

Report No	:		Voltage	:	230 V
Test No	:	T2209854	Current	:	8.5 A
LumCAT	:	LIT by CARDI	Power	:	8.500 W
Luminaire	:	0019590004 LASTD01 8.5W 2700K 806lm	PF	:	0.0739
LampCAT	:		Ballast type	:	
Lamp flux	:	806.0 lm	Width	:	-60 mm
Number of Lamps	:	1	Length	:	-60 mm
Phm Type	:	C	Height	:	42 mm

Photometric Results

Lumens(lm)	:	806.00	Central intensity(cd)	:	128.539
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	128.806
Luminous Efficacy(lm/W)	:	94.82	Angle of maximum intensity	:	C=0.0 γ =2.0
Beam Angle(50%Imax)	:	[C0/180]Total=173.0 [C90/270]Total=173.0			
Field angle(10%Imax)	:	[C0/180]Total=296.2 [C90/270]Total=296.2			
Maximum s/h(1/2)	:	C0_180=1.45 C90_270=1.45			
Maximum s/h(1/4)	:	C0_180=1.61 C90_270=1.61			
Up flux rate of lamp(%)	:	23.63%			
Down flux rate of lamp(%)	:	76.37%			
Up flux rate of LUM(%)	:	23.63%			
Down flux rate of LUM(%)	:	76.37%			
CIE Type	:	Semidirect lighting			
Output flux ratio in π solid angle :	:	45.405%			

Zonal flux distribution table

Appendix Page: 2 Total:18

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	128.539	0.000	0	0.00%	0.00%
1.0	128.595	0.123	0.123	0.02%	0.02%
2.0	128.806	0.369	0.492	0.05%	0.06%
3.0	128.803	0.616	1.109	0.08%	0.14%
4.0	128.764	0.862	1.971	0.11%	0.24%
5.0	128.738	1.108	3.079	0.14%	0.38%
6.0	128.700	1.353	4.431	0.17%	0.55%
7.0	128.656	1.597	6.029	0.20%	0.75%
8.0	128.603	1.841	7.87	0.23%	0.98%
9.0	128.537	2.084	9.954	0.26%	1.23%
10.0	128.468	2.326	12.28	0.29%	1.52%
11.0	128.389	2.567	14.846	0.32%	1.84%
12.0	128.304	2.806	17.652	0.35%	2.19%
13.0	128.197	3.044	20.696	0.38%	2.57%
14.0	128.089	3.280	23.977	0.41%	2.97%
15.0	127.963	3.515	27.492	0.44%	3.41%
16.0	127.827	3.748	31.24	0.47%	3.88%
17.0	127.684	3.979	35.219	0.49%	4.37%
18.0	127.530	4.208	39.427	0.52%	4.89%
19.0	127.357	4.435	43.861	0.55%	5.44%
20.0	127.162	4.658	48.52	0.58%	6.02%
21.0	126.954	4.880	53.399	0.61%	6.63%
22.0	126.733	5.098	58.497	0.63%	7.26%
23.0	126.500	5.314	63.811	0.66%	7.92%
24.0	126.241	5.526	69.337	0.69%	8.60%
25.0	125.972	5.735	75.071	0.71%	9.31%
26.0	125.670	5.940	81.011	0.74%	10.05%
27.0	125.341	6.141	87.153	0.76%	10.81%
28.0	124.988	6.338	93.49	0.79%	11.60%
29.0	124.614	6.530	100.021	0.81%	12.41%
30.0	124.206	6.718	106.739	0.83%	13.24%
31.0	123.763	6.901	113.639	0.86%	14.10%
32.0	123.297	7.078	120.717	0.88%	14.98%
33.0	122.798	7.250	127.967	0.90%	15.88%
34.0	122.282	7.417	135.384	0.92%	16.80%
35.0	121.725	7.578	142.962	0.94%	17.74%
36.0	121.153	7.733	150.695	0.96%	18.70%
37.0	120.549	7.883	158.578	0.98%	19.67%

