
LumCAT: 55023CDBZ
Luminaire: 55023CDBZ

Report No:

Voltage(V): 120.0200

Test No:

Current(A): 0.0600

LampCAT:

Power (W): 7.1150

Lamp flux(lm): -1.0

PF: 0.9870

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 393.57

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 55.32

Central intensity(cd): 224.430

Maximum intensity(cd): 229.384

Angle of maximum intensity: C=180.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=66.0

[C90/270]Total=89.0

Field angle(10%Imax): [C0/180]Total=125.2

[C90/270]Total=139.9

Maximum s/h(1/2): C0_180=30.39 C90_270=1.30

Maximum s/h(1/4): C0_180=46.88 C90_270=1.42

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 87.287%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	214.705	.000	.000	.000%	.000%	.000%
1.0	188.009	.193	.193	.000%	.000%	.049%
2.0	151.198	.487	.680	.000%	.000%	.173%
3.0	136.038	.687	1.367	.000%	.000%	.347%
4.0	126.699	.879	2.246	.000%	.000%	.571%
5.0	122.065	1.070	3.316	.000%	.000%	.843%
6.0	119.807	1.271	4.587	.000%	.000%	1.166%
7.0	118.418	1.479	6.066	.000%	.000%	1.541%
8.0	119.113	1.700	7.766	.000%	.000%	1.973%
9.0	122.926	1.962	9.727	.000%	.000%	2.472%
10.0	127.367	2.265	11.993	.000%	.000%	3.047%
11.0	127.690	2.549	14.541	.000%	.000%	3.695%
12.0	126.353	2.777	17.318	.000%	.000%	4.400%
13.0	129.895	3.041	20.359	.000%	.000%	5.173%
14.0	136.910	3.415	23.774	.000%	.000%	6.041%
15.0	140.372	3.807	27.581	.000%	.000%	7.008%
16.0	141.906	4.136	31.717	.000%	.000%	8.059%
17.0	142.108	4.423	36.140	.000%	.000%	9.183%
18.0	139.941	4.650	40.790	.000%	.000%	10.364%
19.0	141.000	4.888	45.678	.000%	.000%	11.606%
20.0	145.164	5.238	50.916	.000%	.000%	12.937%
21.0	141.738	5.509	56.425	.000%	.000%	14.337%
22.0	131.552	5.492	61.917	.000%	.000%	15.732%
23.0	121.736	5.315	67.231	.000%	.000%	17.083%
24.0	119.217	5.268	72.499	.000%	.000%	18.421%
25.0	124.606	5.544	78.043	.000%	.000%	19.830%
26.0	130.310	6.017	84.061	.000%	.000%	21.359%
27.0	135.308	6.498	90.559	.000%	.000%	23.010%
28.0	140.948	6.994	97.553	.000%	.000%	24.787%
29.0	147.109	7.536	105.090	.000%	.000%	26.702%
30.0	149.507	8.009	113.098	.000%	.000%	28.737%
31.0	147.039	8.252	121.351	.000%	.000%	30.833%
32.0	140.386	8.234	129.585	.000%	.000%	32.926%
33.0	138.054	8.203	137.788	.000%	.000%	35.010%
34.0	135.444	8.277	146.065	.000%	.000%	37.113%
35.0	133.433	8.350	154.415	.000%	.000%	39.235%
36.0	132.505	8.468	162.883	.000%	.000%	41.386%
37.0	130.059	8.563	171.446	.000%	.000%	43.562%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
38.0	129.030	8.648	180.094	.000%	.000%	45.759%
39.0	126.051	8.707	188.801	.000%	.000%	47.972%
40.0	125.848	8.785	197.586	.000%	.000%	50.204%
41.0	123.045	8.863	206.449	.000%	.000%	52.456%
42.0	123.665	8.963	215.412	.000%	.000%	54.733%
43.0	120.415	9.041	224.454	.000%	.000%	57.031%
44.0	115.676	8.911	233.365	.000%	.000%	59.295%
45.0	112.825	8.782	242.146	.000%	.000%	61.526%
46.0	108.805	8.667	250.814	.000%	.000%	63.728%
47.0	103.605	8.448	259.262	.000%	.000%	65.875%
48.0	98.175	8.157	267.419	.000%	.000%	67.947%
49.0	93.115	7.855	275.274	.000%	.000%	69.943%
50.0	88.133	7.557	282.831	.000%	.000%	71.863%
51.0	83.316	7.254	290.085	.000%	.000%	73.706%
52.0	78.911	6.961	297.046	.000%	.000%	75.475%
53.0	74.497	6.673	303.719	.000%	.000%	77.171%
54.0	71.266	6.425	310.144	.000%	.000%	78.803%
55.0	66.932	6.169	316.313	.000%	.000%	80.371%
56.0	64.060	5.919	322.232	.000%	.000%	81.875%
57.0	60.730	5.706	327.938	.000%	.000%	83.324%
58.0	57.344	5.460	333.398	.000%	.000%	84.712%
59.0	54.165	5.213	338.611	.000%	.000%	86.036%
60.0	50.038	4.923	343.534	.000%	.000%	87.287%
61.0	45.697	4.569	348.102	.000%	.000%	88.448%
62.0	43.366	4.292	352.394	.000%	.000%	89.538%
63.0	40.741	4.091	356.484	.000%	.000%	90.578%
64.0	37.429	3.836	360.320	.000%	.000%	91.552%
65.0	34.447	3.557	363.877	.000%	.000%	92.456%
66.0	32.859	3.358	367.235	.000%	.000%	93.309%
67.0	30.401	3.181	370.416	.000%	.000%	94.118%
68.0	27.663	2.941	373.358	.000%	.000%	94.865%
69.0	25.098	2.692	376.049	.000%	.000%	95.549%
70.0	22.800	2.460	378.509	.000%	.000%	96.174%
71.0	20.733	2.250	380.759	.000%	.000%	96.746%
72.0	18.073	2.018	382.777	.000%	.000%	97.258%
73.0	16.183	1.791	384.568	.000%	.000%	97.713%
74.0	13.761	1.574	386.143	.000%	.000%	98.113%
75.0	11.336	1.326	387.469	.000%	.000%	98.450%

