
34.00	9.71	20.03	68.00	4.81	228.00
34.25	9.79	20.03	68.50	4.81	228.00
34.50	9.86	20.03	69.00	4.81	228.00
34.75	9.93	20.03	69.50	4.81	228.00
35.00	10.00	20.03	70.00	4.81	228.00
35.25	10.07	20.03	70.50	4.81	228.00
35.50	10.14	20.03	71.00	4.81	228.00
35.75	10.21	20.03	71.50	4.81	228.00
36.00	10.29	20.03	72.00	4.81	228.00
36.25	10.36	20.03	72.50	4.81	228.00
36.50	10.43	20.03	73.00	4.81	228.00
36.75	10.50	20.03	73.50	4.81	228.00
37.00	10.57	20.03	74.00	4.81	228.00
37.25	10.64	20.03	74.50	4.81	228.00
37.50	10.71	20.03	75.00	4.81	228.00
37.75	10.79	20.03	75.50	4.81	228.00
38.00	10.86	20.03	76.00	4.81	228.00
38.25	10.93	20.03	76.50	4.81	228.00
38.50	11.00	20.03	77.00	4.81	228.00
38.75	11.07	20.03	77.50	4.81	228.00
39.00	11.14	20.03	78.00	4.81	228.00
39.25	11.21	20.03	78.50	4.81	228.00
39.50	11.29	20.03	79.00	4.81	228.00
39.75	11.36	20.03	79.50	4.81	228.00
40.00	11.43	20.03	80.00	4.81	228.00
40.25	11.50	20.03	80.50	4.81	228.00
40.50	11.57	20.03	81.00	4.81	228.00
40.75	11.64	20.03	81.50	4.81	228.00
41.00	11.71	20.03	82.00	4.81	228.00
41.25	11.79	20.03	82.50	4.81	228.00
41.50	11.86	20.03	83.00	4.81	228.00
41.75	11.93	20.03	83.50	4.81	228.00
42.00	12.00	20.03	84.00	4.81	228.00
42.25	12.07	20.03	84.50	4.81	228.00
42.50	12.14	20.03	85.00	4.81	228.00
42.75	12.21	20.03	85.50	4.81	228.00
43.00	12.29	20.03	86.00	4.81	228.00
43.25	12.36	20.03	86.50	4.81	228.00
43.50	12.43	20.03	87.00	4.81	228.00

43.75	12.50	20.03	87.50	4.81	228.00
44.00	12.57	20.03	88.00	4.81	228.00
44.25	12.64	20.03	88.50	4.81	228.00
44.50	12.71	20.03	89.00	4.81	228.00
44.75	12.79	20.03	89.50	4.81	228.00
45.00	12.86	20.03	90.00	4.81	228.00
45.25	12.93	20.03	90.50	4.81	228.00
45.50	13.00	20.03	91.00	4.81	228.00
45.75	13.07	20.03	91.50	4.81	228.00
46.00	13.14	20.03	92.00	4.81	228.00
46.25	13.21	20.03	92.50	4.81	228.00
46.50	13.29	20.03	93.00	4.81	228.00
46.75	13.36	20.03	93.50	4.81	228.00
47.00	13.43	20.03	94.00	4.81	228.00
47.25	13.50	20.03	94.50	4.81	228.00
47.50	13.57	20.03	95.00	4.81	228.00
47.75	13.64	20.03	95.50	4.81	228.00
48.00	13.71	20.03	96.00	4.81	228.00
48.25	13.79	20.03	96.50	4.81	228.00
48.50	13.86	20.03	97.00	4.81	228.00
48.75	13.93	20.03	97.50	4.81	228.00
49.00	14.00	20.03	98.00	4.81	228.00
49.25	14.07	20.03	98.50	4.81	228.00
49.50	14.14	20.03	99.00	4.81	228.00
49.75	14.21	20.03	99.50	4.81	228.00
50.00	14.29	20.03	100.00	4.81	228.00