Zonal flux distribution table

Appendix Page: 3 Total:18

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	119.915	8.026	166.605	1.00%	20.67%
39.0	119.261	8.164	174.768	1.01%	21.68%
40.0	118.581	8.295	183.064	1.03%	22.71%
41.0	117.876	8.420	191.484	1.04%	23.76%
42.0	117.143	8.539	200.022	1.06%	24.82%
43.0	116.385	8.651	208.673	1.07%	25.89%
44.0	115.594	8.756	217.428	1.09%	26.98%
45.0	114.777	8.853	226.282	1.10%	28.07%
46.0	113.929	8.944	235.226	1.11%	29.18%
47.0	113.066	9.028	244.254	1.12%	30.30%
48.0	112.167	9.105	253.359	1.13%	31.43%
49.0	111.250	9.175	262.534	1.14%	32.57%
50.0	110.305	9.237	271.771	1.15%	33.72%
51.0	109.330	9.292	281.064	1.15%	34.87%
52.0	108.331	9.340	290.404	1.16%	36.03%
53.0	107.307	9.380	299.784	1.16%	37.19%
54.0	106.261	9.413	309.197	1.17%	38.36%
55.0	105.188	9.439	318.636	1.17%	39.53%
56.0	104.092	9.457	328.093	1.17%	40.71%
57.0	102.982	9.468	337.561	1.17%	41.88%
58.0	101.851	9.472	347.033	1.18%	43.06%
59.0	100.697	9.469	356.502	1.17%	44.23%
60.0	99.517	9.459	365.961	1.17%	45.40%
61.0	98.318	9.441	375.402	1.17%	46.58%
62.0	97.105	9.417	384.819	1.17%	47.74%
63.0	95.878	9.386	394.204	1.16%	48.91%
64.0	94.633	9.348	403.553	1.16%	50.07%
65.0	93.368	9.304	412.857	1.15%	51.22%
66.0	92.092	9.253	422.11	1.15%	52.37%
67.0	90.807	9.197	431.307	1.14%	53.51%
68.0	89.497	9.134	440.44	1.13%	54.65%
69.0	88.177	9.064	449.504	1.12%	55.77%
70.0	86.844	8.989	458.493	1.12%	56.88%
71.0	85.499	8.908	467.401	1.11%	57.99%
72.0	84.138	8.821	476.221	1.09%	59.08%
73.0	82.779	8.729	484.95	1.08%	60.17%
74.0	81.419	8.632	493.582	1.07%	61.24%
75.0	80.042	8.531	502.113	1.06%	62.30%

Zonal flux distribution table

Appendix Page: 4 Total:18

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	78.670	8.425	510.538	1.05%	63.34%
77.0	77.286	8.315	518.853	1.03%	64.37%
78.0	75.902	8.200	527.053	1.02%	65.39%
79.0	74.531	8.083	535.136	1.00%	66.39%
80.0	73.172	7.963	543.099	0.99%	67.38%
81.0	71.800	7.840	550.939	0.97%	68.35%
82.0	70.429	7.713	558.652	0.96%	69.31%
83.0	69.067	7.583	566.235	0.94%	70.25%
84.0	67.711	7.451	573.686	0.92%	71.18%
85.0	66.363	7.317	581.004	0.91%	72.08%
86.0	65.031	7.182	588.186	0.89%	72.98%
87.0	63.715	7.046	595.232	0.87%	73.85%
88.0	62.398	6.908	602.14	0.86%	74.71%
89.0	61.090	6.769	608.909	0.84%	75.55%
90.0	59.797	6.628	615.537	0.82%	76.37%
91.0	58.516	6.487	622.024	0.80%	77.17%
92.0	57.248	6.345	628.369	0.79%	77.96%
93.0	56.001	6.204	634.573	0.77%	78.73%
94.0	54.771	6.062	640.635	0.75%	79.48%
95.0	53.552	5.921	646.556	0.73%	80.22%
96.0	52.350	5.780	652.336	0.72%	80.93%
97.0	51.167	5.639	657.975	0.70%	81.63%
98.0	50.009	5.500	663.475	0.68%	82.32%
99.0	48.861	5.362	668.837	0.67%	82.98%
100.0	47.736	5.224	674.061	0.65%	83.63%
101.0	46.632	5.088	679.148	0.63%	84.26%
102.0	45.552	4.953	684.101	0.61%	84.88%
103.0	44.482	4.820	688.921	0.60%	85.47%
104.0	43.433	4.687	693.608	0.58%	86.06%
105.0	42.403	4.557	698.165	0.57%	86.62%
106.0	41.394	4.428	702.592	0.55%	87.17%
107.0	40.403	4.300	706.893	0.53%	87.70%
108.0	39.428	4.175	711.067	0.52%	88.22%
109.0	38.475	4.051	715.118	0.50%	88.72%
110.0	37.540	3.929	719.047	0.49%	89.21%
111.0	36.625	3.809	722.856	0.47%	89.68%
112.0	35.716	3.690	726.546	0.46%	90.14%
113.0	34.832	3.574	730.12	0.44%	90.59%