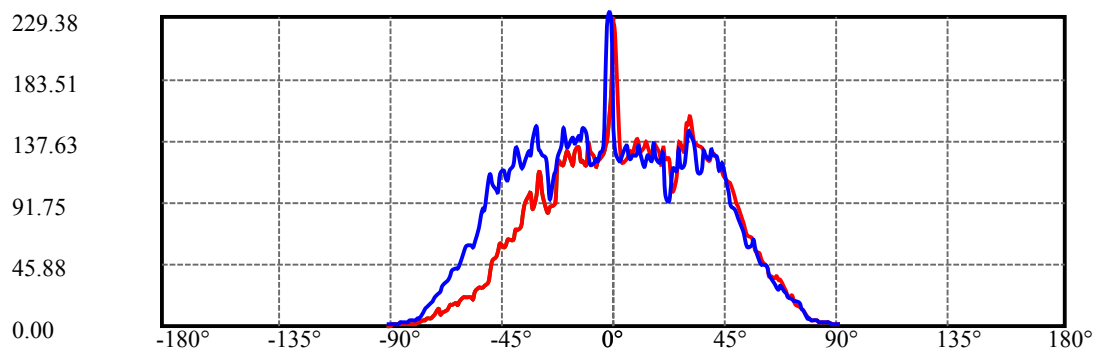
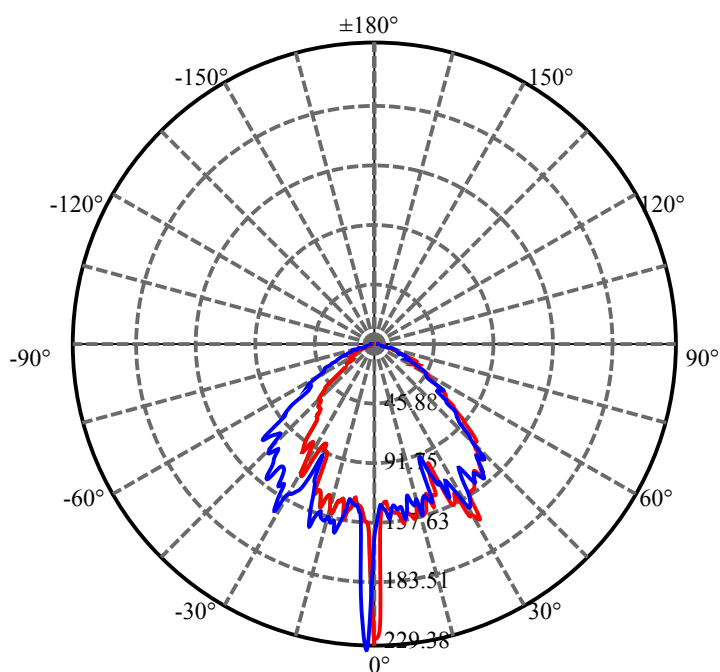
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
76.0	9.365	1.099	388.568	.000%	.000%	98.730%
77.0	6.456	.844	389.411	.000%	.000%	98.944%
78.0	4.898	.608	390.019	.000%	.000%	99.098%
79.0	4.326	.496	390.515	.000%	.000%	99.224%
80.0	3.934	.445	390.960	.000%	.000%	99.337%
81.0	3.545	.404	391.364	.000%	.000%	99.440%
82.0	3.162	.364	391.728	.000%	.000%	99.533%
83.0	2.833	.326	392.054	.000%	.000%	99.615%
84.0	2.552	.293	392.347	.000%	.000%	99.690%
85.0	2.286	.264	392.611	.000%	.000%	99.757%
86.0	2.035	.236	392.847	.000%	.000%	99.817%
87.0	1.798	.210	393.057	.000%	.000%	99.870%
88.0	1.620	.187	393.245	.000%	.000%	99.918%
89.0	1.479	.170	393.414	.000%	.000%	99.961%
90.0	1.330	.154	393.568	.000%	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	113.10	N.A.	28.74%
0-40	197.59	N.A.	50.20%
0-60	343.53	N.A.	87.29%
0-90	393.41	N.A.	99.96%
0-120	393.41	N.A.	99.96%
0-180	393.57	N.A.	100.00%
60-90	54.80	N.A.	13.92%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.00	N.A.	0.00%
90-180	0.00	N.A.	0.00%
0-54.76	314.85	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	11.99
10-20	38.92
20-30	62.18
30-40	84.49
40-50	85.24
50-60	60.70
60-70	34.98
70-80	12.45
80-90	2.45
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

