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LumCAT: SM23772	
Luminaire: SM23772	
Report No:	Voltage(V): 120.0000
Test No:	Current(A): 0.2650
LampCAT:	Power (W): 30.5600
Lamp flux(lm): -1.0	PF: 0.9619
Number of Lamps: 1	Ballast type:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

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#### Photometric Results

Lumens(lm): 1877.71  
Efficiency(%): 0.00%  
Lumens(lm)/Power(W): 61.44  
Central intensity(cd): 129.104  
Maximum intensity(cd): 192.291  
Angle of maximum intensity: C=45.0  $\gamma$ =90.0  
Beam Angle(50%Imax): [C0/180]Total=N.A.  
[C90/270]Total=N.A.  
Field angle(10%Imax): [C0/180]Total=N.A.  
[C90/270]Total=N.A.  
Maximum s/h(1/2): C0\_180=1.59 C90\_270=1.65  
Maximum s/h(1/4): C0\_180=1.79 C90\_270=1.82  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 0.00%  
Up flux rate of LUM(%): 45.48%  
Down flux rate of LUM(%): 54.52%  
CIE Type : General diffuse lighting  
Output flux ratio in  $\pi$  solid angle : 26.705%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	134.817	.000	.000	.000%	.000%	.000%
1.0	137.263	.130	.130	.000%	.000%	.007%
2.0	140.391	.399	.529	.000%	.000%	.028%
3.0	144.584	.682	1.210	.000%	.000%	.064%
4.0	147.030	.976	2.186	.000%	.000%	.116%
5.0	148.566	1.272	3.458	.000%	.000%	.184%
6.0	150.134	1.570	5.028	.000%	.000%	.268%
7.0	150.353	1.865	6.893	.000%	.000%	.367%
8.0	151.028	2.157	9.050	.000%	.000%	.482%
9.0	151.036	2.448	11.498	.000%	.000%	.612%
10.0	151.296	2.736	14.234	.000%	.000%	.758%
11.0	152.222	3.033	17.267	.000%	.000%	.920%
12.0	152.880	3.335	20.602	.000%	.000%	1.097%
13.0	153.197	3.632	24.234	.000%	.000%	1.291%
14.0	153.400	3.924	28.159	.000%	.000%	1.500%
15.0	153.628	4.215	32.374	.000%	.000%	1.724%
16.0	153.961	4.507	36.881	.000%	.000%	1.964%
17.0	154.327	4.801	41.682	.000%	.000%	2.220%
18.0	154.668	5.095	46.776	.000%	.000%	2.491%
19.0	155.066	5.389	52.165	.000%	.000%	2.778%
20.0	155.497	5.684	57.849	.000%	.000%	3.081%
21.0	156.017	5.982	63.831	.000%	.000%	3.399%
22.0	156.407	6.278	70.109	.000%	.000%	3.734%
23.0	156.821	6.572	76.682	.000%	.000%	4.084%
24.0	156.521	6.851	83.532	.000%	.000%	4.449%
25.0	157.017	7.129	90.661	.000%	.000%	4.828%
26.0	157.431	7.423	98.084	.000%	.000%	5.224%
27.0	157.829	7.713	105.797	.000%	.000%	5.634%
28.0	157.878	7.993	113.790	.000%	.000%	6.060%
29.0	157.293	8.246	122.036	.000%	.000%	6.499%
30.0	157.512	8.500	130.535	.000%	.000%	6.952%
31.0	157.715	8.772	139.308	.000%	.000%	7.419%
32.0	157.967	9.044	148.352	.000%	.000%	7.901%
33.0	158.463	9.322	157.674	.000%	.000%	8.397%
34.0	158.950	9.606	167.280	.000%	.000%	8.909%
35.0	158.772	9.867	177.147	.000%	.000%	9.434%
36.0	159.121	10.122	187.269	.000%	.000%	9.973%
37.0	159.438	10.390	197.658	.000%	.000%	10.527%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
38.0	159.755	10.654	208.313	.000%	.000%	11.094%
39.0	160.047	10.916	219.228	.000%	.000%	11.675%
40.0	160.226	11.170	230.398	.000%	.000%	12.270%
41.0	160.486	11.420	241.819	.000%	.000%	12.878%
42.0	160.202	11.651	253.470	.000%	.000%	13.499%
43.0	160.340	11.874	265.344	.000%	.000%	14.131%
44.0	160.543	12.111	277.455	.000%	.000%	14.776%
45.0	160.746	12.348	289.802	.000%	.000%	15.434%
46.0	160.901	12.579	302.381	.000%	.000%	16.104%
47.0	160.275	12.774	315.155	.000%	.000%	16.784%
48.0	160.291	12.959	328.114	.000%	.000%	17.474%
49.0	160.470	13.172	341.286	.000%	.000%	18.176%
50.0	161.445	13.422	354.708	.000%	.000%	18.891%
51.0	161.957	13.683	368.391	.000%	.000%	19.619%
52.0	162.201	13.910	382.301	.000%	.000%	20.360%
53.0	162.567	14.127	396.428	.000%	.000%	21.112%
54.0	163.152	14.356	410.784	.000%	.000%	21.877%
55.0	163.615	14.586	425.370	.000%	.000%	22.654%
56.0	164.330	14.819	440.189	.000%	.000%	23.443%
57.0	165.029	15.059	455.248	.000%	.000%	24.245%
58.0	165.053	15.264	470.513	.000%	.000%	25.058%
59.0	164.598	15.411	485.924	.000%	.000%	25.879%
60.0	163.769	15.513	501.437	.000%	.000%	26.705%
61.0	162.680	15.579	517.016	.000%	.000%	27.534%
62.0	161.535	15.623	532.638	.000%	.000%	28.366%
63.0	161.006	15.687	548.325	.000%	.000%	29.202%
64.0	161.453	15.823	564.148	.000%	.000%	30.045%
65.0	162.290	16.022	580.170	.000%	.000%	30.898%
66.0	163.330	16.246	596.416	.000%	.000%	31.763%
67.0	163.859	16.452	612.868	.000%	.000%	32.639%
68.0	164.054	16.611	629.479	.000%	.000%	33.524%
69.0	164.500	16.761	646.241	.000%	.000%	34.417%
70.0	165.094	16.927	663.168	.000%	.000%	35.318%
71.0	166.394	17.133	680.301	.000%	.000%	36.230%
72.0	166.914	17.331	697.632	.000%	.000%	37.153%
73.0	167.182	17.471	715.103	.000%	.000%	38.084%
74.0	167.296	17.584	732.687	.000%	.000%	39.020%
75.0	168.035	17.718	750.405	.000%	.000%	39.964%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
76.0	167.865	17.831	768.236	.000%	.000%	40.914%
77.0	167.735	17.893	786.128	.000%	.000%	41.866%
78.0	167.182	17.928	804.057	.000%	.000%	42.821%
79.0	167.036	17.957	822.014	.000%	.000%	43.778%
80.0	166.727	17.994	840.008	.000%	.000%	44.736%
81.0	167.239	18.060	858.068	.000%	.000%	45.698%
82.0	167.028	18.127	876.195	.000%	.000%	46.663%
83.0	167.109	18.164	894.359	.000%	.000%	47.630%
84.0	167.483	18.228	912.587	.000%	.000%	48.601%
85.0	168.133	18.317	930.904	.000%	.000%	49.577%
86.0	168.702	18.412	949.316	.000%	.000%	50.557%
87.0	169.303	18.498	967.814	.000%	.000%	51.542%
88.0	169.945	18.583	986.398	.000%	.000%	52.532%
89.0	170.375	18.654	1005.051	.000%	.000%	53.526%
90.0	170.709	18.701	1023.752	.000%	.000%	54.521%
91.0	170.701	18.719	1042.471	.000%	.000%	55.518%
92.0	170.156	18.683	1061.154	.000%	.000%	56.513%
93.0	169.530	18.607	1079.761	.000%	.000%	57.504%
94.0	168.758	18.514	1098.275	.000%	.000%	58.490%
95.0	167.881	18.401	1116.676	.000%	.000%	59.470%
96.0	167.361	18.297	1134.973	.000%	.000%	60.445%
97.0	163.615	18.031	1153.004	.000%	.000%	61.405%
98.0	158.975	17.536	1170.540	.000%	.000%	62.339%
99.0	154.172	16.981	1187.522	.000%	.000%	63.243%
100.0	149.638	16.430	1203.951	.000%	.000%	64.118%
101.0	145.933	15.935	1219.886	.000%	.000%	64.967%
102.0	144.600	15.610	1235.497	.000%	.000%	65.798%
103.0	145.421	15.525	1251.022	.000%	.000%	66.625%
104.0	146.250	15.551	1266.572	.000%	.000%	67.453%
105.0	146.225	15.526	1282.098	.000%	.000%	68.280%
106.0	145.210	15.398	1297.496	.000%	.000%	69.100%
107.0	143.048	15.154	1312.651	.000%	.000%	69.907%
108.0	141.512	14.880	1327.531	.000%	.000%	70.700%
109.0	140.098	14.643	1342.174	.000%	.000%	71.480%
110.0	139.253	14.438	1356.613	.000%	.000%	72.248%
111.0	137.880	14.233	1370.846	.000%	.000%	73.006%
112.0	137.059	14.026	1384.872	.000%	.000%	73.753%
113.0	135.532	13.809	1398.680	.000%	.000%	74.489%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
114.0	135.125	13.609	1412.290	.000%	.000%	75.214%
115.0	134.158	13.436	1425.725	.000%	.000%	75.929%
116.0	132.582	13.201	1438.926	.000%	.000%	76.632%
117.0	130.900	12.929	1451.855	.000%	.000%	77.321%
118.0	129.096	12.645	1464.500	.000%	.000%	77.994%
119.0	128.990	12.436	1476.936	.000%	.000%	78.656%
120.0	128.966	12.310	1489.246	.000%	.000%	79.312%
121.0	128.860	12.181	1501.427	.000%	.000%	79.961%
122.0	128.275	12.021	1513.448	.000%	.000%	80.601%
123.0	127.918	11.847	1525.295	.000%	.000%	81.232%
124.0	128.795	11.738	1537.033	.000%	.000%	81.857%
125.0	129.510	11.672	1548.705	.000%	.000%	82.479%
126.0	131.022	11.630	1560.335	.000%	.000%	83.098%
127.0	130.884	11.544	1571.879	.000%	.000%	83.713%
128.0	130.672	11.378	1583.256	.000%	.000%	84.319%
129.0	131.046	11.231	1594.487	.000%	.000%	84.917%
130.0	130.973	11.086	1605.573	.000%	.000%	85.507%
131.0	130.672	10.909	1616.481	.000%	.000%	86.088%
132.0	131.184	10.753	1627.235	.000%	.000%	86.661%
133.0	130.542	10.580	1637.815	.000%	.000%	87.224%
134.0	130.160	10.369	1648.184	.000%	.000%	87.777%
135.0	128.868	10.130	1658.314	.000%	.000%	88.316%
136.0	129.104	9.914	1668.228	.000%	.000%	88.844%
137.0	128.617	9.727	1677.955	.000%	.000%	89.362%
138.0	126.967	9.468	1687.423	.000%	.000%	89.866%
139.0	124.464	9.135	1696.557	.000%	.000%	90.353%
140.0	121.823	8.770	1705.328	.000%	.000%	90.820%
141.0	121.580	8.489	1713.817	.000%	.000%	91.272%
142.0	121.807	8.307	1722.124	.000%	.000%	91.714%
143.0	122.360	8.150	1730.274	.000%	.000%	92.148%
144.0	122.790	7.995	1738.269	.000%	.000%	92.574%
145.0	121.604	7.782	1746.051	.000%	.000%	92.989%
146.0	119.743	7.495	1753.546	.000%	.000%	93.388%
147.0	117.460	7.178	1760.725	.000%	.000%	93.770%
148.0	115.071	6.850	1767.575	.000%	.000%	94.135%
149.0	112.982	6.533	1774.109	.000%	.000%	94.483%
150.0	112.739	6.281	1780.390	.000%	.000%	94.817%
151.0	113.632	6.112	1786.502	.000%	.000%	95.143%