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	33.967	3.459	733.579	0.43%	91.01%
115.0	33.124	3.347	736.927	0.42%	91.43%
116.0	32.300	3.238	740.165	0.40%	91.83%
117.0	31.484	3.130	743.294	0.39%	92.22%
118.0	30.680	3.023	746.318	0.38%	92.60%
119.0	29.900	2.919	749.237	0.36%	92.96%
120.0	29.136	2.817	752.054	0.35%	93.31%
121.0	28.389	2.718	754.772	0.34%	93.64%
122.0	27.656	2.620	757.392	0.33%	93.97%
123.0	26.934	2.524	759.916	0.31%	94.28%
124.0	26.226	2.431	762.347	0.30%	94.58%
125.0	25.534	2.339	764.686	0.29%	94.87%
126.0	24.857	2.249	766.935	0.28%	95.15%
127.0	24.192	2.162	769.097	0.27%	95.42%
128.0	23.538	2.076	771.173	0.26%	95.68%
129.0	22.893	1.992	773.166	0.25%	95.93%
130.0	22.261	1.910	775.076	0.24%	96.16%
131.0	21.645	1.831	776.907	0.23%	96.39%
132.0	21.040	1.753	778.66	0.22%	96.61%
133.0	20.454	1.677	780.337	0.21%	96.82%
134.0	19.879	1.604	781.941	0.20%	97.01%
135.0	19.318	1.533	783.474	0.19%	97.21%
136.0	18.761	1.463	784.938	0.18%	97.39%
137.0	18.214	1.396	786.333	0.17%	97.56%
138.0	17.682	1.330	787.663	0.16%	97.72%
139.0	17.160	1.266	788.929	0.16%	97.88%
140.0	16.651	1.204	790.133	0.15%	98.03%
141.0	16.154	1.144	791.277	0.14%	98.17%
142.0	15.666	1.086	792.363	0.13%	98.31%
143.0	15.189	1.030	793.393	0.13%	98.44%
144.0	14.719	0.975	794.368	0.12%	98.56%
145.0	14.257	0.923	795.291	0.11%	98.67%
146.0	13.805	0.872	796.162	0.11%	98.78%
147.0	13.362	0.822	796.984	0.10%	98.88%
148.0	12.931	0.775	797.759	0.10%	98.98%
