

Report No	:		Voltage	: 12 V
Test No	:	C2221895A001	Current	: 0.3958 A
LumCAT	:	LIT by CARDI	Power	: 1.900 W
Luminaire	:	0019590052 LASPE02 1.9W 2700K 200lm	PF	: 0.4
LampCAT	:		Ballast type	:
Lamp flux	:	200.0 lm	Width	: -16 mm
Number of Lamps	:	1	Length	: -16 mm
Phm Type	:	C	Height	: 30 mm

Photometric Results

Lumens(lm)	: 200.00	Central intensity(cd)	: 7.564
Efficiency(%)	: 100.00%	Maximum intensity(cd)	: 19.681
Luminous Efficacy(lm/W)	: 105.26	Angle of maximum intensity	: C=0.0 γ =70.5
Beam Angle(50%Imax)	: [C0/180]Total=285.8 [C90/270]Total=285.8		
Field angle(10%Imax)	: [C0/180]Total=316.2 [C90/270]Total=316.2		
Maximum s/h(1/2)	: C0_180=2.77 C90_270=2.77		
Maximum s/h(1/4)	: C0_180=2.73 C90_270=2.73		
Up flux rate of lamp(%)	: 44.90%		
Down flux rate of lamp(%)	: 55.10%		
Up flux rate of LUM(%)	: 44.90%		
Down flux rate of LUM(%)	: 55.10%		
CIE Type	: General diffuse lighting		
Output flux ratio in π solid angle :	: 24.355%		

Zonal flux distribution table

Appendix Page: 2 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7.564	0.000	0	0.00%	0.00%
0.5	7.567	0.002	0.002	0.00%	0.00%
1.0	7.576	0.005	0.007	0.00%	0.00%
1.5	7.583	0.009	0.016	0.00%	0.01%
2.0	7.588	0.013	0.029	0.01%	0.01%
2.5	7.593	0.016	0.045	0.01%	0.02%
3.0	7.602	0.020	0.065	0.01%	0.03%
3.5	7.613	0.024	0.089	0.01%	0.04%
4.0	7.622	0.027	0.116	0.01%	0.06%
4.5	7.629	0.031	0.147	0.02%	0.07%
5.0	7.639	0.035	0.182	0.02%	0.09%
5.5	7.656	0.038	0.22	0.02%	0.11%
6.0	7.684	0.042	0.262	0.02%	0.13%
6.5	7.718	0.046	0.308	0.02%	0.15%
7.0	7.756	0.050	0.358	0.02%	0.18%
7.5	7.796	0.054	0.412	0.03%	0.21%
8.0	7.839	0.058	0.47	0.03%	0.23%
8.5	7.886	0.062	0.532	0.03%	0.27%
9.0	7.938	0.066	0.598	0.03%	0.30%
9.5	7.999	0.070	0.668	0.04%	0.33%
10.0	8.067	0.075	0.743	0.04%	0.37%
10.5	8.139	0.079	0.822	0.04%	0.41%
11.0	8.215	0.084	0.905	0.04%	0.45%
11.5	8.300	0.088	0.994	0.04%	0.50%
12.0	8.389	0.093	1.087	0.05%	0.54%
12.5	8.480	0.098	1.185	0.05%	0.59%
13.0	8.576	0.103	1.288	0.05%	0.64%
13.5	8.674	0.108	1.396	0.05%	0.70%
14.0	8.774	0.114	1.51	0.06%	0.76%
14.5	8.880	0.119	1.629	0.06%	0.81%
15.0	8.996	0.125	1.754	0.06%	0.88%
15.5	9.119	0.131	1.885	0.07%	0.94%
16.0	9.246	0.137	2.021	0.07%	1.01%
16.5	9.379	0.143	2.164	0.07%	1.08%
17.0	9.519	0.149	2.314	0.07%	1.16%
17.5	9.667	0.156	2.47	0.08%	1.23%
18.0	9.818	0.163	2.632	0.08%	1.32%
18.5	9.971	0.170	2.802	0.08%	1.40%

Zonal flux distribution table

Appendix Page: 3 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
19.0	10.121	0.177	2.979	0.09%	1.49%
19.5	10.271	0.184	3.164	0.09%	1.58%
20.0	10.425	0.192	3.355	0.10%	1.68%
20.5	10.583	0.199	3.555	0.10%	1.78%
21.0	10.747	0.207	3.762	0.10%	1.88%
21.5	10.914	0.215	3.977	0.11%	1.99%
22.0	11.084	0.223	4.201	0.11%	2.10%
22.5	11.254	0.232	4.433	0.12%	2.22%
23.0	11.424	0.240	4.673	0.12%	2.34%
23.5	11.604	0.249	4.922	0.12%	2.46%
24.0	11.787	0.258	5.18	0.13%	2.59%
24.5	11.965	0.267	5.448	0.13%	2.72%
25.0	12.133	0.277	5.724	0.14%	2.86%
25.5	12.286	0.286	6.01	0.14%	3.01%
26.0	12.432	0.294	6.304	0.15%	3.15%
26.5	12.584	0.303	6.608	0.15%	3.30%
27.0	12.740	0.312	6.92	0.16%	3.46%
27.5	12.894	0.322	7.242	0.16%	3.62%
28.0	13.048	0.331	7.573	0.17%	3.79%
28.5	13.204	0.341	7.914	0.17%	3.96%
29.0	13.356	0.350	8.264	0.18%	4.13%
29.5	13.498	0.360	8.624	0.18%	4.31%
30.0	13.631	0.369	8.993	0.18%	4.50%
30.5	13.760	0.378	9.371	0.19%	4.69%
31.0	13.885	0.388	9.759	0.19%	4.88%
31.5	14.007	0.397	10.155	0.20%	5.08%
32.0	14.132	0.406	10.561	0.20%	5.28%
32.5	14.263	0.415	10.977	0.21%	5.49%
33.0	14.397	0.425	11.402	0.21%	5.70%
33.5	14.531	0.435	11.837	0.22%	5.92%
34.0	14.667	0.445	12.281	0.22%	6.14%
34.5	14.801	0.455	12.736	0.23%	6.37%
35.0	14.935	0.465	13.201	0.23%	6.60%
35.5	15.066	0.475	13.675	0.24%	6.84%
36.0	15.194	0.485	14.16	0.24%	7.08%
36.5	15.319	0.495	14.655	0.25%	7.33%
37.0	15.447	0.505	15.159	0.25%	7.58%
37.5	15.574	0.515	15.674	0.26%	7.84%

