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LumCAT: 55021CDBZ  
Luminaire: 55021CDBZ  
Report No: Voltage(V): 120.0500  
Test No: Current(A): 0.0920  
LampCAT: Power (W): 10.8810  
Lamp flux(lm): -1.0 PF: 0.9892  
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): 421.39  
Efficiency(%): 0.00%  
Lumens(lm)/Power(W): 38.73  
Central intensity(cd): 1.014  
Maximum intensity(cd): 216.454  
Angle of maximum intensity:  $C=330.0$   $\gamma=34.0$   
Beam Angle(50%Imax): [C0/180]Total=98.4  
[C90/270]Total=95.6  
Field angle(10%Imax): [C0/180]Total=143.9  
[C90/270]Total=143.4  
Maximum s/h(1/2): C0\_180=6.34 C90\_270=6.23  
Maximum s/h(1/4): C0\_180=4.82 C90\_270=4.86  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 0.00%  
Up flux rate of LUM(%): 1.69%  
Down flux rate of LUM(%): 98.31%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 85.169%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	.999	.000	.000	.000%	.000%	.000%
1.0	1.016	.001	.001	.000%	.000%	.000%
2.0	1.328	.003	.004	.000%	.000%	.001%
3.0	2.313	.009	.013	.000%	.000%	.003%
4.0	3.714	.020	.033	.000%	.000%	.008%
5.0	5.998	.042	.075	.000%	.000%	.018%
6.0	10.526	.087	.162	.000%	.000%	.038%
7.0	15.737	.163	.325	.000%	.000%	.077%
8.0	21.374	.266	.590	.000%	.000%	.140%
9.0	28.265	.402	.993	.000%	.000%	.236%
10.0	37.175	.592	1.585	.000%	.000%	.376%
11.0	46.646	.838	2.422	.000%	.000%	.575%
12.0	57.076	1.134	3.556	.000%	.000%	.844%
13.0	62.265	1.416	4.973	.000%	.000%	1.180%
14.0	67.139	1.656	6.629	.000%	.000%	1.573%
15.0	76.075	1.966	8.595	.000%	.000%	2.040%
16.0	87.775	2.401	10.996	.000%	.000%	2.609%
17.0	91.143	2.786	13.782	.000%	.000%	3.271%
18.0	94.041	3.053	16.835	.000%	.000%	3.995%
19.0	102.508	3.420	20.255	.000%	.000%	4.807%
20.0	109.556	3.881	24.136	.000%	.000%	5.728%
21.0	115.595	4.323	28.460	.000%	.000%	6.754%
22.0	118.696	4.708	33.168	.000%	.000%	7.871%
23.0	125.852	5.131	38.299	.000%	.000%	9.089%
24.0	129.082	5.574	43.873	.000%	.000%	10.411%
25.0	135.911	6.025	49.898	.000%	.000%	11.841%
26.0	143.123	6.587	56.485	.000%	.000%	13.404%
27.0	143.146	7.004	63.489	.000%	.000%	15.066%
28.0	145.381	7.305	70.793	.000%	.000%	16.800%
29.0	151.944	7.779	78.572	.000%	.000%	18.646%
30.0	159.367	8.405	86.978	.000%	.000%	20.640%
31.0	170.713	9.186	96.163	.000%	.000%	22.820%
32.0	175.227	9.911	106.074	.000%	.000%	25.172%
33.0	176.399	10.359	116.433	.000%	.000%	27.630%
34.0	180.543	10.802	127.235	.000%	.000%	30.194%
35.0	174.747	11.034	138.269	.000%	.000%	32.812%
36.0	166.574	10.868	149.137	.000%	.000%	35.391%
37.0	158.985	10.618	159.755	.000%	.000%	37.911%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
38.0	153.641	10.435	170.190	.000%	.000%	40.387%
39.0	152.230	10.440	180.630	.000%	.000%	42.865%
40.0	144.720	10.357	190.987	.000%	.000%	45.323%
41.0	141.679	10.199	201.185	.000%	.000%	47.743%
42.0	138.898	10.194	211.379	.000%	.000%	50.162%
43.0	129.904	9.957	221.336	.000%	.000%	52.525%
44.0	125.638	9.645	230.981	.000%	.000%	54.814%
45.0	119.296	9.413	240.394	.000%	.000%	57.047%
46.0	119.884	9.354	249.748	.000%	.000%	59.267%
47.0	115.249	9.352	259.100	.000%	.000%	61.486%
48.0	111.172	9.153	268.253	.000%	.000%	63.659%
49.0	107.128	8.965	277.218	.000%	.000%	65.786%
50.0	101.300	8.690	285.908	.000%	.000%	67.848%
51.0	97.600	8.415	294.323	.000%	.000%	69.845%
52.0	92.798	8.170	302.493	.000%	.000%	71.784%
53.0	89.676	7.938	310.431	.000%	.000%	73.668%
54.0	84.189	7.663	318.094	.000%	.000%	75.486%
55.0	80.650	7.358	325.452	.000%	.000%	77.232%
56.0	79.498	7.237	332.689	.000%	.000%	78.950%
57.0	74.918	7.060	339.749	.000%	.000%	80.625%
58.0	70.031	6.703	346.452	.000%	.000%	82.216%
59.0	65.721	6.346	352.798	.000%	.000%	83.722%
60.0	63.349	6.098	358.896	.000%	.000%	85.169%
61.0	57.878	5.785	364.681	.000%	.000%	86.542%
62.0	53.142	5.350	370.031	.000%	.000%	87.811%
63.0	50.775	5.054	375.085	.000%	.000%	89.011%
64.0	46.322	4.765	379.849	.000%	.000%	90.141%
65.0	43.296	4.435	384.285	.000%	.000%	91.194%
66.0	37.809	4.047	388.331	.000%	.000%	92.154%
67.0	34.737	3.648	391.979	.000%	.000%	93.020%
68.0	32.285	3.395	395.374	.000%	.000%	93.825%
69.0	29.161	3.135	398.509	.000%	.000%	94.569%
70.0	24.828	2.773	401.281	.000%	.000%	95.227%
71.0	20.583	2.347	403.628	.000%	.000%	95.784%
72.0	16.740	1.941	405.569	.000%	.000%	96.245%
73.0	13.531	1.583	407.152	.000%	.000%	96.620%
74.0	8.205	1.143	408.295	.000%	.000%	96.892%
75.0	6.297	.766	409.061	.000%	.000%	97.073%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
76.0	5.609	.632	409.693	.000%	.000%	97.223%
77.0	5.007	.566	410.259	.000%	.000%	97.358%
78.0	4.444	.506	410.765	.000%	.000%	97.478%
79.0	3.970	.452	411.217	.000%	.000%	97.585%
80.0	3.610	.409	411.626	.000%	.000%	97.682%
81.0	3.311	.374	412.000	.000%	.000%	97.771%
82.0	3.061	.346	412.346	.000%	.000%	97.853%
83.0	2.829	.320	412.666	.000%	.000%	97.929%
84.0	2.591	.295	412.961	.000%	.000%	97.999%
85.0	2.364	.270	413.231	.000%	.000%	98.063%
86.0	2.136	.246	413.477	.000%	.000%	98.121%
87.0	1.930	.223	413.700	.000%	.000%	98.174%
88.0	1.750	.202	413.902	.000%	.000%	98.222%
89.0	1.590	.183	414.085	.000%	.000%	98.266%
90.0	1.481	.168	414.253	.000%	.000%	98.305%
91.0	1.389	.157	414.410	.000%	.000%	98.343%
92.0	1.308	.148	414.558	.000%	.000%	98.378%
93.0	1.251	.140	414.698	.000%	.000%	98.411%
94.0	1.193	.134	414.832	.000%	.000%	98.443%
95.0	1.143	.128	414.960	.000%	.000%	98.473%
96.0	1.104	.123	415.082	.000%	.000%	98.502%
97.0	1.069	.118	415.201	.000%	.000%	98.530%
98.0	1.040	.115	415.315	.000%	.000%	98.558%
99.0	1.016	.111	415.427	.000%	.000%	98.584%
100.0	.987	.108	415.535	.000%	.000%	98.610%
101.0	.971	.106	415.641	.000%	.000%	98.635%
102.0	.958	.104	415.744	.000%	.000%	98.659%
103.0	.941	.102	415.846	.000%	.000%	98.684%
104.0	.939	.100	415.946	.000%	.000%	98.707%
105.0	.938	.100	416.046	.000%	.000%	98.731%
106.0	.951	.100	416.146	.000%	.000%	98.755%
107.0	.943	.100	416.245	.000%	.000%	98.778%
108.0	.953	.099	416.344	.000%	.000%	98.802%
109.0	.961	.100	416.444	.000%	.000%	98.825%
110.0	.962	.099	416.543	.000%	.000%	98.849%
111.0	.978	.100	416.643	.000%	.000%	98.873%
112.0	.998	.101	416.744	.000%	.000%	98.897%
113.0	1.004	.101	416.845	.000%	.000%	98.921%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
114.0	1.035	.103	416.948	.000%	.000%	98.945%
115.0	1.064	.105	417.053	.000%	.000%	98.970%
116.0	1.101	.107	417.160	.000%	.000%	98.995%
117.0	1.135	.110	417.269	.000%	.000%	99.021%
118.0	1.178	.113	417.382	.000%	.000%	99.048%
119.0	1.212	.115	417.497	.000%	.000%	99.075%
120.0	1.242	.117	417.614	.000%	.000%	99.103%
121.0	1.264	.118	417.733	.000%	.000%	99.131%
122.0	1.275	.119	417.851	.000%	.000%	99.159%
123.0	1.281	.118	417.970	.000%	.000%	99.187%
124.0	1.303	.118	418.088	.000%	.000%	99.215%
125.0	1.316	.118	418.206	.000%	.000%	99.244%
126.0	1.324	.118	418.324	.000%	.000%	99.272%
127.0	1.322	.117	418.440	.000%	.000%	99.299%
128.0	1.330	.115	418.556	.000%	.000%	99.327%
129.0	1.348	.115	418.671	.000%	.000%	99.354%
130.0	1.376	.115	418.786	.000%	.000%	99.381%
131.0	1.404	.116	418.902	.000%	.000%	99.409%
132.0	1.425	.116	419.018	.000%	.000%	99.436%
133.0	1.436	.116	419.134	.000%	.000%	99.464%
134.0	1.435	.114	419.248	.000%	.000%	99.491%
135.0	1.446	.113	419.361	.000%	.000%	99.518%
136.0	1.437	.111	419.471	.000%	.000%	99.544%
137.0	1.433	.108	419.580	.000%	.000%	99.570%
138.0	1.424	.106	419.686	.000%	.000%	99.595%
139.0	1.406	.103	419.789	.000%	.000%	99.619%
140.0	1.387	.099	419.888	.000%	.000%	99.643%
141.0	1.360	.096	419.984	.000%	.000%	99.665%
142.0	1.327	.092	420.076	.000%	.000%	99.687%
143.0	1.300	.088	420.163	.000%	.000%	99.708%
144.0	1.267	.084	420.247	.000%	.000%	99.728%
145.0	1.233	.080	420.327	.000%	.000%	99.747%
146.0	1.205	.076	420.402	.000%	.000%	99.765%
147.0	1.177	.072	420.474	.000%	.000%	99.782%
148.0	1.154	.069	420.543	.000%	.000%	99.798%
149.0	1.125	.065	420.608	.000%	.000%	99.814%
150.0	1.108	.062	420.671	.000%	.000%	99.828%
151.0	1.069	.059	420.729	.000%	.000%	99.842%