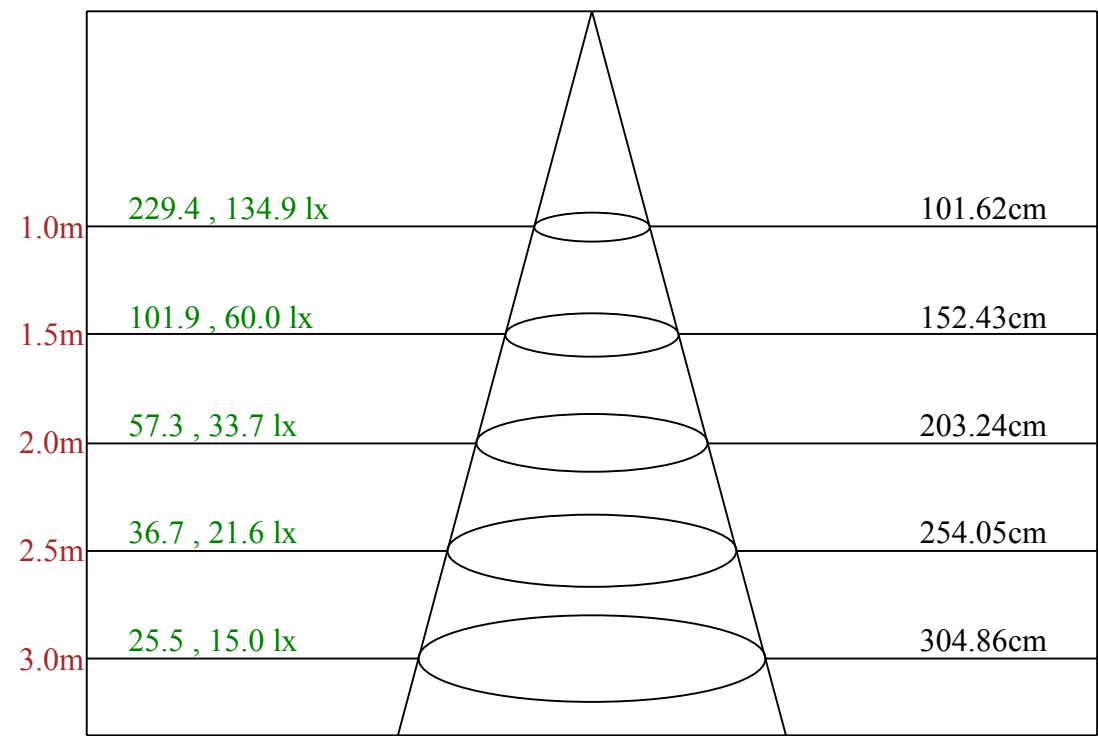
C180(Max): ———C0/C180: ———C90/C270: ———

Field angle(10%Imax):C0/180Left:55.5 Right:69.7

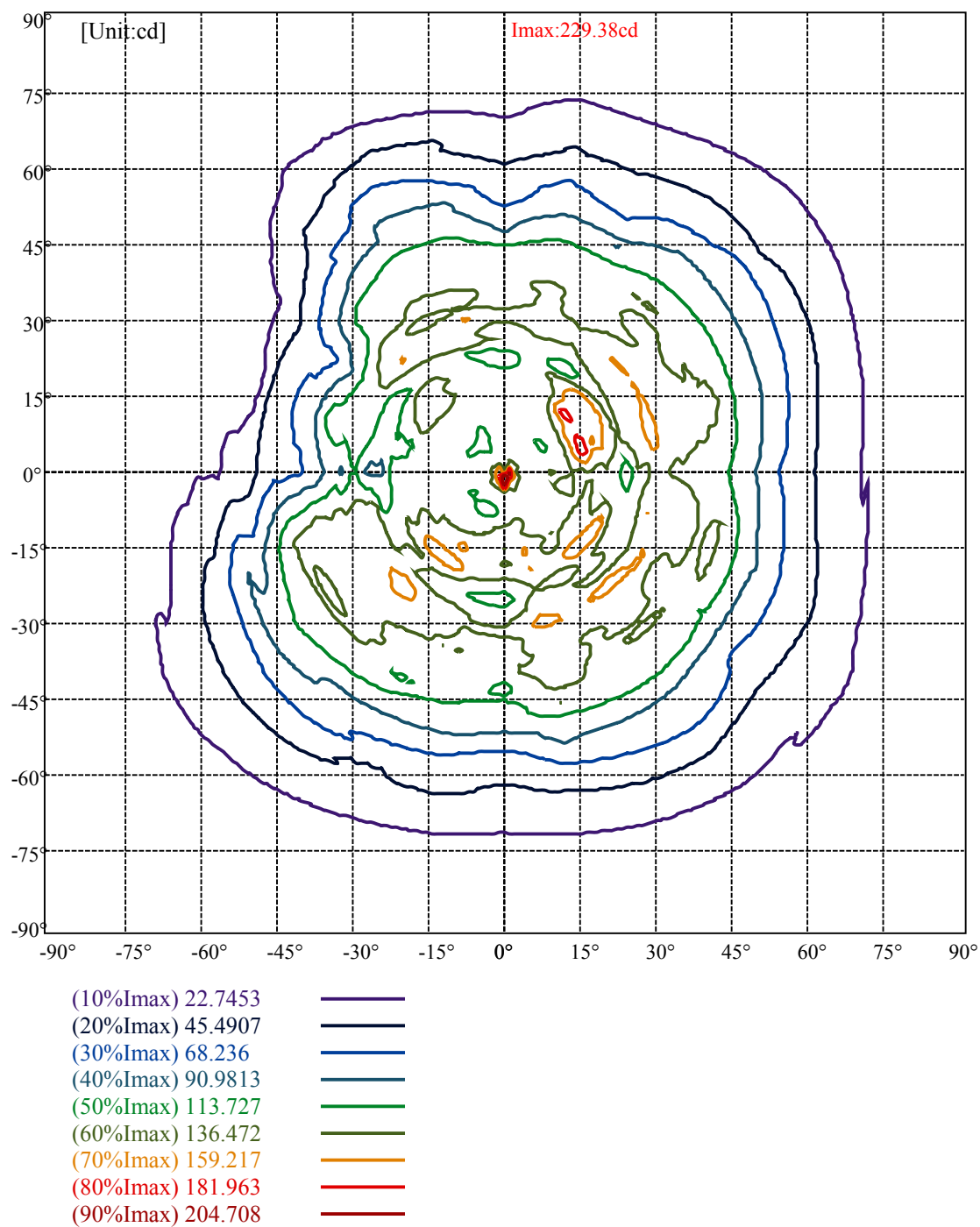
:C90/270Left:68.5 Right:71.3

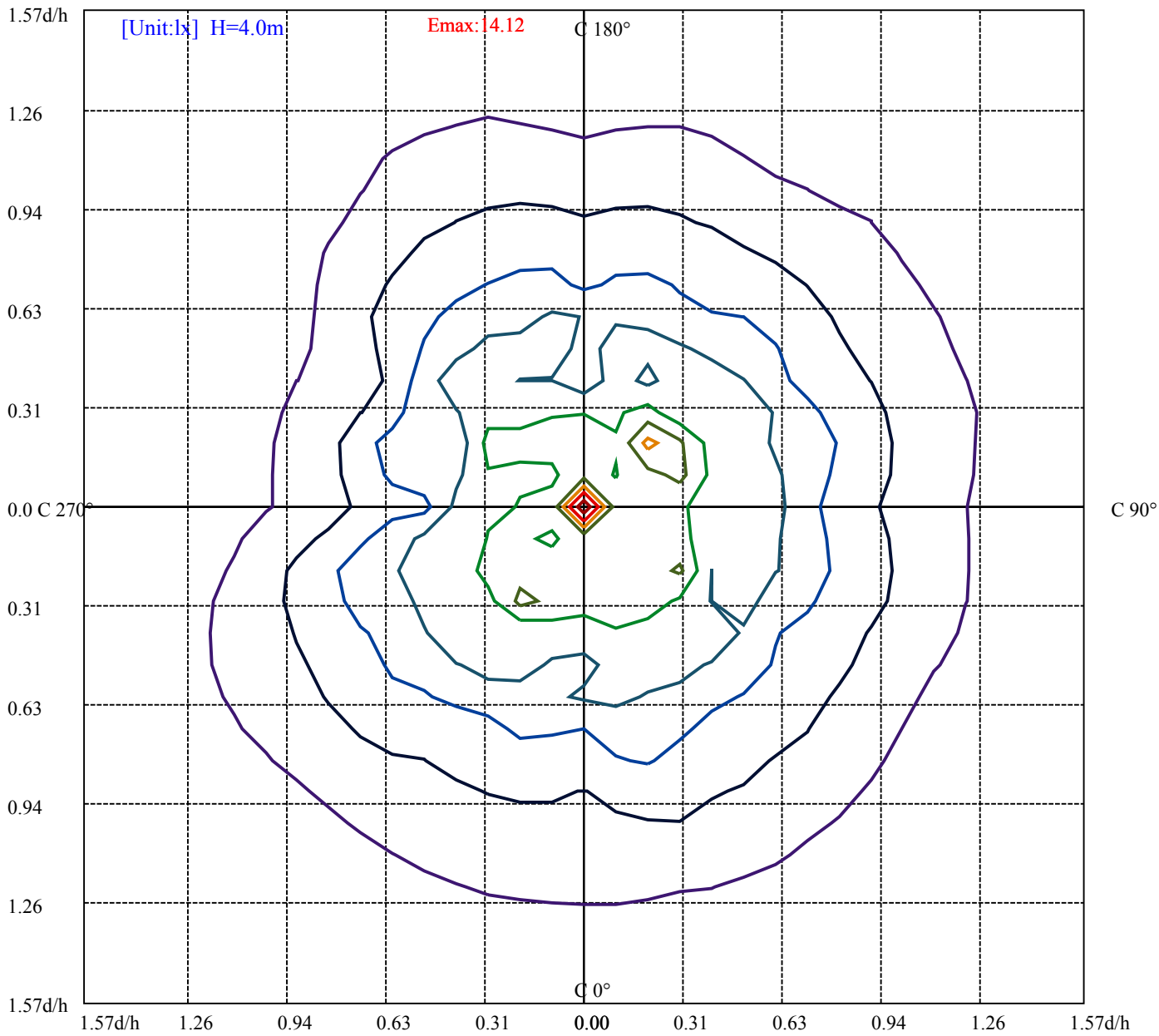
Beam Angle(50%Imax):C0/180Left:22.2 Right:43.7