Zonal flux distribution table

Appendix Page: 4 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	15.701	0.525	16.199	0.26%	8.10%
38.5	15.826	0.535	16.734	0.27%	8.37%
39.0	15.949	0.545	17.279	0.27%	8.64%
39.5	16.069	0.555	17.835	0.28%	8.92%
40.0	16.189	0.565	18.4	0.28%	9.20%
40.5	16.308	0.576	18.976	0.29%	9.49%
41.0	16.421	0.586	19.562	0.29%	9.78%
41.5	16.532	0.596	20.157	0.30%	10.08%
42.0	16.646	0.606	20.763	0.30%	10.38%
42.5	16.758	0.616	21.379	0.31%	10.69%
43.0	16.867	0.626	22.005	0.31%	11.00%
43.5	16.973	0.636	22.64	0.32%	11.32%
44.0	17.078	0.646	23.286	0.32%	11.64%
44.5	17.183	0.655	23.941	0.33%	11.97%
45.0	17.284	0.665	24.606	0.33%	12.30%
45.5	17.383	0.675	25.281	0.34%	12.64%
46.0	17.479	0.685	25.966	0.34%	12.98%
46.5	17.574	0.694	26.66	0.35%	13.33%
47.0	17.666	0.704	27.364	0.35%	13.68%
47.5	17.759	0.713	28.077	0.36%	14.04%
48.0	17.853	0.723	28.8	0.36%	14.40%
48.5	17.945	0.732	29.532	0.37%	14.77%
49.0	18.035	0.742	30.274	0.37%	15.14%
49.5	18.125	0.751	31.025	0.38%	15.51%
50.0	18.213	0.760	31.785	0.38%	15.89%
50.5	18.297	0.770	32.555	0.38%	16.28%
51.0	18.377	0.779	33.333	0.39%	16.67%
51.5	18.454	0.787	34.121	0.39%	17.06%
52.0	18.529	0.796	34.917	0.40%	17.46%
52.5	18.600	0.805	35.722	0.40%	17.86%
53.0	18.665	0.813	36.535	0.41%	18.27%
53.5	18.729	0.821	37.356	0.41%	18.68%
54.0	18.788	0.829	38.186	0.41%	19.09%
54.5	18.845	0.837	39.023	0.42%	19.51%
55.0	18.898	0.845	39.868	0.42%	19.93%
55.5	18.949	0.853	40.721	0.43%	20.36%
56.0	18.997	0.860	41.581	0.43%	20.79%
56.5	19.043	0.867	42.448	0.43%	21.22%

Zonal flux distribution table

Appendix Page: 5 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
57.0	19.089	0.874	43.322	0.44%	21.66%
57.5	19.134	0.881	44.203	0.44%	22.10%
58.0	19.172	0.888	45.091	0.44%	22.55%
58.5	19.208	0.895	45.986	0.45%	22.99%
59.0	19.244	0.901	46.887	0.45%	23.44%
59.5	19.282	0.908	47.795	0.45%	23.90%
60.0	19.319	0.914	48.709	0.46%	24.35%
60.5	19.352	0.920	49.63	0.46%	24.81%
61.0	19.381	0.926	50.556	0.46%	25.28%
61.5	19.407	0.932	51.489	0.47%	25.74%
62.0	19.432	0.938	52.427	0.47%	26.21%
62.5	19.455	0.943	53.37	0.47%	26.68%
63.0	19.477	0.949	54.319	0.47%	27.16%
63.5	19.494	0.954	55.273	0.48%	27.64%
64.0	19.509	0.959	56.232	0.48%	28.12%
64.5	19.525	0.964	57.196	0.48%	28.60%
65.0	19.540	0.969	58.164	0.48%	29.08%
65.5	19.553	0.973	59.138	0.49%	29.57%
66.0	19.566	0.978	60.116	0.49%	30.06%
66.5	19.579	0.982	61.098	0.49%	30.55%
67.0	19.595	0.987	62.085	0.49%	31.04%
67.5	19.610	0.991	63.076	0.50%	31.54%
68.0	19.625	0.996	64.071	0.50%	32.04%
68.5	19.638	1.000	65.071	0.50%	32.54%
69.0	19.651	1.004	66.075	0.50%	33.04%
69.5	19.667	1.008	67.083	0.50%	33.54%
70.0	19.678	1.012	68.095	0.51%	34.05%
70.5	19.681	1.016	69.111	0.51%	34.56%
71.0	19.679	1.019	70.129	0.51%	35.06%
71.5	19.675	1.022	71.151	0.51%	35.58%
72.0	19.667	1.024	72.175	0.51%	36.09%
72.5	19.657	1.027	73.202	0.51%	36.60%
73.0	19.648	1.029	74.231	0.51%	37.12%
73.5	19.638	1.031	75.263	0.52%	37.63%
74.0	19.626	1.033	76.296	0.52%	38.15%
74.5	19.612	1.035	77.331	0.52%	38.67%
75.0	19.601	1.037	78.369	0.52%	39.18%
75.5	19.591	1.039	79.408	0.52%	39.70%

Zonal flux distribution table

Appendix Page: 6 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.581	1.041	80.449	0.52%	40.22%
76.5	19.576	1.043	81.491	0.52%	40.75%
77.0	19.575	1.045	82.536	0.52%	41.27%
77.5	19.571	1.047	83.583	0.52%	41.79%
78.0	19.565	1.049	84.631	0.52%	42.32%
78.5	19.560	1.050	85.681	0.53%	42.84%
79.0	19.559	1.052	86.733	0.53%	43.37%
79.5	19.564	1.054	87.787	0.53%	43.89%
80.0	19.567	1.056	88.843	0.53%	44.42%
80.5	19.565	1.057	89.9	0.53%	44.95%
81.0	19.563	1.059	90.959	0.53%	45.48%
81.5	19.561	1.060	92.019	0.53%	46.01%
82.0	19.560	1.061	93.08	0.53%	46.54%
82.5	19.564	1.063	94.143	0.53%	47.07%
83.0	19.566	1.064	95.207	0.53%	47.60%
83.5	19.564	1.065	96.273	0.53%	48.14%
84.0	19.564	1.066	97.339	0.53%	48.67%
84.5	19.566	1.067	98.406	0.53%	49.20%
85.0	19.566	1.068	99.475	0.53%	49.74%
85.5	19.567	1.069	100.544	0.53%	50.27%
86.0	19.571	1.070	101.614	0.54%	50.81%
86.5	19.575	1.071	102.685	0.54%	51.34%
87.0	19.572	1.072	103.756	0.54%	51.88%
87.5	19.570	1.072	104.828	0.54%	52.41%
88.0	19.572	1.072	105.9	0.54%	52.95%
88.5	19.574	1.073	106.973	0.54%	53.49%
89.0	19.575	1.073	108.046	0.54%	54.02%
89.5	19.575	1.073	109.119	0.54%	54.56%
90.0	19.575	1.073	110.193	0.54%	55.10%
90.5	19.572	1.073	111.266	0.54%	55.63%
91.0	19.569	1.073	112.339	0.54%	56.17%
91.5	19.568	1.073	113.412	0.54%	56.71%
92.0	19.566	1.072	114.484	0.54%	57.24%
92.5	19.561	1.072	115.556	0.54%	57.78%
93.0	19.554	1.071	116.627	0.54%	58.31%
93.5	19.545	1.070	117.697	0.54%	58.85%
94.0	19.537	1.069	118.766	0.53%	59.38%
94.5	19.527	1.068	119.834	0.53%	59.92%