mm

height of source above hypothetical active region

Subtraction b part (C1-C2)	Subtraction a-b part (C1-C2)	Subtractive scaled (C2)	Active region solid angle
0.00	0.00	15.65	25.27
0.00	0.00	28.74	70.12
0.00	0.00	40.04	106.60
0.01	0.00	50.10	132.34
0.01	0.00	59.23	150.49
0.02	0.00	67.62	163.70
0.02	0.00	75.39	173.63
0.03	0.00	82.64	181.34
0.04	0.01	89.41	187.47
0.04	0.01	95.77	192.45
0.05	0.01	101.75	196.57
0.06	0.01	107.40	200.04
0.07	0.01	112.73	203.00
0.08	0.01	117.78	205.54
0.10	0.01	122.57	207.76
0.11	0.02	127.12	209.71
0.12	0.02	131.45	211.43
0.14	0.02	135.57	212.96
0.16	0.02	139.50	214.34
0.17	0.02	143.25	215.58
0.19	0.03	146.84	216.70
0.21	0.03	150.27	217.73
0.23	0.03	153.55	218.66
0.25	0.04	156.70	219.52
0.27	0.04	159.71	220.31
0.29	0.04	162.61	221.04
0.32	0.05	165.39	221.72
0.34	0.05	168.07	222.34
0.36	0.05	170.64	222.93
0.39	0.06	173.11	223.48
0.42	0.06	175.49	223.99
0.44	0.06	177.78	224.47
0.47	0.07	179.99	224.92

0.50	0.07	182.12	225.34
0.53	0.08	184.17	225.74
0.56	0.08	186.15	226.12
0.59	0.08	188.05	226.48
0.62	0.09	189.89	226.82
0.66	0.09	191.67	227.14
0.69	0.10	193.38	227.44
0.73	0.10	195.03	227.74
0.76	0.11	196.62	228.01
0.80	0.11	198.16	228.28
0.84	0.12	199.64	228.53
0.88	0.13	201.08	228.77
0.91	0.13	202.46	229.00
0.95	0.14	203.79	229.22
1.00	0.14	205.07	229.43
1.04	0.15	206.31	229.64
1.08	0.15	207.50	229.83
1.12	0.16	208.65	230.02
1.17	0.17	209.76	230.20
1.21	0.17	210.82	230.37
1.26	0.18	211.85	230.54
1.31	0.19	212.83	230.70
1.36	0.19	213.78	230.86
1.40	0.20	214.69	231.01
1.45	0.21	215.57	231.15
1.50	0.21	216.41	231.29
1.56	0.22	217.21	231.42
1.61	0.23	217.98	231.56
1.66	0.24	218.72	231.68
1.72	0.25	219.42	231.80
1.77	0.25	220.10	231.92
1.83	0.26	220.74	232.04
1.88	0.27	221.35	232.15
1.94	0.28	221.93	232.26
2.00	0.29	222.48	232.36
2.06	0.29	223.00	232.46
2.12	0.30	223.49	232.56
2.18	0.31	223.96	232.66
2.24	0.32	224.40	232.75
2.30	0.33	224.81	232.84
2.37	0.34	225.19	232.93
2.43	0.35	225.55	233.02
2.50	0.36	225.88	233.10
2.56	0.37	226.19	233.18
2.63	0.38	226.47	233.26
2.70	0.39	226.72	233.34
2.77	0.40	226.96	233.42