149.0	12.503	0.729	798.488	0.09%	99.07%
150.0	12.086	0.684	799.172	0.08%	99.15%
151.0	11.684	0.642	799.814	0.08%	99.23%

Zonal flux distribution table

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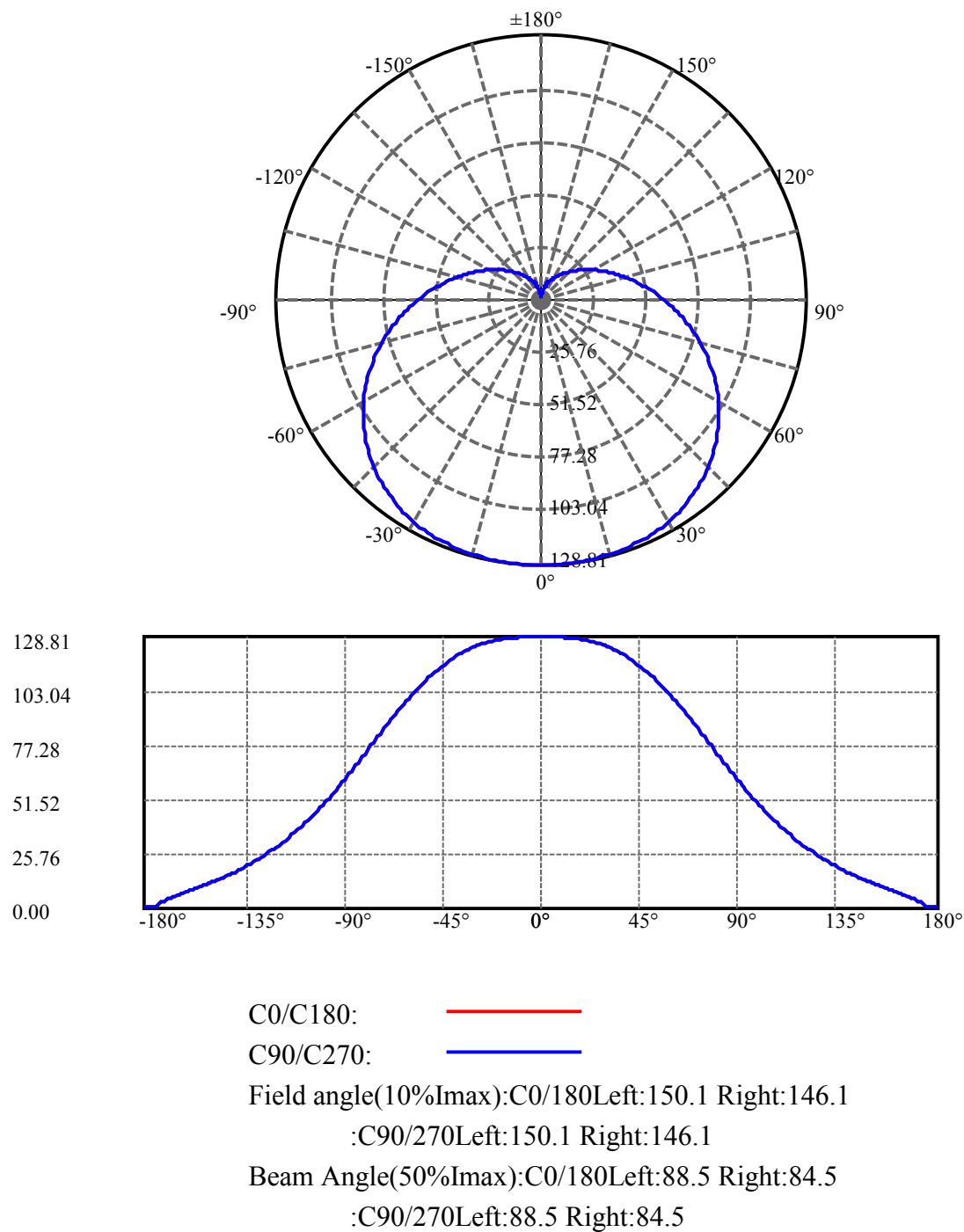
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	11.295	0.601	800.415	0.07%	99.31%
153.0	10.910	0.562	800.977	0.07%	99.38%
154.0	10.522	0.524	801.502	0.07%	99.44%
155.0	10.141	0.488	801.989	0.06%	99.50%
156.0	9.769	0.453	802.442	0.06%	99.56%
157.0	9.403	0.419	802.861	0.05%	99.61%
158.0	9.040	0.387	803.248	0.05%	99.66%
159.0	8.675	0.356	803.604	0.04%	99.70%
160.0	8.305	0.326	803.93	0.04%	99.74%
161.0	7.932	0.297	804.227	0.04%	99.78%
162.0	7.554	0.269	804.497	0.03%	99.81%
163.0	7.165	0.243	804.739	0.03%	99.84%
164.0	6.768	0.217	804.956	0.03%	99.87%
165.0	6.356	0.192	805.149	0.02%	99.89%
166.0	5.926	0.169	805.317	0.02%	99.92%
167.0	5.489	0.146	805.463	0.02%	99.93%
168.0	5.056	0.125	805.589	0.02%	99.95%
169.0	4.611	0.106	805.694	0.01%	99.96%
170.0	4.128	0.087	805.782	0.01%	99.97%
171.0	3.568	0.070	805.851	0.01%	99.98%
172.0	2.875	0.052	805.903	0.01%	99.99%
173.0	2.128	0.036	805.939	0.00%	99.99%
174.0	1.516	0.023	805.962	0.00%	100.00%
175.0	1.142	0.014	805.976	0.00%	100.00%
176.0	1.014	0.009	805.985	0.00%	100.00%
177.0	0.993	0.007	805.992	0.00%	100.00%
178.0	0.992	0.005	805.997	0.00%	100.00%
179.0	0.991	0.003	805.999	0.00%	100.00%
180.0	0.990	0.001	806	0.00%	100.00%