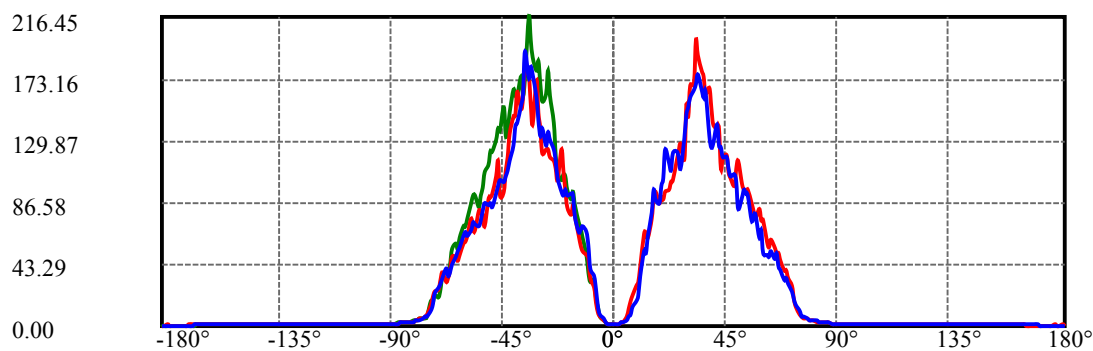
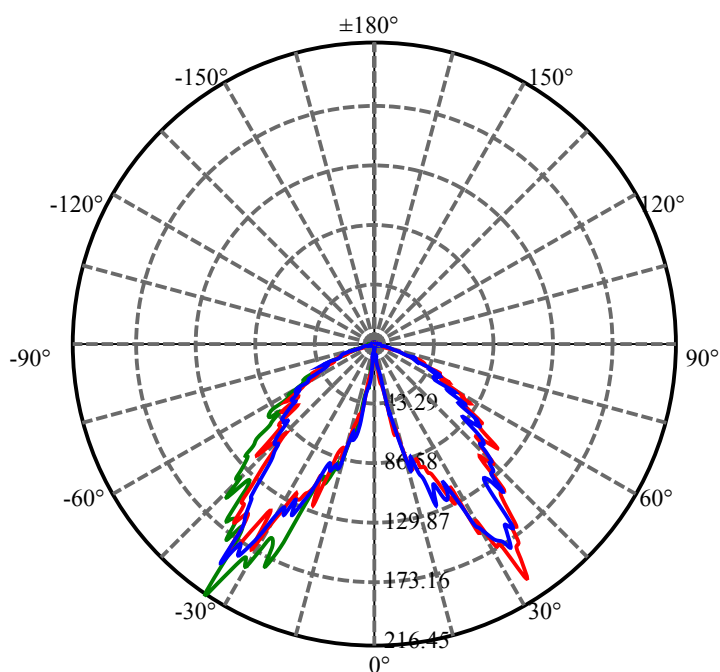
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
152.0	1.037	.055	420.784	.000%	.000%	99.855%
153.0	1.019	.052	420.837	.000%	.000%	99.868%
154.0	.999	.049	420.886	.000%	.000%	99.880%
155.0	.973	.047	420.932	.000%	.000%	99.891%
156.0	.953	.044	420.976	.000%	.000%	99.901%
157.0	.941	.041	421.018	.000%	.000%	99.911%
158.0	.905	.039	421.056	.000%	.000%	99.920%
159.0	.882	.036	421.092	.000%	.000%	99.928%
160.0	.850	.033	421.126	.000%	.000%	99.936%
161.0	.817	.031	421.156	.000%	.000%	99.944%
162.0	.798	.028	421.184	.000%	.000%	99.950%
163.0	.771	.026	421.210	.000%	.000%	99.956%
164.0	.741	.024	421.234	.000%	.000%	99.962%
165.0	.716	.021	421.255	.000%	.000%	99.967%
166.0	.697	.019	421.274	.000%	.000%	99.972%
167.0	.651	.017	421.292	.000%	.000%	99.976%
168.0	.638	.015	421.307	.000%	.000%	99.979%
169.0	.622	.014	421.321	.000%	.000%	99.983%
170.0	.599	.012	421.333	.000%	.000%	99.986%
171.0	.617	.011	421.344	.000%	.000%	99.988%
172.0	.628	.010	421.354	.000%	.000%	99.991%
173.0	.631	.009	421.363	.000%	.000%	99.993%
174.0	.642	.008	421.371	.000%	.000%	99.995%
175.0	.646	.007	421.378	.000%	.000%	99.996%
176.0	.650	.006	421.383	.000%	.000%	99.998%
177.0	.657	.004	421.388	.000%	.000%	99.999%
178.0	.661	.003	421.391	.000%	.000%	99.999%
179.0	.666	.002	421.393	.000%	.000%	100.000%
180.0	.665	.001	421.393	.000%	.000%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	86.98	N.A.	20.64%
0-40	190.99	N.A.	45.32%
0-60	358.90	N.A.	85.17%
0-90	414.25	N.A.	98.31%
0-120	417.61	N.A.	99.10%
0-180	421.39	N.A.	100.00%
60-90	61.45	N.A.	14.58%
90-120	3.53	N.A.	0.84%
90-130	4.70	N.A.	1.12%
90-150	6.59	N.A.	1.56%
90-180	7.31	N.A.	1.73%
0-56.63	337.11	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	1.58
10-20	22.55
20-30	62.84
30-40	104.01
40-50	94.92
50-60	72.99
60-70	42.39
70-80	10.34
80-90	2.63
90-100	1.28
100-110	1.01
110-120	1.07
120-130	1.17
130-140	1.10
140-150	0.78
150-160	0.45
160-170	0.21
170-180	0.06



C330(Max): —————

C0/C180: —————

C90/C270: —————

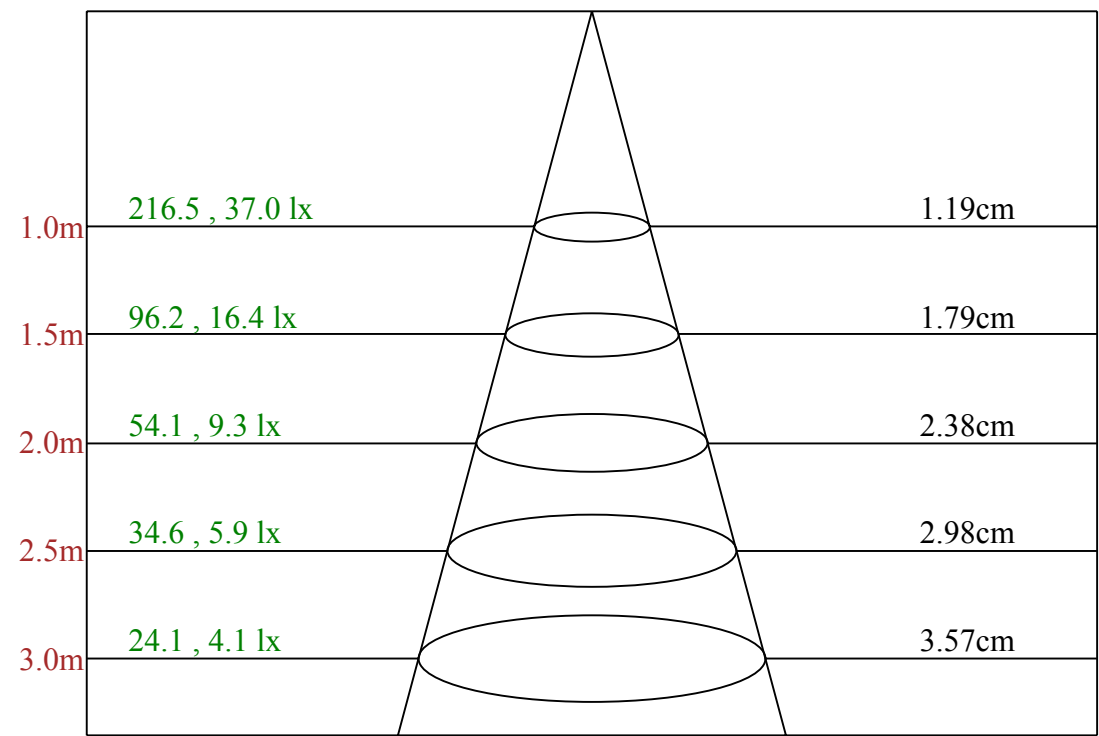
Field angle(10%Imax):C0/180Left:105.0 Right:38.8