2.84	0.41	227.16	233.49
2.91	0.42	227.35	233.56
2.98	0.43	227.51	233.63
3.05	0.44	227.65	233.70
3.12	0.45	227.76	233.77
3.20	0.46	227.85	233.83
3.27	0.47	227.92	233.90
3.35	0.48	227.97	233.96
3.42	0.49	227.99	234.02
3.47	0.50	228.00	234.08
3.47	0.50	228.00	234.14
3.47	0.50	228.00	234.20
3.47	0.50	228.00	234.25
3.47	0.50	228.00	234.31
3.47	0.50	228.00	234.36
3.47	0.50	228.00	234.41
3.47	0.50	228.00	234.46
3.47	0.50	228.00	234.52
3.47	0.50	228.00	234.56
3.47	0.50	228.00	234.61
3.47	0.50	228.00	234.66
3.47	0.50	228.00	234.71
3.47	0.50	228.00	234.75
3.47	0.50	228.00	234.80
3.47	0.50	228.00	234.84
3.47	0.50	228.00	234.88
3.47	0.50	228.00	234.93
3.47	0.50	228.00	234.97
3.47	0.50	228.00	235.01
3.47	0.50	228.00	235.05
3.47	0.50	228.00	235.09
3.47	0.50	228.00	235.13
3.47	0.50	228.00	235.16
3.47	0.50	228.00	235.20
3.47	0.50	228.00	235.24
3.47	0.50	228.00	235.27
3.47	0.50	228.00	235.31
3.47	0.50	228.00	235.34
3.47	0.50	228.00	235.38
3.47	0.50	228.00	235.41
3.47	0.50	228.00	235.44
3.47	0.50	228.00	235.48
3.47	0.50	228.00	235.51
3.47	0.50	228.00	235.54
3.47	0.50	228.00	235.57
3.47	0.50	228.00	235.60
3.47	0.50	228.00	235.63

3.47	0.50	228.00	235.66
3.47	0.50	228.00	235.69
3.47	0.50	228.00	235.72
3.47	0.50	228.00	235.75
3.47	0.50	228.00	235.77
3.47	0.50	228.00	235.80
3.47	0.50	228.00	235.83
3.47	0.50	228.00	235.85
3.47	0.50	228.00	235.88
3.47	0.50	228.00	235.91
3.47	0.50	228.00	235.93
3.47	0.50	228.00	235.96
3.47	0.50	228.00	235.98
3.47	0.50	228.00	236.00
3.47	0.50	228.00	236.03
3.47	0.50	228.00	236.05
3.47	0.50	228.00	236.08
3.47	0.50	228.00	236.10
3.47	0.50	228.00	236.12
3.47	0.50	228.00	236.14
3.47	0.50	228.00	236.17
3.47	0.50	228.00	236.19
3.47	0.50	228.00	236.21
3.47	0.50	228.00	236.23
3.47	0.50	228.00	236.25
3.47	0.50	228.00	236.27
3.47	0.50	228.00	236.29
3.47	0.50	228.00	236.31
3.47	0.50	228.00	236.33
3.47	0.50	228.00	236.35
3.47	0.50	228.00	236.37
3.47	0.50	228.00	236.39
3.47	0.50	228.00	236.41
3.47	0.50	228.00	236.43
3.47	0.50	228.00	236.44
3.47	0.50	228.00	236.46
3.47	0.50	228.00	236.48
3.47	0.50	228.00	236.50
3.47	0.50	228.00	236.52
3.47	0.50	228.00	236.53
3.47	0.50	228.00	236.55
3.47	0.50	228.00	236.57
3.47	0.50	228.00	236.58
3.47	0.50	228.00	236.60
3.47	0.50	228.00	236.62
3.47	0.50	228.00	236.63
3.47	0.50	228.00	236.65

3.47	0.50	228.00	236.66
3.47	0.50	228.00	236.68
3.47	0.50	228.00	236.70
3.47	0.50	228.00	236.71
3.47	0.50	228.00	236.73
3.47	0.50	228.00	236.74
3.47	0.50	228.00	236.75
3.47	0.50	228.00	236.77
3.47	0.50	228.00	236.78
3.47	0.50	228.00	236.80
3.47	0.50	228.00	236.81
3.47	0.50	228.00	236.83
3.47	0.50	228.00	236.84
3.47	0.50	228.00	236.85
3.47	0.50	228.00	236.87
3.47	0.50	228.00	236.88
3.47	0.50	228.00	236.89
3.47	0.50	228.00	236.91
3.47	0.50	228.00	236.92
3.47	0.50	228.00	236.93
3.47	0.50	228.00	236.94
3.47	0.50	228.00	236.96
3.47	0.50	228.00	236.97
3.47	0.50	228.00	236.98
3.47	0.50	228.00	236.99
3.47	0.50	228.00	237.01

Cumulative distribution: measured vs. models

