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Report No	:		Voltage	:	V
Test No	:	A2508873B001	Current	:	A
LumCAT	:		Power	:	9.000 W
Luminaire	:	0028920280 9W 3000K 1000lm	PF	:	
LampCAT	:		Ballast type	:	
Lamp flux	:	1000.0 lm	Width	:	-300 mm
Number of Lamps	:	1	Length	:	-300 mm
Phm Type	:	C	Height	:	29 mm

### Photometric Results

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Lumens(lm)	:	1000.00	Central intensity(cd)	:	295.847
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	296.103
Luminous Efficacy(lm/W)	:	111.11	Angle of maximum intensity	:	C=0.0 $\gamma$ =1.5
Beam Angle(50%Imax)	:	[C0/180]Total=119.8 [C90/270]Total=120.0			
Field angle(10%Imax)	:	[C0/180]Total=172.2 [C90/270]Total=172.2			
Maximum s/h(1/2)	:	C0_180=1.30 C90_270=1.30			
Maximum s/h(1/4)	:	C0_180=1.42 C90_270=1.42			
Up flux rate of lamp(%)	:	6.11%			
Down flux rate of lamp(%)	:	93.89%			
Up flux rate of LUM(%)	:	6.11%			
Down flux rate of LUM(%)	:	93.89%			
CIE Type	:	Direct lighting			
Output flux ratio in $\pi$ solid angle	:	70.353%			

## Zonal flux distribution table

Appendix Page: 2 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	295.847	0.000	0	0.00%	0.00%
0.5	295.896	0.071	0.071	0.01%	0.01%
1.0	295.984	0.212	0.283	0.02%	0.03%
1.5	295.980	0.354	0.637	0.04%	0.06%
2.0	295.885	0.496	1.133	0.05%	0.11%
2.5	295.830	0.637	1.77	0.06%	0.18%
3.0	295.722	0.778	2.548	0.08%	0.25%
3.5	295.630	0.919	3.467	0.09%	0.35%
4.0	295.443	1.060	4.527	0.11%	0.45%
4.5	295.294	1.200	5.727	0.12%	0.57%
5.0	295.105	1.340	7.067	0.13%	0.71%
5.5	294.921	1.480	8.547	0.15%	0.85%
6.0	294.737	1.620	10.167	0.16%	1.02%
6.5	294.492	1.759	11.926	0.18%	1.19%
7.0	294.269	1.897	13.823	0.19%	1.38%
7.5	293.951	2.035	15.858	0.20%	1.59%
8.0	293.792	2.173	18.031	0.22%	1.80%
8.5	293.414	2.310	20.341	0.23%	2.03%
9.0	293.085	2.446	22.787	0.24%	2.28%
9.5	292.698	2.581	25.368	0.26%	2.54%
10.0	292.334	2.716	28.084	0.27%	2.81%
10.5	291.926	2.850	30.935	0.29%	3.09%
11.0	291.511	2.983	33.918	0.30%	3.39%
11.5	291.119	3.116	37.034	0.31%	3.70%
12.0	290.547	3.247	40.282	0.32%	4.03%
12.5	290.215	3.378	43.66	0.34%	4.37%
13.0	289.569	3.508	47.168	0.35%	4.72%
13.5	289.207	3.637	50.805	0.36%	5.08%
14.0	288.564	3.765	54.57	0.38%	5.46%
14.5	288.112	3.892	58.461	0.39%	5.85%
15.0	287.454	4.017	62.479	0.40%	6.25%
15.5	286.794	4.141	66.62	0.41%	6.66%
16.0	286.135	4.264	70.883	0.43%	7.09%
16.5	285.519	4.386	75.269	0.44%	7.53%
17.0	284.890	4.507	79.776	0.45%	7.98%
17.5	283.978	4.625	84.401	0.46%	8.44%
18.0	283.500	4.743	89.144	0.47%	8.91%
18.5	282.574	4.860	94.004	0.49%	9.40%