Zonal flux distribution table

Appendix Page: 7 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
95.0	19.514	1.067	120.901	0.53%	60.45%
95.5	19.499	1.065	121.966	0.53%	60.98%
96.0	19.482	1.063	123.029	0.53%	61.51%
96.5	19.464	1.061	124.091	0.53%	62.05%
97.0	19.445	1.059	125.15	0.53%	62.58%
97.5	19.423	1.057	126.207	0.53%	63.10%
98.0	19.399	1.055	127.262	0.53%	63.63%
98.5	19.374	1.052	128.314	0.53%	64.16%
99.0	19.349	1.049	129.363	0.52%	64.68%
99.5	19.321	1.046	130.409	0.52%	65.20%
100.0	19.290	1.043	131.453	0.52%	65.73%
100.5	19.254	1.040	132.492	0.52%	66.25%
101.0	19.218	1.036	133.529	0.52%	66.76%
101.5	19.181	1.032	134.561	0.52%	67.28%
102.0	19.142	1.029	135.59	0.51%	67.79%
102.5	19.102	1.025	136.614	0.51%	68.31%
103.0	19.061	1.020	137.635	0.51%	68.82%
103.5	19.018	1.016	138.651	0.51%	69.33%
104.0	18.973	1.012	139.663	0.51%	69.83%
104.5	18.926	1.007	140.67	0.50%	70.33%
105.0	18.878	1.002	141.672	0.50%	70.84%
105.5	18.828	0.997	142.669	0.50%	71.33%
106.0	18.776	0.992	143.662	0.50%	71.83%
106.5	18.725	0.987	144.649	0.49%	72.32%
107.0	18.670	0.982	145.63	0.49%	72.82%
107.5	18.614	0.976	146.606	0.49%	73.30%
108.0	18.558	0.971	147.577	0.49%	73.79%
108.5	18.497	0.965	148.542	0.48%	74.27%
109.0	18.433	0.959	149.501	0.48%	74.75%
109.5	18.368	0.953	150.453	0.48%	75.23%
110.0	18.301	0.946	151.399	0.47%	75.70%
110.5	18.233	0.940	152.339	0.47%	76.17%
111.0	18.165	0.933	153.272	0.47%	76.64%
111.5	18.096	0.927	154.199	0.46%	77.10%
112.0	18.024	0.920	155.118	0.46%	77.56%
112.5	17.948	0.913	156.031	0.46%	78.02%
113.0	17.869	0.906	156.937	0.45%	78.47%
113.5	17.789	0.898	157.835	0.45%	78.92%

Zonal flux distribution table

Appendix Page: 8 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	17.708	0.891	158.726	0.45%	79.36%
114.5	17.626	0.883	159.609	0.44%	79.80%
115.0	17.542	0.876	160.484	0.44%	80.24%
115.5	17.455	0.868	161.352	0.43%	80.68%
116.0	17.368	0.860	162.212	0.43%	81.11%
116.5	17.280	0.852	163.064	0.43%	81.53%
117.0	17.191	0.844	163.908	0.42%	81.95%
117.5	17.100	0.836	164.744	0.42%	82.37%
118.0	17.004	0.827	165.571	0.41%	82.79%
118.5	16.908	0.819	166.39	0.41%	83.20%
119.0	16.811	0.810	167.201	0.41%	83.60%
119.5	16.711	0.802	168.002	0.40%	84.00%
120.0	16.609	0.793	168.795	0.40%	84.40%
120.5	16.505	0.784	169.58	0.39%	84.79%
121.0	16.399	0.775	170.355	0.39%	85.18%
121.5	16.291	0.766	171.121	0.38%	85.56%
122.0	16.179	0.757	171.878	0.38%	85.94%
122.5	16.068	0.748	172.626	0.37%	86.31%
123.0	15.955	0.738	173.364	0.37%	86.68%
123.5	15.840	0.729	174.093	0.36%	87.05%
124.0	15.722	0.719	174.813	0.36%	87.41%
124.5	15.602	0.710	175.522	0.35%	87.76%
125.0	15.481	0.700	176.223	0.35%	88.11%
125.5	15.358	0.690	176.913	0.35%	88.46%
126.0	15.233	0.681	177.594	0.34%	88.80%
126.5	15.104	0.671	178.264	0.34%	89.13%
127.0	14.975	0.661	178.925	0.33%	89.46%
127.5	14.843	0.651	179.576	0.33%	89.79%
128.0	14.709	0.641	180.216	0.32%	90.11%
128.5	14.573	0.630	180.847	0.32%	90.42%
129.0	14.434	0.620	181.467	0.31%	90.73%
129.5	14.295	0.610	182.077	0.30%	91.04%
130.0	14.155	0.600	182.677	0.30%	91.34%
130.5	14.013	0.589	183.266	0.29%	91.63%
131.0	13.868	0.579	183.845	0.29%	91.92%
131.5	13.719	0.569	184.414	0.28%	92.21%
132.0	13.570	0.558	184.972	0.28%	92.49%
132.5	13.420	0.548	185.52	0.27%	92.76%

Zonal flux distribution table

Appendix Page: 9 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
133.0	13.267	0.537	186.057	0.27%	93.03%
133.5	13.114	0.527	186.584	0.26%	93.29%
134.0	12.958	0.516	187.1	0.26%	93.55%
134.5	12.802	0.506	187.606	0.25%	93.80%
135.0	12.643	0.495	188.101	0.25%	94.05%
135.5	12.481	0.485	188.586	0.24%	94.29%
136.0	12.319	0.474	189.061	0.24%	94.53%
136.5	12.156	0.464	189.525	0.23%	94.76%
137.0	11.989	0.454	189.978	0.23%	94.99%
137.5	11.819	0.443	190.421	0.22%	95.21%
138.0	11.651	0.433	190.854	0.22%	95.43%
138.5	11.481	0.422	191.276	0.21%	95.64%
139.0	11.307	0.412	191.688	0.21%	95.84%
139.5	11.131	0.402	192.09	0.20%	96.04%
140.0	10.953	0.391	192.481	0.20%	96.24%
140.5	10.771	0.381	192.862	0.19%	96.43%
141.0	10.586	0.370	193.232	0.19%	96.62%
141.5	10.395	0.360	193.592	0.18%	96.80%
142.0	10.200	0.350	193.942	0.17%	96.97%
142.5	10.003	0.339	194.281	0.17%	97.14%
143.0	9.804	0.329	194.609	0.16%	97.30%
143.5	9.607	0.318	194.928	0.16%	97.46%
144.0	9.414	0.308	195.236	0.15%	97.62%
144.5	9.222	0.299	195.535	0.15%	97.77%
145.0	9.027	0.289	195.823	0.14%	97.91%
145.5	8.825	0.279	196.102	0.14%	98.05%
146.0	8.615	0.269	196.372	0.13%	98.19%
146.5	8.393	0.259	196.631	0.13%	98.32%
147.0	8.159	0.249	196.879	0.12%	98.44%
147.5	7.908	0.238	197.118	0.12%	98.56%
148.0	7.646	0.228	197.345	0.11%	98.67%
148.5	7.379	0.217	197.562	0.11%	98.78%
149.0	7.107	0.206	197.768	0.10%	98.88%
149.5	6.829	0.195	197.963	0.10%	98.98%
150.0	6.545	0.185	198.148	0.09%	99.07%
150.5	6.260	0.174	198.322	0.09%	99.16%
151.0	5.984	0.164	198.486	0.08%	99.24%
151.5	5.717	0.154	198.641	0.08%	99.32%