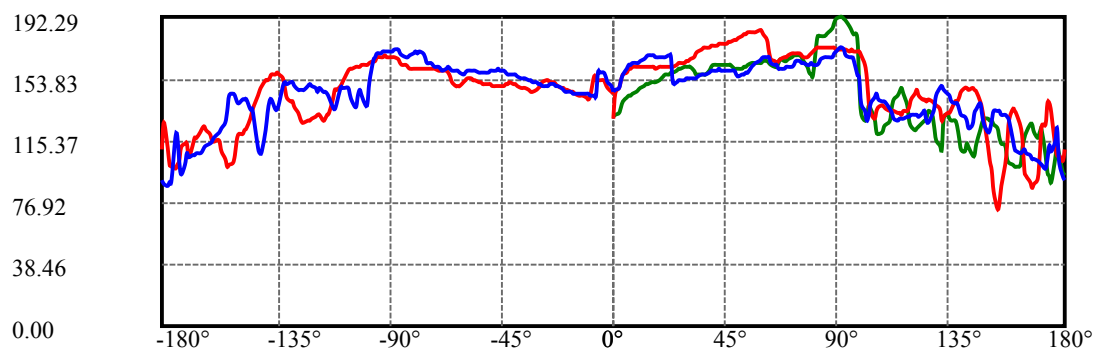
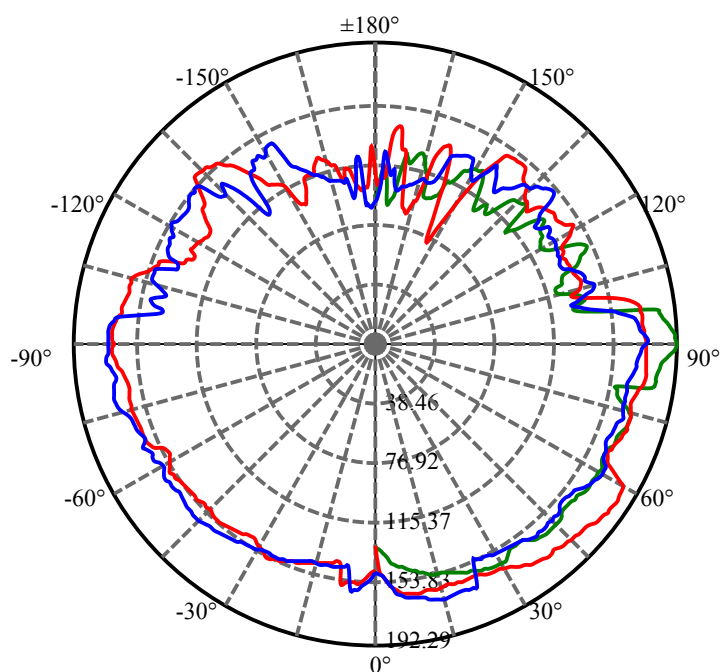
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
152.0	113.681	5.947	1792.449	.000%	.000%	95.460%
153.0	114.551	5.778	1798.228	.000%	.000%	95.767%
154.0	116.241	5.646	1803.874	.000%	.000%	96.068%
155.0	118.532	5.542	1809.416	.000%	.000%	96.363%
156.0	120.986	5.446	1814.862	.000%	.000%	96.653%
157.0	122.319	5.320	1820.182	.000%	.000%	96.937%
158.0	123.253	5.153	1825.334	.000%	.000%	97.211%
159.0	122.132	4.931	1830.266	.000%	.000%	97.474%
160.0	120.027	4.650	1834.916	.000%	.000%	97.721%
161.0	118.085	4.358	1839.274	.000%	.000%	97.953%
162.0	116.330	4.078	1843.352	.000%	.000%	98.171%
163.0	114.924	3.813	1847.165	.000%	.000%	98.374%
164.0	112.885	3.548	1850.713	.000%	.000%	98.562%
165.0	111.893	3.294	1854.006	.000%	.000%	98.738%
166.0	110.398	3.052	1857.058	.000%	.000%	98.900%
167.0	108.667	2.804	1859.862	.000%	.000%	99.050%
168.0	107.684	2.568	1862.429	.000%	.000%	99.186%
169.0	107.749	2.355	1864.784	.000%	.000%	99.312%
170.0	111.252	2.188	1866.973	.000%	.000%	99.428%
171.0	114.746	2.045	1869.018	.000%	.000%	99.537%
172.0	114.274	1.856	1870.874	.000%	.000%	99.636%
173.0	114.339	1.636	1872.510	.000%	.000%	99.723%
174.0	115.087	1.424	1873.934	.000%	.000%	99.799%
175.0	113.316	1.200	1875.134	.000%	.000%	99.863%
176.0	109.431	.958	1876.093	.000%	.000%	99.914%
177.0	106.425	.723	1876.815	.000%	.000%	99.953%
178.0	103.191	.501	1877.317	.000%	.000%	99.979%
179.0	99.144	.290	1877.607	.000%	.000%	99.995%
180.0	98.762	.095	1877.702	.000%	.000%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	130.54	N.A.	6.95%
0-40	230.40	N.A.	12.27%
0-60	501.44	N.A.	26.70%
0-90	1023.75	N.A.	54.52%
0-120	1489.25	N.A.	79.31%
0-180	1877.70	N.A.	100.00%
60-90	537.83	N.A.	28.64%
90-120	484.20	N.A.	25.79%
90-130	600.52	N.A.	31.98%
90-150	775.34	N.A.	41.29%
90-180	872.56	N.A.	46.47%
0-121.06	1502.16	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	14.23
10-20	43.62
20-30	72.69
30-40	99.86
40-50	124.31
50-60	146.73
60-70	161.73
70-80	176.84
80-90	183.74
90-100	180.20
100-110	152.66
110-120	132.63
120-130	116.33
130-140	99.76
140-150	75.06
150-160	54.53
160-170	32.06
170-180	10.63