:C90/270Left:36.5 Right:107.0

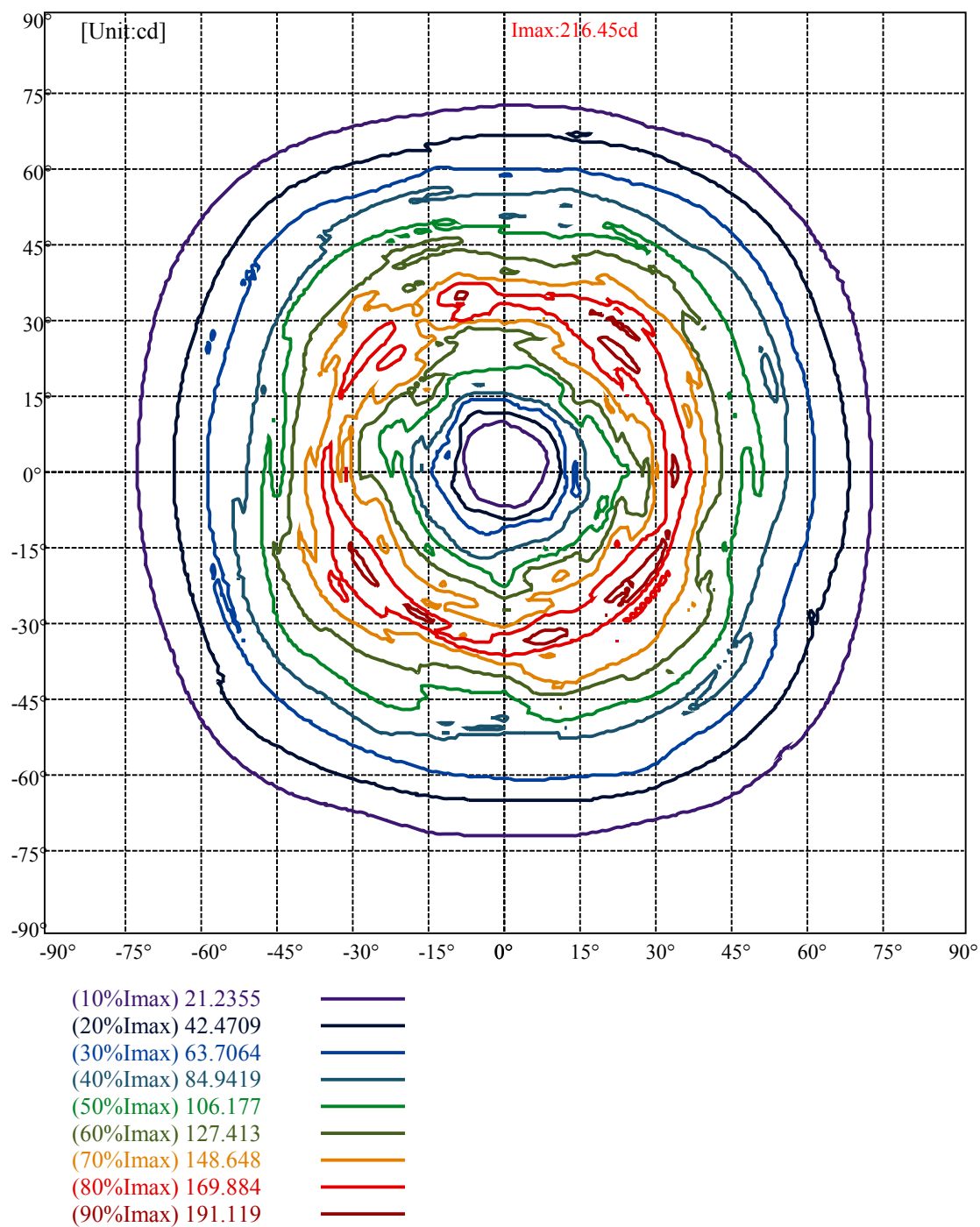
Beam Angle(50%Imax):C0/180Left:80.4 Right:18.0

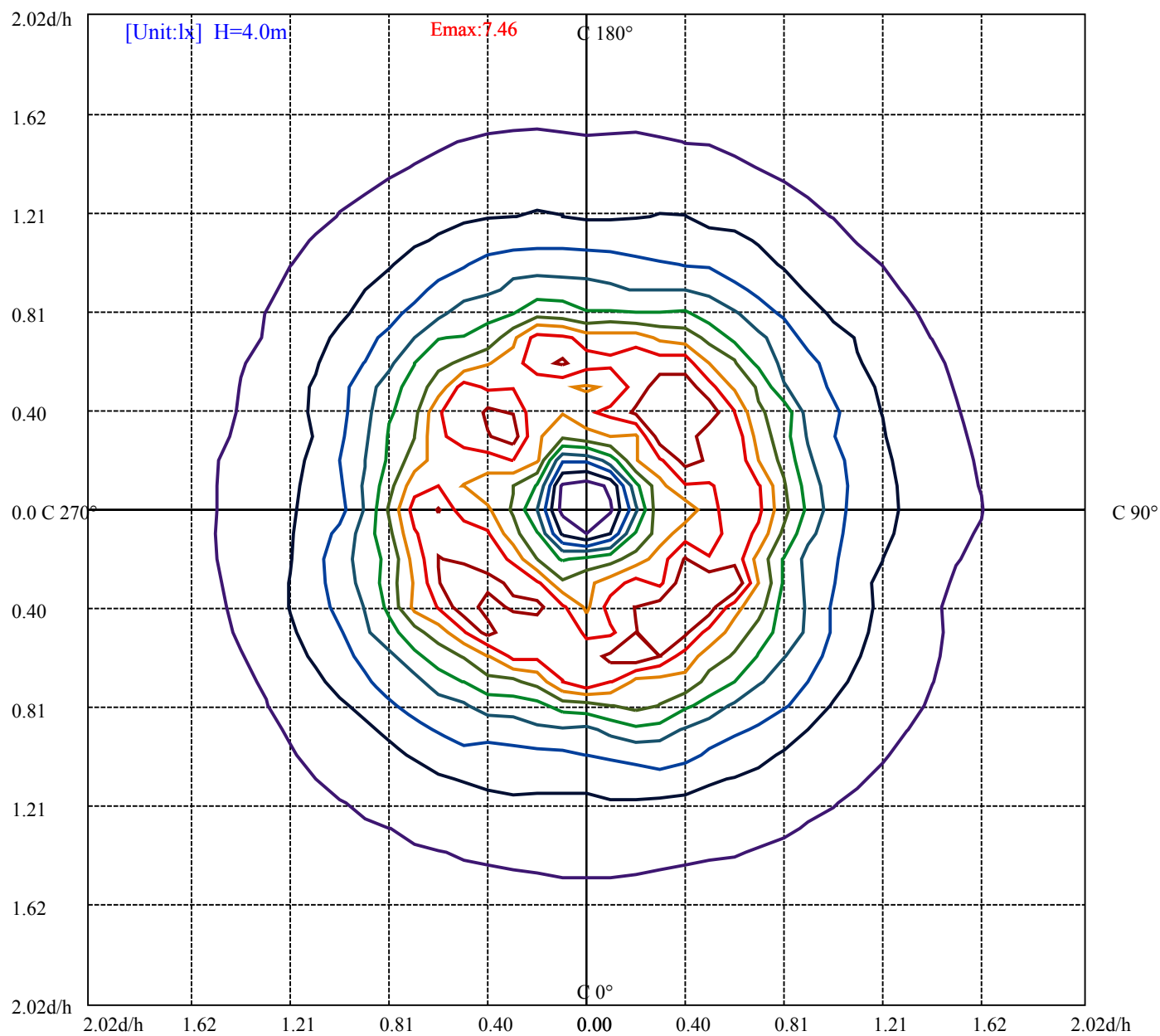
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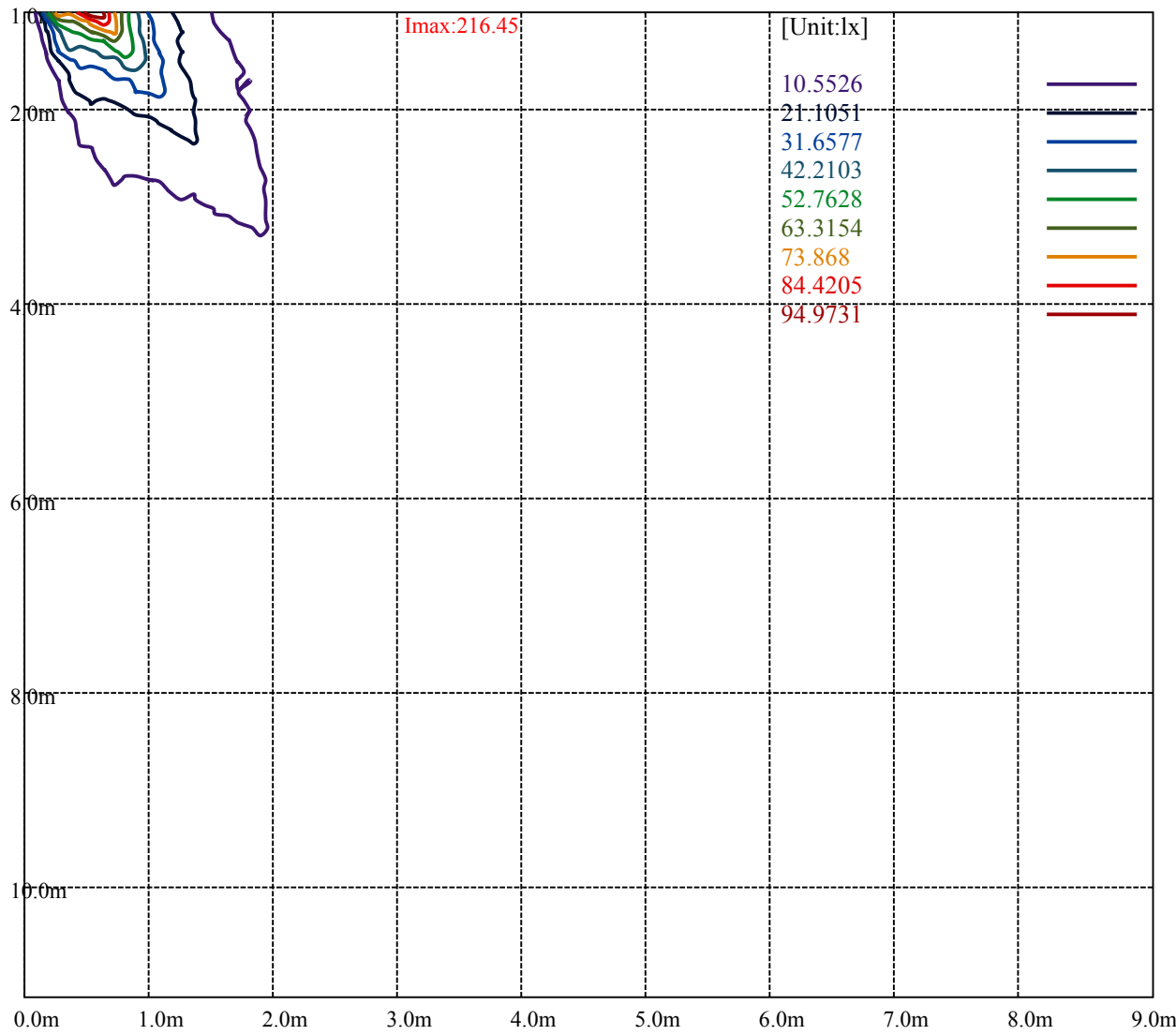