Zonal flux distribution table

Appendix Page: 10 Total:27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	5.458	0.145	198.786	0.07%	99.39%
152.5	5.203	0.136	198.922	0.07%	99.46%
153.0	4.944	0.127	199.049	0.06%	99.52%
153.5	4.670	0.119	199.168	0.06%	99.58%
154.0	4.377	0.110	199.277	0.05%	99.64%
154.5	4.085	0.101	199.378	0.05%	99.69%
155.0	3.795	0.092	199.47	0.05%	99.74%
155.5	3.496	0.084	199.554	0.04%	99.78%
156.0	3.206	0.075	199.629	0.04%	99.81%
156.5	2.929	0.068	199.697	0.03%	99.85%
157.0	2.647	0.060	199.758	0.03%	99.88%
157.5	2.335	0.053	199.81	0.03%	99.91%
158.0	2.004	0.045	199.855	0.02%	99.93%
158.5	1.696	0.038	199.893	0.02%	99.95%
159.0	1.418	0.031	199.924	0.02%	99.96%
159.5	1.133	0.025	199.949	0.01%	99.97%
160.0	0.817	0.019	199.967	0.01%	99.98%
160.5	0.554	0.013	199.98	0.01%	99.99%
161.0	0.391	0.009	199.988	0.00%	99.99%
161.5	0.269	0.006	199.994	0.00%	100.00%
162.0	0.142	0.004	199.998	0.00%	100.00%
162.5	0.048	0.002	199.999	0.00%	100.00%
163.0	0.010	0.000	200	0.00%	100.00%
163.5	0.002	0.000	200	0.00%	100.00%
164.0	0.000	0.000	200	0.00%	100.00%
164.5	0.000	0.000	200	0.00%	100.00%
165.0	0.001	0.000	200	0.00%	100.00%
165.5	0.000	0.000	200	0.00%	100.00%
166.0	0.000	0.000	200	0.00%	100.00%
166.5	0.000	0.000	200	0.00%	100.00%
167.0	0.000	0.000	200	0.00%	100.00%
167.5	0.000	0.000	200	0.00%	100.00%
168.0	0.000	0.000	200	0.00%	100.00%
168.5	0.000	0.000	200	0.00%	100.00%
169.0	0.000	0.000	200	0.00%	100.00%
169.5	0.000	0.000	200	0.00%	100.00%
170.0	0.000	0.000	200	0.00%	100.00%
170.5	0.000	0.000	200	0.00%	100.00%

Zonal flux distribution table

Appendix Page: 11 Total:27

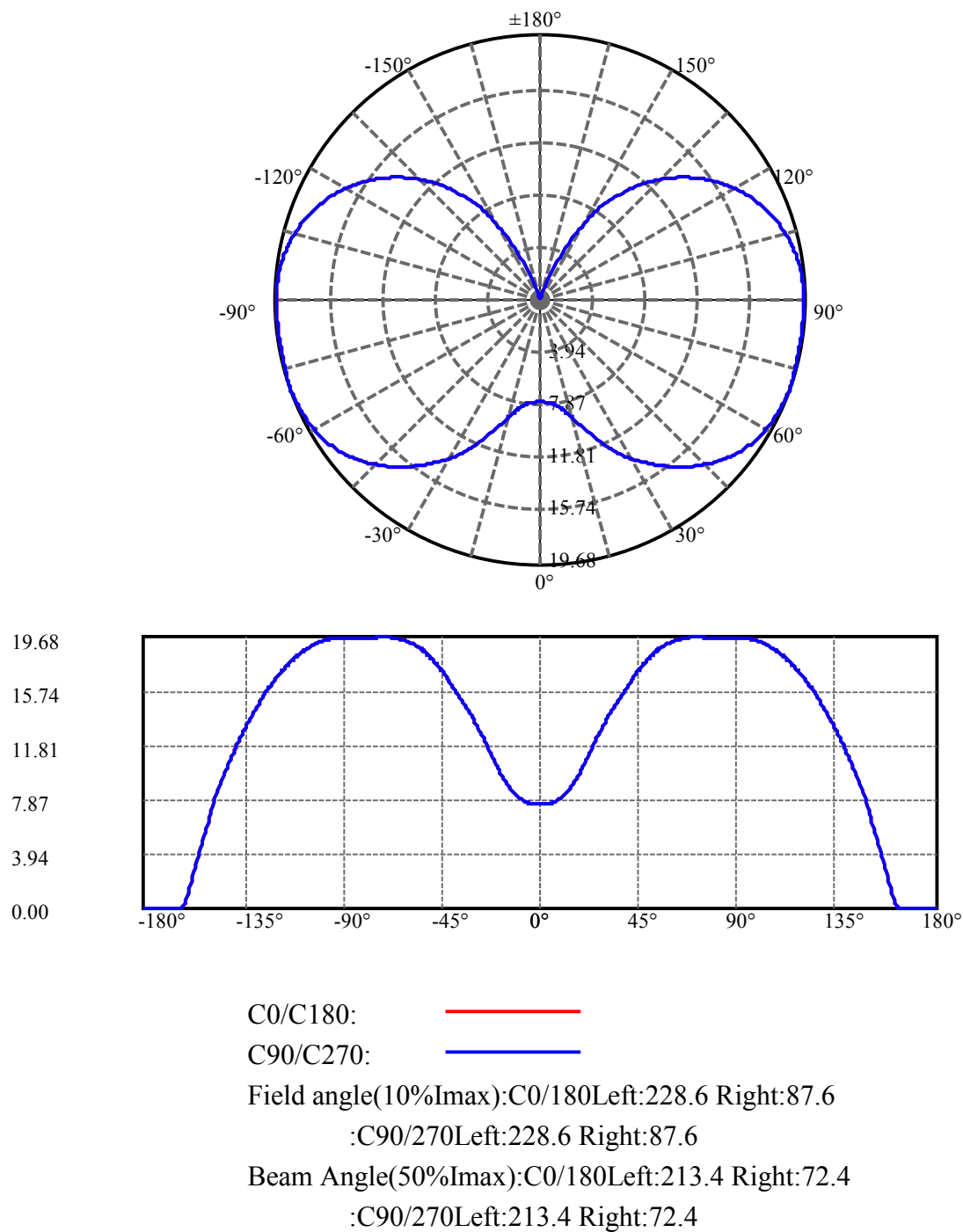
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	0.000	0.000	200	0.00%	100.00%
171.5	0.000	0.000	200	0.00%	100.00%
172.0	0.000	0.000	200	0.00%	100.00%
172.5	0.000	0.000	200	0.00%	100.00%
173.0	0.000	0.000	200	0.00%	100.00%
173.5	0.000	0.000	200	0.00%	100.00%
174.0	0.000	0.000	200	0.00%	100.00%
174.5	0.000	0.000	200	0.00%	100.00%
175.0	0.000	0.000	200	0.00%	100.00%
175.5	0.000	0.000	200	0.00%	100.00%
176.0	0.000	0.000	200	0.00%	100.00%
176.5	0.000	0.000	200	0.00%	100.00%
177.0	0.000	0.000	200	0.00%	100.00%
177.5	0.000	0.000	200	0.00%	100.00%
178.0	0.000	0.000	200	0.00%	100.00%
178.5	0.000	0.000	200	0.00%	100.00%
179.0	0.000	0.000	200	0.00%	100.00%
179.5	0.000	0.000	200	0.00%	100.00%
180.0	0.000	0.000	200	0.00%	100.00%