Equipment: GMS-1800  
Temperature( $^{\circ}\text{C}$ ): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 3 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
19.0	281.947	4.975	98.978	0.50%	9.90%
19.5	281.047	5.089	104.067	0.51%	10.41%
20.0	280.296	5.200	109.267	0.52%	10.93%
20.5	279.419	5.311	114.579	0.53%	11.46%
21.0	278.584	5.420	119.998	0.54%	12.00%
21.5	277.711	5.528	125.526	0.55%	12.55%
22.0	276.790	5.633	131.159	0.56%	13.12%
22.5	275.888	5.737	136.896	0.57%	13.69%
23.0	274.678	5.837	142.733	0.58%	14.27%
23.5	274.099	5.939	148.672	0.59%	14.87%
24.0	272.911	6.040	154.712	0.60%	15.47%
24.5	271.978	6.135	160.848	0.61%	16.08%
25.0	270.853	6.230	167.078	0.62%	16.71%
25.5	269.747	6.322	173.4	0.63%	17.34%
26.0	268.628	6.412	179.813	0.64%	17.98%
26.5	267.543	6.501	186.314	0.65%	18.63%
27.0	266.558	6.591	192.905	0.66%	19.29%
27.5	265.165	6.675	199.579	0.67%	19.96%
28.0	264.365	6.759	206.339	0.68%	20.63%
28.5	262.986	6.843	213.182	0.68%	21.32%
29.0	261.903	6.921	220.103	0.69%	22.01%
29.5	260.382	6.996	227.1	0.70%	22.71%
30.0	259.288	7.070	234.169	0.71%	23.42%
30.5	257.993	7.144	241.314	0.71%	24.13%
31.0	256.674	7.214	248.528	0.72%	24.85%
31.5	255.325	7.282	255.81	0.73%	25.58%
32.0	254.004	7.348	263.157	0.73%	26.32%
32.5	252.755	7.414	270.571	0.74%	27.06%
33.0	250.966	7.471	278.042	0.75%	27.80%
33.5	250.033	7.531	285.573	0.75%	28.56%
34.0	248.258	7.590	293.162	0.76%	29.32%
34.5	247.056	7.642	300.805	0.76%	30.08%
35.0	245.411	7.696	308.5	0.77%	30.85%
35.5	244.062	7.745	316.245	0.77%	31.62%
36.0	242.474	7.793	324.038	0.78%	32.40%
36.5	240.864	7.835	331.874	0.78%	33.19%
37.0	239.431	7.878	339.752	0.79%	33.98%
37.5	237.727	7.918	347.67	0.79%	34.77%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 4 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	236.373	7.957	355.628	0.80%	35.56%
38.5	234.351	7.989	363.617	0.80%	36.36%
39.0	233.268	8.024	371.641	0.80%	37.16%
39.5	231.175	8.056	379.698	0.81%	37.97%
40.0	229.820	8.081	387.779	0.81%	38.78%
40.5	227.991	8.110	395.889	0.81%	39.59%
41.0	226.227	8.129	404.017	0.81%	40.40%
41.5	224.473	8.147	412.164	0.81%	41.22%
42.0	222.763	8.164	420.329	0.82%	42.03%
42.5	221.199	8.184	428.512	0.82%	42.85%
43.0	218.952	8.191	436.703	0.82%	43.67%
43.5	217.697	8.202	444.906	0.82%	44.49%
44.0	215.332	8.209	453.115	0.82%	45.31%
44.5	214.042	8.214	461.329	0.82%	46.13%
45.0	211.678	8.217	469.546	0.82%	46.95%
45.5	210.027	8.211	477.756	0.82%	47.78%
46.0	208.128	8.212	485.968	0.82%	48.60%
46.5	206.174	8.205	494.173	0.82%	49.42%
47.0	204.083	8.192	502.365	0.82%	50.24%
47.5	201.984	8.175	510.54	0.82%	51.05%
48.0	200.277	8.163	518.703	0.82%	51.87%
48.5	197.916	8.144	526.848	0.81%	52.68%
49.0	196.580	8.131	534.979	0.81%	53.50%
49.5	194.004	8.112	543.091	0.81%	54.31%
50.0	192.221	8.082	551.173	0.81%	55.12%
50.5	189.979	8.056	559.229	0.81%	55.92%
51.0	188.009	8.025	567.254	0.80%	56.73%
51.5	185.840	7.993	575.247	0.80%	57.52%
52.0	183.547	7.953	583.2	0.80%	58.32%
52.5	181.638	7.916	591.116	0.79%	59.11%
53.0	179.383	7.878	598.994	0.79%	59.90%
53.5	177.706	7.844	606.838	0.78%	60.68%
54.0	174.884	7.795	614.634	0.78%	61.46%
54.5	173.230	7.745	622.379	0.77%	62.24%
55.0	170.314	7.691	630.071	0.77%	63.01%
55.5	168.186	7.625	637.696	0.76%	63.77%
56.0	165.982	7.573	645.268	0.76%	64.53%
56.5	163.617	7.513	652.782	0.75%	65.28%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 5 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
57.0	161.375	7.451	660.233	0.75%	66.02%
57.5	159.034	7.388	667.621	0.74%	66.76%
58.0	156.960	7.327	674.947	0.73%	67.49%
58.5	154.016	7.250	682.197	0.72%	68.22%
59.0	152.415	7.182	689.379	0.72%	68.94%
59.5	149.422	7.112	696.491	0.71%	69.65%
60.0	147.704	7.037	703.527	0.70%	70.35%
60.5	144.778	6.962	710.489	0.70%	71.05%
61.0	142.544	6.873	717.362	0.69%	71.74%
61.5	140.097	6.794	724.155	0.68%	72.42%
62.0	137.760	6.710	730.865	0.67%	73.09%
62.5	135.489	6.630	737.495	0.66%	73.75%
63.0	132.921	6.542	744.037	0.65%	74.40%
63.5	130.492	6.449	750.486	0.64%	75.05%
64.0	127.295	6.339	756.824	0.63%	75.68%
64.5	125.690	6.247	763.071	0.62%	76.31%
65.0	122.756	6.160	769.232	0.62%	76.92%
65.5	120.664	6.060	775.292	0.61%	77.53%
66.0	117.809	5.961	781.253	0.60%	78.13%
66.5	115.121	5.845	787.098	0.58%	78.71%
67.0	112.340	5.730	792.828	0.57%	79.28%
67.5	110.022	5.622	798.45	0.56%	79.84%
68.0	107.785	5.527	803.976	0.55%	80.40%
68.5	105.021	5.419	809.395	0.54%	80.94%
69.0	102.879	5.312	814.707	0.53%	81.47%
69.5	99.671	5.193	819.9	0.52%	81.99%
70.0	97.920	5.082	824.982	0.51%	82.50%
70.5	94.717	4.971	829.953	0.50%	83.00%
71.0	92.338	4.841	834.794	0.48%	83.48%
71.5	89.894	4.731	839.525	0.47%	83.95%
72.0	87.279	4.613	844.138	0.46%	84.41%
72.5	84.783	4.493	848.631	0.45%	84.86%
73.0	82.020	4.367	852.998	0.44%	85.30%
73.5	80.048	4.255	857.253	0.43%	85.73%
74.0	77.004	4.134	861.386	0.41%	86.14%
74.5	75.347	4.020	865.406	0.40%	86.54%
75.0	72.303	3.905	869.312	0.39%	86.93%
75.5	70.577	3.788	873.1	0.38%	87.31%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 6 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	67.685	3.674	876.774	0.37%	87.68%
76.5	65.632	3.550	880.324	0.36%	88.03%
77.0	63.605	3.449	883.773	0.34%	88.38%
77.5	61.060	3.333	887.106	0.33%	88.71%
78.0	58.842	3.212	890.318	0.32%	89.03%
78.5	56.580	3.098	893.416	0.31%	89.34%
79.0	54.612	2.990	896.406	0.30%	89.64%
79.5	51.897	2.869	899.275	0.29%	89.93%
80.0	50.582	2.765	902.04	0.28%	90.20%
80.5	48.124	2.667	904.707	0.27%	90.47%
81.0	46.233	2.553	907.26	0.26%	90.73%
81.5	44.270	2.452	909.712	0.25%	90.97%
82.0	42.381	2.351	912.063	0.24%	91.21%
82.5	40.833	2.260	914.324	0.23%	91.43%
83.0	39.109	2.174	916.498	0.22%	91.65%
83.5	37.518	2.086	918.584	0.21%	91.86%
84.0	35.691	1.995	920.579	0.20%	92.06%
84.5	34.625	1.918	922.497	0.19%	92.25%
85.0	32.724	1.839	924.336	0.18%	92.43%
85.5	31.577	1.757	926.093	0.18%	92.61%
86.0	30.031	1.684	927.777	0.17%	92.78%
86.5	28.634	1.605	929.382	0.16%	92.94%
87.0	27.619	1.540	930.922	0.15%	93.09%
87.5	26.229	1.475	932.396	0.15%	93.24%
88.0	25.264	1.411	933.807	0.14%	93.38%
88.5	24.007	1.350	935.157	0.14%	93.52%
89.0	23.182	1.293	936.45	0.13%	93.65%
89.5	21.878	1.235	937.686	0.12%	93.77%
90.0	21.195	1.181	938.866	0.12%	93.89%
90.5	20.330	1.138	940.005	0.11%	94.00%
91.0	19.749	1.099	941.104	0.11%	94.11%
91.5	18.957	1.061	942.164	0.11%	94.22%
92.0	18.264	1.020	943.184	0.10%	94.32%
92.5	17.627	0.983	944.168	0.10%	94.42%
93.0	16.977	0.948	945.115	0.09%	94.51%
93.5	16.539	0.917	946.033	0.09%	94.60%
94.0	15.994	0.890	946.923	0.09%	94.69%
94.5	15.588	0.863	947.786	0.09%	94.78%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 7 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
95.0	15.138	0.839	948.625	0.08%	94.86%
95.5	14.835	0.818	949.444	0.08%	94.94%
96.0	14.449	0.799	950.242	0.08%	95.02%
96.5	14.136	0.779	951.021	0.08%	95.10%
97.0	13.932	0.764	951.786	0.08%	95.18%
97.5	13.692	0.751	952.537	0.08%	95.25%
98.0	13.515	0.739	953.276	0.07%	95.33%
98.5	13.328	0.728	954.004	0.07%	95.40%
99.0	13.204	0.719	954.723	0.07%	95.47%
99.5	13.041	0.710	955.433	0.07%	95.54%
100.0	12.970	0.703	956.136	0.07%	95.61%
100.5	12.854	0.697	956.833	0.07%	95.68%
101.0	12.771	0.690	957.523	0.07%	95.75%
101.5	12.677	0.684	958.207	0.07%	95.82%
102.0	12.593	0.678	958.885	0.07%	95.89%
102.5	12.546	0.673	959.559	0.07%	95.96%
103.0	12.477	0.669	960.228	0.07%	96.02%
103.5	12.429	0.665	960.893	0.07%	96.09%
104.0	12.365	0.660	961.553	0.07%	96.16%
104.5	12.315	0.656	962.209	0.07%	96.22%
105.0	12.233	0.651	962.86	0.07%	96.29%
105.5	12.200	0.646	963.506	0.06%	96.35%
106.0	12.137	0.642	964.148	0.06%	96.41%
106.5	12.060	0.637	964.785	0.06%	96.48%
107.0	12.020	0.632	965.417	0.06%	96.54%
107.5	11.961	0.628	966.045	0.06%	96.60%
108.0	11.896	0.623	966.668	0.06%	96.67%
108.5	11.831	0.618	967.286	0.06%	96.73%
109.0	11.789	0.613	967.899	0.06%	96.79%
109.5	11.719	0.608	968.507	0.06%	96.85%
110.0	11.653	0.603	969.11	0.06%	96.91%
110.5	11.589	0.598	969.708	0.06%	96.97%
111.0	11.533	0.593	970.301	0.06%	97.03%
111.5	11.463	0.588	970.888	0.06%	97.09%
112.0	11.371	0.581	971.47	0.06%	97.15%
112.5	11.308	0.575	972.045	0.06%	97.20%
113.0	11.221	0.570	972.615	0.06%	97.26%
113.5	11.171	0.564	973.179	0.06%	97.32%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 8 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	11.103	0.559	973.738	0.06%	97.37%
114.5	11.040	0.553	974.291	0.06%	97.43%
115.0	10.951	0.548	974.839	0.05%	97.48%
115.5	10.902	0.542	975.381	0.05%	97.54%
116.0	10.826	0.537	975.917	0.05%	97.59%
116.5	10.766	0.531	976.448	0.05%	97.64%
117.0	10.701	0.526	976.974	0.05%	97.70%
117.5	10.614	0.519	977.493	0.05%	97.75%
118.0	10.555	0.514	978.007	0.05%	97.80%
118.5	10.478	0.508	978.515	0.05%	97.85%
119.0	10.405	0.502	979.017	0.05%	97.90%
119.5	10.312	0.496	979.512	0.05%	97.95%
120.0	10.243	0.489	980.001	0.05%	98.00%
120.5	10.128	0.482	980.484	0.05%	98.05%
121.0	10.060	0.476	980.959	0.05%	98.10%
121.5	10.000	0.470	981.43	0.05%	98.14%
122.0	9.913	0.464	981.894	0.05%	98.19%
122.5	9.838	0.458	982.352	0.05%	98.24%
123.0	9.741	0.451	982.803	0.05%	98.28%
123.5	9.669	0.445	983.248	0.04%	98.32%
124.0	9.571	0.439	983.687	0.04%	98.37%
124.5	9.500	0.432	984.119	0.04%	98.41%
125.0	9.408	0.426	984.545	0.04%	98.45%
125.5	9.336	0.420	984.965	0.04%	98.50%
126.0	9.241	0.413	985.378	0.04%	98.54%
126.5	9.151	0.407	985.785	0.04%	98.58%
127.0	9.045	0.400	986.184	0.04%	98.62%
127.5	8.942	0.393	986.577	0.04%	98.66%
128.0	8.875	0.386	986.963	0.04%	98.70%
128.5	8.778	0.380	987.343	0.04%	98.73%
129.0	8.705	0.374	987.717	0.04%	98.77%
129.5	8.593	0.367	988.084	0.04%	98.81%
130.0	8.519	0.361	988.445	0.04%	98.84%
130.5	8.409	0.354	988.799	0.04%	98.88%
131.0	8.332	0.348	989.147	0.03%	98.91%
131.5	8.227	0.341	989.488	0.03%	98.95%
132.0	8.146	0.335	989.823	0.03%	98.98%
132.5	8.043	0.329	990.151	0.03%	99.02%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 9 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
133.0	7.931	0.322	990.473	0.03%	99.05%
133.5	7.855	0.315	990.788	0.03%	99.08%
134.0	7.751	0.309	991.097	0.03%	99.11%
134.5	7.663	0.303	991.4	0.03%	99.14%
135.0	7.548	0.296	991.696	0.03%	99.17%
135.5	7.462	0.290	991.986	0.03%	99.20%
136.0	7.340	0.283	992.269	0.03%	99.23%
136.5	7.243	0.276	992.545	0.03%	99.25%
137.0	7.169	0.271	992.816	0.03%	99.28%
137.5	7.060	0.265	993.081	0.03%	99.31%
138.0	6.969	0.259	993.34	0.03%	99.33%
138.5	6.858	0.252	993.592	0.03%	99.36%
139.0	6.771	0.246	993.838	0.02%	99.38%
139.5	6.654	0.240	994.079	0.02%	99.41%
140.0	6.580	0.234	994.313	0.02%	99.43%
140.5	6.466	0.229	994.542	0.02%	99.45%
141.0	6.385	0.223	994.765	0.02%	99.48%
141.5	6.245	0.217	994.981	0.02%	99.50%
142.0	6.166	0.211	995.192	0.02%	99.52%
142.5	6.046	0.205	995.397	0.02%	99.54%
143.0	5.949	0.199	995.596	0.02%	99.56%
143.5	5.867	0.194	995.79	0.02%	99.58%
144.0	5.757	0.188	995.978	0.02%	99.60%
144.5	5.637	0.183	996.161	0.02%	99.62%
145.0	5.534	0.177	996.338	0.02%	99.63%
145.5	5.422	0.171	996.509	0.02%	99.65%
146.0	5.317	0.166	996.674	0.02%	99.67%
146.5	5.249	0.161	996.835	0.02%	99.68%
147.0	5.132	0.156	996.991	0.02%	99.70%
147.5	5.046	0.151	997.142	0.02%	99.71%
148.0	4.924	0.146	997.288	0.01%	99.73%
148.5	4.823	0.141	997.429	0.01%	99.74%
149.0	4.716	0.136	997.564	0.01%	99.76%
149.5	4.620	0.131	997.695	0.01%	99.77%
150.0	4.524	0.126	997.822	0.01%	99.78%
150.5	4.412	0.122	997.943	0.01%	99.79%
151.0	4.315	0.117	998.06	0.01%	99.81%
151.5	4.194	0.112	998.172	0.01%	99.82%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 10 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	4.119	0.108	998.28	0.01%	99.83%
152.5	4.003	0.104	998.384	0.01%	99.84%
153.0	3.893	0.099	998.483	0.01%	99.85%
153.5	3.795	0.095	998.578	0.01%	99.86%
154.0	3.694	0.091	998.669	0.01%	99.87%
154.5	3.561	0.086	998.755	0.01%	99.88%
155.0	3.431	0.082	998.837	0.01%	99.88%
155.5	3.333	0.078	998.914	0.01%	99.89%
156.0	3.216	0.074	998.988	0.01%	99.90%
156.5	3.111	0.070	999.058	0.01%	99.91%
157.0	2.992	0.066	999.124	0.01%	99.91%
157.5	2.923	0.063	999.187	0.01%	99.92%
158.0	2.816	0.060	999.246	0.01%	99.92%
158.5	2.741	0.056	999.303	0.01%	99.93%
159.0	2.662	0.054	999.357	0.01%	99.94%
159.5	2.566	0.051	999.407	0.01%	99.94%
160.0	2.455	0.048	999.455	0.00%	99.95%
160.5	2.324	0.044	999.499	0.00%	99.95%
161.0	2.225	0.041	999.54	0.00%	99.95%
161.5	2.130	0.038	999.579	0.00%	99.96%
162.0	2.053	0.036	999.615	0.00%	99.96%
162.5	1.973	0.034	999.648	0.00%	99.96%
163.0	1.915	0.032	999.68	0.00%	99.97%
163.5	1.809	0.029	999.709	0.00%	99.97%
164.0	1.736	0.027	999.737	0.00%	99.97%
164.5	1.662	0.025	999.762	0.00%	99.98%
165.0	1.590	0.023	999.785	0.00%	99.98%
165.5	1.527	0.022	999.807	0.00%	99.98%
166.0	1.445	0.020	999.827	0.00%	99.98%
166.5	1.377	0.018	999.845	0.00%	99.98%
167.0	1.280	0.017	999.862	0.00%	99.99%
167.5	1.219	0.015	999.877	0.00%	99.99%
168.0	1.139	0.014	999.891	0.00%	99.99%
168.5	1.080	0.012	999.903	0.00%	99.99%
169.0	1.032	0.011	999.915	0.00%	99.99%
169.5	0.972	0.010	999.925	0.00%	99.99%
170.0	0.919	0.009	999.934	0.00%	99.99%
170.5	0.858	0.008	999.942	0.00%	99.99%

Equipment: GMS-1800  
Temperature( $^{\circ}$ C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