Max , Ave      Beam angle of C330plane180.68





(10%Emax) 0.745775  
(20%Emax) 1.49155  
(30%Emax) 2.237325  
(40%Emax) 2.9831  
(50%Emax) 3.728881  
(60%Emax) 4.474656  
(70%Emax) 5.220431  
(80%Emax) 5.966206  
(90%Emax) 6.712



## Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	1.01	1.01	1.38	2.36	3.30	6.26	12.34	17.88	21.32
15.0	0.96	0.98	1.11	1.79	3.32	4.91	8.78	13.14	16.42
30.0	0.99	0.99	1.11	1.83	3.41	5.30	8.50	12.07	15.17
45.0	1.01	0.99	1.07	1.93	3.20	4.35	8.07	12.40	14.45
60.0	1.03	1.01	1.13	1.87	2.73	4.56	7.12	9.56	16.17
75.0	0.98	0.98	1.05	2.01	2.93	4.39	6.57	8.44	15.68
90.0	1.03	1.01	1.09	2.16	3.14	4.70	6.36	7.80	13.14
105.0	1.01	1.01	1.13	2.16	3.20	4.68	5.95	7.82	11.94
120.0	0.99	0.99	1.17	1.76	2.93	4.66	5.93	7.82	10.86
135.0	1.01	0.98	1.15	1.68	3.12	4.58	5.95	7.98	11.04
150.0	0.98	0.98	1.31	1.89	3.14	4.68	6.14	9.22	13.01
165.0	0.99	1.01	1.29	1.95	3.61	5.44	7.35	10.77	19.68
180.0	0.98	0.99	1.05	2.09	3.55	6.36	9.05	16.48	26.93
195.0	0.96	0.99	1.17	2.16	4.21	6.24	10.90	20.03	25.14
210.0	0.99	1.03	1.15	2.42	4.10	6.14	14.47	22.21	25.74
225.0	1.01	1.05	1.33	2.44	4.54	6.42	12.72	20.42	23.25
240.0	1.03	1.07	1.79	2.81	4.54	7.20	13.22	24.40	34.93
255.0	0.98	1.05	1.76	2.75	4.43	7.82	14.76	25.76	35.24
270.0	1.03	1.07	1.74	2.69	4.84	8.00	13.81	25.80	35.34
285.0	1.01	1.05	1.87	3.30	4.66	9.65	15.35	20.91	24.92
300.0	0.99	1.01	1.76	3.12	4.37	7.98	17.24	19.85	22.80
315.0	1.01	1.01	1.48	3.02	4.23	6.77	14.45	18.98	24.36
330.0	0.98	1.01	1.46	2.69	3.84	6.79	13.32	19.44	31.71
345.0	0.99	1.05	1.31	2.63	3.82	6.07	14.28	18.51	23.73
360.0	1.01	1.01	1.38	2.36	3.30	6.26	12.34	17.88	21.32
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	28.06	30.44	41.31	65.16	64.67	62.27	75.57	90.31	93.81
15.0	21.20	31.26	40.12	67.42	65.12	62.47	68.16	85.79	87.06
30.0	20.11	26.33	31.48	51.08	63.64	73.44	76.64	80.76	104.73
45.0	21.59	26.33	31.85	46.28	57.57	63.58	74.11	98.25	103.26
60.0	22.37	26.54	35.94	50.80	60.63	63.67	77.93	93.28	105.00
75.0	22.49	25.43	35.01	56.09	63.69	76.29	91.06	100.01	98.76
90.0	18.10	22.02	34.69	52.62	51.62	63.73	79.76	95.29	88.33
105.0	17.61	20.87	34.15	43.35	48.31	51.95	70.09	92.40	88.05
120.0	14.78	20.75	30.27	35.16	40.60	46.49	48.48	67.44	91.23
135.0	13.59	22.35	37.44	39.78	50.30	66.35	80.97	99.25	97.06
150.0	19.70	44.19	56.05	63.25	64.36	72.12	87.08	99.01	87.97
165.0	29.51	50.16	67.67	63.26	61.67	64.67	75.30	86.43	79.39
180.0	34.07	47.51	50.28	52.52	56.13	63.21	76.31	84.99	77.60
195.0	32.45	37.52	44.89	51.93	65.72	67.34	77.97	81.81	82.67
210.0	33.99	42.77	47.94	58.84	72.45	74.36	72.47	83.29	81.66
225.0	37.44	41.68	43.70	56.67	66.64	70.48	76.78	81.23	90.55
240.0	44.04	48.74	57.00	59.19	63.91	78.54	76.55	75.08	83.74
255.0	45.21	51.70	52.64	61.86	64.94	76.68	74.40	72.80	82.12
270.0	40.08	56.69	65.84	70.03	67.32	65.37	76.10	91.62	92.89
285.0	30.29	53.73	72.82	69.76	66.91	72.96	93.73	102.68	97.51
300.0	34.52	50.63	66.95	72.98	74.58	76.97	81.01	91.72	108.39
315.0	36.59	40.99	46.73	60.59	64.57	65.98	73.78	89.18	89.53
330.0	30.68	37.21	50.35	62.06	68.22	72.16	84.39	93.55	88.83
345.0	29.92	36.37	44.39	59.15	70.79	60.24	57.18	70.42	87.29
360.0	28.06	30.44	41.31	65.16	64.67	62.27	75.57	90.31	93.81

## 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	86.55	89.42	88.56	93.94	95.85	100.16	102.09	115.98	122.06
15.0	87.82	94.82	95.54	107.20	113.85	132.91	122.36	135.38	144.96
30.0	108.31	96.30	106.07	117.54	114.87	137.53	155.72	139.54	156.50
45.0	118.59	127.88	137.41	131.74	138.97	145.88	139.62	146.50	157.97
60.0	92.42	83.16	87.64	123.35	132.03	142.40	146.83	150.17	165.59
75.0	93.47	99.99	92.48	97.43	123.55	128.97	132.13	139.83	134.97
90.0	86.16	97.61	103.67	123.96	114.52	109.21	120.45	122.75	118.67
105.0	80.08	94.74	103.91	111.92	103.19	112.53	109.29	110.38	110.99
120.0	98.78	99.97	93.94	104.10	123.80	121.44	113.23	124.85	145.37
135.0	102.93	116.56	128.52	138.45	154.85	144.80	118.87	150.03	160.70
150.0	92.30	101.68	113.35	111.24	109.27	109.97	125.18	115.57	128.75
165.0	83.14	87.86	98.51	102.99	96.98	97.10	96.54	102.00	114.13
180.0	83.06	95.93	108.41	123.82	101.98	110.58	115.88	118.77	123.49
195.0	91.72	117.62	124.09	126.71	123.90	124.44	136.87	157.46	158.81
210.0	95.54	108.72	113.05	117.38	125.13	128.23	132.97	149.23	167.37
225.0	93.79	109.41	108.43	100.22	113.37	135.79	138.37	135.93	140.94
240.0	88.34	107.65	123.33	115.78	126.41	127.66	148.06	149.80	146.46
255.0	88.01	95.01	121.11	121.21	118.71	133.39	136.07	143.44	153.01
270.0	91.43	95.83	90.96	94.35	102.91	115.14	124.05	130.29	136.44
285.0	104.22	121.62	133.22	141.90	133.51	125.93	129.69	159.10	147.81
300.0	103.81	107.30	126.24	132.20	145.52	163.21	144.61	141.21	155.86
315.0	101.63	102.89	115.26	128.32	125.34	118.12	131.35	141.04	146.66
330.0	95.70	104.28	106.11	101.80	107.69	120.02	142.56	161.38	178.46
345.0	89.18	103.95	109.54	106.72	102.50	135.03	135.21	121.24	118.98
360.0	86.55	89.42	88.56	93.94	95.85	100.16	102.09	115.98	122.06
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	127.97	116.78	154.38	146.60	168.11	171.25	200.58	189.52	178.29
15.0	134.60	142.40	145.62	157.93	160.99	169.57	172.71	191.45	180.90
30.0	155.72	171.27	160.95	143.63	179.91	187.86	188.18	175.64	170.60
45.0	168.69	178.13	173.35	182.17	191.88	206.64	188.66	186.46	178.74
60.0	157.66	158.63	165.34	171.99	184.41	180.90	180.32	172.87	193.85
75.0	124.13	136.22	133.00	155.86	146.11	170.92	173.04	190.81	166.55
90.0	110.75	131.83	148.20	152.88	160.31	165.20	170.04	175.64	164.85
105.0	123.31	119.51	126.41	141.86	184.96	180.49	173.59	168.89	197.95
120.0	138.09	123.00	154.61	147.30	138.17	145.21	143.67	153.50	143.65
135.0	156.35	162.98	157.99	176.05	186.54	168.73	163.08	171.37	185.39
150.0	150.79	157.40	154.38	145.39	157.42	170.53	158.65	169.14	180.16
165.0	115.75	118.46	127.54	137.67	150.24	141.53	148.24	160.97	166.68
180.0	123.80	121.46	138.23	148.98	172.30	141.14	155.96	175.21	182.13
195.0	156.23	154.92	155.22	153.85	166.22	171.25	182.17	176.42	171.76
210.0	142.23	147.42	157.30	188.22	180.84	185.76	209.32	184.51	178.13
225.0	165.07	167.31	153.21	158.63	190.28	183.79	186.89	173.72	171.23
240.0	153.72	160.00	146.50	145.19	172.16	207.91	179.52	166.86	152.55
255.0	154.69	128.83	149.27	167.91	155.39	153.75	144.35	185.95	175.91
270.0	125.85	138.95	133.49	143.73	160.44	175.83	180.98	173.10	192.10
285.0	132.93	138.72	168.99	180.00	180.84	191.92	204.79	198.88	177.43
300.0	168.62	168.62	166.20	166.65	179.05	181.90	178.35	184.70	171.19
315.0	162.08	167.58	175.42	171.42	190.11	202.20	179.71	200.38	168.44
330.0	162.30	157.85	170.02	185.29	179.13	187.73	200.31	216.45	173.26
345.0	124.17	120.87	131.02	155.61	161.28	163.45	170.49	190.59	172.20
360.0	127.97	116.78	154.38	146.60	168.11	171.25	200.58	189.52	178.29