:C90/270Left:42.6 Right:46.4

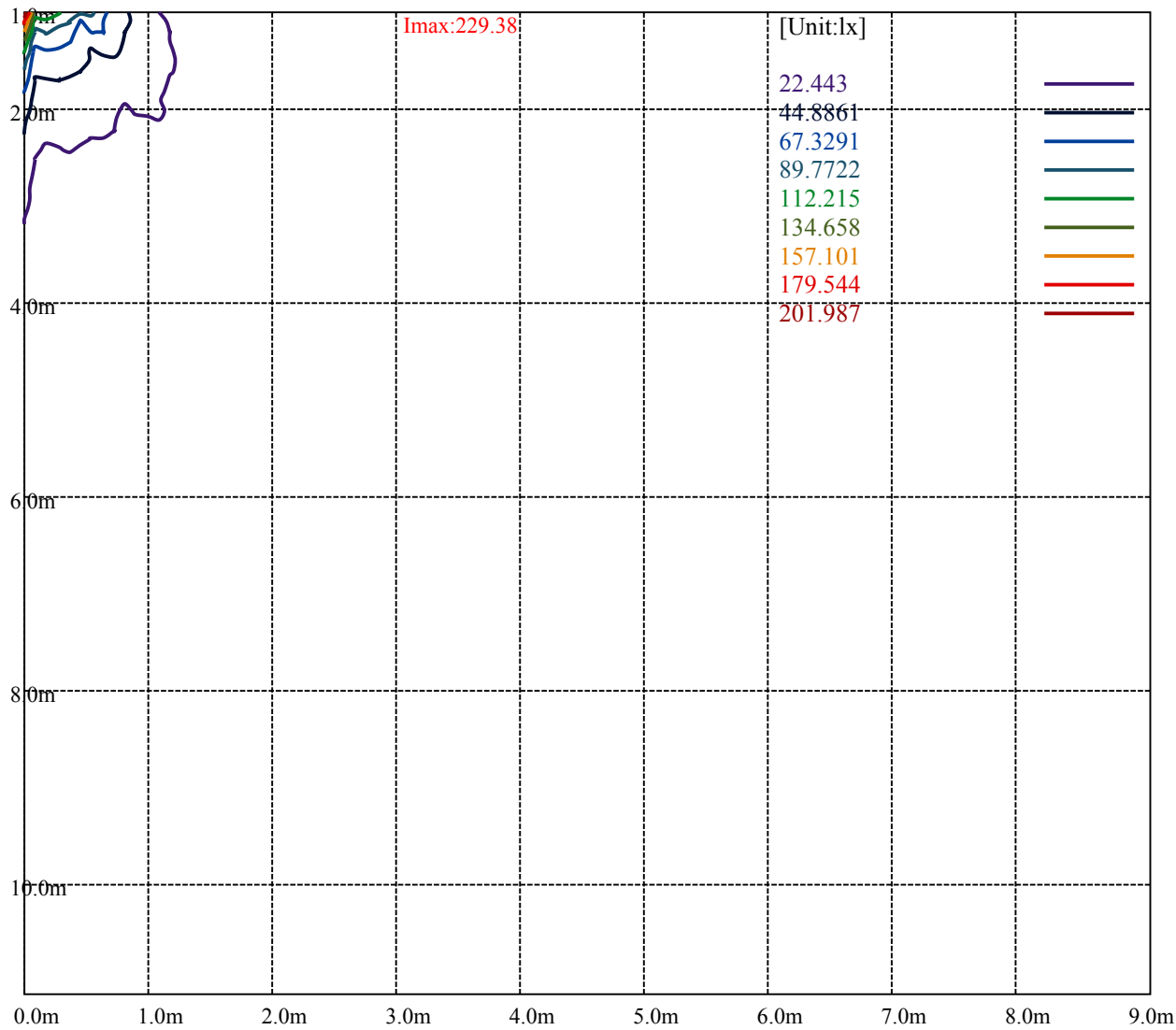


Max , Ave Beam angle of C180plane53.65





(10%Emax)	1.411888	
(20%Emax)	2.823775	
(30%Emax)	4.235662	
(40%Emax)	5.647544	
(50%Emax)	7.059437	
(60%Emax)	8.471313	
(70%Emax)	9.883187	
(80%Emax)	11.29506	
(90%Emax)	12.707	