Zonal flux distribution table

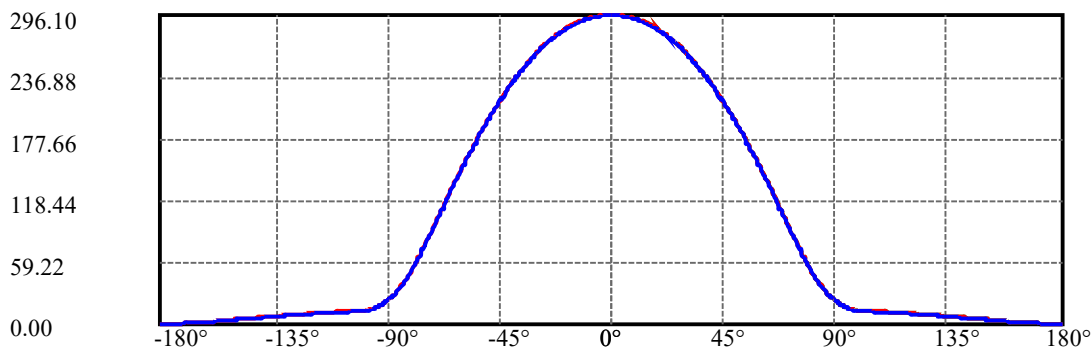
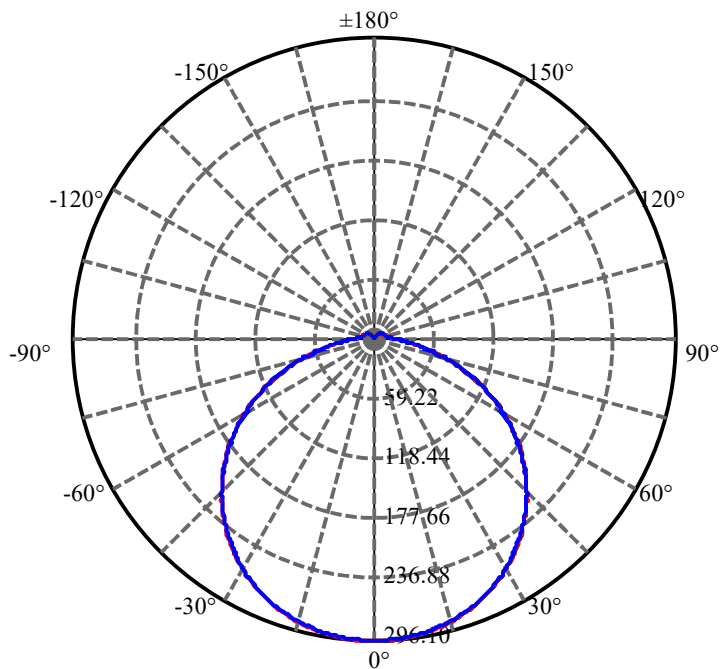
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	0.828	0.007	999.95	0.00%	99.99%
171.5	0.775	0.007	999.957	0.00%	100.00%
172.0	0.745	0.006	999.962	0.00%	100.00%
172.5	0.699	0.005	999.968	0.00%	100.00%
173.0	0.664	0.005	999.973	0.00%	100.00%
173.5	0.605	0.004	999.977	0.00%	100.00%
174.0	0.598	0.004	999.98	0.00%	100.00%
174.5	0.591	0.003	999.983	0.00%	100.00%
175.0	0.570	0.003	999.986	0.00%	100.00%
175.5	0.576	0.003	999.989	0.00%	100.00%
176.0	0.582	0.002	999.991	0.00%	100.00%
176.5	0.574	0.002	999.993	0.00%	100.00%
177.0	0.560	0.002	999.995	0.00%	100.00%
177.5	0.557	0.001	999.997	0.00%	100.00%
178.0	0.552	0.001	999.998	0.00%	100.00%
178.5	0.553	0.001	999.999	0.00%	100.00%
179.0	0.553	0.001	999.999	0.00%	100.00%
179.5	0.551	0.000	1000	0.00%	100.00%
180.0	0.528	0.000	1000	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	234.17	23.42%	23.42%
0-40	387.78	38.78%	38.78%
0-60	703.53	70.35%	70.35%
0-90	938.87	93.89%	93.89%
0-120	980.00	98.00%	98.00%
0-180	1000.00	100.00%	100.00%
60-90	235.34	23.53%	23.53%
90-120	41.13	4.11%	4.11%
90-130	49.58	4.96%	4.96%
90-150	58.96	5.90%	5.90%
90-180	61.13	6.11%	6.11%
0-67.64	800.00	80.00%	80.00%

ZONAL LUMEN SUMMARY

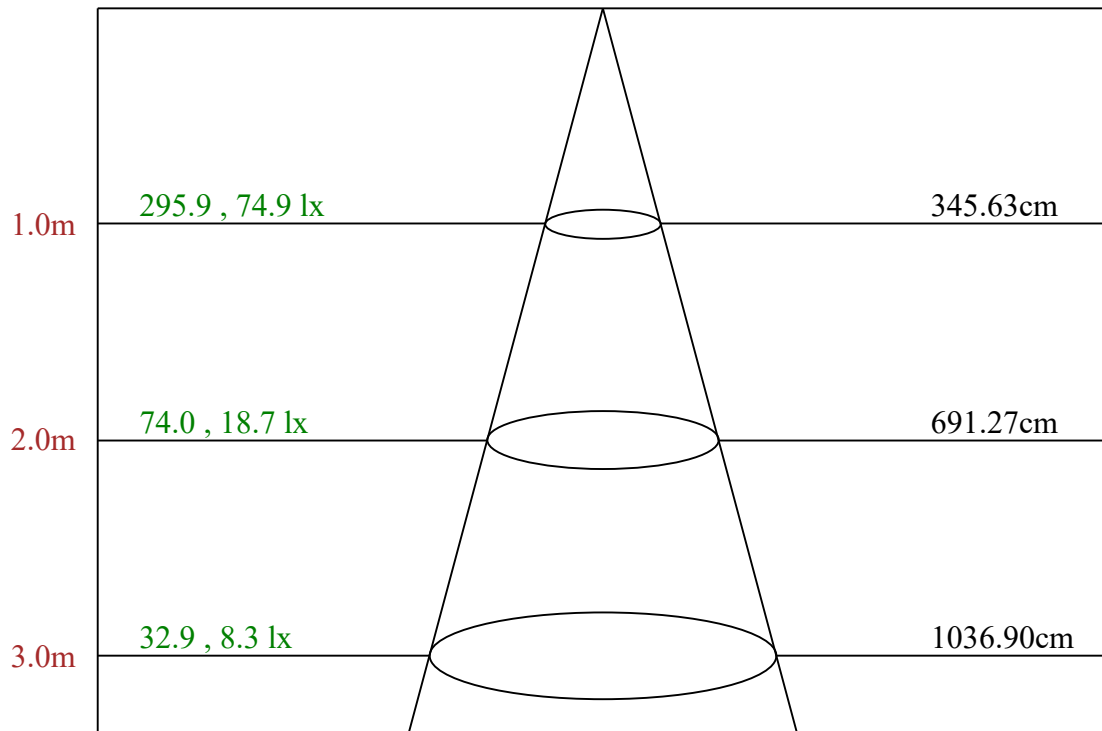
0-10	28.08
10-20	81.18
20-30	124.90
30-40	153.61
40-50	163.39
50-60	152.35
60-70	121.46
70-80	77.06
80-90	36.83
90-100	17.27
100-110	12.97
110-120	10.89
120-130	8.44
130-140	5.87
140-150	3.51
150-160	1.63
160-170	0.48
170-180	0.07



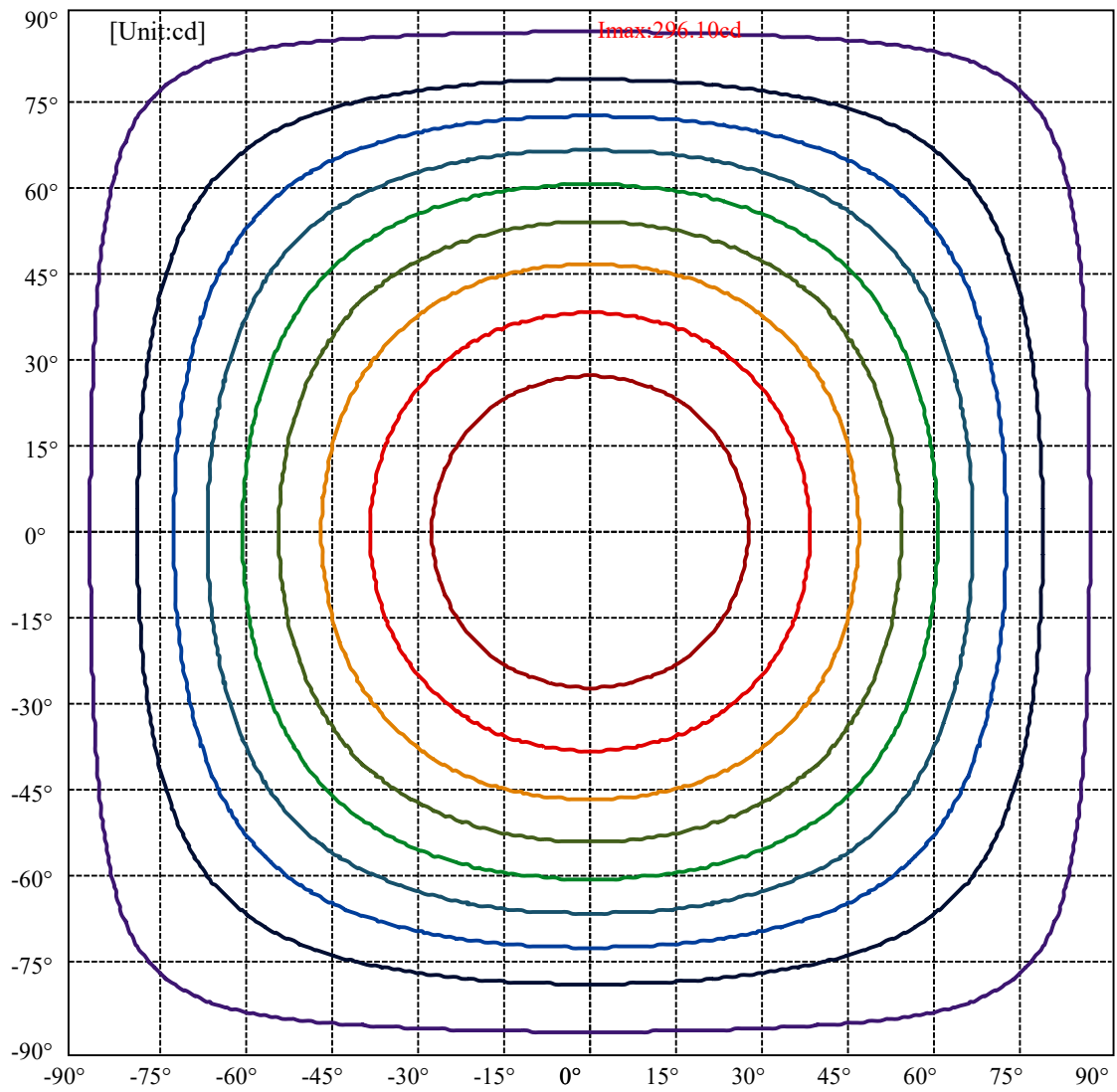
C0(Max): ———  
 C0/C180: ———  
 C90/C270: ———