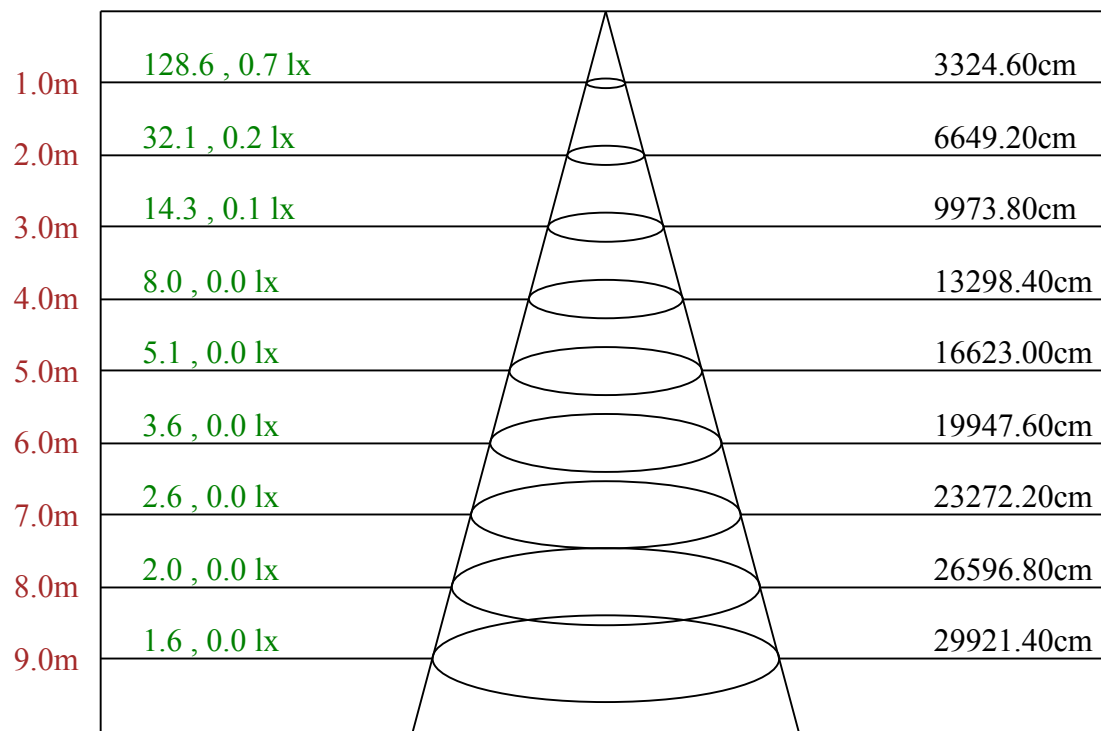
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	106.74	13.24%	13.24%
0-40	183.06	22.71%	22.71%
0-60	365.96	45.40%	45.40%
0-90	615.54	76.37%	76.37%
0-120	752.05	93.31%	93.31%
0-180	806.00	100.00%	100.00%
60-90	249.58	30.96%	30.96%
90-120	136.52	16.94%	16.94%
90-130	159.54	19.79%	19.79%
90-150	183.64	22.78%	22.78%
90-180	190.46	23.63%	23.63%
0-94.70	644.80	80.00%	80.00%