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	224.43	213.06	144.30	124.60	120.43	124.09	127.11	129.86	128.05
15.0	224.06	172.50	147.67	138.27	124.01	116.74	115.24	118.44	125.87
30.0	222.21	171.87	142.05	132.03	123.84	114.40	113.93	118.16	114.44
45.0	225.91	161.38	145.21	132.09	122.57	115.26	116.25	117.05	115.43
60.0	221.41	150.26	143.42	130.63	125.03	117.50	119.68	123.19	118.75
75.0	214.58	151.14	136.03	132.52	122.36	118.07	120.87	122.06	121.60
90.0	146.71	129.59	122.92	124.07	127.60	133.47	126.02	123.29	126.67
105.0	213.18	149.50	132.65	126.61	124.85	116.64	120.76	121.63	125.11
120.0	223.03	170.31	131.60	126.00	121.87	108.72	113.97	110.32	103.32
135.0	216.32	169.61	141.94	125.55	120.74	117.71	111.90	109.74	111.73
150.0	216.03	170.88	141.53	123.23	122.61	124.44	118.96	112.59	109.93
165.0	226.13	165.42	139.26	134.33	131.48	125.34	117.85	113.78	118.87
180.0	229.38	176.88	141.00	133.94	128.34	123.99	122.01	118.42	125.71
195.0	224.06	193.95	146.01	126.47	123.14	126.55	129.92	130.00	125.32
210.0	222.21	209.22	146.60	131.56	128.68	124.74	113.93	110.38	113.83
225.0	225.91	201.65	157.19	141.82	131.11	123.78	117.11	115.53	113.48
240.0	221.41	216.71	171.05	138.52	127.19	120.43	115.41	111.36	107.01
255.0	214.58	219.94	172.52	144.12	129.44	124.21	123.00	113.66	107.69
270.0	146.71	223.32	227.45	191.06	136.32	127.62	122.94	123.53	121.13
285.0	213.18	224.18	165.67	139.32	127.88	122.65	122.59	119.76	125.93
300.0	223.03	227.06	160.83	150.77	137.10	129.01	124.76	121.93	121.67
315.0	216.32	221.72	164.48	142.89	130.74	131.74	127.74	124.29	131.83
330.0	216.03	212.03	156.31	141.86	126.55	121.50	121.79	119.70	129.88
345.0	226.13	210.02	151.06	132.63	126.90	120.95	111.61	113.35	115.47
360.0	224.43	213.06	144.30	124.60	120.43	124.09	127.11	129.86	128.05
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	137.76	136.36	130.27	132.65	136.16	133.14	125.79	134.88	133.63
15.0	128.77	132.03	136.90	133.73	140.18	164.05	186.26	200.58	170.60
30.0	108.88	116.88	124.38	132.28	140.63	164.56	179.95	177.27	173.71
45.0	111.40	118.73	127.60	123.99	135.95	139.01	156.04	193.75	182.11
60.0	115.28	131.81	130.39	117.85	124.31	129.24	125.05	123.45	130.84
75.0	120.85	126.47	138.02	132.93	127.00	138.02	135.40	134.58	122.32
90.0	126.18	134.43	128.89	118.36	122.94	126.12	122.26	135.01	125.28
105.0	123.21	122.40	125.59	126.80	131.93	135.34	134.25	128.83	125.77
120.0	108.55	110.67	119.33	125.46	128.83	131.50	138.23	129.16	126.18
135.0	125.55	131.39	122.14	117.71	124.87	128.93	128.30	131.74	151.57
150.0	124.29	129.28	125.50	115.65	116.97	122.73	131.56	128.87	139.91
165.0	120.35	127.50	122.61	123.66	126.76	135.29	129.12	118.10	123.23
180.0	129.03	134.88	120.15	123.00	123.08	132.40	129.40	120.19	122.92
195.0	134.08	134.14	128.27	120.13	123.76	128.58	125.22	118.67	129.92
210.0	115.39	120.52	125.26	122.40	127.02	133.16	135.44	126.84	141.21
225.0	117.75	118.57	118.38	111.30	117.91	129.79	141.02	143.73	141.12
240.0	109.76	117.42	124.66	122.01	129.40	141.12	153.17	160.52	164.97
255.0	113.31	124.37	132.83	134.35	142.21	148.68	161.30	148.08	144.84
270.0	120.15	128.71	141.96	147.07	138.43	140.57	135.79	140.10	137.80
285.0	138.31	141.66	142.83	135.40	138.31	145.58	157.85	165.85	157.60
300.0	120.82	125.67	121.44	125.94	127.06	131.60	139.95	125.65	129.61
315.0	131.85	127.93	115.98	124.48	130.14	136.40	133.59	138.56	141.04
330.0	137.02	129.83	118.98	120.91	121.67	131.60	134.53	143.81	150.15
345.0	131.68	135.15	142.19	144.39	141.96	138.43	129.46	137.49	144.26
360.0	137.76	136.36	130.27	132.65	136.16	133.14	125.79	134.88	133.63

Intensity data(cd)