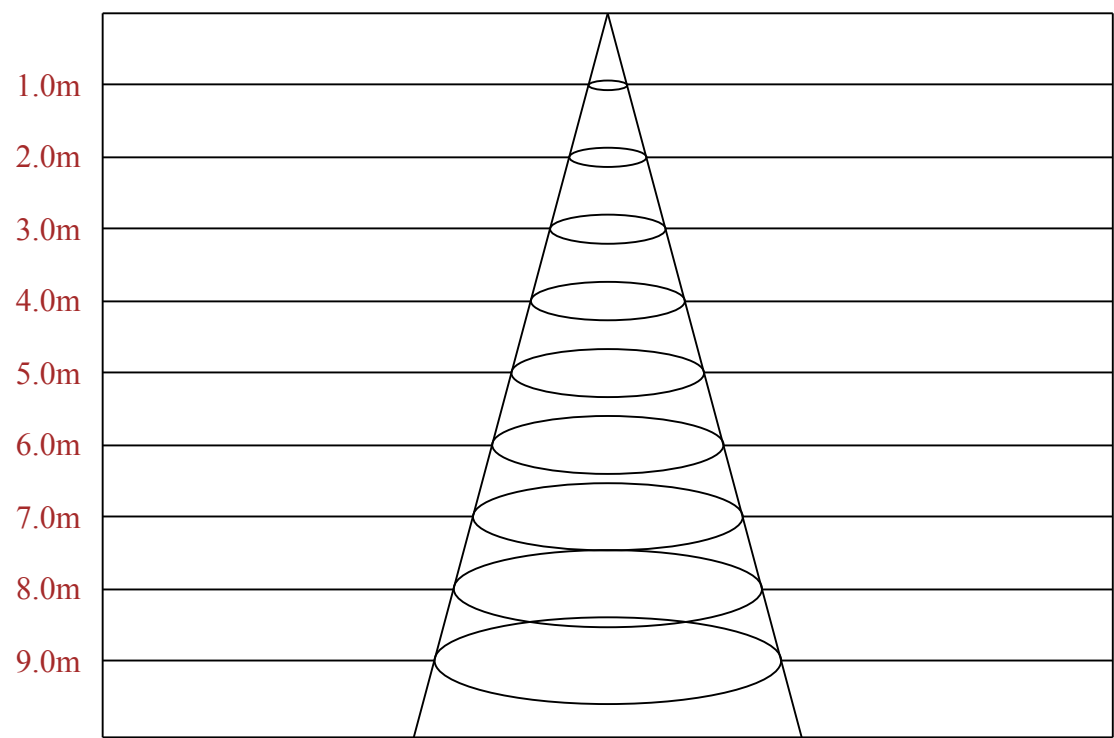
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	8.99	4.50%	4.50%
0-40	18.40	9.20%	9.20%
0-60	48.71	24.35%	24.35%
0-90	110.19	55.10%	55.10%
0-120	168.80	84.40%	84.40%
0-180	200.00	100.00%	100.00%
60-90	61.48	30.74%	30.74%
90-120	58.60	29.30%	29.30%
90-130	72.48	36.24%	36.24%
90-150	87.96	43.98%	43.98%
90-180	89.81	44.90%	44.90%
0-114.72	160.00	80.00%	80.00%