## 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	174.82	162.26	166.33	153.81	141.74	137.94	138.70	110.56	117.64
15.0	157.67	143.44	147.59	155.45	139.32	142.46	134.72	125.44	116.76
30.0	173.98	168.99	159.37	153.38	151.08	162.47	173.49	127.25	116.49
45.0	200.81	181.97	170.00	185.19	164.73	165.01	146.58	140.36	152.02
60.0	188.96	170.60	166.84	166.70	155.08	146.79	156.72	143.24	143.44
75.0	169.90	155.18	143.01	133.28	131.05	128.62	122.01	114.40	122.32
90.0	160.64	164.46	133.51	124.95	128.36	140.69	126.08	124.44	118.79
105.0	195.55	182.44	165.77	154.89	145.45	135.72	142.15	131.05	131.72
120.0	144.59	148.59	135.19	132.99	115.37	139.36	137.00	139.97	121.42
135.0	186.44	162.36	158.53	168.54	159.20	145.95	157.56	151.45	148.49
150.0	174.56	152.57	152.68	142.70	162.10	146.79	141.82	137.74	139.07
165.0	144.86	125.89	129.51	135.95	132.26	130.55	129.71	115.08	109.02
180.0	160.62	151.36	163.53	148.16	147.12	134.86	118.59	109.56	94.72
195.0	163.27	165.92	157.13	139.21	134.02	148.80	153.01	130.63	132.50
210.0	183.18	170.31	166.20	186.40	161.59	159.39	147.28	148.74	133.88
225.0	177.39	164.50	153.17	154.46	150.69	141.94	144.39	139.60	128.42
240.0	145.41	139.56	136.24	146.19	139.42	130.35	132.56	118.40	115.00
255.0	144.61	135.11	140.57	132.40	107.67	119.43	115.90	118.12	93.30
270.0	162.88	154.50	142.44	140.43	126.55	115.39	109.37	105.19	100.20
285.0	150.79	144.37	159.57	162.78	165.94	164.19	148.24	152.31	138.45
300.0	167.48	161.09	156.49	171.97	164.15	150.89	149.56	145.10	134.92
315.0	160.17	176.83	161.13	169.24	162.20	148.53	157.48	149.93	139.58
330.0	161.71	175.44	160.80	161.95	164.99	149.00	136.71	133.36	152.66
345.0	147.48	157.91	161.79	132.52	123.16	115.18	113.93	105.78	114.54
360.0	174.82	162.26	166.33	153.81	141.74	137.94	138.70	110.56	117.64
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	120.29	108.02	103.69	98.39	109.97	114.98	99.68	95.52	93.88
15.0	111.73	104.32	112.84	122.04	118.59	100.55	101.27	96.20	84.27
30.0	118.65	125.36	128.91	111.24	113.83	114.56	98.58	102.87	107.32
45.0	135.97	133.18	128.30	131.11	106.79	109.17	114.89	91.60	92.62
60.0	141.59	133.14	120.68	123.76	116.86	98.13	112.45	106.13	99.38
75.0	107.36	113.95	103.83	104.80	82.30	86.43	98.49	97.92	82.26
90.0	118.36	110.50	104.36	106.40	100.51	81.95	90.08	95.48	92.34
105.0	118.92	140.06	126.06	110.40	101.12	112.72	95.48	98.43	95.72
120.0	129.96	128.89	129.92	122.82	105.31	108.70	107.52	97.37	103.44
135.0	126.57	117.68	123.92	111.88	107.57	110.77	109.74	99.91	84.76
150.0	127.08	125.52	113.91	112.94	116.54	111.81	101.80	80.70	82.65
165.0	104.80	102.74	93.18	86.28	83.90	87.04	81.30	73.84	72.41
180.0	90.84	116.04	105.12	92.95	89.73	88.33	70.42	78.13	79.94
195.0	133.16	126.06	131.29	117.50	106.54	98.97	99.17	102.58	100.88
210.0	133.77	135.97	121.36	115.14	127.10	111.81	111.49	98.19	94.49
225.0	118.53	112.72	119.92	125.34	115.51	100.61	96.83	92.89	89.96
240.0	121.03	119.94	113.85	120.21	116.45	104.92	95.60	88.23	85.71
255.0	88.15	96.87	94.94	91.89	94.96	82.30	88.03	84.68	88.17
270.0	101.66	97.69	93.03	82.69	85.61	84.83	85.81	80.33	74.11
285.0	116.99	114.20	127.74	118.73	117.44	96.85	84.17	85.71	85.71
300.0	123.02	123.92	122.04	115.63	109.88	99.66	99.32	93.51	95.56
315.0	135.31	141.31	123.47	125.13	129.07	123.84	106.35	100.18	96.52
330.0	136.89	138.48	130.74	122.47	122.16	112.94	108.12	96.95	91.39
345.0	102.48	110.66	92.87	98.37	93.34	89.32	85.81	89.81	78.75
360.0	120.29	108.02	103.69	98.39	109.97	114.98	99.68	95.52	93.88

## Intensity data(cd)

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C/ $\gamma$ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	95.29	86.47	80.21	75.45	81.77	74.46	73.46	59.29	54.47
15.0	79.51	84.50	90.29	80.60	73.52	65.59	63.50	59.77	61.59
30.0	98.52	95.72	90.39	83.33	65.92	65.23	72.49	55.00	57.69
45.0	92.44	82.44	80.54	72.84	76.08	75.65	68.34	64.06	55.29
60.0	90.12	89.38	81.09	76.96	73.99	63.40	65.33	58.88	56.56
75.0	89.46	88.48	87.29	74.01	76.58	64.88	65.53	54.66	54.12
90.0	90.84	74.32	76.18	77.46	62.06	67.79	51.31	50.41	48.54
105.0	88.91	78.44	91.41	81.25	82.38	67.69	66.13	62.13	57.08
120.0	87.45	89.50	86.24	82.67	72.02	60.87	51.12	55.83	51.76
135.0	86.71	83.76	85.75	80.08	74.71	72.27	69.51	56.50	49.61
150.0	73.07	73.85	68.41	73.93	67.46	62.93	65.80	55.99	42.24
165.0	77.17	65.02	70.17	68.32	60.26	61.12	61.31	65.53	60.98
180.0	80.99	67.57	67.56	75.47	63.15	58.76	58.06	50.24	45.34
195.0	82.92	85.26	79.98	63.42	62.04	65.57	63.05	55.48	46.86
210.0	92.32	85.98	70.83	69.04	63.91	66.31	57.14	52.87	56.46
225.0	83.33	76.88	81.83	76.66	71.12	61.41	59.07	58.33	49.44
240.0	89.30	84.76	79.00	69.35	74.62	60.75	55.62	55.03	49.36
255.0	73.27	76.02	72.66	65.35	63.46	66.78	61.90	59.60	51.43
270.0	70.32	71.36	72.04	67.38	63.73	65.72	63.48	55.76	52.91
285.0	79.26	75.32	71.85	66.40	67.07	68.51	69.08	60.14	54.24
300.0	80.10	80.88	76.49	81.71	67.05	66.58	65.39	68.67	65.64
315.0	85.75	77.31	86.22	83.74	77.11	65.86	66.68	58.74	57.18
330.0	83.08	91.07	91.76	86.36	74.71	70.58	70.48	61.92	53.51
345.0	70.40	71.32	69.76	66.25	66.01	58.60	56.61	54.24	43.10
360.0	95.29	86.47	80.21	75.45	81.77	74.46	73.46	59.29	54.47
C/ $\gamma$ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	60.89	55.41	51.19	51.45	45.36	38.75	38.91	33.15	27.75
15.0	44.00	43.86	45.89	40.29	33.11	29.33	29.47	22.12	21.67
30.0	50.30	46.69	47.25	39.51	33.56	26.21	24.63	19.74	15.45
45.0	53.07	42.11	46.77	35.67	31.07	29.41	27.03	24.16	19.87
60.0	45.26	48.29	50.02	42.50	35.38	34.46	25.72	22.33	18.90
75.0	51.82	49.26	45.60	39.51	44.78	39.45	34.21	28.86	26.04
90.0	51.84	47.64	51.60	41.89	38.89	32.74	33.11	30.11	24.75
105.0	47.51	41.89	43.51	37.66	34.15	31.14	30.25	26.56	19.00
120.0	55.41	44.72	37.00	33.82	35.40	22.74	25.18	26.46	17.20
135.0	50.98	56.58	41.83	38.03	35.20	30.66	28.86	25.70	17.65
150.0	43.74	43.14	41.95	37.72	27.99	36.98	32.10	23.48	18.74
165.0	48.46	43.18	37.64	35.20	33.89	31.89	28.40	22.78	21.39
180.0	48.44	48.52	38.87	33.13	30.91	37.27	32.74	24.92	23.71
195.0	52.95	37.64	34.40	34.77	28.86	25.72	22.70	20.54	18.06
210.0	53.85	43.96	48.76	38.61	32.16	35.83	28.47	22.35	17.81
225.0	53.38	47.62	37.93	38.91	34.21	29.68	26.62	21.88	16.26
240.0	47.21	42.11	40.27	36.98	32.10	25.24	23.68	17.40	15.11
255.0	50.20	44.41	38.65	38.34	32.76	34.11	34.97	25.33	21.14
270.0	48.25	43.53	37.58	35.51	39.73	33.50	29.62	26.80	23.11
285.0	49.89	44.45	45.03	31.87	32.88	32.51	29.78	27.87	23.46
300.0	57.39	51.23	47.02	40.45	35.73	38.79	28.34	27.69	20.03
315.0	53.67	49.79	44.19	32.28	28.94	29.72	28.90	26.48	22.68
330.0	57.16	54.27	42.85	39.47	39.34	34.44	26.11	20.73	21.24
345.0	42.94	41.46	43.29	33.86	37.29	34.27	30.05	28.41	22.97
360.0	60.89	55.41	51.19	51.45	45.36	38.75	38.91	33.15	27.75