Field angle(10%Imax):C0/180Left:86.1 Right:86.1  
 :C90/270Left:86.1 Right:86.1

Beam Angle(50%Imax):C0/180Left:59.9 Right:59.9  
 :C90/270Left:60.0 Right:60.0



Max , Ave      Beam angle of C0 plane 119.89

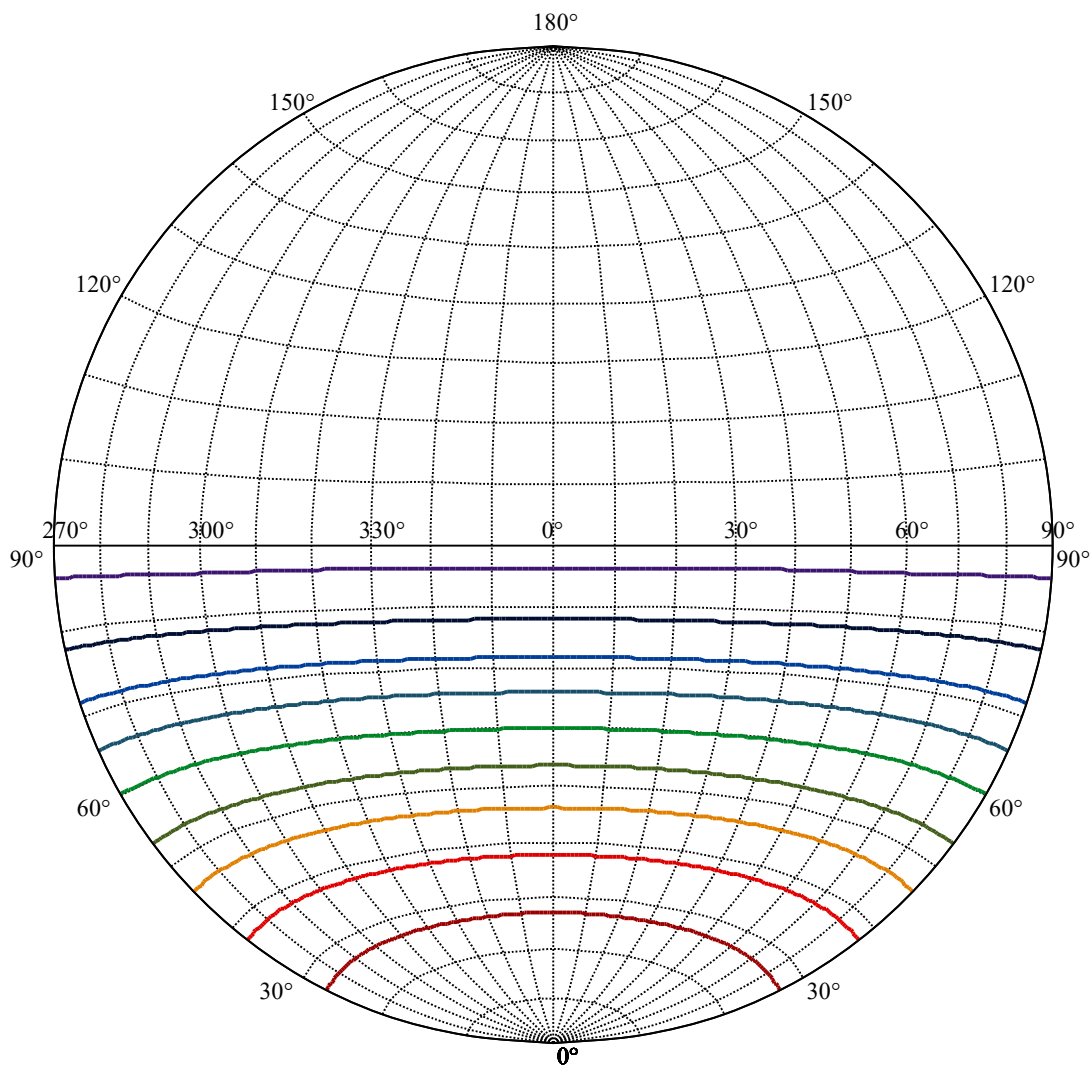


(10%I <sub>max</sub> ) 29.6057	—
(20%I <sub>max</sub> ) 59.2114	—
(30%I <sub>max</sub> ) 88.8171	—
(40%I <sub>max</sub> ) 118.423	—
(50%I <sub>max</sub> ) 148.029	—
(60%I <sub>max</sub> ) 177.634	—
(70%I <sub>max</sub> ) 207.24	—
(80%I <sub>max</sub> ) 236.846	—
(90%I <sub>max</sub> ) 266.451	—

Equipment: GMS-1800  
Temperature(°C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC












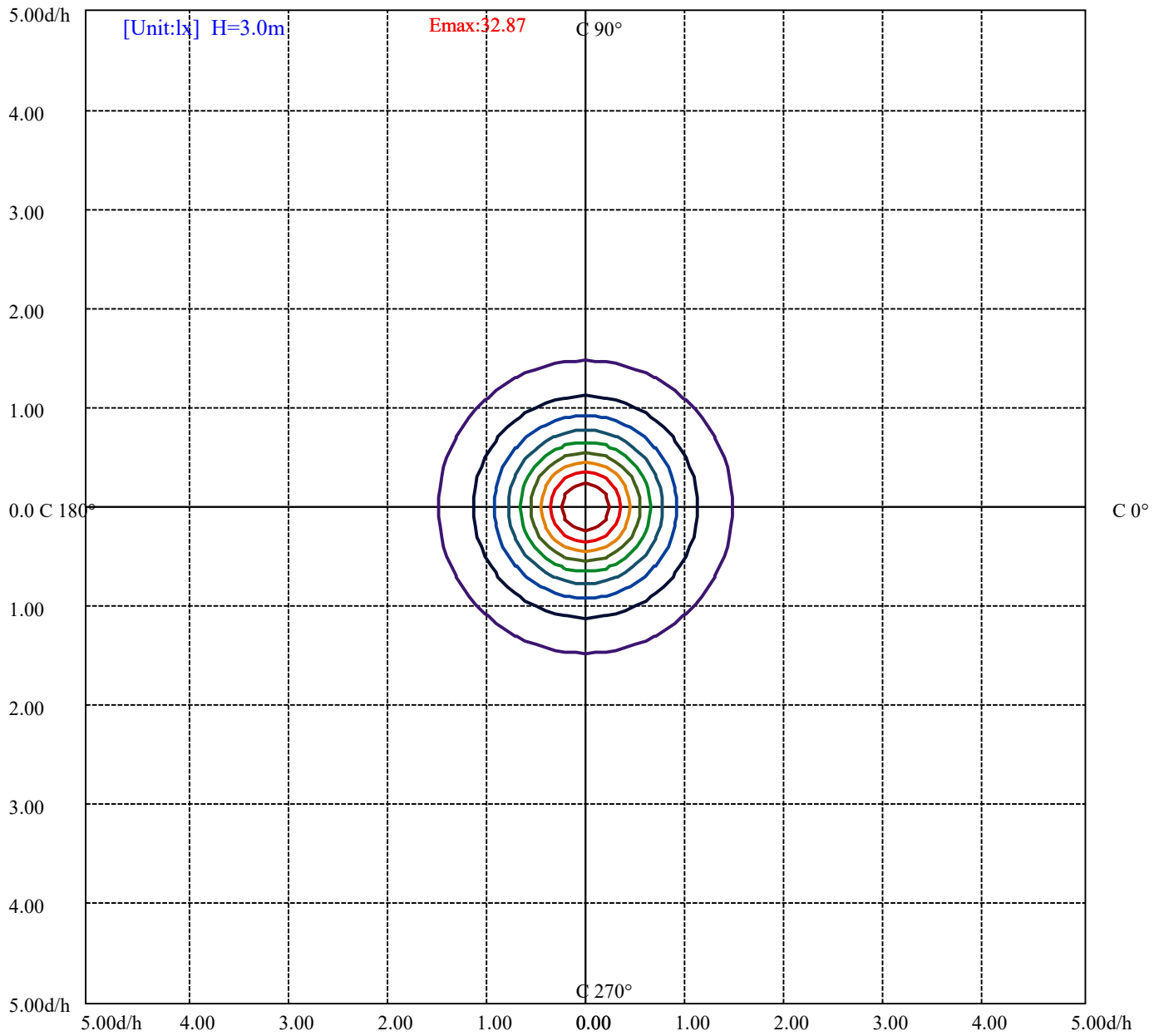
House

[Unit:cd]

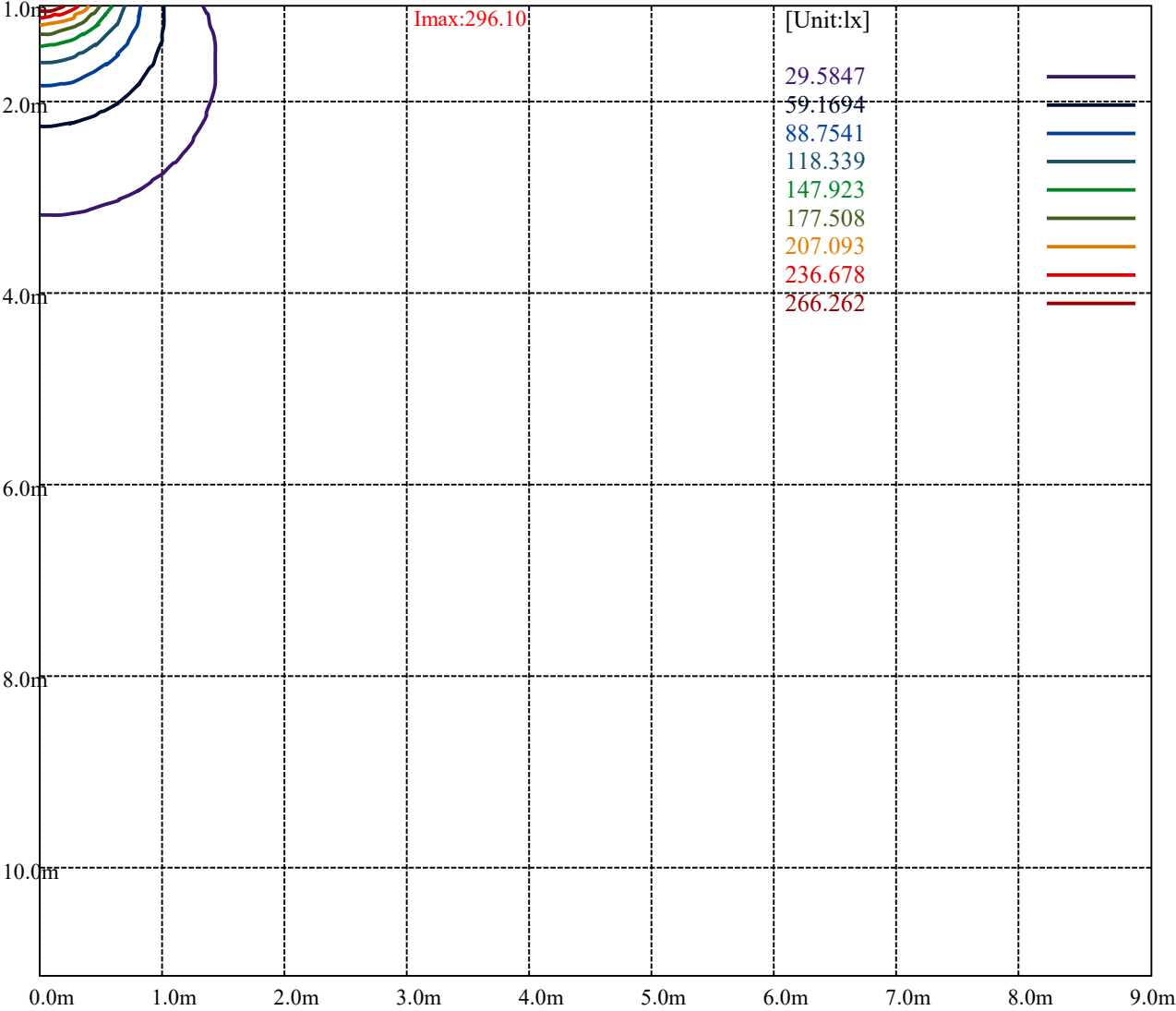
Road

**Imax:296.10**

(10%Imax) 29.6057	
(20%Imax) 59.2114	
(30%Imax) 88.8171	
(40%Imax) 118.423	
(50%Imax) 148.029	
(60%Imax) 177.634	
(70%Imax) 207.24	
(80%Imax) 236.846	
(90%Imax) 266.451	



- (10%Emax) 3.287189 —
- (20%Emax) 6.574378 —
- (30%Emax) 9.861567 —
- (40%Emax) 13.14878 —
- (50%Emax) 16.43589 —
- (60%Emax) 19.72311 —
- (70%Emax) 23.01033 —
- (80%Emax) 26.29755 —
- (90%Emax) 29.58467 —