C45(Max): —————

C0/C180: —————

C90/C270: —————

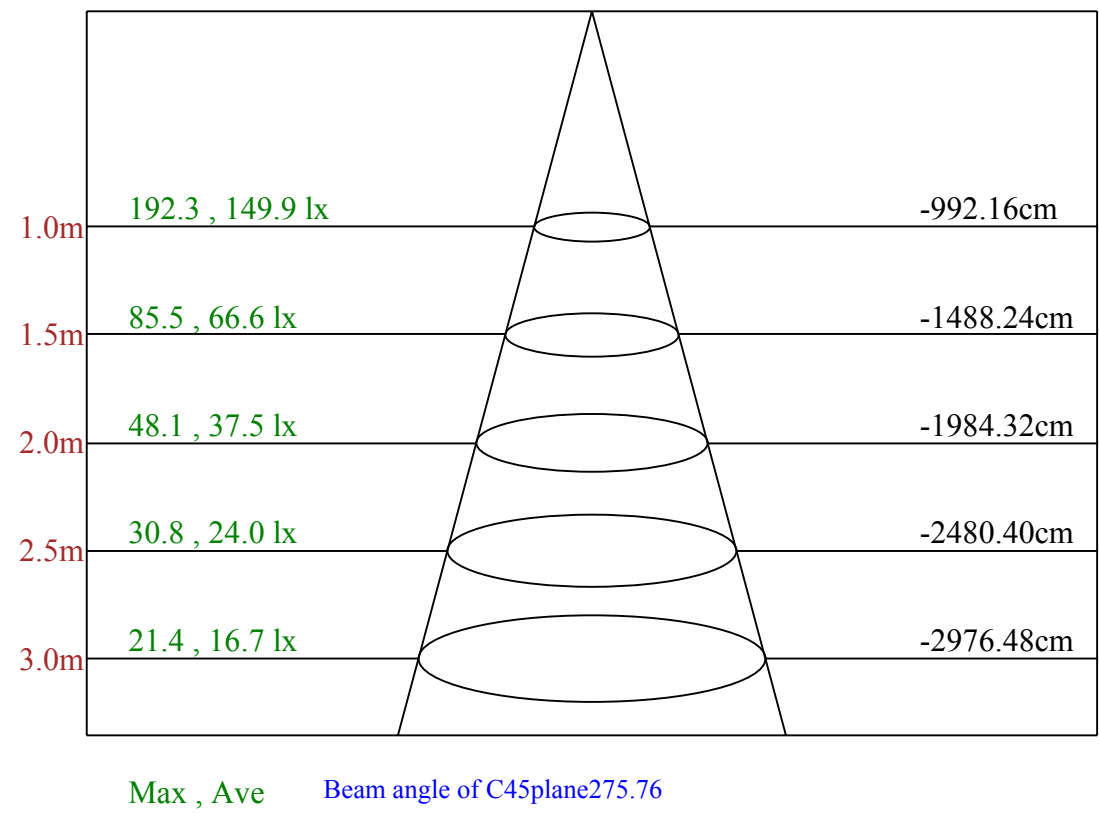
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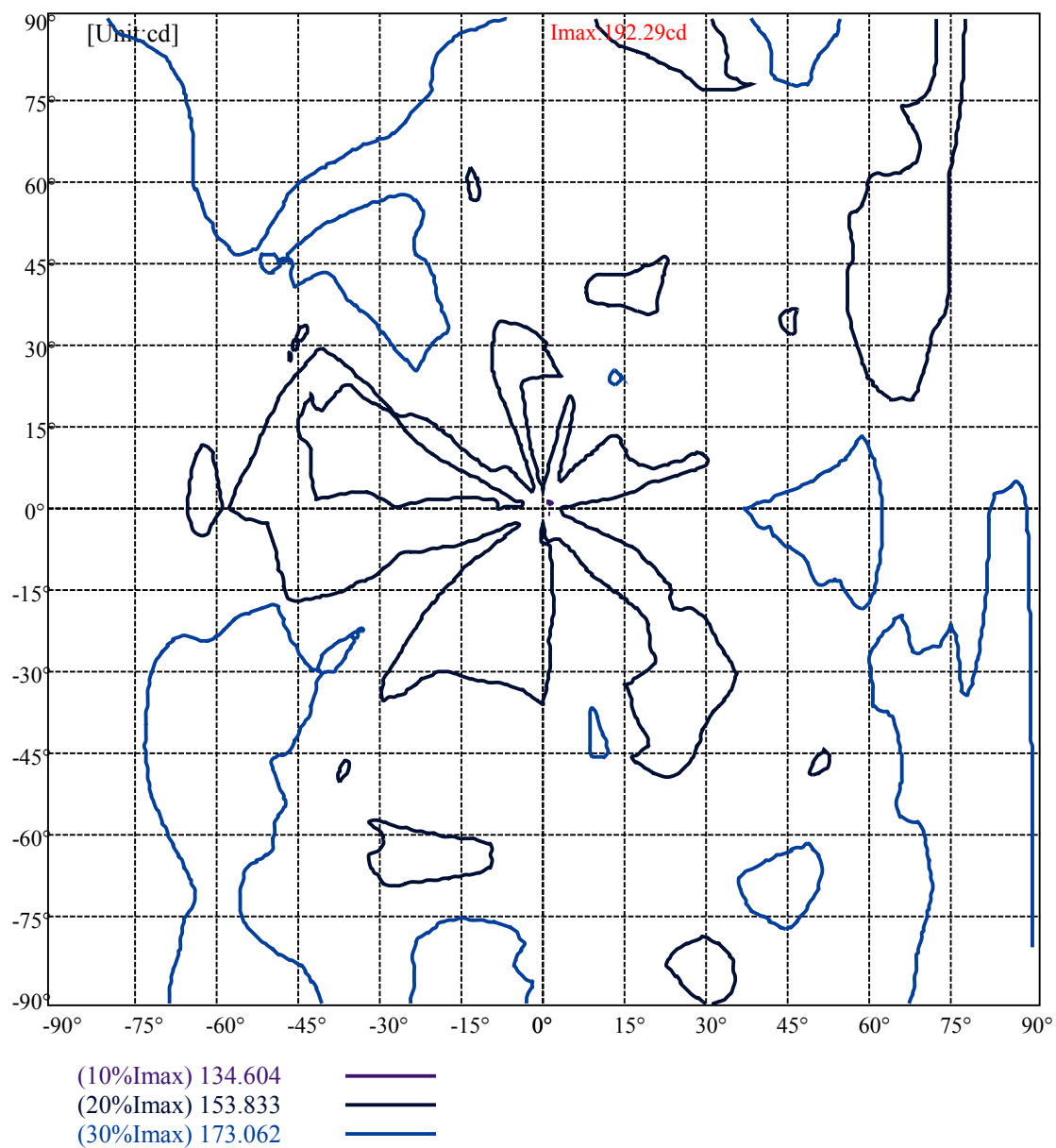
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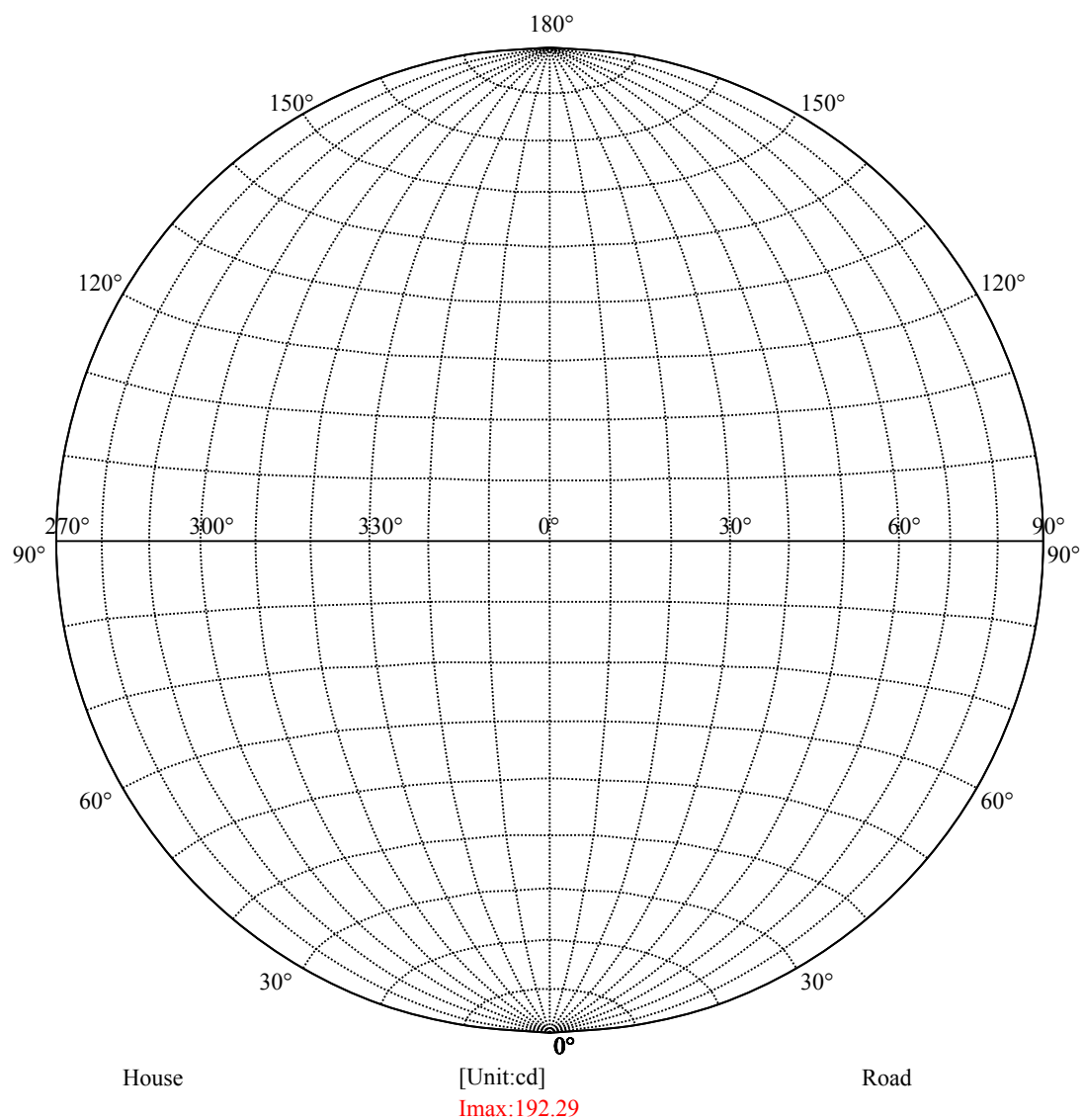
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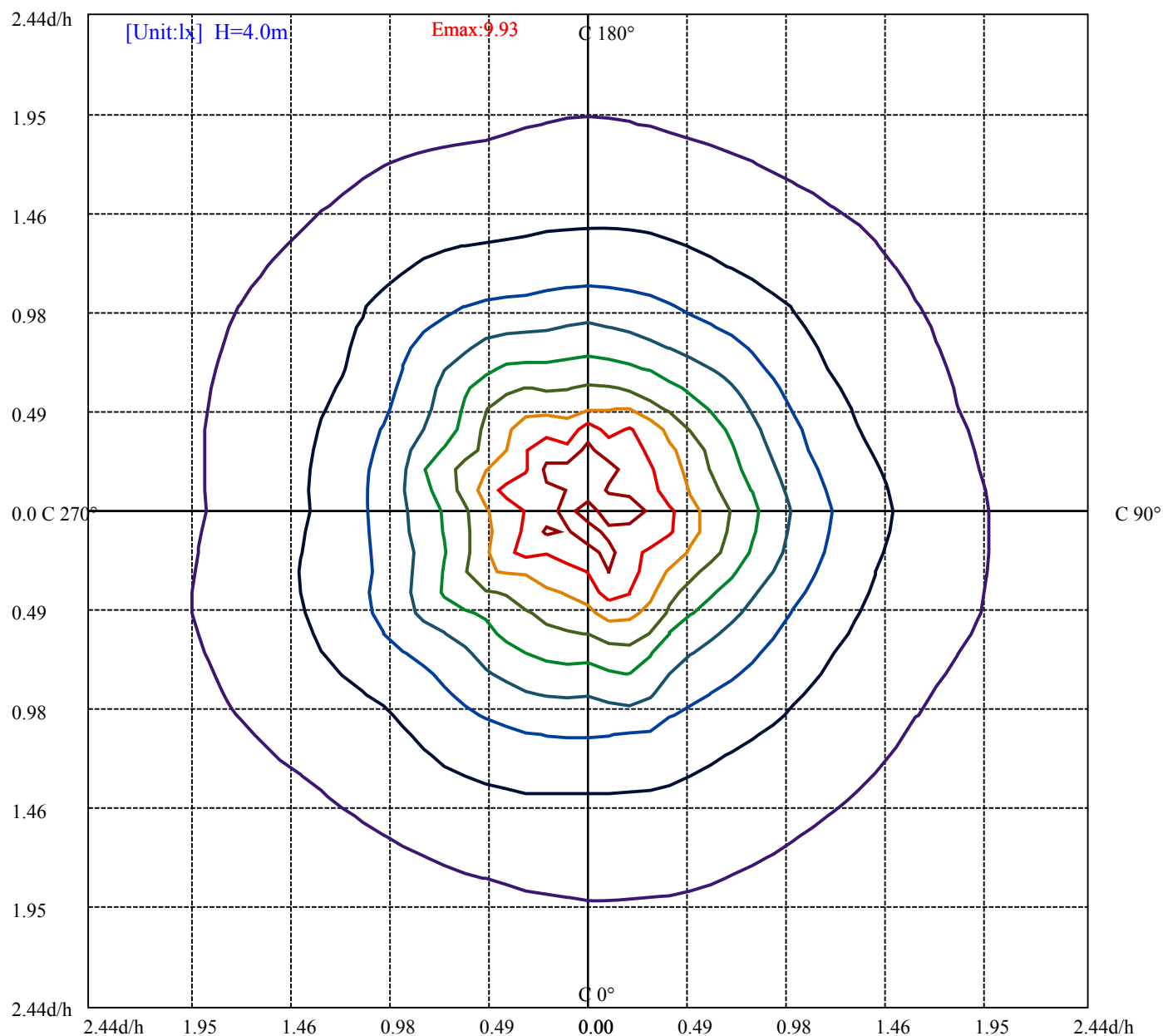
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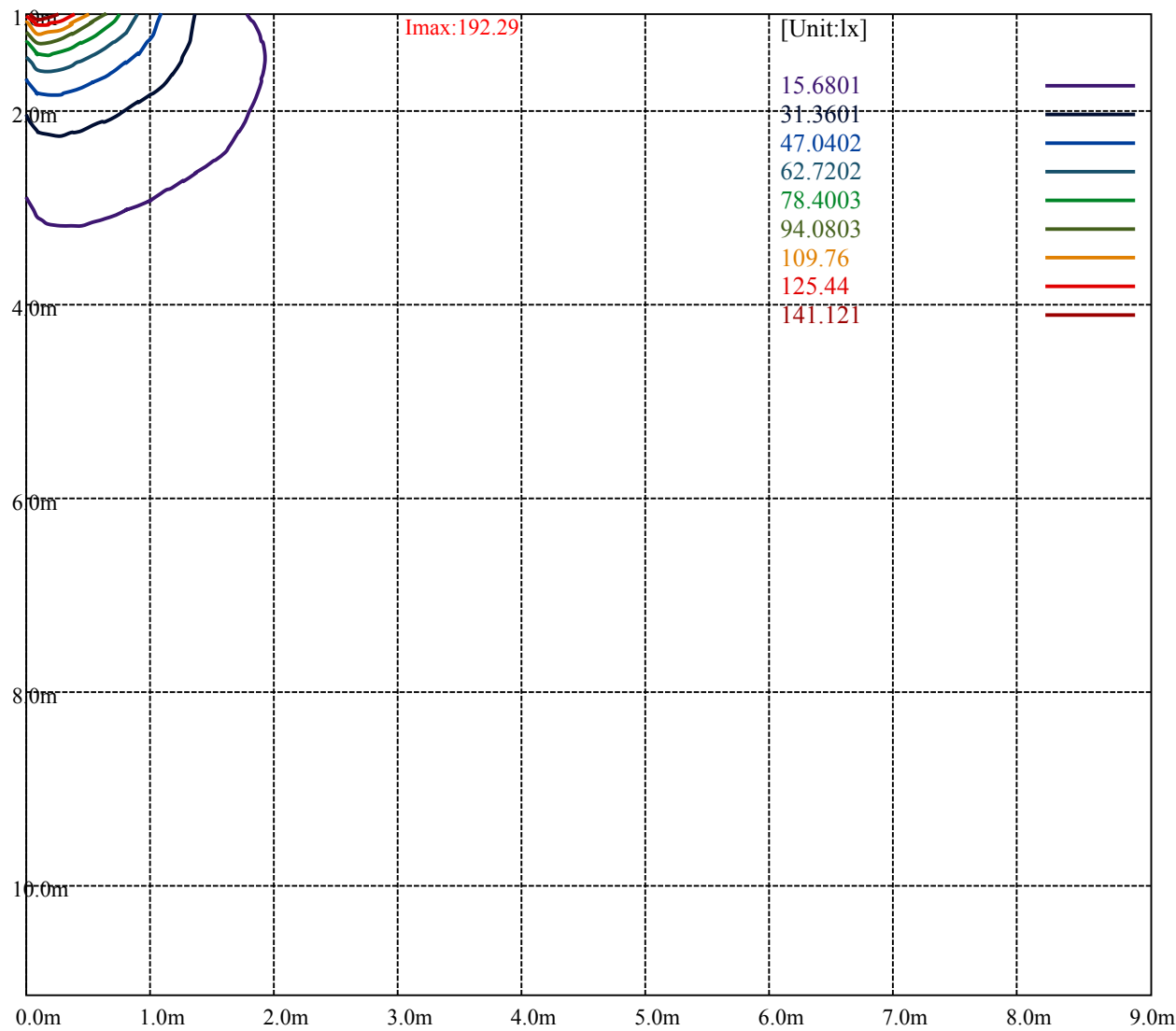