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	128.75	119.84	132.79	124.17	123.39	109.21	99.89	111.08	134.41
15.0	154.75	167.11	160.19	147.77	145.41	131.00	141.98	144.39	152.37
30.0	162.98	157.01	166.84	165.69	154.32	126.84	135.50	146.13	148.16
45.0	172.59	181.12	176.92	161.58	140.03	121.95	124.99	138.29	146.52
60.0	124.46	136.53	136.34	147.75	113.01	95.11	105.80	117.40	126.69
75.0	129.30	125.89	124.87	129.92	133.34	121.99	127.25	129.55	125.81
90.0	121.13	125.50	126.22	97.96	93.06	104.22	117.36	115.84	130.64
105.0	130.04	125.54	137.47	124.81	117.46	111.51	106.38	133.86	150.38
120.0	133.36	123.47	125.22	136.50	128.77	130.25	120.50	125.55	136.92
135.0	154.98	146.81	149.23	146.32	152.55	135.50	115.88	125.05	128.32
150.0	146.32	139.56	141.10	132.50	128.50	115.75	102.87	101.43	107.57
165.0	124.76	105.80	110.52	105.25	114.87	96.79	94.10	101.24	107.77
180.0	130.20	124.95	119.08	119.55	121.05	93.94	89.12	88.58	84.56
195.0	129.47	127.50	123.12	129.12	118.38	114.44	108.49	110.19	149.21
210.0	140.57	137.59	135.79	142.42	135.50	136.81	132.56	135.52	134.62
225.0	143.73	167.66	177.27	162.10	134.64	135.07	144.59	139.34	137.31
240.0	151.41	157.09	169.69	168.48	150.56	140.96	123.08	122.49	127.21
255.0	151.36	151.80	136.94	147.01	128.46	124.05	115.88	111.05	117.34
270.0	133.18	139.71	147.14	133.36	125.87	115.71	111.26	93.69	109.78
285.0	144.61	156.35	162.57	145.43	141.78	137.88	134.60	152.27	151.26
300.0	135.46	139.77	141.04	147.03	134.17	130.39	131.37	138.80	135.64
315.0	142.17	164.48	186.99	174.23	144.86	139.01	141.92	153.91	131.25
330.0	144.34	143.40	166.78	177.51	147.83	129.30	117.77	124.42	121.44
345.0	128.66	119.51	129.81	135.27	129.44	123.98	118.05	130.45	132.24
360.0	128.75	119.84	132.79	124.17	123.39	109.21	99.89	111.08	134.41
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	134.76	129.86	148.90	150.11	155.88	137.47	134.80	133.32	133.20
15.0	146.34	154.87	169.36	168.69	156.04	138.62	146.42	143.48	155.96
30.0	155.47	145.29	150.15	161.01	155.65	152.16	158.83	158.90	142.05
45.0	161.20	156.10	143.67	161.85	153.11	150.34	149.82	134.04	132.67
60.0	133.92	135.66	139.77	146.15	137.51	133.94	127.13	122.77	125.79
75.0	134.66	144.84	146.42	147.42	144.59	149.37	141.55	145.17	142.19
90.0	117.81	119.39	131.19	143.56	142.23	135.13	123.53	114.09	115.71
105.0	136.38	145.08	140.49	159.04	161.17	144.74	134.47	142.72	151.96
120.0	147.40	138.68	147.59	153.68	143.65	129.46	125.46	139.67	140.88
135.0	139.65	149.87	164.77	153.40	156.93	146.77	146.75	144.24	127.50
150.0	120.80	132.58	129.47	130.90	122.61	123.27	109.17	96.16	90.51
165.0	121.13	131.19	128.44	124.74	124.66	124.79	131.09	122.36	126.00
180.0	87.56	98.64	112.82	112.20	96.50	87.41	97.94	96.24	91.84
195.0	150.01	144.51	154.20	143.42	146.99	140.43	154.96	146.89	140.79
210.0	152.66	148.57	149.62	146.27	147.92	152.60	144.51	140.24	138.80
225.0	157.01	160.85	168.60	163.41	161.52	153.83	147.36	139.75	139.60
240.0	133.24	151.71	149.02	156.41	155.18	154.46	143.26	136.50	138.84
255.0	125.09	133.12	137.33	136.85	136.75	134.23	134.43	136.61	132.15
270.0	123.51	126.84	130.24	133.16	148.70	137.88	126.90	129.75	123.21
285.0	142.74	148.12	162.49	164.95	167.13	145.37	149.13	144.28	156.27
300.0	143.24	145.02	152.08	152.43	151.02	144.69	147.10	145.08	134.25
315.0	122.36	155.24	163.25	175.50	149.07	149.17	145.58	147.65	146.81
330.0	128.54	134.45	150.40	150.50	166.90	151.00	140.30	131.07	125.40
345.0	131.91	152.29	160.33	152.55	147.22	152.12	152.80	159.68	150.01
360.0	134.76	129.86	148.90	150.11	155.88	137.47	134.80	133.32	133.20

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	129.63	125.79	122.28	127.27	127.91	123.31	116.95	120.35	112.51
15.0	152.76	155.51	150.89	144.71	147.20	140.61	144.98	138.09	135.40
30.0	139.50	136.77	131.89	128.79	136.07	128.23	126.49	124.38	119.57
45.0	137.63	141.92	146.68	143.73	134.25	132.32	140.16	131.80	127.95
60.0	130.59	120.66	122.88	120.93	124.38	124.48	132.22	123.76	119.43
75.0	138.08	145.33	139.58	122.16	131.76	136.55	131.33	127.39	121.26
90.0	129.44	127.33	124.35	131.41	126.72	125.15	114.85	119.00	119.22
105.0	138.35	134.53	135.05	134.37	135.70	128.77	136.34	134.94	125.85
120.0	140.79	139.32	130.74	132.93	132.17	129.96	136.50	132.81	131.21
135.0	127.82	121.99	129.18	126.41	130.68	124.17	120.45	111.20	102.19
150.0	84.44	80.97	72.61	65.00	66.03	61.04	65.49	64.45	60.44
165.0	118.61	105.25	92.21	86.12	74.91	75.02	71.24	67.73	67.54
180.0	84.42	73.78	70.77	70.79	64.36	64.36	63.56	59.77	58.19
195.0	146.79	151.61	154.67	145.43	143.83	139.54	138.97	137.08	129.18
210.0	141.68	149.72	144.94	138.64	131.93	132.65	139.71	133.47	125.57
225.0	140.82	140.90	144.76	144.08	144.30	137.72	141.94	132.03	128.13
240.0	134.86	117.48	115.65	120.02	128.91	127.82	119.29	116.95	109.58
255.0	138.33	125.01	134.80	128.03	124.76	126.39	130.20	121.83	123.12
270.0	117.89	117.75	130.57	130.45	120.21	114.79	108.63	110.11	115.36
285.0	149.21	145.15	149.02	152.72	152.99	143.67	147.16	139.95	132.17
300.0	129.94	135.81	134.88	133.20	129.34	131.91	129.59	130.70	132.03
315.0	145.21	143.63	137.12	134.45	144.08	133.98	136.18	135.83	130.41
330.0	124.03	129.85	128.60	129.83	133.36	132.38	130.78	133.84	121.19
345.0	159.29	155.35	152.62	133.77	134.51	138.25	144.94	142.48	128.73
360.0	129.63	125.79	122.28	127.27	127.91	123.31	116.95	120.35	112.51
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	107.85	107.03	106.13	97.37	91.25	88.58	79.41	75.51	70.13
15.0	130.22	117.79	112.74	105.51	100.14	105.29	104.53	91.68	81.50
30.0	118.14	118.22	112.33	108.65	105.70	96.24	100.59	91.99	85.71
45.0	124.70	119.37	111.16	106.89	101.51	98.82	103.73	95.01	89.71
60.0	114.54	105.51	97.20	89.11	94.51	88.19	81.27	70.77	70.27
75.0	125.75	115.10	111.88	109.80	106.31	99.81	92.58	89.24	86.88
90.0	105.92	99.73	90.00	87.25	83.96	79.24	72.26	68.16	61.16
105.0	121.60	119.88	112.27	104.88	101.00	100.38	98.91	93.28	96.09
120.0	124.40	118.12	110.48	106.25	100.53	96.01	96.56	96.83	95.62
135.0	95.54	90.92	89.16	85.28	80.80	71.75	66.42	68.96	63.48
150.0	61.76	57.08	47.02	43.90	39.57	38.11	31.79	25.57	21.84
165.0	61.65	61.12	58.29	45.62	29.51	18.18	17.06	15.91	14.55
180.0	60.85	55.97	51.66	49.01	40.84	33.41	30.58	28.16	27.91
195.0	125.75	112.88	107.71	98.82	92.95	82.77	84.48	87.60	91.87
210.0	130.74	126.41	121.79	117.91	113.42	110.23	100.69	99.27	94.27
225.0	133.26	134.41	119.10	111.67	101.61	97.84	90.12	88.23	90.18
240.0	116.80	116.02	114.20	112.12	108.47	100.75	97.16	82.98	76.72
255.0	115.14	116.02	107.44	104.84	106.46	104.20	98.04	91.31	82.85
270.0	112.53	99.46	101.59	105.49	112.25	107.75	87.53	86.75	80.97
285.0	132.83	137.12	131.72	116.33	111.28	102.27	93.65	94.41	93.53
300.0	123.31	129.98	127.25	116.47	104.34	105.53	104.22	99.48	81.91
315.0	126.65	117.89	117.91	113.01	111.40	99.62	94.92	88.64	75.77
330.0	113.19	114.17	112.04	110.34	94.35	93.16	80.86	72.37	69.02
345.0	124.70	121.11	115.43	109.68	102.62	97.08	92.25	91.76	86.00
360.0	107.85	107.03	106.13	97.37	91.25	88.58	79.41	75.51	70.13