## Intensity data(cd)

C/ $\gamma$ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.55	13.85	8.07	6.40	5.71	5.25	4.49	3.94	3.63
15.0	15.52	16.71	9.61	6.28	5.42	5.25	4.72	4.00	3.78
30.0	17.03	12.40	8.76	6.32	5.85	5.62	4.64	4.19	3.92
45.0	14.61	10.38	8.81	6.61	5.87	5.42	4.86	4.15	3.94
60.0	17.10	10.59	8.50	6.34	5.87	5.36	4.66	4.37	3.94
75.0	19.01	15.76	8.50	6.75	6.14	5.52	4.80	4.45	4.04
90.0	19.01	14.22	11.08	6.65	6.10	5.29	4.62	4.27	3.74
105.0	18.92	17.53	9.52	6.22	5.89	4.84	4.45	4.11	3.49
120.0	14.72	11.17	9.91	7.00	5.58	5.05	4.39	3.98	3.57
135.0	13.26	15.13	8.21	6.24	5.73	4.70	4.19	3.76	3.35
150.0	16.69	11.02	7.92	6.34	5.58	4.99	4.60	3.96	3.61
165.0	19.54	15.06	7.64	6.59	5.97	4.90	4.27	3.76	3.33
180.0	20.24	14.78	8.54	6.59	5.60	4.82	4.25	3.67	3.35
195.0	14.84	10.96	8.46	6.51	5.27	4.97	4.11	3.76	3.57
210.0	13.09	11.51	8.80	6.18	5.25	4.82	4.29	3.88	3.59
225.0	15.29	9.03	6.57	5.87	5.09	4.50	4.11	3.76	3.43
240.0	13.28	12.93	6.83	5.79	5.13	4.52	4.11	3.65	3.37
255.0	19.25	15.70	6.77	6.10	5.52	4.86	4.35	3.80	3.51
270.0	14.45	10.14	6.85	6.10	5.60	4.70	4.37	3.74	3.32
285.0	19.64	14.37	7.51	5.66	5.29	4.90	4.25	3.96	3.47
300.0	14.26	12.77	7.84	5.95	5.50	4.82	4.47	4.10	3.69
315.0	18.27	14.12	7.51	6.32	5.66	5.03	4.41	4.06	3.63
330.0	15.58	16.89	7.06	5.95	5.46	4.90	4.50	4.00	3.65
345.0	19.60	17.73	7.64	6.36	5.56	5.17	4.74	3.96	3.72
360.0	18.55	13.85	8.07	6.40	5.71	5.25	4.49	3.94	3.63
C/ $\gamma$ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.28	3.00	2.81	2.52	2.28	2.09	1.87	1.62	1.50
15.0	3.37	3.14	2.96	2.65	2.40	2.24	1.97	1.76	1.66
30.0	3.51	3.24	3.10	2.83	2.52	2.36	2.15	1.89	1.79
45.0	3.63	3.24	3.04	2.79	2.46	2.32	2.09	1.87	1.74
60.0	3.53	3.22	3.04	2.71	2.48	2.32	2.03	1.91	1.74
75.0	3.51	3.30	3.02	2.71	2.54	2.30	2.03	1.87	1.70
90.0	3.39	3.18	2.83	2.59	2.44	2.13	1.91	1.79	1.58
105.0	3.14	2.98	2.63	2.42	2.28	2.05	1.79	1.68	1.50
120.0	3.37	3.06	2.85	2.67	2.40	2.20	2.07	1.83	1.70
135.0	3.14	2.89	2.63	2.44	2.20	1.95	1.81	1.60	1.44
150.0	3.35	3.06	2.83	2.61	2.40	2.13	1.95	1.76	1.60
165.0	3.10	2.83	2.57	2.38	2.16	1.93	1.77	1.56	1.42
180.0	3.16	2.83	2.67	2.48	2.16	1.91	1.79	1.62	1.42
195.0	3.22	2.98	2.83	2.55	2.28	2.15	1.89	1.70	1.62
210.0	3.39	3.12	2.94	2.71	2.44	2.26	2.05	1.85	1.72
225.0	3.26	3.00	2.71	2.55	2.30	2.07	1.93	1.72	1.56
240.0	3.22	2.98	2.69	2.55	2.32	2.01	1.91	1.74	1.50
255.0	3.28	2.98	2.77	2.59	2.34	2.11	1.93	1.72	1.56
270.0	3.12	2.89	2.59	2.40	2.26	1.93	1.74	1.64	1.42
285.0	3.10	2.96	2.75	2.44	2.28	2.09	1.85	1.72	1.54
300.0	3.37	3.18	2.96	2.71	2.52	2.24	1.99	1.87	1.70
315.0	3.32	3.10	2.87	2.59	2.36	2.15	1.91	1.77	1.56
330.0	3.30	3.08	2.87	2.61	2.40	2.15	1.91	1.74	1.58
345.0	3.41	3.22	2.91	2.67	2.52	2.20	1.97	1.77	1.62
360.0	3.28	3.00	2.81	2.52	2.28	2.09	1.87	1.62	1.50

## Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	1.40	1.27	1.21	1.15	1.11	1.07	1.03	0.96	0.96
15.0	1.50	1.40	1.35	1.27	1.21	1.19	1.13	1.07	1.05
30.0	1.68	1.50	1.48	1.38	1.31	1.29	1.23	1.17	1.13
45.0	1.58	1.50	1.42	1.37	1.31	1.23	1.19	1.15	1.13
60.0	1.58	1.52	1.42	1.35	1.29	1.21	1.19	1.19	1.11
75.0	1.58	1.46	1.40	1.31	1.25	1.21	1.17	1.11	1.11
90.0	1.44	1.40	1.29	1.23	1.19	1.13	1.07	1.03	1.01
105.0	1.35	1.33	1.23	1.13	1.13	1.07	0.99	0.99	0.96
120.0	1.60	1.52	1.42	1.38	1.31	1.23	1.21	1.17	1.11
135.0	1.38	1.25	1.21	1.15	1.11	1.05	1.03	0.99	0.99
150.0	1.48	1.40	1.33	1.27	1.21	1.19	1.11	1.09	1.07
165.0	1.35	1.21	1.17	1.13	1.03	1.01	0.98	0.96	0.94
180.0	1.37	1.27	1.19	1.15	1.09	1.01	1.01	1.01	0.98
195.0	1.44	1.37	1.33	1.27	1.19	1.17	1.15	1.07	1.05
210.0	1.60	1.50	1.42	1.35	1.31	1.25	1.21	1.17	1.13
225.0	1.50	1.37	1.29	1.29	1.19	1.15	1.15	1.09	1.05
240.0	1.50	1.40	1.29	1.27	1.23	1.13	1.13	1.07	1.07
255.0	1.48	1.37	1.29	1.25	1.19	1.13	1.09	1.07	1.05
270.0	1.37	1.29	1.21	1.13	1.09	1.05	0.99	0.98	0.98
285.0	1.42	1.37	1.25	1.17	1.17	1.09	1.03	1.03	0.98
300.0	1.56	1.48	1.38	1.35	1.25	1.21	1.17	1.13	1.09
315.0	1.44	1.40	1.27	1.23	1.17	1.11	1.05	1.05	1.01
330.0	1.46	1.35	1.27	1.21	1.13	1.11	1.07	1.01	0.99
345.0	1.48	1.40	1.29	1.25	1.17	1.13	1.09	1.05	0.99
360.0	1.40	1.27	1.21	1.15	1.11	1.07	1.03	0.96	0.96
C/ $\gamma(^{\circ})$	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.94	0.90	0.88	0.90	0.88	0.84	0.86	0.86	0.84
15.0	1.03	0.99	0.99	0.99	0.94	0.98	0.98	0.98	0.99
30.0	1.11	1.09	1.09	1.05	0.98	1.05	1.03	1.05	1.05
45.0	1.11	1.09	1.05	1.05	1.03	0.99	1.01	1.03	1.01
60.0	1.09	1.07	1.05	1.01	1.03	0.99	0.99	1.05	1.01
75.0	1.05	1.01	1.03	0.98	0.98	0.99	0.98	0.99	0.98
90.0	0.98	0.96	0.98	0.94	0.92	0.92	0.96	0.92	0.94
105.0	0.90	0.90	0.90	0.90	0.90	0.90	0.88	1.07	0.92
120.0	1.11	1.09	1.05	1.03	1.03	0.99	1.03	1.01	1.01
135.0	0.98	0.96	0.94	0.94	0.94	0.92	0.94	0.96	0.94
150.0	1.07	1.03	0.99	1.05	0.99	0.99	1.01	1.03	1.01
165.0	0.92	0.88	0.88	0.88	0.88	0.86	0.88	0.90	0.90
180.0	0.96	0.94	0.90	0.94	0.92	0.92	0.92	0.96	0.94
195.0	1.03	0.98	0.98	0.99	0.96	0.96	0.96	0.92	0.96
210.0	1.13	1.07	1.07	1.03	0.99	1.03	0.99	0.98	0.99
225.0	1.07	1.01	0.99	0.99	0.98	0.96	0.98	0.98	0.98
240.0	1.05	1.03	1.01	0.98	0.98	0.96	0.96	0.98	0.98
255.0	1.01	0.98	0.98	0.94	0.94	0.92	0.92	0.94	0.92
270.0	0.92	0.92	0.90	0.86	0.86	0.86	0.86	0.84	0.86
285.0	0.94	0.94	0.88	0.88	0.90	0.90	0.86	0.88	0.88
300.0	1.05	1.01	0.99	0.98	0.94	0.96	0.92	0.92	0.94
315.0	0.98	0.96	0.94	0.90	0.90	0.90	0.88	0.88	0.90
330.0	0.98	0.92	0.92	0.90	0.86	0.90	0.88	0.86	0.84
345.0	0.98	0.98	0.92	0.90	0.90	0.86	0.86	0.86	0.86
360.0	0.94	0.90	0.88	0.90	0.88	0.84	0.86	0.86	0.84