(10%Emax) 0.9928312	—
(20%Emax) 1.985669	—
(30%Emax) 2.9785	—
(40%Emax) 3.971331	—
(50%Emax) 4.964169	—
(60%Emax) 5.957	—
(70%Emax) 6.949812	—
(80%Emax) 7.942688	—
(90%Emax) 8.9355	—



## Intensity data(cd)

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C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	129.10	144.51	148.22	153.09	156.21	157.77	159.72	160.50	160.89
15.0	129.69	130.86	134.56	138.27	141.59	144.71	145.88	146.46	146.85
30.0	131.64	133.00	134.76	137.69	143.54	146.07	146.85	147.63	147.63
45.0	130.27	131.44	133.00	135.93	140.03	141.98	143.34	143.73	144.32
60.0	128.91	129.10	141.98	147.83	152.12	154.26	156.60	159.33	160.11
75.0	128.91	129.10	129.30	133.00	136.71	139.44	141.78	143.34	144.71
90.0	145.49	146.46	148.41	152.70	156.02	159.72	161.87	162.65	163.04
105.0	131.25	132.03	134.56	138.47	141.20	145.68	147.24	147.83	148.41
120.0	145.49	148.80	153.68	157.38	159.92	163.43	163.82	164.01	164.01
135.0	130.86	132.03	134.76	139.64	142.37	144.51	145.68	146.27	147.44
150.0	132.22	135.73	139.64	141.78	143.15	143.93	145.10	145.88	146.27
165.0	146.46	147.63	150.95	153.87	156.02	156.21	156.60	157.38	158.75
180.0	144.12	145.29	148.41	150.95	152.90	152.51	152.90	153.09	154.85
195.0	129.69	130.86	135.15	137.29	137.88	137.88	137.88	138.27	139.44
210.0	131.64	134.76	137.88	156.99	158.16	158.55	159.14	159.92	159.92
225.0	130.27	134.76	136.51	140.42	142.76	143.73	144.71	145.29	145.29
240.0	128.91	132.81	134.76	139.44	142.56	143.54	144.32	143.73	143.34
255.0	128.91	132.61	134.56	139.64	142.17	142.76	143.54	144.12	144.32
270.0	145.49	149.39	151.53	155.04	157.38	157.77	157.19	142.95	143.34
285.0	131.25	134.17	136.90	139.44	140.22	141.39	155.43	158.36	159.92
300.0	145.49	147.44	150.56	152.70	152.90	152.90	153.68	155.04	156.80
315.0	130.86	132.81	135.34	137.10	137.69	138.27	138.47	139.64	140.81
330.0	132.22	131.05	132.03	135.93	138.66	139.64	141.00	141.98	142.76
345.0	146.46	147.63	151.92	155.43	156.60	158.94	160.50	161.09	161.48
360.0	129.10	144.51	148.22	153.09	156.21	157.77	159.72	160.50	160.89
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	161.28	161.09	161.09	160.89	161.09	161.09	160.70	160.70	160.50
15.0	147.05	147.24	147.83	148.02	148.22	149.00	149.58	149.97	151.14
30.0	147.83	148.02	148.41	149.19	149.78	150.36	151.34	152.51	153.09
45.0	146.27	147.05	148.02	149.58	150.75	150.95	151.73	151.92	151.92
60.0	160.89	161.67	162.26	163.23	164.79	164.99	165.77	166.94	167.72
75.0	146.07	146.66	147.63	148.61	149.00	149.19	149.58	149.78	150.17
90.0	163.82	164.21	165.18	166.16	167.13	168.11	168.11	167.91	167.72
105.0	149.19	149.78	149.78	149.78	149.78	149.39	149.00	148.61	148.41
120.0	164.40	164.21	164.21	164.01	163.62	163.23	163.04	162.84	162.45
135.0	148.02	148.41	159.72	165.18	165.18	164.99	164.79	164.40	163.82
150.0	147.05	147.44	147.24	147.83	148.22	147.44	147.24	147.24	147.44
165.0	159.53	160.11	161.09	162.06	162.84	163.82	164.21	164.99	165.96
180.0	142.76	141.00	142.56	142.95	143.34	143.73	144.32	145.29	145.88
195.0	140.03	140.42	141.00	142.17	142.76	143.34	144.32	144.90	145.68
210.0	159.72	159.92	160.70	160.89	160.89	160.89	160.70	160.70	161.28
225.0	145.10	145.10	144.90	144.71	144.71	144.51	144.12	144.12	143.93
240.0	142.95	143.15	143.34	143.34	142.76	142.95	142.56	142.76	142.76
255.0	143.93	143.54	143.15	142.56	142.37	142.56	142.56	142.56	142.56
270.0	143.73	144.12	144.32	144.51	144.71	144.71	144.90	144.51	145.29
285.0	160.50	161.09	161.87	162.65	162.84	163.62	164.21	165.18	165.77
300.0	157.97	158.75	159.14	159.33	159.72	160.11	160.70	161.67	162.84
315.0	141.59	142.37	143.54	143.93	144.90	145.49	146.27	147.83	149.00
330.0	142.95	143.54	143.93	144.71	145.10	145.68	146.07	146.46	147.05
345.0	162.26	162.26	162.45	162.84	162.26	161.48	161.28	161.28	161.48
360.0	161.28	161.09	161.09	160.89	161.09	161.09	160.70	160.70	160.50