## Intensity data(cd)

C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	295.85	295.94	296.06	296.10	296.02	295.95	295.86	295.72	295.52
30.0	295.85	295.90	295.97	295.98	295.93	295.85	295.73	295.59	295.45
60.0	295.85	295.88	295.97	295.98	295.87	295.83	295.77	295.71	295.50
90.0	295.85	295.89	295.95	295.85	295.69	295.67	295.48	295.46	295.22
120.0	295.85	295.88	295.97	295.98	295.87	295.83	295.77	295.71	295.50
150.0	295.85	295.90	295.97	295.98	295.93	295.85	295.73	295.59	295.45
180.0	295.85	295.94	296.06	296.10	296.02	295.95	295.86	295.72	295.52
210.0	295.85	295.90	295.97	295.98	295.93	295.85	295.73	295.59	295.45
240.0	295.85	295.88	295.97	295.98	295.87	295.83	295.77	295.71	295.50
270.0	295.85	295.89	295.95	295.85	295.69	295.67	295.48	295.46	295.22
300.0	295.85	295.88	295.97	295.98	295.87	295.83	295.77	295.71	295.50
330.0	295.85	295.90	295.97	295.98	295.93	295.85	295.73	295.59	295.45
360.0	295.85	295.94	296.06	296.10	296.02	295.95	295.86	295.72	295.52
C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	295.34	295.17	295.04	294.90	294.63	294.35	294.06	293.87	293.56
30.0	295.30	295.11	294.90	294.71	294.52	294.28	294.04	293.81	293.46
60.0	295.37	295.19	294.97	294.79	294.47	294.32	294.01	293.86	293.46
90.0	295.07	294.85	294.74	294.53	294.34	294.07	293.55	293.54	293.08
120.0	295.37	295.19	294.97	294.79	294.47	294.32	294.01	293.86	293.46
150.0	295.30	295.11	294.90	294.71	294.52	294.28	294.04	293.81	293.46
180.0	295.34	295.17	295.04	294.90	294.63	294.35	294.06	293.87	293.56
210.0	295.30	295.11	294.90	294.71	294.52	294.28	294.04	293.81	293.46
240.0	295.37	295.19	294.97	294.79	294.47	294.32	294.01	293.86	293.46
270.0	295.07	294.85	294.74	294.53	294.34	294.07	293.55	293.54	293.08
300.0	295.37	295.19	294.97	294.79	294.47	294.32	294.01	293.86	293.46
330.0	295.30	295.11	294.90	294.71	294.52	294.28	294.04	293.81	293.46
360.0	295.34	295.17	295.04	294.90	294.63	294.35	294.06	293.87	293.56
C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	293.22	292.81	292.48	292.11	291.72	291.30	290.76	290.29	289.77
30.0	293.09	292.77	292.34	291.88	291.48	291.10	290.66	290.18	289.62
60.0	293.16	292.72	292.35	292.02	291.52	291.16	290.56	290.29	289.66
90.0	292.78	292.40	292.16	291.66	291.33	290.89	290.07	290.06	289.09
120.0	293.16	292.72	292.35	292.02	291.52	291.16	290.56	290.29	289.66
150.0	293.09	292.77	292.34	291.88	291.48	291.10	290.66	290.18	289.62
180.0	293.22	292.81	292.48	292.11	291.72	291.30	290.76	290.29	289.77
210.0	293.09	292.77	292.34	291.88	291.48	291.10	290.66	290.18	289.62
240.0	293.16	292.72	292.35	292.02	291.52	291.16	290.56	290.29	289.66
270.0	292.78	292.40	292.16	291.66	291.33	290.89	290.07	290.06	289.09
300.0	293.16	292.72	292.35	292.02	291.52	291.16	290.56	290.29	289.66
330.0	293.09	292.77	292.34	291.88	291.48	291.10	290.66	290.18	289.62
360.0	293.22	292.81	292.48	292.11	291.72	291.30	290.76	290.29	289.77
C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	289.27	288.67	288.18	287.46	286.81	286.25	285.84	285.24	284.40
30.0	289.08	288.65	288.22	287.61	286.83	286.10	285.47	284.78	284.06
60.0	289.37	288.66	288.19	287.50	286.86	286.23	285.48	284.92	283.97
90.0	289.08	288.11	287.66	287.05	286.58	285.91	285.37	284.70	283.42
120.0	289.37	288.66	288.19	287.50	286.86	286.23	285.48	284.92	283.97
150.0	289.08	288.65	288.22	287.61	286.83	286.10	285.47	284.78	284.06
180.0	289.27	288.67	288.18	287.46	286.81	286.25	285.84	285.24	284.40
210.0	289.08	288.65	288.22	287.61	286.83	286.10	285.47	284.78	284.06
240.0	289.37	288.66	288.19	287.50	286.86	286.23	285.48	284.92	283.97
270.0	289.08	288.11	287.66	287.05	286.58	285.91	285.37	284.70	283.42
300.0	289.37	288.66	288.19	287.50	286.86	286.23	285.48	284.92	283.97
330.0	289.08	288.65	288.22	287.61	286.83	286.10	285.47	284.78	284.06
360.0	289.27	288.67	288.18	287.46	286.81	286.25	285.84	285.24	284.40

## Intensity data(cd)

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	283.66	282.84	282.09	281.17	280.41	279.61	278.83	278.03	276.96
30.0	283.41	282.66	281.88	281.12	280.30	279.45	278.56	277.63	276.78
60.0	283.55	282.61	282.18	281.15	280.45	279.48	278.64	277.80	276.77
90.0	283.42	282.06	281.49	280.56	279.88	279.05	278.29	277.39	276.69
120.0	283.55	282.61	282.18	281.15	280.45	279.48	278.64	277.80	276.77
150.0	283.41	282.66	281.88	281.12	280.30	279.45	278.56	277.63	276.78
180.0	283.66	282.84	282.09	281.17	280.41	279.61	278.83	278.03	276.96
210.0	283.41	282.66	281.88	281.12	280.30	279.45	278.56	277.63	276.78
240.0	283.55	282.61	282.18	281.15	280.45	279.48	278.64	277.80	276.77
270.0	283.42	282.06	281.49	280.56	279.88	279.05	278.29	277.39	276.69
300.0	283.55	282.61	282.18	281.15	280.45	279.48	278.64	277.80	276.77
330.0	283.41	282.66	281.88	281.12	280.30	279.45	278.56	277.63	276.78
360.0	283.66	282.84	282.09	281.17	280.41	279.61	278.83	278.03	276.96
C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	275.77	274.65	274.03	273.47	272.53	271.22	269.98	269.00	268.02
30.0	275.86	274.92	274.06	273.05	272.00	271.00	269.78	268.52	267.49
60.0	276.02	274.76	274.20	272.83	272.00	270.80	269.75	268.69	267.42
90.0	275.80	274.07	274.06	272.25	271.36	270.30	269.46	268.34	267.42
120.0	276.02	274.76	274.20	272.83	272.00	270.80	269.75	268.69	267.42
150.0	275.86	274.92	274.06	273.05	272.00	271.00	269.78	268.52	267.49
180.0	275.77	274.65	274.03	273.47	272.53	271.22	269.98	269.00	268.02
210.0	275.86	274.92	274.06	273.05	272.00	271.00	269.78	268.52	267.49
240.0	276.02	274.76	274.20	272.83	272.00	270.80	269.75	268.69	267.42
270.0	275.80	274.07	274.06	272.25	271.36	270.30	269.46	268.34	267.42
300.0	276.02	274.76	274.20	272.83	272.00	270.80	269.75	268.69	267.42
330.0	275.86	274.92	274.06	273.05	272.00	271.00	269.78	268.52	267.49
360.0	275.77	274.65	274.03	273.47	272.53	271.22	269.98	269.00	268.02
C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	266.99	265.95	264.89	263.47	261.91	260.45	259.34	258.17	256.95
30.0	266.53	265.48	264.27	262.88	261.63	260.49	259.37	258.17	256.71
60.0	266.50	264.95	264.28	262.81	262.12	260.52	259.48	257.99	256.66
90.0	266.30	264.19	264.19	263.08	262.00	259.82	258.69	257.47	256.34
120.0	266.50	264.95	264.28	262.81	262.12	260.52	259.48	257.99	256.66
150.0	266.53	265.48	264.27	262.88	261.63	260.49	259.37	258.17	256.71
180.0	266.99	265.95	264.89	263.47	261.91	260.45	259.34	258.17	256.95
210.0	266.53	265.48	264.27	262.88	261.63	260.49	259.37	258.17	256.71
240.0	266.50	264.95	264.28	262.81	262.12	260.52	259.48	257.99	256.66
270.0	266.30	264.19	264.19	263.08	262.00	259.82	258.69	257.47	256.34
300.0	266.50	264.95	264.28	262.81	262.12	260.52	259.48	257.99	256.66
330.0	266.53	265.48	264.27	262.88	261.63	260.49	259.37	258.17	256.71
360.0	266.99	265.95	264.89	263.47	261.91	260.45	259.34	258.17	256.95
C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	255.73	254.52	253.28	251.65	250.23	248.69	247.25	245.52	244.16
30.0	255.24	253.99	252.62	251.20	249.91	248.41	246.93	245.57	244.08
60.0	255.34	253.81	252.73	250.87	250.08	248.30	247.47	245.50	244.30
90.0	255.06	253.91	252.57	250.01	250.01	247.45	246.30	244.80	243.45
120.0	255.34	253.81	252.73	250.87	250.08	248.30	247.47	245.50	244.30
150.0	255.24	253.99	252.62	251.20	249.91	248.41	246.93	245.57	244.08
180.0	255.73	254.52	253.28	251.65	250.23	248.69	247.25	245.52	244.16
210.0	255.24	253.99	252.62	251.20	249.91	248.41	246.93	245.57	244.08
240.0	255.34	253.81	252.73	250.87	250.08	248.30	247.47	245.50	244.30
270.0	255.06	253.91	252.57	250.01	250.01	247.45	246.30	244.80	243.45
300.0	255.34	253.81	252.73	250.87	250.08	248.30	247.47	245.50	244.30
330.0	255.24	253.99	252.62	251.20	249.91	248.41	246.93	245.57	244.08
360.0	255.73	254.52	253.28	251.65	250.23	248.69	247.25	245.52	244.16

## Intensity data(cd)

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	242.78	241.42	239.99	238.12	236.48	234.72	233.11	231.19	229.68
30.0	242.54	240.95	239.40	237.94	236.33	234.68	233.17	231.45	229.77
60.0	242.49	240.57	239.32	237.28	236.37	234.30	233.38	231.29	230.34
90.0	242.02	240.72	239.15	237.80	236.36	233.42	233.41	230.40	229.03
120.0	242.49	240.57	239.32	237.28	236.37	234.30	233.38	231.29	230.34
150.0	242.54	240.95	239.40	237.94	236.33	234.68	233.17	231.45	229.77
180.0	242.78	241.42	239.99	238.12	236.48	234.72	233.11	231.19	229.68
210.0	242.54	240.95	239.40	237.94	236.33	234.68	233.17	231.45	229.77
240.0	242.49	240.57	239.32	237.28	236.37	234.30	233.38	231.29	230.34
270.0	242.02	240.72	239.15	237.80	236.36	233.42	233.41	230.40	229.03
300.0	242.49	240.57	239.32	237.28	236.37	234.30	233.38	231.29	230.34
330.0	242.54	240.95	239.40	237.94	236.33	234.68	233.17	231.45	229.77
360.0	242.78	241.42	239.99	238.12	236.48	234.72	233.11	231.19	229.68
C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	228.13	226.58	224.99	223.40	221.77	219.67	217.86	215.84	213.94
30.0	228.19	226.25	224.33	222.72	221.14	219.48	217.65	215.56	213.68
60.0	228.03	226.21	224.53	222.53	221.09	218.67	217.65	215.35	214.30
90.0	227.38	225.87	224.15	222.70	220.97	217.73	217.73	214.34	214.34
120.0	228.03	226.21	224.53	222.53	221.09	218.67	217.65	215.35	214.30
150.0	228.19	226.25	224.33	222.72	221.14	219.48	217.65	215.56	213.68
180.0	228.13	226.58	224.99	223.40	221.77	219.67	217.86	215.84	213.94
210.0	228.19	226.25	224.33	222.72	221.14	219.48	217.65	215.56	213.68
240.0	228.03	226.21	224.53	222.53	221.09	218.67	217.65	215.35	214.30
270.0	227.38	225.87	224.15	222.70	220.97	217.73	217.73	214.34	214.34
300.0	228.03	226.21	224.53	222.53	221.09	218.67	217.65	215.35	214.30
330.0	228.19	226.25	224.33	222.72	221.14	219.48	217.65	215.56	213.68
360.0	228.13	226.58	224.99	223.40	221.77	219.67	217.86	215.84	213.94
C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	211.71	210.00	208.27	206.53	204.44	202.27	200.72	199.12	197.08
30.0	211.94	210.23	208.42	206.23	203.81	201.78	199.97	198.16	196.31
60.0	211.77	210.22	208.09	206.15	204.25	201.95	200.34	197.68	196.55
90.0	210.94	209.29	207.48	205.74	203.93	202.18	200.31	196.69	196.69
120.0	211.77	210.22	208.09	206.15	204.25	201.95	200.34	197.68	196.55
150.0	211.94	210.23	208.42	206.23	203.81	201.78	199.97	198.16	196.31
180.0	211.71	210.00	208.27	206.53	204.44	202.27	200.72	199.12	197.08
210.0	211.94	210.23	208.42	206.23	203.81	201.78	199.97	198.16	196.31
240.0	211.77	210.22	208.09	206.15	204.25	201.95	200.34	197.68	196.55
270.0	210.94	209.29	207.48	205.74	203.93	202.18	200.31	196.69	196.69
300.0	211.77	210.22	208.09	206.15	204.25	201.95	200.34	197.68	196.55
330.0	211.94	210.23	208.42	206.23	203.81	201.78	199.97	198.16	196.31
360.0	211.71	210.00	208.27	206.53	204.44	202.27	200.72	199.12	197.08
C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	194.70	192.26	190.20	187.91	186.36	184.04	182.46	180.10	178.47
30.0	194.21	192.13	190.18	188.07	185.90	183.70	181.53	179.78	177.81
60.0	193.96	192.78	190.04	188.34	185.79	183.18	181.43	178.57	177.35
90.0	192.99	191.26	189.22	187.34	185.31	183.48	181.46	179.49	177.46
120.0	193.96	192.78	190.04	188.34	185.79	183.18	181.43	178.57	177.35
150.0	194.21	192.13	190.18	188.07	185.90	183.70	181.53	179.78	177.81
180.0	194.70	192.26	190.20	187.91	186.36	184.04	182.46	180.10	178.47
210.0	194.21	192.13	190.18	188.07	185.90	183.70	181.53	179.78	177.81
240.0	193.96	192.78	190.04	188.34	185.79	183.18	181.43	178.57	177.35
270.0	192.99	191.26	189.22	187.34	185.31	183.48	181.46	179.49	177.46
300.0	193.96	192.78	190.04	188.34	185.79	183.18	181.43	178.57	177.35
330.0	194.21	192.13	190.18	188.07	185.90	183.70	181.53	179.78	177.81
360.0	194.70	192.26	190.20	187.91	186.36	184.04	182.46	180.10	178.47