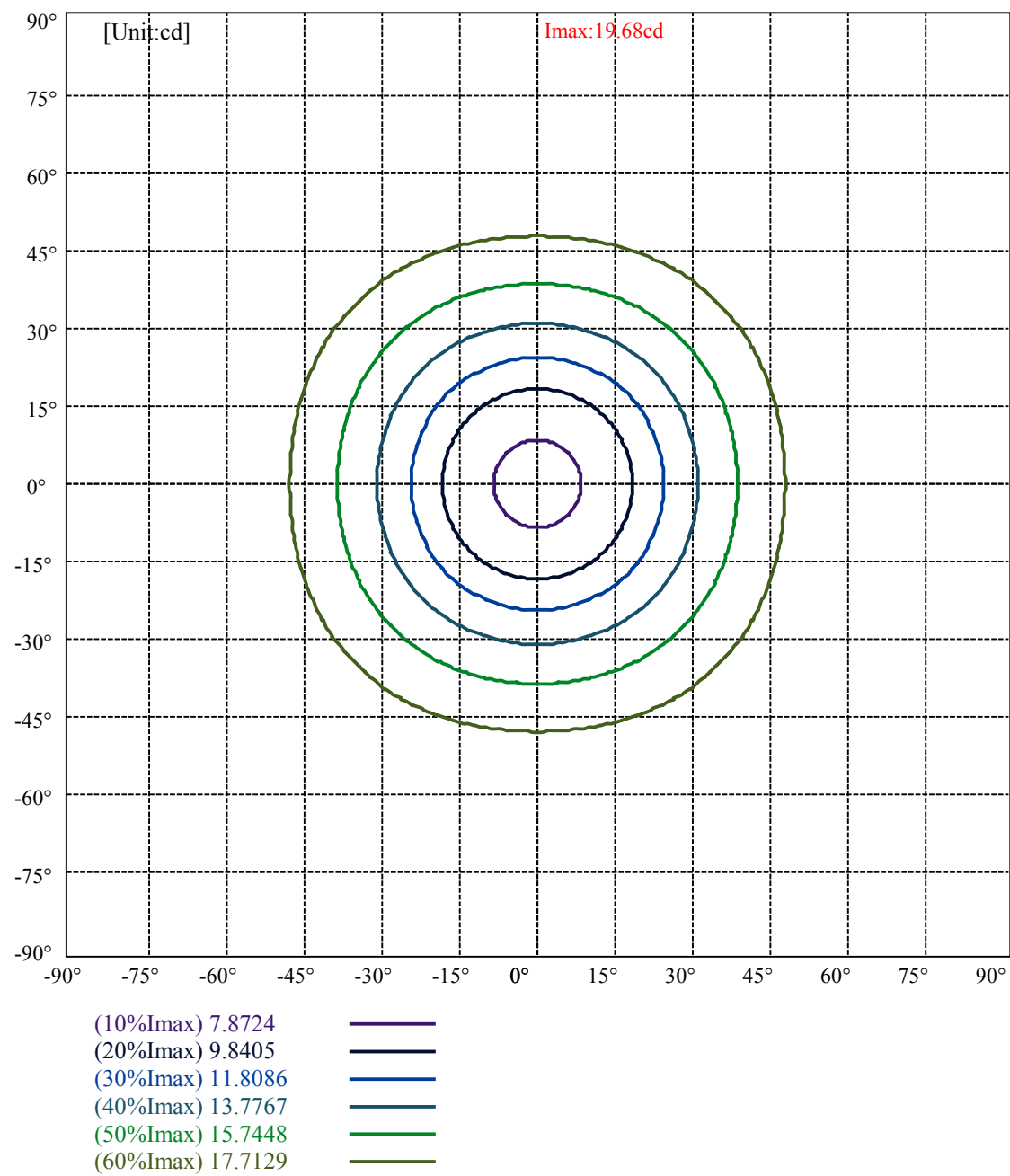
ZONAL LUMEN SUMMARY

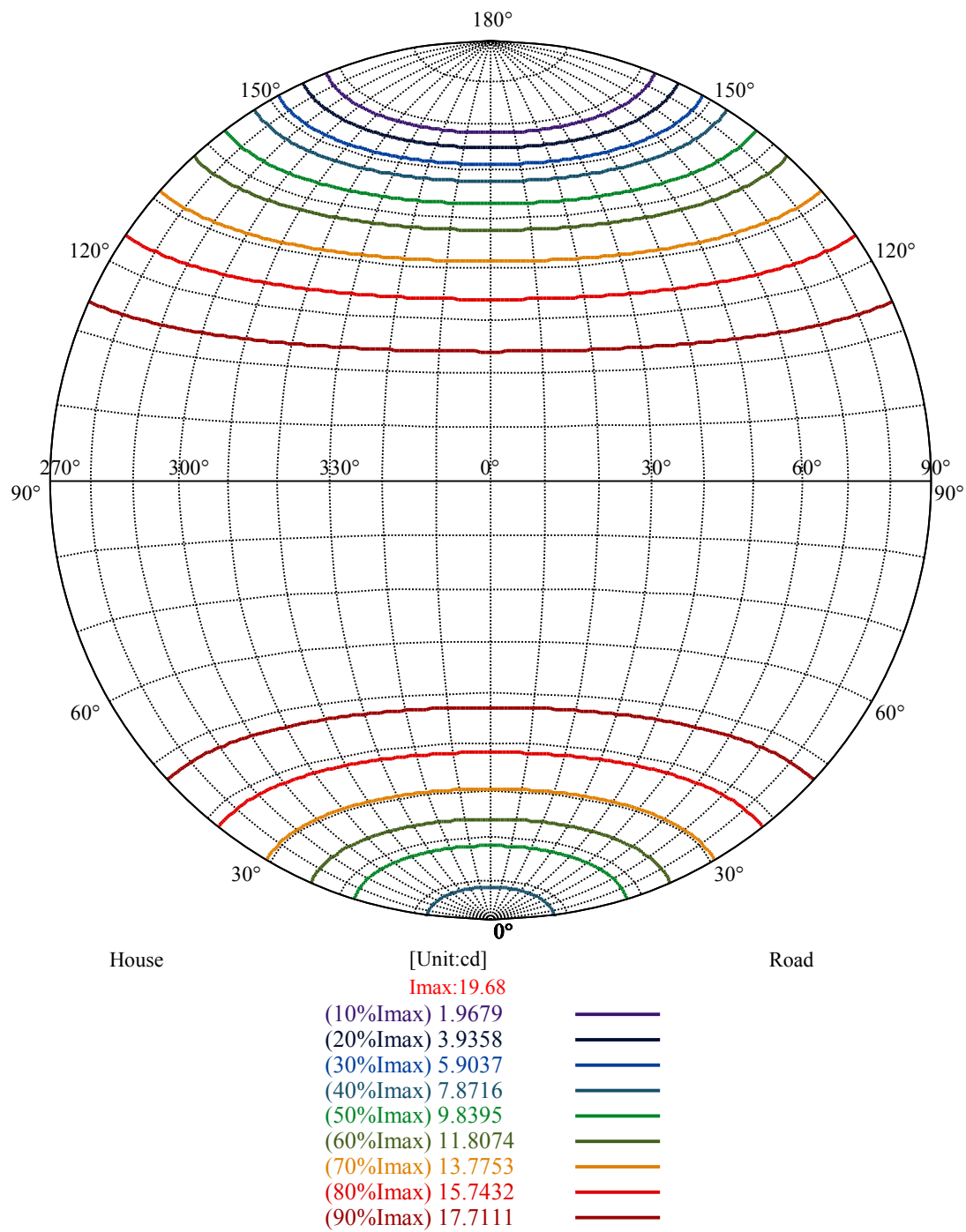
0-10	0.74
10-20	2.61
20-30	5.64
30-40	9.41
40-50	13.38
50-60	16.92
60-70	19.39
70-80	20.75
80-90	21.35
90-100	21.26
100-110	19.95
110-120	17.40
120-130	13.88
130-140	9.80
140-150	5.67
150-160	1.82
160-170	0.03
170-180	0.00