## Intensity data(cd)

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C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	160.70	160.89	161.48	161.48	161.48	161.28	161.28	162.06	163.04
15.0	151.92	152.51	152.70	152.70	152.51	152.51	152.51	152.51	152.51
30.0	153.87	154.65	155.24	156.60	157.38	157.77	158.36	158.36	159.14
45.0	152.90	154.07	154.85	156.02	156.99	157.58	157.97	159.14	159.72
60.0	168.69	169.47	169.86	171.03	171.62	172.01	172.59	173.57	174.54
75.0	150.75	151.34	151.73	152.90	153.87	154.65	155.24	156.41	157.38
90.0	167.13	167.13	167.13	167.72	168.11	167.13	152.12	151.92	152.31
105.0	148.41	148.02	148.22	147.83	147.24	147.05	147.05	147.05	147.05
120.0	162.26	162.65	162.84	163.04	163.62	164.40	164.21	164.21	163.82
135.0	163.62	163.04	162.45	162.65	162.26	162.45	162.45	162.45	162.26
150.0	147.24	147.24	147.05	146.85	147.24	147.63	147.83	148.02	148.41
165.0	166.55	166.55	166.94	167.13	167.72	169.08	170.06	171.23	172.01
180.0	146.66	147.44	148.22	148.61	149.58	150.75	151.14	151.92	152.70
195.0	147.24	148.02	148.80	149.78	149.39	149.97	150.56	151.14	151.92
210.0	161.87	163.23	163.82	164.40	164.60	164.99	166.35	167.13	167.91
225.0	143.54	143.73	143.73	143.73	143.93	144.12	144.12	144.12	144.51
240.0	142.95	142.95	143.15	143.54	143.73	143.54	143.54	143.93	143.73
255.0	142.17	141.20	141.00	141.20	141.39	141.98	142.37	143.93	145.10
270.0	145.68	146.27	147.05	148.22	148.80	149.39	149.97	149.97	149.58
285.0	165.96	166.55	167.33	168.30	169.67	170.64	170.84	171.23	172.01
300.0	163.23	164.60	165.57	165.77	166.35	166.94	166.74	167.72	168.11
315.0	149.78	150.17	150.75	151.34	151.92	152.70	152.90	153.29	153.29
330.0	147.63	148.22	149.97	150.56	151.14	151.53	152.31	153.09	153.29
345.0	161.28	161.67	162.06	163.04	163.23	163.62	164.01	164.01	164.01
360.0	160.70	160.89	161.48	161.48	161.48	161.28	161.28	162.06	163.04
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	163.62	163.82	164.40	164.79	165.57	167.52	169.47	170.45	172.40
15.0	152.51	152.31	152.31	152.51	153.29	156.02	157.38	157.19	157.77
30.0	159.72	159.53	158.75	158.55	158.75	158.94	159.14	160.89	162.26
45.0	160.50	160.70	161.09	161.28	160.89	158.94	156.80	156.21	156.41
60.0	175.52	174.74	159.53	155.04	154.26	153.87	154.07	154.85	154.65
75.0	158.16	158.75	158.16	157.38	156.60	155.82	155.43	155.24	155.24
90.0	152.31	152.90	153.68	153.48	154.07	154.26	154.65	155.43	156.02
105.0	148.02	148.22	148.61	149.39	149.97	151.73	152.31	152.90	154.07
120.0	164.21	164.21	165.77	167.52	169.08	170.64	171.23	171.42	172.01
135.0	162.45	163.23	164.21	167.33	168.69	170.64	172.79	173.57	173.76
150.0	149.19	150.17	150.75	151.92	153.48	153.48	153.09	152.70	152.70
165.0	171.81	172.01	171.62	171.42	171.62	170.84	170.25	169.86	170.25
180.0	152.70	151.14	149.39	148.61	146.46	145.88	146.07	146.85	147.63
195.0	152.31	151.73	149.78	148.41	147.44	146.07	145.68	145.88	146.27
210.0	168.69	168.69	169.28	170.45	171.03	170.84	171.03	170.64	171.23
225.0	144.71	144.90	145.29	146.66	147.63	148.02	148.41	148.80	149.19
240.0	144.12	144.51	144.71	145.29	146.85	148.41	151.34	155.43	156.21
255.0	145.88	146.66	147.24	149.00	151.14	152.51	155.24	156.21	156.60
270.0	149.39	149.78	150.36	150.95	151.53	152.12	152.51	152.90	153.48
285.0	172.01	171.42	170.84	170.84	170.45	170.45	170.84	171.62	172.20
300.0	168.50	167.91	166.35	165.96	164.40	163.62	163.82	163.82	148.41
315.0	153.48	152.70	151.73	150.56	148.61	147.83	147.83	148.22	148.02
330.0	153.68	154.07	154.85	155.63	155.43	154.46	154.46	154.26	154.26
345.0	164.40	164.99	166.35	167.33	167.91	168.30	169.28	169.47	169.47
360.0	163.62	163.82	164.40	164.79	165.57	167.52	169.47	170.45	172.40

## Intensity data(cd)

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C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	172.98	173.18	173.57	174.35	174.54	174.35	175.32	175.52	175.91
15.0	157.77	158.55	159.33	160.31	160.89	161.48	161.67	161.67	161.67
30.0	162.84	162.84	162.84	162.84	162.65	162.45	161.87	161.48	161.48
45.0	156.41	156.99	158.55	161.09	161.87	162.06	162.65	162.84	162.84
60.0	155.24	156.02	155.82	154.65	152.12	151.92	152.51	153.09	152.90
75.0	155.04	155.04	154.26	152.70	152.90	152.51	152.90	153.48	154.26
90.0	156.60	156.60	157.97	158.94	159.14	159.33	159.53	158.94	158.55
105.0	154.46	154.65	154.65	155.04	154.65	155.24	155.63	155.63	155.82
120.0	172.98	173.96	174.35	174.35	173.96	174.15	173.96	174.15	174.93
135.0	173.96	174.35	174.93	174.93	175.13	175.32	175.32	175.52	175.52
150.0	152.12	151.53	151.34	151.53	151.92	151.92	151.34	151.73	152.12
165.0	171.03	171.62	171.42	171.62	172.79	173.18	158.55	154.85	154.65
180.0	148.22	148.61	149.58	150.17	150.56	151.34	150.95	150.36	149.39
195.0	146.85	146.46	145.68	146.07	146.46	147.24	148.02	148.41	149.19
210.0	171.81	172.40	173.57	173.76	173.96	174.35	174.93	175.91	176.10
225.0	149.78	150.17	150.36	150.36	150.75	150.56	151.53	152.70	153.29
240.0	156.80	157.97	158.36	159.14	159.92	160.50	161.48	161.87	161.67
255.0	156.80	157.58	158.16	158.75	160.11	160.89	162.45	163.23	163.62
270.0	154.07	154.65	155.24	156.02	156.60	156.80	156.99	157.58	158.36
285.0	172.59	173.18	174.54	174.93	174.93	175.52	175.91	176.30	176.30
300.0	148.61	148.80	148.22	147.05	146.27	146.46	147.05	147.63	148.22
315.0	147.63	146.46	146.85	147.44	148.41	149.39	149.78	150.36	151.14
330.0	154.46	155.04	155.43	155.82	155.63	155.63	155.43	155.43	155.24
345.0	169.86	169.86	169.08	169.28	169.28	169.08	169.08	169.47	169.86
360.0	172.98	173.18	173.57	174.35	174.54	174.35	175.32	175.52	175.91
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	176.10	176.49	177.08	177.47	178.05	179.61	180.59	181.17	181.95
15.0	162.06	161.67	161.67	161.48	160.50	159.53	158.94	158.16	157.97
30.0	160.70	160.11	159.14	158.16	157.77	156.80	156.99	154.26	152.90
45.0	162.84	162.65	162.06	160.50	159.72	159.92	160.50	161.09	161.48
60.0	152.90	153.29	153.29	153.48	153.48	153.87	154.26	154.85	155.43
75.0	154.85	154.85	155.04	156.02	157.38	158.16	158.36	159.33	159.72
90.0	158.94	159.14	159.14	158.55	156.41	155.82	156.41	156.99	157.38
105.0	155.43	154.85	155.04	155.04	155.04	155.04	155.43	155.82	156.41
120.0	174.93	175.32	175.13	174.74	174.15	172.79	172.59	172.98	173.57
135.0	175.91	176.49	177.47	178.64	179.03	180.00	180.78	181.37	180.98
150.0	152.31	152.90	153.48	153.68	154.26	154.65	154.85	152.90	153.87
165.0	154.46	154.65	153.09	152.51	152.90	153.29	153.68	154.46	156.21
180.0	149.78	149.58	149.78	149.78	150.36	150.36	150.56	150.95	151.34
195.0	150.17	150.56	151.34	152.70	155.43	172.79	173.76	173.96	174.54
210.0	176.49	176.49	176.10	173.96	173.57	174.35	175.32	176.49	176.88
225.0	153.68	154.46	154.46	155.63	155.82	156.41	156.99	157.38	157.77
240.0	162.06	162.84	163.43	164.21	165.18	165.96	167.52	168.11	168.50
255.0	163.43	163.04	163.04	163.23	163.23	163.43	164.79	165.77	165.96
270.0	159.14	159.53	159.33	158.94	158.55	158.16	157.97	157.58	157.19
285.0	176.49	175.52	157.38	157.38	158.55	159.33	160.50	161.09	162.26
300.0	149.19	149.58	149.78	150.36	150.17	150.95	151.53	152.70	153.87
315.0	151.34	152.31	154.26	155.24	156.02	156.60	156.99	157.38	157.77
330.0	155.24	155.82	156.60	156.02	156.02	156.60	157.19	157.58	158.75
345.0	169.47	169.47	169.47	169.28	169.67	170.25	170.45	170.45	168.89
360.0	176.10	176.49	177.08	177.47	178.05	179.61	180.59	181.17	181.95



## Intensity data(cd)

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C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	182.73	182.73	183.12	183.32	183.71	183.52	181.95	178.44	170.64
15.0	158.36	159.33	159.92	162.26	163.43	164.01	161.67	157.19	151.53
30.0	152.90	153.48	153.68	154.65	155.82	156.02	157.58	157.58	157.58
45.0	162.65	163.62	164.01	163.82	163.82	164.01	164.60	164.99	164.01
60.0	156.80	157.38	158.16	159.53	160.50	160.89	158.55	157.38	155.63
75.0	159.92	160.50	160.50	160.50	159.92	159.53	159.14	157.19	155.63
90.0	157.77	160.89	162.84	163.82	164.99	165.77	166.74	167.33	166.94
105.0	156.80	156.80	155.24	152.90	152.51	152.31	152.70	152.70	153.29
120.0	174.74	176.88	178.64	179.42	179.22	177.66	175.52	171.81	169.67
135.0	181.17	180.98	181.37	180.78	180.20	178.64	176.10	173.96	171.23
150.0	154.85	155.04	163.04	171.42	171.23	171.42	171.42	172.98	173.37
165.0	157.38	157.58	157.77	157.77	158.16	158.75	158.94	159.92	160.89
180.0	151.73	152.51	153.29	153.87	154.07	152.90	151.34	149.39	149.00
195.0	174.74	174.93	175.13	175.71	175.91	175.91	176.10	176.30	176.49
210.0	178.64	179.61	179.42	179.61	179.81	180.00	179.61	178.05	175.71
225.0	156.80	153.29	152.70	152.51	153.29	153.68	154.46	155.24	155.63
240.0	169.86	170.06	169.86	169.86	168.30	165.96	159.53	154.65	151.92
255.0	166.35	167.33	167.52	167.33	164.21	158.94	156.41	152.90	151.53
270.0	157.58	158.36	158.75	159.33	158.75	157.58	156.21	157.38	159.14
285.0	163.23	162.65	163.23	163.62	164.40	165.18	165.77	165.77	164.21
300.0	155.63	156.80	157.77	159.72	158.75	158.36	157.38	156.99	157.97
315.0	158.36	158.75	159.14	159.33	159.92	158.75	158.36	157.58	156.41
330.0	159.14	159.92	160.50	160.89	161.09	160.89	160.70	158.75	156.60
345.0	167.52	167.33	168.30	168.69	169.28	169.67	169.67	169.86	171.81
360.0	182.73	182.73	183.12	183.32	183.71	183.52	181.95	178.44	170.64
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	166.35	165.18	163.62	164.40	165.57	166.74	167.52	168.11	169.08
15.0	149.97	149.19	148.22	147.44	145.68	143.34	142.17	142.95	143.93
30.0	157.38	156.99	156.60	156.60	157.77	157.58	156.02	154.46	155.43
45.0	162.45	161.67	161.67	163.62	165.57	165.18	165.18	166.35	167.72
60.0	154.85	154.46	155.43	158.16	161.28	162.26	162.84	162.84	162.65
75.0	155.04	159.53	161.28	164.99	165.38	165.96	166.74	167.33	167.52
90.0	163.23	162.45	161.87	160.31	159.72	160.11	161.28	161.28	161.67
105.0	153.68	153.87	156.02	159.33	162.06	162.45	162.45	162.65	162.26
120.0	170.45	170.84	170.45	169.47	169.28	170.06	170.64	172.40	174.74
135.0	169.08	168.69	168.50	168.50	168.89	170.45	174.15	174.74	174.93
150.0	173.76	173.18	172.79	174.54	176.88	176.88	177.08	177.66	177.66
165.0	160.89	161.28	161.67	162.26	163.04	163.82	164.40	164.99	165.77
180.0	149.19	151.53	155.63	157.58	158.36	158.94	158.94	159.33	159.72
195.0	176.69	177.08	177.47	178.44	179.61	180.20	180.78	180.78	180.59
210.0	174.93	176.30	176.69	178.05	179.03	179.61	180.20	180.98	181.56
225.0	156.60	162.84	166.94	167.91	166.16	164.60	163.62	163.82	163.23
240.0	152.70	151.92	151.34	150.36	148.41	149.39	150.56	152.51	153.29
255.0	151.53	151.92	150.56	151.53	153.29	155.04	156.41	157.97	158.36
270.0	159.14	158.55	160.50	161.67	159.72	158.75	159.72	161.28	161.67
285.0	162.65	161.87	162.84	163.82	165.57	166.35	166.35	167.72	171.23
300.0	158.55	158.75	161.87	162.45	163.43	162.84	162.65	161.48	160.70
315.0	158.75	160.11	162.65	164.40	164.60	164.40	164.60	165.38	183.32
330.0	152.90	151.53	153.68	155.04	155.04	155.63	158.16	160.11	161.09
345.0	173.37	175.13	176.69	179.03	178.25	176.69	175.52	175.13	175.32
360.0	166.35	165.18	163.62	164.40	165.57	166.74	167.52	168.11	169.08