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	67.15	65.59	60.77	56.07	53.96	50.14	47.66	44.58	37.15
15.0	84.11	84.07	76.33	73.95	64.24	62.86	59.01	55.19	54.37
30.0	85.40	75.30	74.17	71.88	75.30	62.58	55.72	50.63	44.50
45.0	85.54	81.64	78.55	67.01	59.74	56.26	55.33	53.16	51.99
60.0	66.03	62.95	59.70	56.65	49.44	50.20	50.47	45.69	45.83
75.0	80.76	75.22	73.31	70.32	68.47	67.48	62.52	57.32	52.71
90.0	58.99	60.05	63.65	56.28	48.33	45.73	45.75	43.51	38.26
105.0	86.04	77.89	74.83	69.78	66.89	65.08	58.43	53.28	52.89
120.0	84.68	80.43	80.02	80.15	77.35	72.24	64.14	61.59	52.71
135.0	57.41	55.76	55.87	53.14	53.26	46.26	41.89	40.90	39.53
150.0	21.94	21.55	19.17	18.04	16.73	14.49	13.50	13.26	12.79
165.0	14.61	15.80	11.88	8.48	7.20	6.38	5.95	5.52	4.88
180.0	27.91	25.72	20.01	21.20	21.30	20.77	21.30	18.84	16.17
195.0	87.39	80.02	71.57	64.73	54.35	56.85	55.02	51.45	46.75
210.0	91.52	83.98	80.21	72.55	68.22	63.26	54.51	49.65	51.04
225.0	85.87	74.09	68.41	73.95	70.91	65.20	54.78	47.47	46.36
240.0	79.28	71.63	69.60	63.40	67.44	63.79	51.86	44.56	44.21
255.0	79.74	72.10	70.25	62.84	57.94	56.15	53.12	49.44	50.35
270.0	73.35	62.72	58.55	59.62	59.17	58.76	54.51	45.73	42.57
285.0	90.70	79.76	75.86	70.87	67.77	63.69	61.74	49.32	50.61
300.0	76.72	79.24	78.38	77.66	69.84	66.74	63.81	61.04	56.89
315.0	77.21	78.61	81.19	82.18	76.12	68.67	64.83	55.66	53.22
330.0	70.05	65.55	65.22	61.14	57.10	52.91	49.52	46.53	41.60
345.0	77.97	76.72	69.95	65.61	65.20	63.48	55.54	52.40	53.40
360.0	67.15	65.59	60.77	56.07	53.96	50.14	47.66	44.58	37.15
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	36.94	36.22	37.33	34.23	34.32	28.51	24.96	21.94	22.37
15.0	49.18	43.78	37.41	37.91	35.16	33.64	31.94	27.56	23.31
30.0	43.59	44.23	38.32	37.23	37.05	35.01	32.16	28.63	23.01
45.0	44.80	37.74	32.12	34.79	31.44	33.23	32.96	26.15	20.57
60.0	40.45	33.86	34.85	31.77	30.72	29.62	26.60	23.46	23.17
75.0	47.12	47.04	43.28	42.20	35.88	34.69	31.53	27.91	27.54
90.0	35.92	30.74	28.69	27.09	29.35	25.33	23.52	21.26	20.50
105.0	45.69	47.04	47.12	44.27	38.98	33.66	29.82	26.11	23.07
120.0	54.96	50.24	46.34	45.09	38.36	32.71	28.01	26.09	20.95
135.0	37.27	33.35	30.11	28.45	27.46	25.31	20.22	19.58	16.65
150.0	10.77	10.20	9.01	6.77	6.92	7.49	6.22	6.07	5.48
165.0	3.86	3.35	2.85	2.59	2.44	2.18	2.05	1.91	1.77
180.0	16.75	15.47	15.99	12.29	10.80	9.30	8.35	12.40	8.83
195.0	44.23	44.33	38.93	35.01	28.34	26.83	24.92	27.52	27.50
210.0	49.65	42.16	39.28	37.21	32.82	29.97	27.93	24.79	21.69
225.0	47.99	40.93	38.56	36.98	34.19	30.75	28.02	23.60	21.53
240.0	43.33	39.75	38.34	33.99	32.22	28.43	26.31	24.83	22.10
255.0	48.58	43.80	40.23	38.44	34.77	32.43	29.51	24.34	23.36
270.0	42.46	40.95	36.45	34.40	32.35	29.45	25.26	23.54	22.06
285.0	45.71	41.21	37.58	37.85	36.08	33.74	29.29	26.46	24.24
300.0	54.92	45.56	42.07	40.54	35.22	30.97	29.16	29.21	23.77
315.0	49.93	45.62	42.48	40.80	38.83	32.20	31.26	26.17	21.16
330.0	34.85	35.69	29.76	32.37	30.75	26.83	24.44	21.55	21.35
345.0	48.83	45.05	39.67	36.35	35.14	31.59	27.93	26.13	31.61
360.0	36.94	36.22	37.33	34.23	34.32	28.51	24.96	21.94	22.37