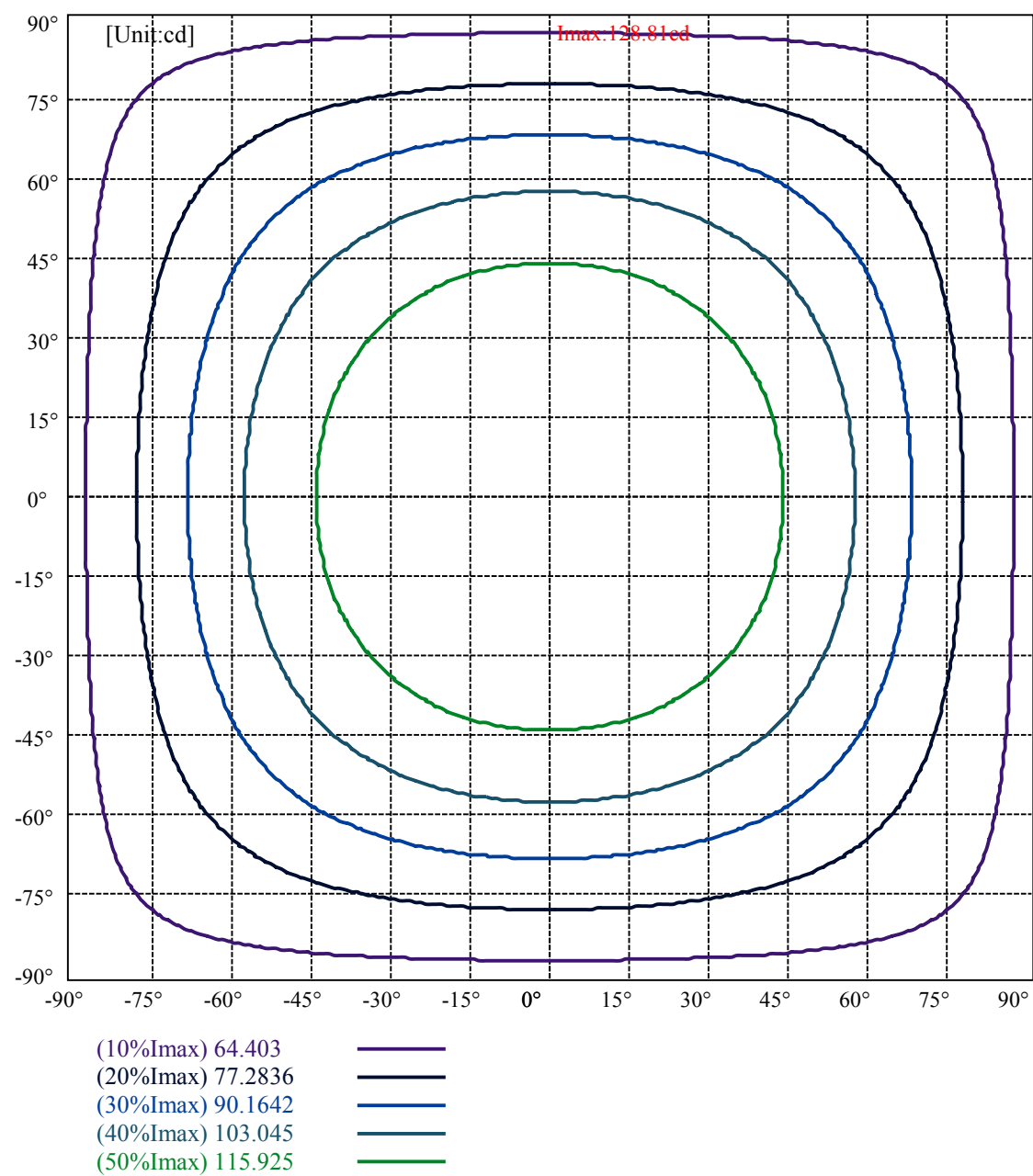
ZONAL LUMEN SUMMARY

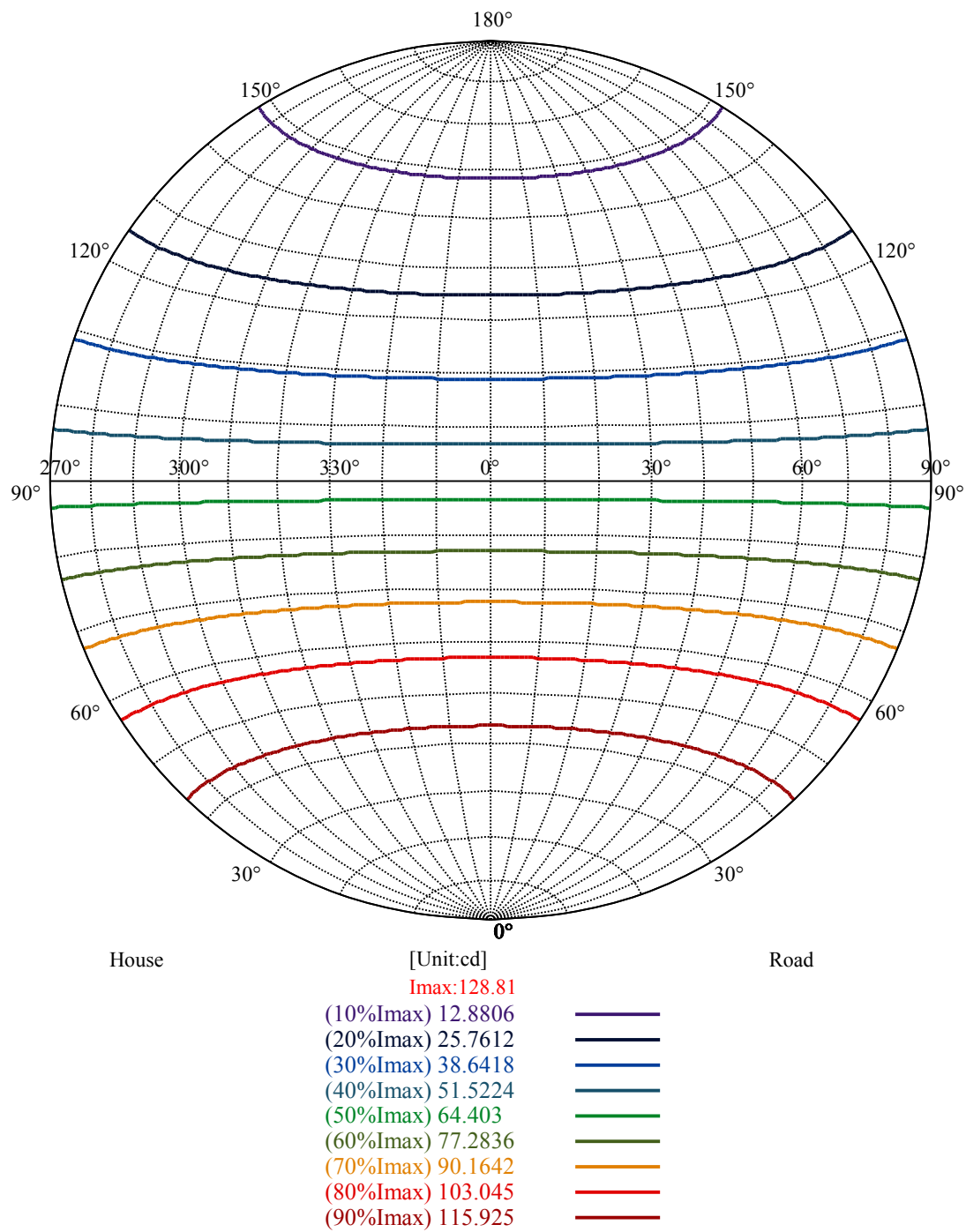
0-10	12.28
10-20	36.24
20-30	58.22
30-40	76.32
40-50	88.71
50-60	94.19
60-70	92.53
70-80	84.61
80-90	72.44
90-100	58.52
100-110	44.99
110-120	33.01
120-130	23.02
130-140	15.06
140-150	9.04
150-160	4.76
160-170	1.85
170-180	0.22