## Intensity data(cd)

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C/ $\gamma$ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	169.28	169.67	169.28	168.69	167.72	167.52	168.30	169.28	170.64
15.0	145.10	146.46	147.24	147.24	147.05	147.44	148.41	149.97	151.34
30.0	155.82	155.63	155.43	155.24	155.82	157.77	159.33	159.14	158.75
45.0	168.50	168.89	168.89	167.52	164.40	161.09	158.16	156.80	156.80
60.0	162.06	161.09	160.31	159.72	156.99	155.82	153.09	150.95	149.58
75.0	168.30	168.69	169.47	170.25	170.45	170.64	169.67	167.72	165.18
90.0	162.84	164.79	164.99	163.82	163.04	162.84	162.84	163.04	162.84
105.0	162.45	162.45	162.65	165.18	166.55	165.96	164.40	164.01	164.21
120.0	176.30	177.66	179.42	180.59	182.15	185.47	186.44	188.59	188.98
135.0	175.13	174.54	173.96	173.96	173.96	174.74	176.88	178.64	180.59
150.0	177.08	177.27	177.27	177.27	178.44	180.59	180.20	180.00	179.81
165.0	166.35	167.33	167.52	167.33	166.35	164.01	162.65	161.48	160.89
180.0	159.72	160.11	160.31	160.50	160.31	160.50	159.72	159.53	159.72
195.0	180.78	180.39	179.81	178.64	176.88	176.10	173.96	172.01	169.86
210.0	183.12	181.17	178.64	175.71	174.93	175.32	175.52	175.71	175.52
225.0	162.84	162.84	163.43	165.96	166.16	165.18	164.21	164.60	165.18
240.0	155.04	156.02	156.21	158.16	160.31	162.06	164.21	165.18	165.18
255.0	158.36	158.16	161.87	176.30	178.44	178.83	180.00	182.34	183.52
270.0	161.87	163.04	164.21	166.74	169.28	170.25	170.06	170.25	169.47
285.0	171.81	171.81	169.08	167.13	163.82	162.06	162.26	162.06	161.28
300.0	161.09	160.31	159.72	159.14	158.55	157.97	155.24	154.46	152.12
315.0	184.30	184.88	184.88	184.10	183.91	181.95	178.83	176.88	173.96
330.0	162.06	163.23	163.82	163.82	161.87	161.48	160.50	159.53	159.33
345.0	175.71	175.91	176.69	179.81	181.37	180.00	177.47	176.69	176.69
360.0	169.28	169.67	169.28	168.69	167.72	167.52	168.30	169.28	170.64
C/ $\gamma$ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	172.98	173.57	173.57	173.57	173.57	173.57	173.37	172.98	172.40
15.0	151.92	152.90	152.51	152.12	152.12	151.73	151.73	151.53	151.73
30.0	157.97	155.04	154.65	156.21	157.58	160.11	160.89	161.48	160.50
45.0	177.47	180.00	180.20	180.78	181.37	182.93	185.47	188.78	190.93
60.0	147.05	145.29	145.10	145.49	145.88	146.27	148.22	150.75	152.12
75.0	161.28	158.36	156.21	153.09	151.34	150.17	148.41	145.49	144.12
90.0	162.65	163.82	165.77	166.74	166.74	166.94	167.52	169.28	170.84
105.0	164.60	165.38	166.55	168.69	170.84	172.01	174.35	174.74	175.91
120.0	189.37	189.17	189.37	189.76	190.15	189.95	190.15	190.15	189.76
135.0	181.95	182.54	181.95	181.37	181.37	181.56	181.56	181.56	181.56
150.0	179.61	179.61	179.61	179.81	180.78	182.34	183.52	183.71	183.71
165.0	160.89	161.09	161.87	162.06	162.45	163.62	165.18	169.67	173.57
180.0	160.11	160.70	161.87	162.84	164.21	165.96	166.94	167.33	167.33
195.0	166.94	164.60	163.82	162.06	161.48	161.09	161.28	161.28	160.89
210.0	175.71	176.69	178.44	180.39	181.37	181.56	182.73	184.69	185.86
225.0	166.74	167.91	169.47	171.23	173.96	174.35	175.32	176.10	176.10
240.0	165.57	165.18	164.99	164.40	164.40	164.40	164.40	165.18	165.77
255.0	183.91	184.30	184.49	184.49	184.10	183.91	183.71	183.91	183.91
270.0	168.30	167.33	166.74	168.11	169.47	171.42	171.42	170.84	170.45
285.0	161.09	160.70	160.50	161.67	164.60	166.74	167.72	169.47	171.03
300.0	149.58	148.61	147.05	146.46	146.46	146.85	147.83	149.00	151.14
315.0	171.81	170.06	169.28	169.08	169.28	167.91	166.16	165.18	162.84
330.0	159.53	159.33	160.31	162.06	163.62	163.62	163.43	163.62	164.21
345.0	176.69	176.49	176.30	177.08	178.05	179.81	181.95	181.95	182.34
360.0	172.98	173.57	173.57	173.57	173.57	173.57	173.37	172.98	172.40

## Intensity data(cd)

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C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	172.40	172.20	171.81	171.42	171.23	171.42	171.03	170.64	170.64
15.0	151.73	151.73	151.34	151.53	151.53	151.34	151.53	151.73	151.73
30.0	160.11	159.92	159.72	158.94	159.14	157.19	155.82	151.14	144.71
45.0	192.29	191.71	191.51	189.37	186.44	184.30	181.95	178.64	150.56
60.0	153.87	154.85	153.87	151.53	149.97	152.31	168.30	166.74	164.01
75.0	141.59	141.39	141.98	144.32	145.68	147.05	148.41	148.02	145.10
90.0	172.59	173.37	171.62	168.89	167.72	166.74	165.57	156.99	153.48
105.0	176.10	176.10	175.71	175.52	174.35	173.18	172.40	171.62	159.72
120.0	189.56	188.39	187.61	187.03	185.47	184.30	180.98	169.67	168.30
135.0	180.78	180.20	179.22	179.03	178.64	178.44	177.66	177.47	173.96
150.0	183.12	182.73	182.54	181.95	178.83	176.88	175.32	174.15	171.62
165.0	175.71	176.30	176.49	176.30	175.32	173.37	172.79	172.98	172.98
180.0	166.94	167.91	167.72	167.72	167.33	165.38	164.60	163.04	162.84
195.0	161.48	162.65	162.45	162.65	163.04	163.62	164.01	165.57	166.16
210.0	185.27	182.54	181.37	179.42	179.03	178.44	176.69	173.18	167.72
225.0	176.30	176.30	176.10	175.13	174.74	174.15	170.84	162.65	163.04
240.0	165.96	165.96	165.77	165.38	165.38	165.38	164.79	155.82	149.78
255.0	183.91	183.32	182.93	183.12	182.73	182.34	181.37	172.01	152.31
270.0	170.45	170.25	170.25	170.06	169.47	167.72	165.18	151.53	138.86
285.0	172.59	171.23	169.28	168.11	165.18	160.89	157.97	149.00	147.05
300.0	153.48	154.85	152.70	150.75	148.61	146.46	145.29	144.71	144.51
315.0	162.06	161.67	162.06	163.23	164.21	165.57	166.35	166.16	166.35
330.0	166.16	167.72	166.94	165.18	164.21	163.04	163.04	163.04	161.67
345.0	182.54	183.52	182.73	182.15	181.95	179.61	174.74	170.25	168.30
360.0	172.40	172.20	171.81	171.42	171.23	171.42	171.03	170.64	170.64
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	168.11	162.84	153.48	139.05	133.00	128.52	133.78	136.71	137.29
15.0	149.39	142.37	131.83	125.98	120.52	124.62	127.15	124.42	120.72
30.0	137.49	128.52	127.93	134.56	140.03	138.66	136.32	133.20	125.79
45.0	132.22	128.13	130.66	136.90	134.76	129.30	121.11	119.74	120.91
60.0	153.87	139.05	135.34	134.76	144.51	154.85	164.21	160.31	154.85
75.0	135.15	125.79	124.03	131.64	144.71	148.41	142.17	139.44	136.71
90.0	138.86	133.20	127.74	131.83	138.86	142.37	144.51	141.00	139.44
105.0	144.90	140.61	136.12	133.20	141.78	146.85	149.78	153.87	152.31
120.0	170.84	175.52	166.74	159.14	150.95	146.85	144.51	141.59	144.12
135.0	164.01	160.50	157.38	157.77	159.72	155.43	143.73	136.90	129.88
150.0	168.30	164.79	164.99	165.38	168.89	168.69	163.62	154.07	147.44
165.0	170.25	166.16	161.48	161.28	162.84	168.30	173.57	175.13	168.69
180.0	162.45	162.06	161.28	160.89	161.09	160.50	160.50	158.55	154.65
195.0	164.99	165.38	165.77	166.35	171.81	173.37	170.64	164.40	159.14
210.0	163.04	163.04	164.60	168.11	163.04	157.58	150.95	148.41	145.49
225.0	165.96	161.87	156.21	148.02	148.22	145.68	142.95	144.90	147.83
240.0	144.90	138.86	140.61	142.76	145.29	151.53	158.94	166.35	169.47
255.0	153.09	153.68	147.44	144.32	141.98	141.98	143.15	145.68	148.61
270.0	137.49	142.95	146.46	143.73	136.51	139.64	143.34	147.63	148.61
285.0	142.95	132.61	121.69	118.57	122.08	129.30	128.71	128.52	127.15
300.0	142.76	137.88	131.44	131.83	132.03	139.25	143.54	140.42	127.54
315.0	166.35	164.99	158.75	156.41	160.50	161.09	161.09	158.75	158.36
330.0	157.38	152.31	146.66	138.47	133.00	128.71	129.10	130.27	134.17
345.0	165.38	148.22	143.73	139.44	133.98	128.52	132.03	134.76	133.98
360.0	168.11	162.84	153.48	139.05	133.00	128.52	133.78	136.71	137.29