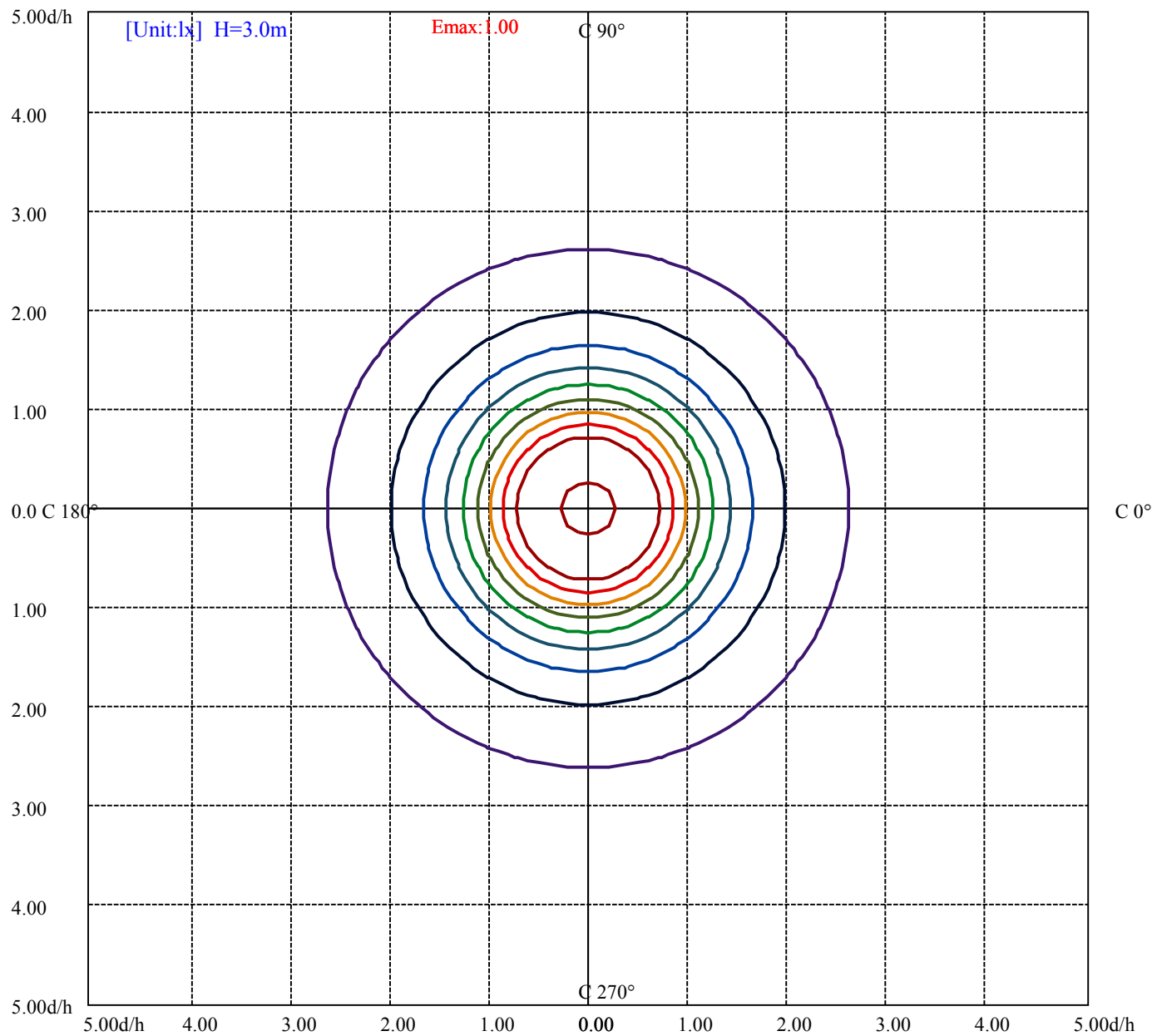




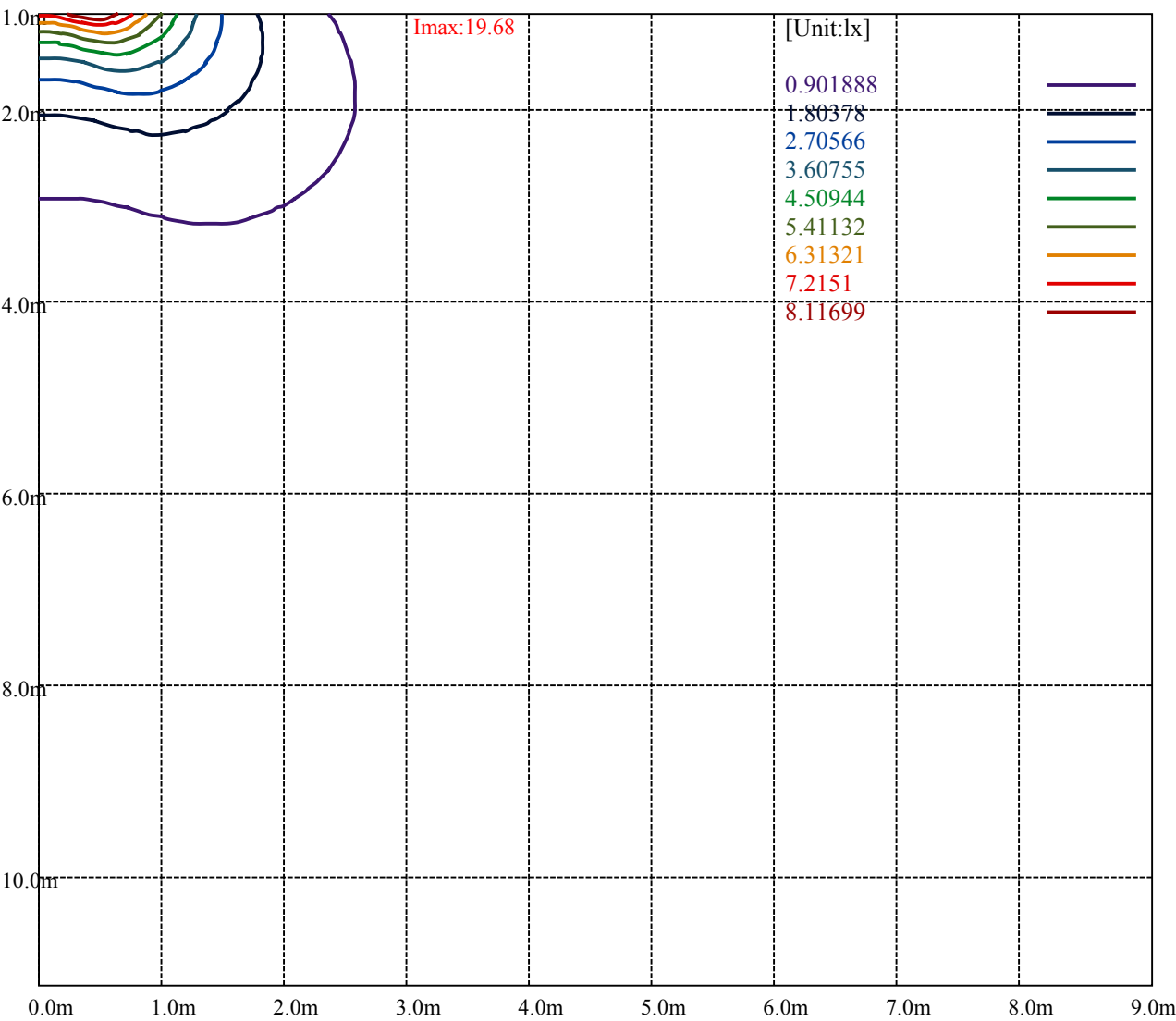
Max , Ave Beam angle of C0 plane 310.06







(10%Emax) 0.1002098	—
(20%Emax) 0.20042	—
(30%Emax) 0.3006289	—
(40%Emax) 0.4008389	—
(50%Emax) 0.5010489	—
(60%Emax) 0.6012589	—
(70%Emax) 0.7014678	—
(80%Emax) 0.8016778	—
(90%Emax) 0.9018878	—