## Intensity data(cd)

C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	0.86	0.86	0.88	0.92	0.94	0.98	1.01	1.05	1.09
15.0	0.99	0.98	0.99	1.03	1.05	1.05	1.09	1.11	1.13
30.0	1.03	1.01	1.05	1.03	1.07	1.11	1.11	1.15	1.21
45.0	1.01	1.07	1.05	1.05	1.11	1.09	1.11	1.17	1.17
60.0	1.03	0.99	1.03	1.01	1.01	1.01	1.01	1.07	1.09
75.0	0.99	0.99	0.99	0.96	0.98	0.96	0.96	1.01	1.03
90.0	0.98	0.98	0.98	0.99	0.98	0.96	0.94	0.98	1.01
105.0	0.90	0.96	0.84	0.92	0.94	0.92	0.94	0.96	0.99
120.0	1.03	1.01	0.99	0.96	0.99	0.99	1.01	1.05	1.09
135.0	0.99	1.01	0.99	1.03	1.05	1.05	1.09	1.11	1.15
150.0	1.03	1.01	1.03	1.09	1.11	1.13	1.15	1.19	1.21
165.0	0.92	0.94	0.94	0.98	1.01	1.03	1.09	1.13	1.15
180.0	0.96	0.99	0.99	1.01	1.05	1.07	1.11	1.15	1.19
195.0	0.98	0.98	0.98	1.03	1.05	1.07	1.11	1.15	1.23
210.0	1.01	1.01	1.03	1.05	1.07	1.11	1.25	1.17	1.21
225.0	1.01	1.03	1.03	1.07	1.15	1.09	1.15	1.19	1.21
240.0	0.96	0.98	0.98	0.98	0.99	1.01	1.01	1.03	1.09
255.0	0.92	0.92	0.92	0.94	0.90	0.92	0.96	0.98	1.01
270.0	0.88	0.86	0.90	0.88	0.88	0.90	0.88	0.90	0.96
285.0	0.86	0.90	0.90	0.84	0.86	0.80	0.88	0.94	0.98
300.0	0.92	0.92	0.92	0.92	0.90	0.94	0.98	0.96	1.01
315.0	0.88	0.92	0.90	0.96	0.96	0.98	1.01	1.05	1.07
330.0	0.88	0.88	0.92	0.94	0.96	0.99	1.01	1.01	1.09
345.0	0.86	0.88	0.86	0.88	0.94	0.94	0.98	1.03	1.03
360.0	0.86	0.86	0.88	0.92	0.94	0.98	1.01	1.05	1.09
C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	1.11	1.15	1.17	1.23	1.27	1.27	1.33	1.38	1.38
15.0	1.19	1.25	1.23	1.33	1.37	1.33	1.42	1.44	1.46
30.0	1.23	1.25	1.31	1.35	1.35	1.40	1.44	1.46	1.52
45.0	1.17	1.29	1.27	1.31	1.37	1.40	1.42	1.46	1.48
60.0	1.13	1.19	1.21	1.23	1.27	1.31	1.25	1.27	1.29
75.0	1.07	1.13	1.17	1.19	1.25	1.23	1.19	1.23	1.21
90.0	1.07	1.09	1.13	1.19	1.21	1.23	1.19	1.17	1.19
105.0	1.05	1.11	1.15	1.15	1.19	1.15	1.13	1.11	1.11
120.0	1.11	1.15	1.19	1.17	1.15	1.15	1.13	1.15	1.11
135.0	1.15	1.25	1.27	1.29	1.35	1.38	1.37	1.42	1.42
150.0	1.27	1.31	1.33	1.38	1.40	1.42	1.48	1.50	1.54
165.0	1.21	1.25	1.31	1.33	1.37	1.44	1.44	1.50	1.52
180.0	1.21	1.27	1.35	1.35	1.38	1.46	1.46	1.52	1.58
195.0	1.25	1.29	1.31	1.35	1.38	1.37	1.42	1.46	1.46
210.0	1.23	1.29	1.31	1.35	1.38	1.42	1.44	1.46	1.48
225.0	1.25	1.29	1.33	1.37	1.40	1.42	1.44	1.46	1.48
240.0	1.11	1.13	1.19	1.13	1.11	1.11	1.09	1.11	1.11
255.0	1.07	1.09	1.13	1.17	1.13	1.09	1.09	1.07	1.07
270.0	1.01	1.03	1.09	1.11	1.13	1.09	1.03	1.03	1.05
285.0	0.98	1.03	1.05	1.07	1.11	1.01	0.96	0.99	0.98
300.0	1.05	1.05	1.07	1.15	1.09	1.11	1.11	1.07	1.09
315.0	1.09	1.15	1.17	1.23	1.25	1.27	1.29	1.35	1.35
330.0	1.13	1.11	1.19	1.21	1.23	1.25	1.33	1.31	1.33
345.0	1.09	1.13	1.17	1.21	1.21	1.27	1.29	1.31	1.35
360.0	1.11	1.15	1.17	1.23	1.27	1.27	1.33	1.38	1.38

## Intensity data(cd)

C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	1.40	1.44	1.46	1.44	1.50	1.50	1.52	1.52	1.52
15.0	1.52	1.52	1.52	1.56	1.58	1.56	1.56	1.58	1.58
30.0	1.56	1.56	1.60	1.62	1.58	1.60	1.64	1.64	1.60
45.0	1.54	1.54	1.56	1.54	1.50	1.52	1.44	1.44	1.44
60.0	1.25	1.23	1.25	1.23	1.29	1.31	1.33	1.37	1.38
75.0	1.17	1.15	1.13	1.19	1.25	1.37	1.44	1.42	1.42
90.0	1.19	1.13	1.09	1.11	1.13	1.25	1.38	1.44	1.48
105.0	1.05	1.05	1.05	1.09	1.17	1.21	1.29	1.33	1.33
120.0	1.13	1.17	1.25	1.31	1.37	1.37	1.40	1.42	1.42
135.0	1.44	1.42	1.38	1.35	1.35	1.35	1.31	1.31	1.33
150.0	1.58	1.60	1.62	1.62	1.62	1.60	1.56	1.52	1.48
165.0	1.54	1.56	1.58	1.56	1.62	1.62	1.56	1.56	1.58
180.0	1.58	1.60	1.60	1.66	1.66	1.70	1.68	1.68	1.68
195.0	1.48	1.52	1.52	1.54	1.56	1.54	1.58	1.62	1.56
210.0	1.52	1.52	1.54	1.54	1.56	1.56	1.52	1.48	1.42
225.0	1.46	1.40	1.38	1.37	1.35	1.35	1.38	1.37	1.33
240.0	1.07	1.13	1.23	1.23	1.27	1.33	1.33	1.38	1.40
255.0	1.05	1.01	1.01	1.09	1.15	1.23	1.29	1.31	1.33
270.0	1.09	1.01	0.98	0.96	1.07	1.17	1.29	1.37	1.42
285.0	0.94	0.96	0.92	0.99	1.09	1.17	1.23	1.25	1.25
300.0	1.09	1.05	1.05	1.15	1.11	1.21	1.23	1.21	1.23
315.0	1.35	1.37	1.38	1.37	1.40	1.33	1.29	1.33	1.31
330.0	1.38	1.38	1.38	1.42	1.40	1.40	1.48	1.44	1.44
345.0	1.37	1.38	1.42	1.42	1.44	1.48	1.48	1.48	1.50
360.0	1.40	1.44	1.46	1.44	1.50	1.50	1.52	1.52	1.52
C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	1.58	1.56	1.56	1.56	1.52	1.48	1.42	1.37	1.35
15.0	1.58	1.60	1.60	1.58	1.52	1.48	1.42	1.37	1.37
30.0	1.60	1.58	1.52	1.50	1.48	1.42	1.38	1.35	1.25
45.0	1.44	1.38	1.37	1.35	1.33	1.33	1.35	1.31	1.33
60.0	1.42	1.46	1.46	1.48	1.50	1.50	1.52	1.52	1.48
75.0	1.44	1.42	1.44	1.44	1.42	1.42	1.42	1.38	1.37
90.0	1.54	1.54	1.54	1.60	1.52	1.52	1.52	1.48	1.46
105.0	1.35	1.40	1.40	1.40	1.42	1.38	1.35	1.35	1.29
120.0	1.46	1.48	1.50	1.48	1.46	1.48	1.44	1.44	1.40
135.0	1.29	1.31	1.37	1.38	1.38	1.40	1.38	1.38	1.35
150.0	1.44	1.38	1.38	1.35	1.35	1.31	1.27	1.23	1.21
165.0	1.54	1.52	1.50	1.42	1.40	1.38	1.33	1.25	1.19
180.0	1.68	1.64	1.60	1.56	1.50	1.44	1.40	1.37	1.33
195.0	1.58	1.54	1.46	1.40	1.40	1.35	1.29	1.25	1.21
210.0	1.42	1.37	1.37	1.38	1.33	1.33	1.27	1.21	1.23
225.0	1.31	1.33	1.37	1.37	1.38	1.40	1.38	1.35	1.33
240.0	1.44	1.44	1.44	1.46	1.42	1.42	1.40	1.38	1.35
255.0	1.37	1.37	1.37	1.37	1.37	1.33	1.33	1.29	1.27
270.0	1.44	1.46	1.48	1.46	1.48	1.44	1.40	1.40	1.37
285.0	1.27	1.27	1.25	1.25	1.25	1.25	1.21	1.21	1.21
300.0	1.25	1.25	1.29	1.31	1.29	1.31	1.33	1.31	1.33
315.0	1.27	1.25	1.23	1.21	1.23	1.21	1.21	1.19	1.21
330.0	1.46	1.40	1.38	1.35	1.31	1.27	1.23	1.17	1.07
345.0	1.54	1.54	1.52	1.52	1.46	1.42	1.38	1.31	1.29
360.0	1.58	1.56	1.56	1.56	1.52	1.48	1.42	1.37	1.35