## Intensity data(cd)

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C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	135.93	134.56	133.98	134.17	133.98	132.81	132.42	131.25	133.39
15.0	117.40	116.62	116.23	115.06	112.72	110.38	110.77	112.14	115.45
30.0	122.08	116.04	112.53	113.89	117.21	120.13	119.94	120.52	124.23
45.0	124.62	125.79	128.32	136.32	140.61	142.76	145.88	148.61	145.10
60.0	151.73	148.61	147.83	145.10	144.51	146.46	149.97	151.14	148.61
75.0	137.10	138.66	144.51	149.78	149.78	148.80	148.61	147.24	146.66
90.0	140.22	138.08	134.95	132.42	129.10	128.32	129.10	129.30	129.49
105.0	152.70	154.85	160.11	161.67	161.48	157.97	156.21	154.65	152.12
120.0	144.71	146.27	142.56	139.05	134.95	128.91	123.06	122.28	123.84
135.0	128.13	127.74	126.96	127.74	129.88	135.73	135.73	133.59	129.49
150.0	140.61	139.64	137.49	136.12	132.42	131.64	135.15	138.86	133.20
165.0	162.84	155.82	151.53	150.17	145.29	135.73	133.00	133.00	136.32
180.0	151.73	149.19	147.24	146.46	140.42	132.61	131.25	128.91	128.13
195.0	153.48	153.29	149.97	137.29	133.98	134.95	140.03	148.22	148.22
210.0	132.81	124.23	124.42	128.52	138.86	139.25	137.88	137.10	137.10
225.0	150.75	150.17	149.19	141.00	135.15	135.34	137.10	135.54	132.81
240.0	168.50	163.04	159.53	154.85	150.56	141.39	133.98	122.86	116.04
255.0	150.95	153.09	153.48	153.68	153.29	151.73	148.41	138.47	126.37
270.0	148.41	147.63	138.47	134.76	135.73	141.78	145.10	145.29	146.27
285.0	127.35	121.30	125.40	128.52	138.27	141.78	141.59	140.03	138.66
300.0	112.72	108.04	104.34	101.41	101.22	103.36	115.45	121.11	121.50
315.0	156.80	159.72	159.53	151.73	146.27	134.95	127.93	123.25	119.35
330.0	152.70	157.19	159.14	157.19	153.68	150.17	143.73	137.29	133.39
345.0	132.03	132.81	134.37	132.22	130.08	125.79	120.72	119.16	116.23
360.0	135.93	134.56	133.98	134.17	133.98	132.81	132.42	131.25	133.39
C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	133.98	136.51	141.20	144.71	146.85	142.95	141.00	141.00	139.83
15.0	117.21	117.79	118.77	117.01	117.79	121.50	124.62	128.91	129.10
30.0	128.52	128.52	126.96	126.76	121.50	114.48	107.46	106.09	110.58
45.0	136.90	127.35	123.84	121.69	122.86	124.62	126.37	127.54	128.91
60.0	142.76	117.01	109.60	102.58	101.80	102.78	104.92	107.07	108.63
75.0	144.51	141.20	137.69	134.95	131.05	130.08	130.66	131.44	132.03
90.0	130.27	130.27	131.25	131.64	130.86	130.47	132.61	133.20	128.32
105.0	145.49	140.81	129.49	119.35	116.04	113.50	102.58	100.05	101.02
120.0	125.20	126.96	139.25	148.61	156.60	157.77	158.75	163.43	164.40
135.0	129.69	127.74	125.20	131.05	135.54	139.25	141.78	143.54	147.05
150.0	129.10	124.03	122.47	122.47	122.67	124.23	127.15	133.00	133.98
165.0	142.37	143.15	139.05	135.54	133.20	132.42	132.22	132.81	133.59
180.0	131.44	131.64	130.27	129.49	128.32	128.13	126.76	126.57	129.10
195.0	141.59	138.66	138.27	138.86	139.64	139.25	139.25	138.66	140.42
210.0	136.51	135.93	134.56	133.20	134.76	136.71	141.78	148.02	154.26
225.0	129.88	129.10	130.08	129.30	127.74	127.54	129.88	133.98	134.95
240.0	114.48	118.18	120.91	121.50	117.79	116.04	111.55	108.82	110.38
255.0	119.94	117.99	124.62	132.81	136.51	133.98	133.00	131.25	131.25
270.0	147.63	145.88	147.83	149.39	150.75	149.00	147.44	147.24	146.85
285.0	139.83	146.66	149.00	148.80	144.32	141.98	139.64	136.71	134.95
300.0	118.77	118.38	120.13	122.86	122.08	119.55	117.01	120.33	123.06
315.0	117.21	122.47	128.52	127.93	126.96	124.23	124.62	125.79	125.20
330.0	130.08	126.96	125.59	125.40	127.54	128.71	128.13	123.84	122.28
345.0	108.24	105.12	101.22	99.27	99.46	99.46	100.83	101.80	98.10
360.0	133.98	136.51	141.20	144.71	146.85	142.95	141.00	141.00	139.83

## Intensity data(cd)

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C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	141.39	139.64	139.05	137.49	134.95	128.32	129.88	132.42	132.03
15.0	129.88	130.08	126.18	123.64	125.01	125.98	123.64	122.86	122.86
30.0	120.91	117.60	111.36	108.24	105.90	109.02	118.57	127.74	127.93
45.0	133.98	131.44	124.42	116.04	112.14	110.38	129.10	130.86	128.91
60.0	114.28	116.04	118.77	125.79	129.69	126.96	114.48	107.46	103.75
75.0	133.39	136.12	135.34	133.59	136.12	138.86	135.15	119.55	110.97
90.0	126.18	130.86	134.37	143.15	148.22	149.19	147.44	144.90	143.73
105.0	106.68	111.36	111.16	110.38	109.41	108.63	111.94	115.26	122.47
120.0	162.06	156.80	151.14	147.24	143.34	137.49	133.59	128.71	125.01
135.0	149.19	147.05	144.90	144.71	144.51	148.02	152.31	151.92	150.56
150.0	135.93	139.25	142.37	141.98	138.66	138.08	138.08	137.69	140.61
165.0	137.10	139.44	141.39	141.98	144.12	148.80	153.48	158.16	158.36
180.0	132.81	136.32	139.44	140.03	141.78	148.22	153.68	156.99	157.19
195.0	141.39	143.54	147.05	153.29	158.36	159.33	158.94	157.97	154.85
210.0	162.26	164.01	163.43	158.55	152.51	152.12	153.87	156.80	154.07
225.0	135.93	134.37	133.98	134.17	134.95	135.34	135.73	131.05	124.42
240.0	112.14	112.14	111.75	112.14	112.92	113.50	115.65	120.52	123.45
255.0	130.27	127.93	123.45	121.30	117.99	114.28	114.48	116.23	116.43
270.0	147.24	149.00	151.34	151.92	150.56	151.92	149.58	138.08	134.95
285.0	134.76	134.95	135.34	134.17	130.27	122.47	122.08	122.86	128.52
300.0	122.47	118.38	117.01	120.72	125.98	125.59	116.04	109.99	107.85
315.0	116.62	108.04	107.26	112.53	119.35	129.69	129.88	130.08	132.22
330.0	121.69	121.11	125.98	129.88	124.42	117.21	114.09	114.87	118.96
345.0	95.95	95.76	99.66	102.19	102.19	96.73	96.73	100.05	103.75
360.0	141.39	139.64	139.05	137.49	134.95	128.32	129.88	132.42	132.03
C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	135.54	139.44	139.83	141.59	145.88	147.83	147.83	147.44	147.63
15.0	121.11	122.08	125.20	125.59	123.45	121.89	121.50	120.72	118.18
30.0	127.15	124.23	123.64	125.40	118.77	111.75	110.19	110.97	107.85
45.0	127.74	127.54	124.03	116.82	109.60	109.02	113.31	111.55	106.87
60.0	104.53	112.72	116.04	115.26	114.28	115.84	115.26	117.79	120.13
75.0	104.14	100.63	104.34	111.55	112.33	111.36	111.75	111.36	109.99
90.0	140.22	138.86	138.47	134.76	131.83	130.08	127.74	122.67	125.59
105.0	125.20	124.03	122.08	123.06	123.64	125.20	130.86	133.98	135.34
120.0	123.64	119.55	110.97	106.87	98.68	90.88	91.66	95.95	109.60
135.0	147.63	144.51	139.25	134.56	131.64	124.03	114.87	110.77	105.70
150.0	141.39	141.20	140.42	138.08	134.56	131.44	127.54	127.15	122.86
165.0	157.77	157.97	159.14	158.36	158.16	153.87	149.58	142.37	133.20
180.0	156.60	156.02	154.46	153.29	152.70	149.19	146.85	142.76	137.69
195.0	151.14	150.56	150.17	149.78	145.10	141.00	136.32	133.78	131.64
210.0	147.63	142.56	140.42	138.27	135.15	134.17	132.81	126.96	123.06
225.0	106.48	95.37	92.25	89.51	92.83	99.07	115.84	125.79	130.27
240.0	126.18	125.98	123.06	117.99	109.41	110.38	110.97	120.52	125.98
255.0	116.82	117.21	115.26	110.77	105.70	92.44	86.98	85.81	88.34
270.0	134.56	140.81	139.64	132.61	121.69	108.82	107.85	111.55	127.93
285.0	118.57	117.79	113.50	112.14	112.14	111.55	112.53	114.48	119.74
300.0	107.46	112.72	120.72	118.38	109.99	96.73	91.86	92.83	94.78
315.0	134.56	137.49	140.03	139.64	139.25	137.29	135.34	133.00	130.08
330.0	129.49	136.32	134.56	132.42	135.73	139.64	146.66	149.78	149.78
345.0	107.26	112.92	119.35	120.52	124.62	130.27	131.83	133.39	134.37
360.0	135.54	139.44	139.83	141.59	145.88	147.83	147.83	147.44	147.63