C/ γ (°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
45.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
90.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
135.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
180.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
225.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
270.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
315.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
360.0	7.56	7.57	7.58	7.58	7.59	7.59	7.60	7.61	7.62
C/ γ (°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
45.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
90.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
135.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
180.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
225.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
270.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
315.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
360.0	7.63	7.64	7.66	7.68	7.72	7.76	7.80	7.84	7.89
C/ γ (°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
45.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
90.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
135.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
180.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
225.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
270.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
315.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
360.0	7.94	8.00	8.07	8.14	8.22	8.30	8.39	8.48	8.58
C/ γ (°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
45.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
90.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
135.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
180.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
225.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
270.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
315.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
360.0	8.67	8.77	8.88	9.00	9.12	9.25	9.38	9.52	9.67
C/ γ (°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
45.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
90.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
135.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
180.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
225.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
270.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
315.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08
360.0	9.82	9.97	10.12	10.27	10.43	10.58	10.75	10.91	11.08

C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
45.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
90.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
135.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
180.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
225.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
270.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
315.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
360.0	11.25	11.42	11.60	11.79	11.97	12.13	12.29	12.43	12.58
C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
45.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
90.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
135.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
180.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
225.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
270.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
315.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
360.0	12.74	12.89	13.05	13.20	13.36	13.50	13.63	13.76	13.89
C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
45.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
90.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
135.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
180.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
225.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
270.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
315.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
360.0	14.01	14.13	14.26	14.40	14.53	14.67	14.80	14.94	15.07
C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
45.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
90.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
135.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
180.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
225.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
270.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
315.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
360.0	15.19	15.32	15.45	15.57	15.70	15.83	15.95	16.07	16.19
C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
45.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
90.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
135.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
180.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
225.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
270.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
315.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18
360.0	16.31	16.42	16.53	16.65	16.76	16.87	16.97	17.08	17.18

Intensity data(cd)

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C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
45.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
90.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
135.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
180.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
225.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
270.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
315.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
360.0	17.28	17.38	17.48	17.57	17.67	17.76	17.85	17.95	18.04
C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
45.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
90.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
135.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
180.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
225.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
270.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
315.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
360.0	18.13	18.21	18.30	18.38	18.45	18.53	18.60	18.67	18.73
C/γ(°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0
0.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
45.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
90.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
135.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
180.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
225.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
270.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
315.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
360.0	18.79	18.85	18.90	18.95	19.00	19.04	19.09	19.13	19.17
C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
45.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
90.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
135.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
180.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
225.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
270.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
315.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
360.0	19.21	19.24	19.28	19.32	19.35	19.38	19.41	19.43	19.46
C/γ(°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
45.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
90.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
135.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
180.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
225.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
270.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
315.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60
360.0	19.48	19.49	19.51	19.53	19.54	19.55	19.57	19.58	19.60

C/γ(°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
45.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
90.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
135.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
180.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
225.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
270.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
315.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68
360.0	19.61	19.63	19.64	19.65	19.67	19.68	19.68	19.68	19.68

C/γ(°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
45.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
90.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
135.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
180.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
225.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
270.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
315.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58
360.0	19.67	19.66	19.65	19.64	19.63	19.61	19.60	19.59	19.58

C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
45.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
90.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
135.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
180.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
225.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
270.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
315.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57
360.0	19.58	19.58	19.57	19.57	19.56	19.56	19.56	19.57	19.57

C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
45.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
90.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
135.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
180.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
225.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
270.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
315.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57
360.0	19.56	19.56	19.56	19.56	19.57	19.56	19.56	19.57	19.57

C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
45.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
90.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
135.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
180.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
225.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
270.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
315.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58
360.0	19.57	19.57	19.58	19.57	19.57	19.57	19.57	19.58	19.58

Intensity data(cd)									Appendix Page: 23 Total:27
C/γ(°)	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0
0.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
45.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
90.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
135.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
180.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
225.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
270.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
315.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
360.0	19.58	19.57	19.57	19.57	19.57	19.56	19.55	19.55	19.54
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5
0.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
45.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
90.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
135.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
180.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
225.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
270.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
315.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
360.0	19.53	19.51	19.50	19.48	19.46	19.45	19.42	19.40	19.37
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0
0.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
45.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
90.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
135.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
180.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
225.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
270.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
315.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
360.0	19.35	19.32	19.29	19.25	19.22	19.18	19.14	19.10	19.06
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5
0.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
45.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
90.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
135.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
180.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
225.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
270.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
315.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
360.0	19.02	18.97	18.93	18.88	18.83	18.78	18.73	18.67	18.61
C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0
0.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
45.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
90.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
135.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
180.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
225.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
270.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
315.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02
360.0	18.56	18.50	18.43	18.37	18.30	18.23	18.17	18.10	18.02

Intensity data(cd)									Appendix Page: 24 Total:27
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5
0.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
45.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
90.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
135.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
180.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
225.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
270.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
315.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
360.0	17.95	17.87	17.79	17.71	17.63	17.54	17.46	17.37	17.28
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0
0.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
45.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
90.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
135.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
180.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
225.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
270.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
315.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
360.0	17.19	17.10	17.00	16.91	16.81	16.71	16.61	16.51	16.40
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5
0.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
45.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
90.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
135.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
180.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
225.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
270.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
315.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
360.0	16.29	16.18	16.07	15.96	15.84	15.72	15.60	15.48	15.36
C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0
0.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
45.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
90.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
135.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
180.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
225.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
270.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
315.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
360.0	15.23	15.10	14.98	14.84	14.71	14.57	14.43	14.30	14.16
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
0.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
45.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
90.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
135.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
180.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
225.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
270.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
315.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80
360.0	14.01	13.87	13.72	13.57	13.42	13.27	13.11	12.96	12.80

C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0
0.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
45.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
90.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
135.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
180.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
225.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
270.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
315.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
360.0	12.64	12.48	12.32	12.16	11.99	11.82	11.65	11.48	11.31
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5
0.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
45.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
90.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
135.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
180.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
225.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
270.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
315.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
360.0	11.13	10.95	10.77	10.59	10.40	10.20	10.00	9.80	9.61
C/γ(°)	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0
0.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
45.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
90.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
135.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
180.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
225.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
270.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
315.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
360.0	9.41	9.22	9.03	8.83	8.62	8.39	8.16	7.91	7.65
C/γ(°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5
0.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
45.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
90.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
135.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
180.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
225.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
270.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
315.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
360.0	7.38	7.11	6.83	6.54	6.26	5.98	5.72	5.46	5.20
C/γ(°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0
0.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
45.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
90.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
135.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
180.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
225.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
270.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
315.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65
360.0	4.94	4.67	4.38	4.09	3.80	3.50	3.21	2.93	2.65

C/γ(°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5
0.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
45.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
90.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
135.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
180.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
225.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
270.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
315.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
360.0	2.34	2.00	1.70	1.42	1.13	0.82	0.55	0.39	0.27
C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0
0.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.14	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)

Appendix Page: 27 Total:27

C/γ(°)	180.0
0.0	0.00
45.0	0.00
90.0	0.00
135.0	0.00
180.0	0.00
225.0	0.00
270.0	0.00
315.0	0.00
360.0	0.00