## Intensity data(cd)

C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	1.31	1.21	1.15	1.07	1.01	0.94	0.92	0.86	0.84
15.0	1.29	1.21	1.17	1.07	1.03	1.03	0.96	0.92	0.90
30.0	1.21	1.15	1.09	1.09	1.09	1.07	1.03	1.03	0.99
45.0	1.29	1.27	1.29	1.25	1.25	1.25	1.25	1.21	1.19
60.0	1.48	1.48	1.44	1.40	1.35	1.35	1.29	1.25	1.15
75.0	1.38	1.35	1.31	1.29	1.27	1.23	1.21	1.15	1.13
90.0	1.44	1.42	1.38	1.38	1.37	1.31	1.29	1.23	1.19
105.0	1.27	1.27	1.23	1.23	1.21	1.21	1.21	1.17	1.13
120.0	1.37	1.35	1.31	1.27	1.21	1.19	1.19	1.15	1.09
135.0	1.31	1.31	1.29	1.29	1.29	1.31	1.33	1.23	1.17
150.0	1.19	1.15	1.15	1.13	1.13	1.01	1.03	1.03	1.07
165.0	1.15	1.11	1.07	1.05	1.03	1.01	1.01	0.92	0.84
180.0	1.25	1.17	1.09	1.07	1.05	1.03	1.01	0.98	0.90
195.0	1.17	1.09	1.11	1.09	1.05	1.05	1.01	0.92	0.90
210.0	1.23	1.19	1.17	1.17	1.11	0.99	1.11	1.11	1.09
225.0	1.29	1.27	1.29	1.27	1.29	1.29	1.29	1.21	1.19
240.0	1.35	1.31	1.25	1.21	1.17	1.11	1.09	1.05	1.03
255.0	1.21	1.21	1.19	1.15	1.15	1.13	1.05	1.05	1.03
270.0	1.35	1.31	1.31	1.27	1.25	1.25	1.21	1.15	1.13
285.0	1.19	1.15	1.13	1.15	1.09	1.07	1.03	1.03	0.98
300.0	1.31	1.29	1.29	1.25	1.23	1.17	1.13	1.09	1.05
315.0	1.17	1.19	1.19	1.13	1.13	1.13	1.11	1.15	1.15
330.0	1.03	1.03	0.99	0.98	0.98	0.96	0.94	0.94	0.92
345.0	1.19	1.11	1.03	0.99	0.96	0.92	0.90	0.84	0.82
360.0	1.31	1.21	1.15	1.07	1.01	0.94	0.92	0.86	0.84
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	0.82	0.76	0.76	0.72	0.74	0.76	0.78	0.78	0.78
15.0	0.86	0.82	0.78	0.76	0.76	0.78	0.78	0.80	0.80
30.0	0.94	0.98	0.94	0.94	0.98	0.94	0.90	0.90	0.82
45.0	1.17	1.13	1.09	1.07	1.01	0.96	0.94	0.86	0.82
60.0	1.11	1.11	1.05	0.98	0.99	0.94	0.86	0.88	0.84
75.0	1.09	1.05	1.01	0.98	0.98	0.92	0.90	0.88	0.80
90.0	1.15	1.11	1.07	1.03	0.99	0.98	0.94	0.90	0.84
105.0	1.13	1.07	1.01	0.99	0.98	0.94	0.88	0.86	0.82
120.0	1.09	1.05	0.99	0.98	0.96	0.88	0.88	0.84	0.80
135.0	1.17	1.11	1.05	1.03	0.98	0.94	0.92	0.86	0.82
150.0	1.09	1.13	1.11	1.07	1.03	0.96	0.92	0.90	0.86
165.0	0.90	0.88	0.94	0.99	0.98	0.96	0.94	0.86	0.82
180.0	0.86	0.86	0.90	0.92	0.96	0.94	0.90	0.86	0.86
195.0	0.92	0.90	0.92	0.98	0.99	0.96	0.94	0.90	0.86
210.0	1.17	1.17	1.17	1.13	1.07	0.99	0.99	0.96	0.90
225.0	1.17	1.09	1.05	1.05	0.96	0.94	0.94	0.84	0.82
240.0	1.03	1.01	0.96	0.94	0.92	0.86	0.86	0.82	0.80
255.0	0.99	0.98	0.96	0.94	0.90	0.90	0.86	0.82	0.80
270.0	1.09	1.05	1.01	0.98	0.98	0.94	0.90	0.86	0.84
285.0	0.96	0.94	0.90	0.88	0.86	0.84	0.80	0.78	0.76
300.0	1.01	0.98	0.96	0.92	0.90	0.84	0.84	0.76	0.76
315.0	1.11	1.11	1.05	0.99	0.99	0.94	0.90	0.86	0.82
330.0	0.86	0.90	0.92	0.90	0.94	0.94	0.88	0.88	0.86
345.0	0.76	0.78	0.74	0.72	0.76	0.74	0.78	0.78	0.74
360.0	0.82	0.76	0.76	0.72	0.74	0.76	0.78	0.78	0.78

## Intensity data(cd)

C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	0.74	0.72	0.74	0.43	0.55	0.02	0.06	0.04	0.16
15.0	0.74	0.74	0.70	0.68	0.68	0.66	0.62	0.64	0.60
30.0	0.78	0.76	0.74	0.72	0.68	0.68	0.64	0.64	0.62
45.0	0.78	0.74	0.74	0.72	0.72	0.68	0.64	0.66	0.62
60.0	0.76	0.78	0.72	0.70	0.72	0.68	0.62	0.64	0.66
75.0	0.78	0.78	0.74	0.72	0.70	0.68	0.68	0.68	0.66
90.0	0.84	0.78	0.76	0.76	0.72	0.70	0.70	0.68	0.64
105.0	0.82	0.76	0.74	0.76	0.74	0.66	0.70	0.68	0.62
120.0	0.80	0.78	0.76	0.76	0.72	0.68	0.66	0.66	0.64
135.0	0.84	0.76	0.74	0.74	0.74	0.68	0.64	0.64	0.59
150.0	0.86	0.80	0.78	0.78	0.70	0.72	0.70	0.66	0.62
165.0	0.84	0.80	0.74	0.76	0.76	0.70	0.70	0.70	0.62
180.0	0.82	0.80	0.80	0.76	0.74	0.72	0.70	0.68	0.64
195.0	0.84	0.82	0.78	0.78	0.76	0.70	0.68	0.68	0.62
210.0	0.88	0.88	0.80	0.80	0.76	0.72	0.68	0.66	0.64
225.0	0.82	0.76	0.72	0.72	0.70	0.64	0.64	0.62	0.59
240.0	0.78	0.76	0.72	0.72	0.66	0.66	0.66	0.62	0.62
255.0	0.80	0.78	0.76	0.74	0.68	0.68	0.68	0.64	0.60
270.0	0.82	0.82	0.76	0.76	0.70	0.68	0.66	0.60	0.59
285.0	0.74	0.70	0.70	0.66	0.64	0.64	0.64	0.59	0.57
300.0	0.74	0.70	0.68	0.66	0.62	0.62	0.60	0.59	0.59
315.0	0.82	0.78	0.72	0.68	0.68	0.68	0.66	0.62	0.62
330.0	0.80	0.80	0.74	0.68	0.68	0.66	0.66	0.64	0.60
345.0	0.72	0.70	0.68	0.66	0.64	0.62	0.62	0.60	0.60
360.0	0.74	0.72	0.74	0.43	0.55	0.02	0.06	0.04	0.16
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.62	0.62	0.66	0.64	0.66	0.70	0.66	0.66	0.70
15.0	0.60	0.64	0.60	0.62	0.62	0.64	0.64	0.64	0.64
30.0	0.59	0.59	0.60	0.60	0.60	0.62	0.62	0.66	0.68
45.0	0.62	0.64	0.64	0.62	0.66	0.64	0.64	0.68	0.68
60.0	0.62	0.62	0.64	0.64	0.64	0.64	0.64	0.66	0.66
75.0	0.64	0.64	0.62	0.64	0.64	0.64	0.68	0.66	0.68
90.0	0.64	0.60	0.59	0.66	0.62	0.62	0.62	0.62	0.64
105.0	0.60	0.62	0.60	0.62	0.64	0.62	0.62	0.62	0.64
120.0	0.60	0.60	0.64	0.64	0.64	0.66	0.66	0.64	0.66
135.0	0.62	0.62	0.64	0.64	0.64	0.64	0.66	0.68	0.66
150.0	0.62	0.62	0.62	0.66	0.64	0.66	0.68	0.66	0.68
165.0	0.64	0.64	0.62	0.64	0.64	0.66	0.66	0.66	0.66
180.0	0.62	0.66	0.62	0.66	0.66	0.66	0.64	0.70	0.64
195.0	0.62	0.62	0.64	0.64	0.66	0.64	0.64	0.68	0.68
210.0	0.62	0.66	0.64	0.64	0.68	0.64	0.66	0.68	0.68
225.0	0.64	0.64	0.62	0.68	0.66	0.64	0.66	0.66	0.66
240.0	0.62	0.64	0.66	0.66	0.66	0.66	0.68	0.68	0.68
255.0	0.60	0.62	0.62	0.66	0.66	0.66	0.68	0.66	0.66
270.0	0.59	0.62	0.62	0.62	0.64	0.64	0.64	0.64	0.66
285.0	0.60	0.60	0.60	0.62	0.62	0.62	0.66	0.64	0.64
300.0	0.60	0.59	0.62	0.62	0.62	0.66	0.66	0.64	0.64
315.0	0.62	0.66	0.66	0.64	0.66	0.66	0.70	0.68	0.66
330.0	0.60	0.62	0.64	0.66	0.64	0.66	0.66	0.66	0.66
345.0	0.59	0.62	0.64	0.60	0.62	0.64	0.62	0.64	0.68
360.0	0.62	0.62	0.66	0.64	0.66	0.70	0.66	0.66	0.70

## Intensity data(cd)

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C/ $\gamma(^{\circ})$	180.0
0.0	0.64
15.0	0.64
30.0	0.70
45.0	0.64
60.0	0.68
75.0	0.68
90.0	0.66
105.0	0.64
120.0	0.68
135.0	0.66
150.0	0.68
165.0	0.64
180.0	0.64
195.0	0.64
210.0	0.70
225.0	0.64
240.0	0.68
255.0	0.68
270.0	0.66
285.0	0.64
300.0	0.68
315.0	0.66
330.0	0.68
345.0	0.64
360.0	0.64