## Intensity data(cd)

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C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	147.24	145.88	140.03	134.56	127.74	112.33	102.97	97.32	83.27
15.0	115.45	111.16	104.92	99.27	93.61	93.22	85.61	73.72	74.50
30.0	106.48	99.07	87.37	70.60	67.48	67.87	77.62	93.42	103.75
45.0	106.09	113.31	121.30	126.18	129.30	128.71	128.32	127.35	125.40
60.0	125.98	126.37	120.52	111.94	110.38	111.16	119.35	127.74	128.52
75.0	114.67	117.99	120.33	118.57	108.82	104.92	105.31	112.72	119.16
90.0	132.03	135.15	138.08	131.64	125.59	120.91	122.28	127.35	133.39
105.0	134.17	130.27	126.57	126.96	124.62	123.45	123.84	125.59	128.32
120.0	118.57	124.03	127.74	127.93	126.96	125.59	124.03	123.25	124.62
135.0	103.75	102.00	103.36	100.63	99.85	101.61	105.31	107.65	111.75
150.0	117.40	113.89	106.29	103.17	101.02	98.88	95.17	96.93	100.63
165.0	130.08	127.74	121.11	117.99	113.70	109.21	106.68	104.34	98.10
180.0	133.59	128.52	123.25	121.69	119.94	118.96	115.84	106.87	101.22
195.0	127.74	125.20	123.06	118.96	112.53	106.87	100.24	99.66	99.46
210.0	115.45	103.95	102.00	100.83	100.63	106.87	119.74	125.59	124.81
225.0	131.44	127.15	124.81	124.42	124.62	126.57	130.08	135.73	139.64
240.0	131.05	137.88	134.76	132.03	129.30	127.93	126.96	124.62	121.69
255.0	96.93	99.66	98.29	98.10	95.95	94.00	93.22	95.56	96.15
270.0	134.95	135.34	140.42	140.42	141.00	139.05	140.22	143.34	143.93
285.0	122.86	123.84	119.74	116.43	117.21	114.28	111.36	108.04	107.85
300.0	99.66	104.53	112.53	121.69	125.79	127.35	128.71	130.27	129.49
315.0	119.94	112.92	107.07	106.68	103.75	104.92	111.94	118.38	128.13
330.0	147.05	138.47	137.49	135.93	131.05	124.42	116.04	110.77	105.31
345.0	134.37	134.17	132.81	132.42	130.86	122.47	114.87	110.97	99.27
360.0	147.24	145.88	140.03	134.56	127.74	112.33	102.97	97.32	83.27
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	73.13	75.86	87.56	100.24	112.33	127.74	134.76	133.78	131.83
15.0	75.67	84.83	94.39	111.36	123.25	128.71	127.93	127.15	125.40
30.0	116.43	125.40	124.42	119.94	115.45	116.43	121.11	114.48	114.48
45.0	123.45	117.40	113.50	112.33	104.34	101.22	100.05	99.46	98.88
60.0	131.05	132.42	130.86	132.22	129.30	122.47	112.33	109.02	106.48
75.0	122.86	122.67	122.08	120.72	119.16	117.40	115.06	111.94	108.43
90.0	133.98	133.78	131.83	131.64	130.08	127.74	116.23	110.38	108.24
105.0	137.49	141.78	148.22	141.00	137.69	135.93	134.76	133.98	132.03
120.0	125.20	126.18	121.50	119.55	117.40	118.57	119.35	125.59	128.91
135.0	118.38	119.74	120.72	122.47	123.25	124.42	125.20	123.84	121.11
150.0	105.90	113.11	118.18	121.11	123.25	124.81	128.32	127.15	122.28
165.0	99.66	104.34	109.02	114.28	120.33	121.11	113.89	113.50	115.84
180.0	100.63	99.66	104.34	109.21	114.67	115.84	115.06	115.84	119.16
195.0	107.46	114.09	118.57	118.96	117.60	118.77	121.89	125.01	127.35
210.0	119.55	119.16	120.33	124.42	129.10	131.05	132.42	130.66	129.88
225.0	143.15	143.15	142.95	140.03	134.95	131.83	130.27	125.20	122.47
240.0	118.96	118.18	118.77	115.84	116.23	115.84	112.33	106.29	102.39
255.0	96.15	96.34	96.93	97.12	97.90	98.68	99.07	98.49	97.51
270.0	142.95	133.98	126.18	123.45	120.91	119.16	117.40	114.87	113.50
285.0	110.38	114.28	120.33	125.98	133.00	134.76	133.78	132.61	131.64
300.0	125.98	127.74	129.88	130.27	128.13	124.81	121.69	116.62	107.85
315.0	133.78	134.76	137.29	137.29	132.61	132.61	133.00	132.03	125.59
330.0	98.29	104.53	111.16	121.69	130.08	129.30	130.08	126.18	123.84
345.0	88.73	86.39	95.76	112.53	124.62	138.86	135.15	126.57	118.96
360.0	73.13	75.86	87.56	100.24	112.33	127.74	134.76	133.78	131.83

## Intensity data(cd)

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C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	124.42	115.65	96.93	93.42	89.12	85.42	87.95	91.66	106.68
15.0	121.89	107.26	101.80	97.51	92.25	91.66	93.61	104.34	118.57
30.0	111.94	109.60	109.60	109.21	111.94	113.31	121.50	124.62	124.81
45.0	100.63	111.16	116.82	120.72	125.59	124.81	121.11	117.40	120.52
60.0	107.07	112.72	114.48	116.62	115.65	106.48	96.15	94.98	93.22
75.0	101.02	91.66	89.71	87.95	86.39	84.83	81.13	80.15	82.30
90.0	107.85	108.24	109.99	108.04	106.29	104.34	103.75	102.58	101.41
105.0	130.66	128.91	124.42	121.89	120.13	118.38	119.16	118.96	118.96
120.0	133.59	134.95	135.73	136.32	135.93	131.64	123.45	107.65	98.88
135.0	117.99	118.77	119.94	121.50	109.99	107.46	108.04	108.43	107.46
150.0	116.82	111.55	111.36	111.75	116.04	119.55	124.03	125.40	124.62
165.0	117.99	121.30	119.94	116.82	114.48	115.06	117.99	122.67	123.45
180.0	121.89	124.62	122.67	120.13	117.40	116.62	111.94	104.53	113.70
195.0	127.54	124.23	122.86	121.11	119.94	120.72	117.99	104.92	108.82
210.0	127.74	126.76	126.18	123.84	121.50	121.69	120.52	118.57	120.52
225.0	120.33	121.11	120.72	119.16	119.16	118.38	114.87	111.36	109.02
240.0	101.02	99.07	93.61	90.68	89.12	88.15	87.17	93.03	104.53
255.0	96.15	97.32	99.07	99.46	97.90	88.73	84.83	83.86	100.05
270.0	112.33	111.36	108.82	107.65	107.46	106.87	105.90	105.12	107.26
285.0	130.27	128.13	126.18	125.40	122.08	117.40	115.26	111.75	107.46
300.0	105.12	105.31	106.68	111.55	115.45	118.96	115.06	113.50	121.11
315.0	122.67	116.62	108.04	106.29	106.48	107.65	111.75	127.93	126.76
330.0	122.08	121.30	118.57	115.26	110.77	105.90	104.34	107.85	113.31
345.0	112.92	110.58	105.12	103.17	98.49	94.00	96.93	104.73	116.62
360.0	124.42	115.65	96.93	93.42	89.12	85.42	87.95	91.66	106.68
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	123.84	125.98	138.66	138.66	132.22	112.53	106.29	105.90	102.19
15.0	123.84	120.52	121.11	128.13	122.08	123.64	118.57	101.41	99.46
30.0	123.84	127.74	125.59	119.94	112.92	112.33	109.80	91.27	85.61
45.0	121.50	106.29	95.76	92.64	89.90	103.75	113.31	108.04	95.56
60.0	91.27	86.20	85.03	83.47	82.88	90.49	103.36	121.69	136.12
75.0	82.10	79.76	79.96	81.71	88.93	105.51	119.16	142.95	121.69
90.0	100.63	98.49	103.95	112.33	108.24	114.28	123.25	103.17	93.61
105.0	122.08	126.76	118.38	113.89	114.67	124.81	104.73	98.88	94.78
120.0	105.90	106.68	110.19	122.47	124.81	104.73	100.05	96.15	89.71
135.0	112.92	114.28	109.21	111.94	136.51	135.93	116.62	103.56	96.93
150.0	122.86	128.52	126.37	142.76	139.44	130.86	108.82	108.24	95.37
165.0	128.71	136.12	129.10	116.62	103.56	96.73	97.12	96.34	97.51
180.0	113.31	110.97	102.78	100.63	98.29	100.63	100.83	111.55	126.37
195.0	112.53	103.17	100.05	108.24	108.43	125.40	110.77	96.54	102.58
210.0	125.40	120.13	130.27	122.67	111.94	100.24	96.34	104.53	89.71
225.0	112.53	124.23	135.93	133.78	123.84	102.78	100.24	106.48	102.39
240.0	103.17	110.97	124.62	128.91	116.82	98.88	95.17	93.03	102.78
255.0	101.02	102.78	114.67	119.94	110.97	91.07	89.51	87.95	95.76
270.0	100.05	94.39	102.97	118.18	117.01	90.49	89.71	87.56	88.93
285.0	109.60	112.33	104.34	98.29	117.40	105.70	90.68	87.37	91.07
300.0	120.13	115.65	109.80	106.48	111.94	117.01	136.12	121.11	94.78
315.0	122.28	116.82	107.07	103.95	100.44	100.44	111.16	115.65	102.19
330.0	134.17	132.22	127.54	118.18	112.14	112.53	101.61	92.83	87.95
345.0	140.22	141.59	140.81	138.27	134.17	125.59	110.97	94.39	86.39
360.0	123.84	125.98	138.66	138.66	132.22	112.53	106.29	105.90	102.19

## Intensity data(cd)

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C/ $\gamma$ (°)	180.0
0.0	109.99
15.0	100.05
30.0	87.95
45.0	95.76
60.0	111.94
75.0	106.68
90.0	91.07
105.0	92.05
120.0	90.10
135.0	98.49
150.0	95.56
165.0	105.51
180.0	109.99
195.0	100.05
210.0	87.95
225.0	95.76
240.0	111.94
255.0	106.68
270.0	91.07
285.0	92.05
300.0	90.10
315.0	98.49
330.0	95.56
345.0	105.51
360.0	109.99