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Client:

LumCAT: B7810

Luminaire:

Report No:

Ballast type:

Test No: BST24111504-9

Voltage(V): 120.000

LampCAT:

Current(A): 0.042

Lamp flux(lm)

Power (W): 5.011

Number of Lamps: 1

PF: 0.984

Length(mm): 280

Width(mm): 280

Phm Type: C

Height(mm): 0

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Photometric Results

Lumens(lm): 285.85, Luminous Efficacy(lm/W): 57.05

Central intensity(cd): 99.93, Maximum intensity(cd): 100.27

Angle of maximum intensity:  $C=0.0$   $\gamma=1.0$

Beam Angle(50%Imax): [C0/180]Total=121.2

[C90/270]Total=119.2

Field angle(10%Imax): [C0/180]Total=147.8

[C90/270]Total=147.6

Beam angle of C0 plane : 121.06

IES Classification : TypeVS

Longitudinal Classification : VeryShort

Cut Off Classification : FullCutoff

Max Cd(At 90°Vert) : 0

Max Cd(80 to 90°Vert) : 1.637069

Street Side UpWard Lumens: 0.18%of Luminaire

Street Side DownWard Lumens: 48.97%of Luminaire

House Side UpWard Lumens: 0.16%of Luminaire

House Side DownWard Lumens: 50.68%of Luminaire

SLI: --- (C Flash Area: 0.019)

Throw: 101.1 (long), Spread: 25.9 (narrow), Control: --- (tight)

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Equipment: GMS-1800  
Temperature(°C): 25.0