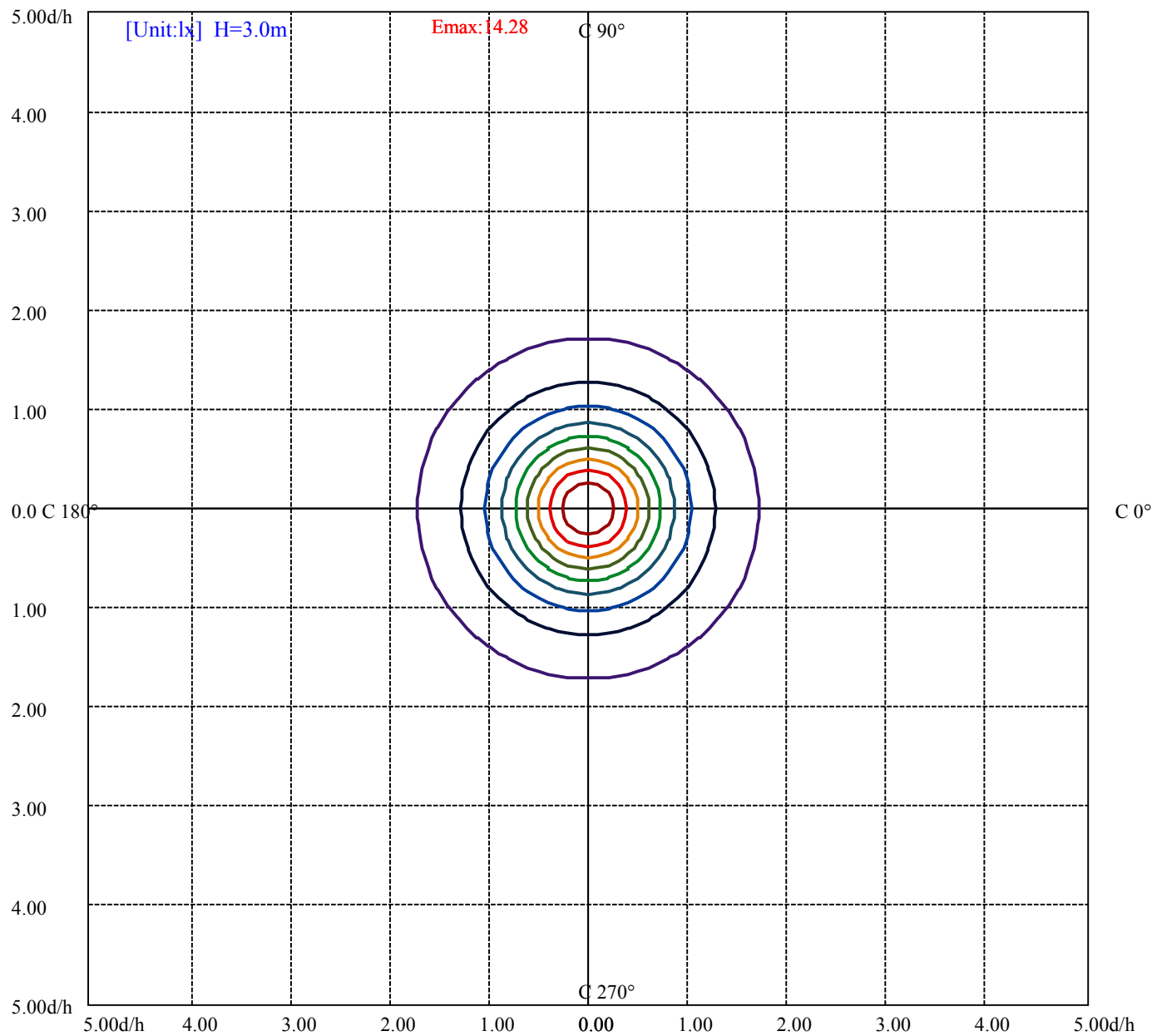




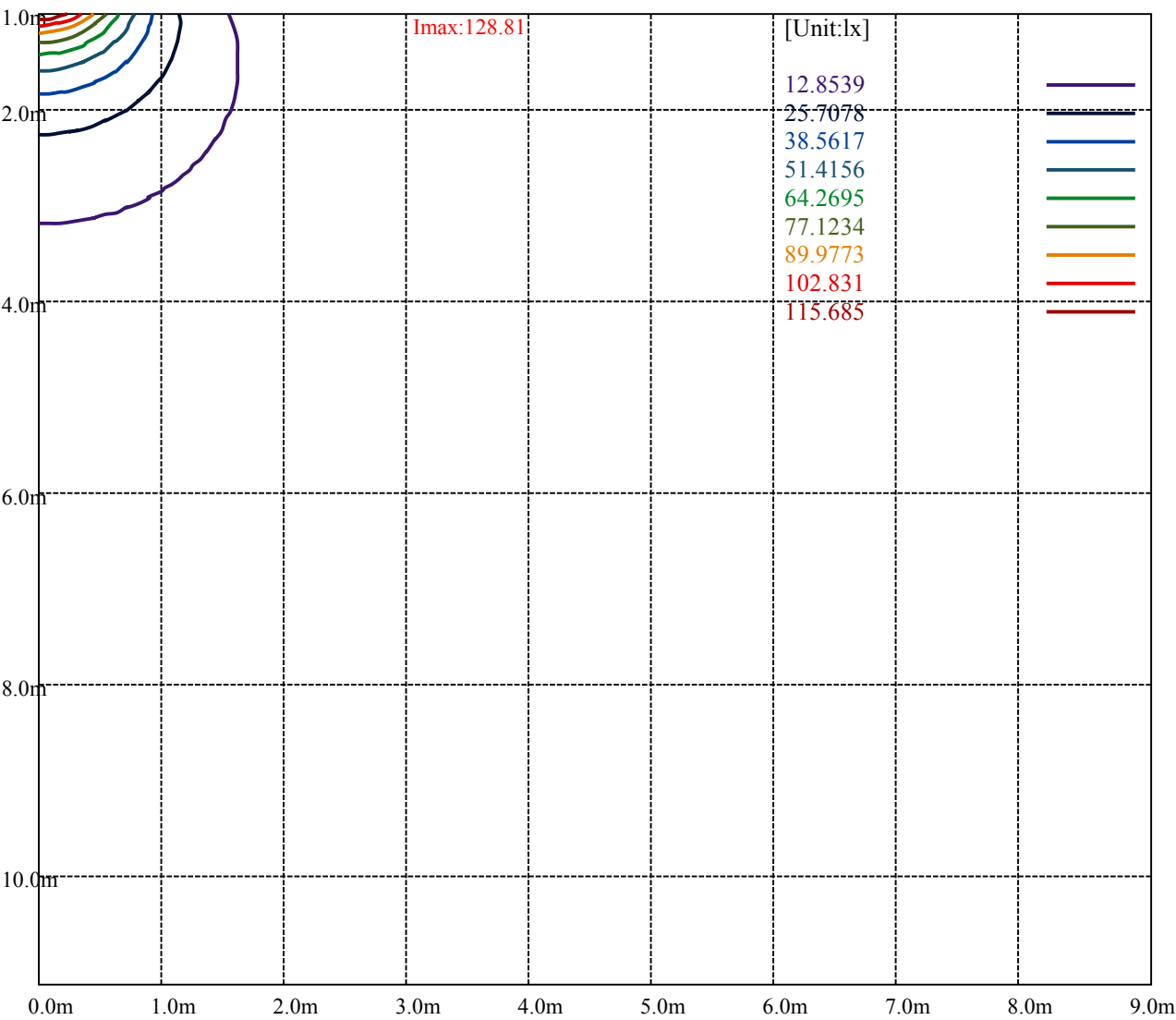
Max , Ave Beam angle of C0 plane 173.11







(10%Emax)	1.428211	—
(20%Emax)	2.856422	—
(30%Emax)	4.284633	—
(40%Emax)	5.712844	—
(50%Emax)	7.141056	—
(60%Emax)	8.569266	—
(70%Emax)	9.997478	—
(80%Emax)	11.42567	—
(90%Emax)	12.85389	—



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	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
45.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
90.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
135.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
180.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
225.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
270.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
315.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
360.0	128.54	128.60	128.81	128.80	128.76	128.74	128.70	128.66	128.60
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
45.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
90.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
135.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
180.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
225.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
270.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
315.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
360.0	128.54	128.47	128.39	128.30	128.20	128.09	127.96	127.83	127.68
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
45.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
90.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
135.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
180.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
225.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
270.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
315.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
360.0	127.53	127.36	127.16	126.95	126.73	126.50	126.24	125.97	125.67
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
45.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
90.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
135.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
180.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
225.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
270.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
315.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
360.0	125.34	124.99	124.61	124.21	123.76	123.30	122.80	122.28	121.73
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
45.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
90.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
135.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
180.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
225.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
270.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
315.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59
360.0	121.15	120.55	119.92	119.26	118.58	117.88	117.14	116.39	115.59

Intensity data(cd)										Appendix Page: 15 Total:18	
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
45.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
90.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
135.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
180.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
225.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
270.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
315.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
360.0	114.78	113.93	113.07	112.17	111.25	110.31	109.33	108.33	107.31		
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
45.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
90.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
135.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
180.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
225.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
270.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
315.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
360.0	106.26	105.19	104.09	102.98	101.85	100.70	99.52	98.32	97.11		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
45.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
90.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
135.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
180.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
225.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
270.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
315.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
360.0	95.88	94.63	93.37	92.09	90.81	89.50	88.18	86.84	85.50		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
45.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
90.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
135.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
180.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
225.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
270.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
315.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
360.0	84.14	82.78	81.42	80.04	78.67	77.29	75.90	74.53	73.17		
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
45.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
90.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
135.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
180.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
225.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
270.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