## Intensity data(cd)

C/ $\gamma$ (°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0
0.0	176.08	173.27	170.46	167.96	166.26	163.77	162.09	159.59	157.26
30.0	175.33	173.03	170.72	168.45	166.33	163.75	161.16	159.01	156.94
60.0	174.55	173.30	170.29	168.45	165.87	163.59	161.37	158.73	156.84
90.0	173.47	173.46	169.39	167.36	165.25	163.28	161.10	159.12	156.94
120.0	174.55	173.30	170.29	168.45	165.87	163.59	161.37	158.73	156.84
150.0	175.33	173.03	170.72	168.45	166.33	163.75	161.16	159.01	156.94
180.0	176.08	173.27	170.46	167.96	166.26	163.77	162.09	159.59	157.26
210.0	175.33	173.03	170.72	168.45	166.33	163.75	161.16	159.01	156.94
240.0	174.55	173.30	170.29	168.45	165.87	163.59	161.37	158.73	156.84
270.0	173.47	173.46	169.39	167.36	165.25	163.28	161.10	159.12	156.94
300.0	174.55	173.30	170.29	168.45	165.87	163.59	161.37	158.73	156.84
330.0	175.33	173.03	170.72	168.45	166.33	163.75	161.16	159.01	156.94
360.0	176.08	173.27	170.46	167.96	166.26	163.77	162.09	159.59	157.26
C/ $\gamma$ (°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	154.50	152.33	150.16	147.34	144.96	142.35	140.59	138.59	136.99
30.0	154.77	152.38	149.68	147.27	145.03	142.60	140.12	137.62	135.13
60.0	153.70	152.38	149.37	148.04	144.87	142.92	140.11	137.70	135.31
90.0	152.65	152.65	148.28	148.27	143.90	141.87	139.53	137.34	135.08
120.0	153.70	152.38	149.37	148.04	144.87	142.92	140.11	137.70	135.31
150.0	154.77	152.38	149.68	147.27	145.03	142.60	140.12	137.62	135.13
180.0	154.50	152.33	150.16	147.34	144.96	142.35	140.59	138.59	136.99
210.0	154.77	152.38	149.68	147.27	145.03	142.60	140.12	137.62	135.13
240.0	153.70	152.38	149.37	148.04	144.87	142.92	140.11	137.70	135.31
270.0	152.65	152.65	148.28	148.27	143.90	141.87	139.53	137.34	135.08
300.0	153.70	152.38	149.37	148.04	144.87	142.92	140.11	137.70	135.31
330.0	154.77	152.38	149.68	147.27	145.03	142.60	140.12	137.62	135.13
360.0	154.50	152.33	150.16	147.34	144.96	142.35	140.59	138.59	136.99
C/ $\gamma$ (°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	134.07	130.91	127.98	125.68	123.41	120.45	117.96	115.19	113.30
30.0	132.82	130.30	127.75	125.49	123.23	120.94	118.34	115.48	112.85
60.0	132.47	130.45	127.09	125.69	122.55	121.13	117.62	114.94	112.46
90.0	132.88	130.55	126.10	126.10	121.57	119.40	116.97	114.71	110.12
120.0	132.47	130.45	127.09	125.69	122.55	121.13	117.62	114.94	112.46
150.0	132.82	130.30	127.75	125.49	123.23	120.94	118.34	115.48	112.85
180.0	134.07	130.91	127.98	125.68	123.41	120.45	117.96	115.19	113.30
210.0	132.82	130.30	127.75	125.49	123.23	120.94	118.34	115.48	112.85
240.0	132.47	130.45	127.09	125.69	122.55	121.13	117.62	114.94	112.46
270.0	132.88	130.55	126.10	126.10	121.57	119.40	116.97	114.71	110.12
300.0	132.47	130.45	127.09	125.69	122.55	121.13	117.62	114.94	112.46
330.0	132.82	130.30	127.75	125.49	123.23	120.94	118.34	115.48	112.85
360.0	134.07	130.91	127.98	125.68	123.41	120.45	117.96	115.19	113.30
C/ $\gamma$ (°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	110.54	108.68	105.92	103.33	100.31	97.30	94.76	91.97	90.08
30.0	110.23	107.68	105.33	102.78	100.19	97.86	95.24	92.67	90.32
60.0	109.55	107.49	104.10	102.65	99.43	98.00	94.62	92.58	89.67
90.0	110.03	107.70	105.35	103.09	98.50	98.49	93.82	91.56	89.29
120.0	109.55	107.49	104.10	102.65	99.43	98.00	94.62	92.58	89.67
150.0	110.23	107.68	105.33	102.78	100.19	97.86	95.24	92.67	90.32
180.0	110.54	108.68	105.92	103.33	100.31	97.30	94.76	91.97	90.08
210.0	110.23	107.68	105.33	102.78	100.19	97.86	95.24	92.67	90.32
240.0	109.55	107.49	104.10	102.65	99.43	98.00	94.62	92.58	89.67
270.0	110.03	107.70	105.35	103.09	98.50	98.49	93.82	91.56	89.29
300.0	109.55	107.49	104.10	102.65	99.43	98.00	94.62	92.58	89.67
330.0	110.23	107.68	105.33	102.78	100.19	97.86	95.24	92.67	90.32
360.0	110.54	108.68	105.92	103.33	100.31	97.30	94.76	91.97	90.08

## Intensity data(cd)

C/ $\gamma$ (°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	87.34	85.51	82.81	80.35	77.47	75.20	72.94	70.09	67.73
30.0	87.51	84.72	82.40	80.18	77.90	75.43	72.67	70.26	68.07
60.0	87.18	84.53	81.08	79.67	76.53	75.16	72.10	70.76	67.60
90.0	86.95	84.69	82.35	80.24	75.72	75.71	71.34	71.34	67.04
120.0	87.18	84.53	81.08	79.67	76.53	75.16	72.10	70.76	67.60
150.0	87.51	84.72	82.40	80.18	77.90	75.43	72.67	70.26	68.07
180.0	87.34	85.51	82.81	80.35	77.47	75.20	72.94	70.09	67.73
210.0	87.51	84.72	82.40	80.18	77.90	75.43	72.67	70.26	68.07
240.0	87.18	84.53	81.08	79.67	76.53	75.16	72.10	70.76	67.60
270.0	86.95	84.69	82.35	80.24	75.72	75.71	71.34	71.34	67.04
300.0	87.18	84.53	81.08	79.67	76.53	75.16	72.10	70.76	67.60
330.0	87.51	84.72	82.40	80.18	77.90	75.43	72.67	70.26	68.07
360.0	87.34	85.51	82.81	80.35	77.47	75.20	72.94	70.09	67.73
C/ $\gamma$ (°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	65.18	63.48	61.01	59.37	56.96	54.80	52.30	50.44	48.59
30.0	66.00	63.88	61.33	58.82	56.79	54.62	52.44	50.57	48.56
60.0	65.87	63.75	60.99	58.61	56.11	54.34	51.54	50.39	47.73
90.0	64.86	62.89	60.71	58.81	56.71	54.96	51.12	51.12	47.57
120.0	65.87	63.75	60.99	58.61	56.11	54.34	51.54	50.39	47.73
150.0	66.00	63.88	61.33	58.82	56.79	54.62	52.44	50.57	48.56
180.0	65.18	63.48	61.01	59.37	56.96	54.80	52.30	50.44	48.59
210.0	66.00	63.88	61.33	58.82	56.79	54.62	52.44	50.57	48.56
240.0	65.87	63.75	60.99	58.61	56.11	54.34	51.54	50.39	47.73
270.0	64.86	62.89	60.71	58.81	56.71	54.96	51.12	51.12	47.57
300.0	65.87	63.75	60.99	58.61	56.11	54.34	51.54	50.39	47.73
330.0	66.00	63.88	61.33	58.82	56.79	54.62	52.44	50.57	48.56
360.0	65.18	63.48	61.01	59.37	56.96	54.80	52.30	50.44	48.59
C/ $\gamma$ (°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	46.28	44.32	42.33	41.07	39.23	37.98	36.18	34.67	32.90
30.0	46.61	44.62	42.55	41.07	39.70	37.91	36.25	34.66	33.11
60.0	46.18	44.02	42.31	40.50	38.49	37.11	35.03	34.18	32.27
90.0	45.55	44.03	42.23	40.79	39.06	37.11	35.41	35.41	32.69
120.0	46.18	44.02	42.31	40.50	38.49	37.11	35.03	34.18	32.27
150.0	46.61	44.62	42.55	41.07	39.70	37.91	36.25	34.66	33.11
180.0	46.28	44.32	42.33	41.07	39.23	37.98	36.18	34.67	32.90
210.0	46.61	44.62	42.55	41.07	39.70	37.91	36.25	34.66	33.11
240.0	46.18	44.02	42.31	40.50	38.49	37.11	35.03	34.18	32.27
270.0	45.55	44.03	42.23	40.79	39.06	37.11	35.41	35.41	32.69
300.0	46.18	44.02	42.31	40.50	38.49	37.11	35.03	34.18	32.27
330.0	46.61	44.62	42.55	41.07	39.70	37.91	36.25	34.66	33.11
360.0	46.28	44.32	42.33	41.07	39.23	37.98	36.18	34.67	32.90
C/ $\gamma$ (°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	31.24	29.85	28.45	27.53	26.23	25.38	24.21	23.24	22.12
30.0	31.82	30.45	29.13	27.97	26.64	25.36	24.36	23.23	22.03
60.0	31.46	29.66	28.63	27.22	26.10	24.93	23.71	22.87	21.59
90.0	31.67	30.13	27.84	27.80	25.65	25.61	23.69	23.65	21.92
120.0	31.46	29.66	28.63	27.22	26.10	24.93	23.71	22.87	21.59
150.0	31.82	30.45	29.13	27.97	26.64	25.36	24.36	23.23	22.03
180.0	31.24	29.85	28.45	27.53	26.23	25.38	24.21	23.24	22.12
210.0	31.82	30.45	29.13	27.97	26.64	25.36	24.36	23.23	22.03
240.0	31.46	29.66	28.63	27.22	26.10	24.93	23.71	22.87	21.59
270.0	31.67	30.13	27.84	27.80	25.65	25.61	23.69	23.65	21.92
300.0	31.46	29.66	28.63	27.22	26.10	24.93	23.71	22.87	21.59
330.0	31.82	30.45	29.13	27.97	26.64	25.36	24.36	23.23	22.03
360.0	31.24	29.85	28.45	27.53	26.23	25.38	24.21	23.24	22.12