Intensity data(cd)

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C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.23	15.39	14.88	12.72	10.92	7.41	4.99	4.62	4.49
15.0	22.19	18.43	13.38	11.90	11.41	6.71	5.60	4.97	4.29
30.0	21.24	18.04	13.51	11.90	9.54	6.28	5.60	4.80	4.43
45.0	17.82	16.17	13.79	11.27	9.81	7.74	5.69	5.09	4.68
60.0	19.64	17.82	16.77	13.40	12.23	8.85	5.48	4.93	4.62
75.0	26.37	23.77	20.42	15.97	11.04	9.67	6.18	5.07	4.70
90.0	18.82	18.06	16.44	13.32	11.70	6.05	5.21	4.74	4.17
105.0	20.03	18.76	17.42	13.87	11.62	9.73	6.08	5.07	4.68
120.0	18.14	16.85	14.82	13.11	12.44	7.92	5.64	5.11	4.50
135.0	16.52	14.33	11.97	10.18	10.36	9.36	5.05	4.17	3.76
150.0	4.76	4.41	4.52	4.00	3.78	3.00	1.93	1.76	1.60
165.0	1.68	1.56	1.40	1.31	1.27	1.15	1.07	0.99	0.94
180.0	7.12	5.48	5.34	4.82	3.71	2.46	2.30	2.01	1.85
195.0	22.86	20.48	17.10	12.01	9.01	7.12	4.72	4.10	3.69
210.0	20.17	18.31	17.14	13.48	9.01	6.18	5.29	4.72	4.35
225.0	15.91	13.53	11.64	10.63	9.83	6.83	5.50	4.72	4.47
240.0	19.11	18.62	16.91	11.68	9.60	6.30	5.40	4.70	4.27
255.0	21.24	19.54	16.91	14.02	9.61	5.56	5.07	4.56	4.13
270.0	18.12	16.60	13.61	12.54	9.30	5.95	5.13	4.41	4.13
285.0	20.07	19.01	13.24	10.41	7.94	5.58	5.17	4.66	4.13
300.0	20.67	17.10	13.51	12.75	7.80	5.58	5.17	4.56	4.11
315.0	18.31	15.39	13.11	11.86	10.26	5.77	5.34	4.82	4.11
330.0	21.04	17.20	15.58	12.19	10.84	6.42	4.95	4.56	4.13
345.0	23.70	23.52	16.83	12.75	11.74	7.33	4.99	4.68	4.15
360.0	18.23	15.39	14.88	12.72	10.92	7.41	4.99	4.62	4.49
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.76	3.47	3.10	2.71	2.54	2.28	1.95	1.83	1.66
15.0	3.96	3.61	3.14	2.93	2.65	2.28	2.13	1.93	1.77
30.0	4.06	3.43	3.10	2.85	2.54	2.22	2.01	1.77	1.62
45.0	4.11	3.67	3.18	2.94	2.65	2.46	2.11	1.91	1.81
60.0	4.13	3.61	3.32	3.02	2.65	2.42	2.13	1.85	1.74
75.0	4.19	3.65	3.30	2.93	2.61	2.36	1.95	1.74	1.58
90.0	3.80	3.49	3.12	2.77	2.54	2.18	1.89	1.77	1.66
105.0	4.31	3.69	3.37	3.04	2.75	2.54	2.15	1.97	1.81
120.0	4.10	3.76	3.24	2.93	2.67	2.42	2.05	1.85	1.68
135.0	3.33	3.06	2.75	2.36	2.13	1.91	1.64	1.54	1.37
150.0	1.50	1.35	1.21	1.07	0.96	0.88	0.80	0.72	0.66
165.0	0.88	0.82	0.78	0.72	0.68	0.60	0.59	0.53	0.51
180.0	1.66	1.50	1.31	1.13	0.99	0.90	0.80	0.72	0.66
195.0	3.22	2.89	2.65	2.40	2.09	1.81	1.62	1.50	1.31
210.0	3.82	3.33	3.08	2.71	2.40	2.16	1.91	1.68	1.56
225.0	4.04	3.59	3.24	2.85	2.52	2.34	1.99	1.77	1.68
240.0	3.90	3.47	3.18	2.79	2.48	2.22	1.97	1.74	1.58
255.0	3.69	3.30	2.77	2.54	2.26	1.87	1.74	1.54	1.35
270.0	3.84	3.33	3.00	2.75	2.40	2.11	1.95	1.70	1.54
285.0	3.84	3.22	3.08	2.83	2.52	2.22	2.03	1.81	1.70
300.0	3.76	3.32	2.98	2.77	2.42	2.15	1.95	1.76	1.58
315.0	3.92	3.55	3.04	2.91	2.57	2.28	2.11	1.83	1.68
330.0	3.65	3.43	3.08	2.79	2.52	2.13	1.93	1.79	1.54
345.0	3.61	3.35	2.96	2.54	2.34	2.09	1.79	1.62	1.46
360.0	3.76	3.47	3.10	2.71	2.54	2.28	1.95	1.83	1.66

Intensity data(cd)

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C/ $\gamma(^{\circ})$	90.0
0.0	1.50
15.0	1.68
30.0	1.50
45.0	1.64
60.0	1.60
75.0	1.42
90.0	1.46
105.0	1.58
120.0	1.50
135.0	1.25
150.0	0.62
165.0	0.49
180.0	0.00
195.0	1.23
210.0	1.38
225.0	1.46
240.0	1.44
255.0	1.27
270.0	1.44
285.0	1.58
300.0	1.48
315.0	1.60
330.0	1.44
345.0	1.35
360.0	1.50