315.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		
360.0	71.80	70.43	69.07	67.71	66.36	65.03	63.72	62.40	61.09		

Intensity data(cd)									Appendix Page: 16 Total:18
C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
45.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
90.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
135.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
180.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
225.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
270.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
315.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
360.0	59.80	58.52	57.25	56.00	54.77	53.55	52.35	51.17	50.01
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
45.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
90.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
135.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
180.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
225.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
270.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
315.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
360.0	48.86	47.74	46.63	45.55	44.48	43.43	42.40	41.39	40.40
C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
45.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
90.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
135.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
180.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
225.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
270.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
315.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
360.0	39.43	38.48	37.54	36.63	35.72	34.83	33.97	33.12	32.30
C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
45.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
90.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
135.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
180.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
225.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
270.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
315.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
360.0	31.48	30.68	29.90	29.14	28.39	27.66	26.93	26.23	25.53
C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
45.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
90.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
135.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
180.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
225.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
270.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
315.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88
360.0	24.86	24.19	23.54	22.89	22.26	21.65	21.04	20.45	19.88

C/ γ (°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
45.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
90.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
135.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
180.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
225.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
270.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
315.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
360.0	19.32	18.76	18.21	17.68	17.16	16.65	16.15	15.67	15.19
C/ γ (°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
45.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
90.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
135.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
180.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
225.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
270.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
315.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
360.0	14.72	14.26	13.81	13.36	12.93	12.50	12.09	11.68	11.30
C/ γ (°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
45.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
90.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
135.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
180.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
225.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
270.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
315.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
360.0	10.91	10.52	10.14	9.77	9.40	9.04	8.68	8.30	7.93
C/ γ (°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
45.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
90.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
135.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
180.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
225.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
270.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
315.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
360.0	7.55	7.17	6.77	6.36	5.93	5.49	5.06	4.61	4.13
C/ γ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
45.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
90.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
135.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
180.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
225.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
270.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
315.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99
360.0	3.57	2.88	2.13	1.52	1.14	1.01	0.99	0.99	0.99

Intensity data(cd)

Appendix Page: 18 Total:18

C/γ(°)	180.0
0.0	0.99
45.0	0.99
90.0	0.99
135.0	0.99
180.0	0.99
225.0	0.99
270.0	0.99
315.0	0.99
360.0	0.99