## Intensity data(cd)

C/γ(°)	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0
0.0	21.34	20.57	19.65	18.88	18.17	17.75	17.13	16.74	16.20
30.0	21.17	20.53	19.94	19.32	18.65	18.02	17.36	16.76	16.29
60.0	21.08	20.01	19.57	18.66	18.22	17.18	16.70	16.20	15.71
90.0	21.33	20.34	19.83	18.91	17.67	17.63	16.59	16.58	15.76
120.0	21.08	20.01	19.57	18.66	18.22	17.18	16.70	16.20	15.71
150.0	21.17	20.53	19.94	19.32	18.65	18.02	17.36	16.76	16.29
180.0	21.34	20.57	19.65	18.88	18.17	17.75	17.13	16.74	16.20
210.0	21.17	20.53	19.94	19.32	18.65	18.02	17.36	16.76	16.29
240.0	21.08	20.01	19.57	18.66	18.22	17.18	16.70	16.20	15.71
270.0	21.33	20.34	19.83	18.91	17.67	17.63	16.59	16.58	15.76
300.0	21.08	20.01	19.57	18.66	18.22	17.18	16.70	16.20	15.71
330.0	21.17	20.53	19.94	19.32	18.65	18.02	17.36	16.76	16.29
360.0	21.34	20.57	19.65	18.88	18.17	17.75	17.13	16.74	16.20
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5
0.0	15.80	15.32	15.02	14.71	14.38	14.09	13.86	13.74	13.56
30.0	15.83	15.39	15.04	14.71	14.44	14.21	13.95	13.73	13.55
60.0	15.31	14.90	14.57	14.16	13.91	13.68	13.52	13.27	13.12
90.0	15.45	14.93	14.77	14.24	13.73	13.72	13.35	13.34	13.05
120.0	15.31	14.90	14.57	14.16	13.91	13.68	13.52	13.27	13.12
150.0	15.83	15.39	15.04	14.71	14.44	14.21	13.95	13.73	13.55
180.0	15.80	15.32	15.02	14.71	14.38	14.09	13.86	13.74	13.56
210.0	15.83	15.39	15.04	14.71	14.44	14.21	13.95	13.73	13.55
240.0	15.31	14.90	14.57	14.16	13.91	13.68	13.52	13.27	13.12
270.0	15.45	14.93	14.77	14.24	13.73	13.72	13.35	13.34	13.05
300.0	15.31	14.90	14.57	14.16	13.91	13.68	13.52	13.27	13.12
330.0	15.83	15.39	15.04	14.71	14.44	14.21	13.95	13.73	13.55
360.0	15.80	15.32	15.02	14.71	14.38	14.09	13.86	13.74	13.56
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0
0.0	13.44	13.30	13.22	13.12	13.02	12.94	12.87	12.84	12.79
30.0	13.39	13.26	13.16	13.05	12.95	12.86	12.78	12.71	12.63
60.0	12.98	12.84	12.77	12.66	12.59	12.52	12.45	12.40	12.33
90.0	13.04	12.75	12.75	12.59	12.52	12.37	12.22	12.22	12.15
120.0	12.98	12.84	12.77	12.66	12.59	12.52	12.45	12.40	12.33
150.0	13.39	13.26	13.16	13.05	12.95	12.86	12.78	12.71	12.63
180.0	13.44	13.30	13.22	13.12	13.02	12.94	12.87	12.84	12.79
210.0	13.39	13.26	13.16	13.05	12.95	12.86	12.78	12.71	12.63
240.0	12.98	12.84	12.77	12.66	12.59	12.52	12.45	12.40	12.33
270.0	13.04	12.75	12.75	12.59	12.52	12.37	12.22	12.22	12.15
300.0	12.98	12.84	12.77	12.66	12.59	12.52	12.45	12.40	12.33
330.0	13.39	13.26	13.16	13.05	12.95	12.86	12.78	12.71	12.63
360.0	13.44	13.30	13.22	13.12	13.02	12.94	12.87	12.84	12.79
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5
0.0	12.76	12.70	12.61	12.54	12.49	12.44	12.36	12.31	12.24
30.0	12.57	12.53	12.47	12.42	12.37	12.31	12.23	12.18	12.12
60.0	12.26	12.19	12.13	12.05	12.02	11.96	11.92	11.88	11.83
90.0	12.14	12.07	12.07	11.92	11.92	11.84	11.70	11.70	11.62
120.0	12.26	12.19	12.13	12.05	12.02	11.96	11.92	11.88	11.83
150.0	12.57	12.53	12.47	12.42	12.37	12.31	12.23	12.18	12.12
180.0	12.76	12.70	12.61	12.54	12.49	12.44	12.36	12.31	12.24
210.0	12.57	12.53	12.47	12.42	12.37	12.31	12.23	12.18	12.12
240.0	12.26	12.19	12.13	12.05	12.02	11.96	11.92	11.88	11.83
270.0	12.14	12.07	12.07	11.92	11.92	11.84	11.70	11.70	11.62
300.0	12.26	12.19	12.13	12.05	12.02	11.96	11.92	11.88	11.83
330.0	12.57	12.53	12.47	12.42	12.37	12.31	12.23	12.18	12.12
360.0	12.76	12.70	12.61	12.54	12.49	12.44	12.36	12.31	12.24

## Intensity data(cd)

C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0
0.0	12.18	12.11	12.08	12.02	11.95	11.89	11.83	11.76	11.66
30.0	12.05	11.98	11.93	11.87	11.79	11.73	11.68	11.61	11.54
60.0	11.74	11.69	11.62	11.58	11.53	11.44	11.39	11.32	11.24
90.0	11.62	11.54	11.54	11.40	11.32	11.32	11.24	11.17	11.02
120.0	11.74	11.69	11.62	11.58	11.53	11.44	11.39	11.32	11.24
150.0	12.05	11.98	11.93	11.87	11.79	11.73	11.68	11.61	11.54
180.0	12.18	12.11	12.08	12.02	11.95	11.89	11.83	11.76	11.66
210.0	12.05	11.98	11.93	11.87	11.79	11.73	11.68	11.61	11.54
240.0	11.74	11.69	11.62	11.58	11.53	11.44	11.39	11.32	11.24
270.0	11.62	11.54	11.54	11.40	11.32	11.32	11.24	11.17	11.02
300.0	11.74	11.69	11.62	11.58	11.53	11.44	11.39	11.32	11.24
330.0	12.05	11.98	11.93	11.87	11.79	11.73	11.68	11.61	11.54
360.0	12.18	12.11	12.08	12.02	11.95	11.89	11.83	11.76	11.66
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5
0.0	11.58	11.51	11.48	11.41	11.33	11.23	11.16	11.10	11.03
30.0	11.46	11.38	11.33	11.27	11.20	11.12	11.04	10.96	10.91
60.0	11.17	11.09	11.01	10.94	10.86	10.80	10.77	10.69	10.63
90.0	11.02	10.87	10.87	10.79	10.79	10.64	10.64	10.56	10.49
120.0	11.17	11.09	11.01	10.94	10.86	10.80	10.77	10.69	10.63
150.0	11.46	11.38	11.33	11.27	11.20	11.12	11.04	10.96	10.91
180.0	11.58	11.51	11.48	11.41	11.33	11.23	11.16	11.10	11.03
210.0	11.46	11.38	11.33	11.27	11.20	11.12	11.04	10.96	10.91
240.0	11.17	11.09	11.01	10.94	10.86	10.80	10.77	10.69	10.63
270.0	11.02	10.87	10.87	10.79	10.79	10.64	10.64	10.56	10.49
300.0	11.17	11.09	11.01	10.94	10.86	10.80	10.77	10.69	10.63
330.0	11.46	11.38	11.33	11.27	11.20	11.12	11.04	10.96	10.91
360.0	11.58	11.51	11.48	11.41	11.33	11.23	11.16	11.10	11.03
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0
0.0	10.97	10.88	10.83	10.73	10.67	10.58	10.50	10.40	10.33
30.0	10.85	10.78	10.71	10.61	10.52	10.44	10.36	10.27	10.20
60.0	10.56	10.49	10.42	10.36	10.27	10.18	10.10	10.01	9.95
90.0	10.41	10.27	10.26	10.19	10.18	10.04	10.03	9.81	9.74
120.0	10.56	10.49	10.42	10.36	10.27	10.18	10.10	10.01	9.95
150.0	10.85	10.78	10.71	10.61	10.52	10.44	10.36	10.27	10.20
180.0	10.97	10.88	10.83	10.73	10.67	10.58	10.50	10.40	10.33
210.0	10.85	10.78	10.71	10.61	10.52	10.44	10.36	10.27	10.20
240.0	10.56	10.49	10.42	10.36	10.27	10.18	10.10	10.01	9.95
270.0	10.41	10.27	10.26	10.19	10.18	10.04	10.03	9.81	9.74
300.0	10.56	10.49	10.42	10.36	10.27	10.18	10.10	10.01	9.95
330.0	10.85	10.78	10.71	10.61	10.52	10.44	10.36	10.27	10.20
360.0	10.97	10.88	10.83	10.73	10.67	10.58	10.50	10.40	10.33
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5
0.0	10.25	10.15	10.07	9.98	9.92	9.83	9.77	9.68	9.60
30.0	10.12	10.04	9.95	9.87	9.78	9.70	9.62	9.54	9.45
60.0	9.89	9.83	9.74	9.65	9.55	9.46	9.36	9.28	9.23
90.0	9.73	9.59	9.58	9.44	9.43	9.28	9.28	9.13	9.06
120.0	9.89	9.83	9.74	9.65	9.55	9.46	9.36	9.28	9.23
150.0	10.12	10.04	9.95	9.87	9.78	9.70	9.62	9.54	9.45
180.0	10.25	10.15	10.07	9.98	9.92	9.83	9.77	9.68	9.60
210.0	10.12	10.04	9.95	9.87	9.78	9.70	9.62	9.54	9.45
240.0	9.89	9.83	9.74	9.65	9.55	9.46	9.36	9.28	9.23
270.0	9.73	9.59	9.58	9.44	9.43	9.28	9.28	9.13	9.06
300.0	9.89	9.83	9.74	9.65	9.55	9.46	9.36	9.28	9.23
330.0	10.12	10.04	9.95	9.87	9.78	9.70	9.62	9.54	9.45
360.0	10.25	10.15	10.07	9.98	9.92	9.83	9.77	9.68	9.60

## Intensity data(cd)

C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0
0.0	9.48	9.35	9.24	9.15	9.09	9.00	8.94	8.85	8.75
30.0	9.36	9.26	9.15	9.05	8.96	8.86	8.76	8.67	8.60
60.0	9.14	9.07	8.95	8.86	8.79	8.71	8.62	8.50	8.40
90.0	8.98	8.91	8.83	8.68	8.68	8.53	8.53	8.38	8.37
120.0	9.14	9.07	8.95	8.86	8.79	8.71	8.62	8.50	8.40
150.0	9.36	9.26	9.15	9.05	8.96	8.86	8.76	8.67	8.60
180.0	9.48	9.35	9.24	9.15	9.09	9.00	8.94	8.85	8.75
210.0	9.36	9.26	9.15	9.05	8.96	8.86	8.76	8.67	8.60
240.0	9.14	9.07	8.95	8.86	8.79	8.71	8.62	8.50	8.40
270.0	8.98	8.91	8.83	8.68	8.68	8.53	8.53	8.38	8.37
300.0	9.14	9.07	8.95	8.86	8.79	8.71	8.62	8.50	8.40
330.0	9.36	9.26	9.15	9.05	8.96	8.86	8.76	8.67	8.60
360.0	9.48	9.35	9.24	9.15	9.09	9.00	8.94	8.85	8.75
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
0.0	8.64	8.57	8.49	8.37	8.26	8.15	8.06	7.94	7.88
30.0	8.52	8.43	8.31	8.20	8.11	8.03	7.95	7.83	7.73
60.0	8.28	8.21	8.12	8.05	7.93	7.84	7.74	7.68	7.55
90.0	8.22	8.15	8.00	8.00	7.92	7.70	7.69	7.55	7.54
120.0	8.28	8.21	8.12	8.05	7.93	7.84	7.74	7.68	7.55
150.0	8.52	8.43	8.31	8.20	8.11	8.03	7.95	7.83	7.73
180.0	8.64	8.57	8.49	8.37	8.26	8.15	8.06	7.94	7.88
210.0	8.52	8.43	8.31	8.20	8.11	8.03	7.95	7.83	7.73
240.0	8.28	8.21	8.12	8.05	7.93	7.84	7.74	7.68	7.55
270.0	8.22	8.15	8.00	8.00	7.92	7.70	7.69	7.55	7.54
300.0	8.28	8.21	8.12	8.05	7.93	7.84	7.74	7.68	7.55
330.0	8.52	8.43	8.31	8.20	8.11	8.03	7.95	7.83	7.73
360.0	8.64	8.57	8.49	8.37	8.26	8.15	8.06	7.94	7.88
C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0
0.0	7.77	7.66	7.54	7.44	7.36	7.24	7.15	7.04	6.98
30.0	7.65	7.56	7.44	7.34	7.26	7.16	7.06	6.96	6.85
60.0	7.41	7.34	7.22	7.16	7.07	7.00	6.88	6.78	6.65
90.0	7.39	7.32	7.17	7.02	7.01	6.80	6.79	6.64	6.64
120.0	7.41	7.34	7.22	7.16	7.07	7.00	6.88	6.78	6.65
150.0	7.65	7.56	7.44	7.34	7.26	7.16	7.06	6.96	6.85
180.0	7.77	7.66	7.54	7.44	7.36	7.24	7.15	7.04	6.98
210.0	7.65	7.56	7.44	7.34	7.26	7.16	7.06	6.96	6.85
240.0	7.41	7.34	7.22	7.16	7.07	7.00	6.88	6.78	6.65
270.0	7.39	7.32	7.17	7.02	7.01	6.80	6.79	6.64	6.64
300.0	7.41	7.34	7.22	7.16	7.07	7.00	6.88	6.78	6.65
330.0	7.65	7.56	7.44	7.34	7.26	7.16	7.06	6.96	6.85
360.0	7.77	7.66	7.54	7.44	7.36	7.24	7.15	7.04	6.98
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5
0.0	6.87	6.78	6.66	6.56	6.43	6.31	6.23	6.11	6.02
30.0	6.76	6.67	6.58	6.46	6.34	6.23	6.12	6.03	5.95
60.0	6.56	6.47	6.33	6.25	6.16	6.09	5.97	5.85	5.78
90.0	6.42	6.41	6.33	6.33	6.04	6.04	5.88	5.81	5.73
120.0	6.56	6.47	6.33	6.25	6.16	6.09	5.97	5.85	5.78
150.0	6.76	6.67	6.58	6.46	6.34	6.23	6.12	6.03	5.95
180.0	6.87	6.78	6.66	6.56	6.43	6.31	6.23	6.11	6.02
210.0	6.76	6.67	6.58	6.46	6.34	6.23	6.12	6.03	5.95
240.0	6.56	6.47	6.33	6.25	6.16	6.09	5.97	5.85	5.78
270.0	6.42	6.41	6.33	6.33	6.04	6.04	5.88	5.81	5.73
300.0	6.56	6.47	6.33	6.25	6.16	6.09	5.97	5.85	5.78
330.0	6.76	6.67	6.58	6.46	6.34	6.23	6.12	6.03	5.95
360.0	6.87	6.78	6.66	6.56	6.43	6.31	6.23	6.11	6.02

## Intensity data(cd)

C/γ(°)	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0
0.0	5.89	5.80	5.68	5.60	5.48	5.38	5.25	5.13	5.02
30.0	5.82	5.70	5.61	5.52	5.42	5.32	5.20	5.08	4.98
60.0	5.71	5.56	5.44	5.34	5.23	5.18	5.04	4.97	4.87
90.0	5.59	5.51	5.43	5.21	5.13	5.13	5.05	5.05	4.83
120.0	5.71	5.56	5.44	5.34	5.23	5.18	5.04	4.97	4.87
150.0	5.82	5.70	5.61	5.52	5.42	5.32	5.20	5.08	4.98
180.0	5.89	5.80	5.68	5.60	5.48	5.38	5.25	5.13	5.02
210.0	5.82	5.70	5.61	5.52	5.42	5.32	5.20	5.08	4.98
240.0	5.71	5.56	5.44	5.34	5.23	5.18	5.04	4.97	4.87
270.0	5.59	5.51	5.43	5.21	5.13	5.13	5.05	5.05	4.83
300.0	5.71	5.56	5.44	5.34	5.23	5.18	5.04	4.97	4.87
330.0	5.82	5.70	5.61	5.52	5.42	5.32	5.20	5.08	4.98
360.0	5.89	5.80	5.68	5.60	5.48	5.38	5.25	5.13	5.02
C/γ(°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5
0.0	4.93	4.87	4.75	4.67	4.53	4.42	4.30	4.20	4.09
30.0	4.89	4.79	4.67	4.56	4.47	4.37	4.27	4.16	4.04
60.0	4.77	4.63	4.55	4.45	4.35	4.25	4.13	4.06	3.97
90.0	4.68	4.60	4.53	4.45	4.30	4.23	4.07	4.07	3.92
120.0	4.77	4.63	4.55	4.45	4.35	4.25	4.13	4.06	3.97
150.0	4.89	4.79	4.67	4.56	4.47	4.37	4.27	4.16	4.04
180.0	4.93	4.87	4.75	4.67	4.53	4.42	4.30	4.20	4.09
210.0	4.89	4.79	4.67	4.56	4.47	4.37	4.27	4.16	4.04
240.0	4.77	4.63	4.55	4.45	4.35	4.25	4.13	4.06	3.97
270.0	4.68	4.60	4.53	4.45	4.30	4.23	4.07	4.07	3.92
300.0	4.77	4.63	4.55	4.45	4.35	4.25	4.13	4.06	3.97
330.0	4.89	4.79	4.67	4.56	4.47	4.37	4.27	4.16	4.04
360.0	4.93	4.87	4.75	4.67	4.53	4.42	4.30	4.20	4.09
C/γ(°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0
0.0	3.97	3.89	3.78	3.69	3.55	3.46	3.32	3.21	3.07
30.0	3.93	3.85	3.74	3.62	3.49	3.38	3.26	3.13	3.02
60.0	3.87	3.75	3.64	3.48	3.37	3.27	3.15	3.05	2.96
90.0	3.78	3.70	3.62	3.47	3.32	3.25	3.17	3.09	2.94
120.0	3.87	3.75	3.64	3.48	3.37	3.27	3.15	3.05	2.96
150.0	3.93	3.85	3.74	3.62	3.49	3.38	3.26	3.13	3.02
180.0	3.97	3.89	3.78	3.69	3.55	3.46	3.32	3.21	3.07
210.0	3.93	3.85	3.74	3.62	3.49	3.38	3.26	3.13	3.02
240.0	3.87	3.75	3.64	3.48	3.37	3.27	3.15	3.05	2.96
270.0	3.78	3.70	3.62	3.47	3.32	3.25	3.17	3.09	2.94
300.0	3.87	3.75	3.64	3.48	3.37	3.27	3.15	3.05	2.96
330.0	3.93	3.85	3.74	3.62	3.49	3.38	3.26	3.13	3.02
360.0	3.97	3.89	3.78	3.69	3.55	3.46	3.32	3.21	3.07
C/γ(°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5
0.0	2.94	2.84	2.75	2.69	2.59	2.53	2.42	2.31	2.16
30.0	2.94	2.86	2.79	2.71	2.60	2.47	2.36	2.27	2.17
60.0	2.89	2.77	2.71	2.61	2.52	2.39	2.27	2.16	2.08
90.0	2.94	2.79	2.71	2.64	2.56	2.48	2.26	2.18	2.11
120.0	2.89	2.77	2.71	2.61	2.52	2.39	2.27	2.16	2.08
150.0	2.94	2.86	2.79	2.71	2.60	2.47	2.36	2.27	2.17
180.0	2.94	2.84	2.75	2.69	2.59	2.53	2.42	2.31	2.16
210.0	2.94	2.86	2.79	2.71	2.60	2.47	2.36	2.27	2.17
240.0	2.89	2.77	2.71	2.61	2.52	2.39	2.27	2.16	2.08
270.0	2.94	2.79	2.71	2.64	2.56	2.48	2.26	2.18	2.11
300.0	2.89	2.77	2.71	2.61	2.52	2.39	2.27	2.16	2.08
330.0	2.94	2.86	2.79	2.71	2.60	2.47	2.36	2.27	2.17
360.0	2.94	2.84	2.75	2.69	2.59	2.53	2.42	2.31	2.16

## Intensity data(cd)

C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0
0.0	2.06	1.98	1.91	1.85	1.76	1.70	1.61	1.55	1.46
30.0	2.07	1.98	1.89	1.81	1.74	1.67	1.59	1.51	1.44
60.0	2.00	1.94	1.88	1.79	1.73	1.64	1.58	1.51	1.41
90.0	2.11	2.03	2.03	1.81	1.74	1.66	1.58	1.58	1.50
120.0	2.00	1.94	1.88	1.79	1.73	1.64	1.58	1.51	1.41
150.0	2.07	1.98	1.89	1.81	1.74	1.67	1.59	1.51	1.44
180.0	2.06	1.98	1.91	1.85	1.76	1.70	1.61	1.55	1.46
210.0	2.07	1.98	1.89	1.81	1.74	1.67	1.59	1.51	1.44
240.0	2.00	1.94	1.88	1.79	1.73	1.64	1.58	1.51	1.41
270.0	2.11	2.03	2.03	1.81	1.74	1.66	1.58	1.58	1.50
300.0	2.00	1.94	1.88	1.79	1.73	1.64	1.58	1.51	1.41
330.0	2.07	1.98	1.89	1.81	1.74	1.67	1.59	1.51	1.44
360.0	2.06	1.98	1.91	1.85	1.76	1.70	1.61	1.55	1.46
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5
0.0	1.38	1.28	1.21	1.13	1.06	1.00	0.96	0.93	0.86
30.0	1.38	1.30	1.22	1.14	1.09	1.05	0.97	0.90	0.85
60.0	1.35	1.26	1.20	1.11	1.06	1.02	0.98	0.91	0.85
90.0	1.43	1.28	1.28	1.20	1.12	1.05	0.98	0.97	0.90
120.0	1.35	1.26	1.20	1.11	1.06	1.02	0.98	0.91	0.85
150.0	1.38	1.30	1.22	1.14	1.09	1.05	0.97	0.90	0.85
180.0	1.38	1.28	1.21	1.13	1.06	1.00	0.96	0.93	0.86
210.0	1.38	1.30	1.22	1.14	1.09	1.05	0.97	0.90	0.85
240.0	1.35	1.26	1.20	1.11	1.06	1.02	0.98	0.91	0.85
270.0	1.43	1.28	1.28	1.20	1.12	1.05	0.98	0.97	0.90
300.0	1.35	1.26	1.20	1.11	1.06	1.02	0.98	0.91	0.85
330.0	1.38	1.30	1.22	1.14	1.09	1.05	0.97	0.90	0.85
360.0	1.38	1.28	1.21	1.13	1.06	1.00	0.96	0.93	0.86
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0
0.0	0.80	0.73	0.70	0.66	0.60	0.55	0.53	0.53	0.53
30.0	0.81	0.78	0.75	0.70	0.65	0.61	0.59	0.57	0.57
60.0	0.82	0.77	0.72	0.69	0.67	0.60	0.60	0.60	0.57
90.0	0.90	0.82	0.82	0.75	0.75	0.67	0.67	0.67	0.60
120.0	0.82	0.77	0.72	0.69	0.67	0.60	0.60	0.60	0.57
150.0	0.81	0.78	0.75	0.70	0.65	0.61	0.59	0.57	0.57
180.0	0.80	0.73	0.70	0.66	0.60	0.55	0.53	0.53	0.53
210.0	0.81	0.78	0.75	0.70	0.65	0.61	0.59	0.57	0.57
240.0	0.82	0.77	0.72	0.69	0.67	0.60	0.60	0.60	0.57
270.0	0.90	0.82	0.82	0.75	0.75	0.67	0.67	0.67	0.60
300.0	0.82	0.77	0.72	0.69	0.67	0.60	0.60	0.60	0.57
330.0	0.81	0.78	0.75	0.70	0.65	0.61	0.59	0.57	0.57
360.0	0.80	0.73	0.70	0.66	0.60	0.55	0.53	0.53	0.53
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
0.0	0.53	0.53	0.55	0.56	0.55	0.53	0.53	0.53	0.53
30.0	0.59	0.58	0.55	0.53	0.53	0.53	0.53	0.54	0.54
60.0	0.57	0.60	0.60	0.57	0.57	0.57	0.57	0.57	0.57
90.0	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.58	0.56
120.0	0.57	0.60	0.60	0.57	0.57	0.57	0.57	0.57	0.57
150.0	0.59	0.58	0.55	0.53	0.53	0.53	0.53	0.54	0.54
180.0	0.53	0.53	0.55	0.56	0.55	0.53	0.53	0.53	0.53
210.0	0.59	0.58	0.55	0.53	0.53	0.53	0.53	0.54	0.54
240.0	0.57	0.60	0.60	0.57	0.57	0.57	0.57	0.57	0.57
270.0	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.58	0.56
300.0	0.57	0.60	0.60	0.57	0.57	0.57	0.57	0.57	0.57
330.0	0.59	0.58	0.55	0.53	0.53	0.53	0.53	0.54	0.54
360.0	0.53	0.53	0.55	0.56	0.55	0.53	0.53	0.53	0.53

Intensity data(cd)

C/γ(°)	180.0
0.0	0.53
30.0	0.53
60.0	0.53
90.0	0.53
120.0	0.53
150.0	0.53
180.0	0.53
210.0	0.53
240.0	0.53
270.0	0.53
300.0	0.53
330.0	0.53
360.0	0.53