Date: 2024-11-15  
Humidity(%): 59.0%

Operator: Liao  
Distance(m): 11.68

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	99.929	0.000	0.000	0.000%	0.000%
1.0	99.946	0.096	0.096	0.033%	0.033%
2.0	99.904	0.287	0.382	0.100%	0.134%
3.0	99.827	0.478	0.860	0.167%	0.301%
4.0	99.699	0.668	1.528	0.234%	0.535%
5.0	99.605	0.857	2.385	0.300%	0.835%
6.0	99.460	1.046	3.432	0.366%	1.200%
7.0	99.222	1.233	4.665	0.431%	1.632%
8.0	99.060	1.419	6.084	0.496%	2.128%
9.0	98.761	1.603	7.687	0.561%	2.689%
10.0	98.488	1.785	9.472	0.624%	3.314%
11.0	98.122	1.965	11.437	0.687%	4.001%
12.0	97.678	2.140	13.577	0.749%	4.750%
13.0	97.278	2.314	15.891	0.809%	5.559%
14.0	96.851	2.485	18.376	0.869%	6.428%
15.0	96.289	2.652	21.027	0.928%	7.356%
16.0	95.794	2.815	23.842	0.985%	8.340%
17.0	95.214	2.975	26.816	1.041%	9.381%
18.0	94.652	3.130	29.947	1.095%	10.476%
19.0	94.097	3.284	33.230	1.149%	11.625%
20.0	93.339	3.431	36.661	1.200%	12.825%
21.0	92.733	3.573	40.234	1.250%	14.075%
22.0	92.094	3.714	43.948	1.299%	15.374%
23.0	91.394	3.850	47.798	1.347%	16.721%
24.0	90.653	3.980	51.778	1.392%	18.114%
25.0	89.868	4.105	55.883	1.436%	19.550%
26.0	89.212	4.227	60.110	1.479%	21.028%
27.0	88.572	4.350	64.460	1.522%	22.550%
28.0	87.609	4.461	68.920	1.560%	24.110%
29.0	86.850	4.564	73.485	1.597%	25.707%
30.0	85.980	4.666	78.151	1.632%	27.340%
31.0	85.255	4.765	82.916	1.667%	29.007%
32.0	84.497	4.863	87.779	1.701%	30.708%
33.0	83.354	4.945	92.724	1.730%	32.438%
34.0	82.663	5.024	97.749	1.758%	34.195%
35.0	81.751	5.106	102.855	1.786%	35.982%
36.0	80.745	5.174	108.029	1.810%	37.792%
37.0	79.824	5.237	113.266	1.832%	39.624%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	78.648	5.290	118.555	1.850%	41.474%
39.0	77.795	5.340	123.895	1.868%	43.342%
40.0	76.925	5.396	129.291	1.888%	45.230%
41.0	75.731	5.436	134.727	1.902%	47.132%
42.0	74.657	5.464	140.191	1.911%	49.043%
43.0	73.463	5.487	145.678	1.919%	50.962%
44.0	72.440	5.507	151.185	1.926%	52.889%
45.0	71.426	5.529	156.713	1.934%	54.823%
46.0	69.925	5.528	162.241	1.934%	56.757%
47.0	68.859	5.520	167.761	1.931%	58.688%
48.0	67.674	5.519	173.281	1.931%	60.619%
49.0	66.378	5.505	178.785	1.926%	62.544%
50.0	65.133	5.483	184.269	1.918%	64.463%
51.0	63.633	5.448	189.717	1.906%	66.368%
52.0	62.464	5.411	195.127	1.893%	68.261%
53.0	61.296	5.384	200.511	1.883%	70.145%
54.0	59.693	5.333	205.844	1.866%	72.010%
55.0	58.252	5.265	211.109	1.842%	73.852%
56.0	56.573	5.189	216.297	1.815%	75.667%
57.0	55.055	5.104	221.401	1.785%	77.453%
58.0	53.580	5.024	226.425	1.757%	79.210%
59.0	51.542	4.915	231.339	1.719%	80.929%
60.0	49.948	4.795	236.134	1.677%	82.607%
61.0	48.515	4.699	240.833	1.644%	84.250%
62.0	46.750	4.590	245.423	1.606%	85.856%
63.0	45.258	4.475	249.898	1.565%	87.422%
64.0	43.604	4.360	254.259	1.525%	88.947%
65.0	42.317	4.252	258.511	1.488%	90.435%
66.0	40.407	4.127	262.638	1.444%	91.879%
67.0	37.414	3.913	266.551	1.369%	93.247%
68.0	33.944	3.615	270.166	1.265%	94.512%
69.0	29.288	3.226	273.392	1.128%	95.641%
70.0	24.513	2.763	276.155	0.967%	96.607%
71.0	19.261	2.263	278.417	0.791%	97.399%
72.0	14.708	1.766	280.184	0.618%	98.017%
73.0	12.159	1.405	281.589	0.491%	98.508%
74.0	9.336	1.130	282.719	0.395%	98.903%
75.0	6.395	0.831	283.550	0.291%	99.194%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.476	0.577	284.127	0.202%	99.396%
77.0	2.481	0.371	284.498	0.130%	99.526%
78.0	1.305	0.203	284.700	0.071%	99.597%
79.0	0.699	0.108	284.808	0.038%	99.634%
80.0	0.171	0.047	284.855	0.016%	99.651%
81.0	0.043	0.012	284.867	0.004%	99.655%
82.0	0.000	0.002	284.869	0.001%	99.656%
83.0	0.000	0.000	284.869	0.000%	99.656%
84.0	0.026	0.001	284.870	0.000%	99.656%
85.0	0.009	0.002	284.872	0.001%	99.657%
86.0	0.000	0.000	284.873	0.000%	99.657%
87.0	0.000	0.000	284.873	0.000%	99.657%
88.0	0.009	0.000	284.873	0.000%	99.657%
89.0	0.000	0.000	284.873	0.000%	99.657%
90.0	0.000	0.000	284.873	0.000%	99.657%
91.0	0.000	0.000	284.873	0.000%	99.657%
92.0	0.000	0.000	284.873	0.000%	99.657%
93.0	0.009	0.000	284.874	0.000%	99.657%
94.0	0.000	0.000	284.874	0.000%	99.658%
95.0	0.000	0.000	284.874	0.000%	99.658%
96.0	0.000	0.000	284.874	0.000%	99.658%
97.0	0.017	0.001	284.875	0.000%	99.658%
98.0	0.000	0.001	284.876	0.000%	99.658%
99.0	0.017	0.001	284.877	0.000%	99.659%
100.0	0.009	0.001	284.879	0.000%	99.659%
101.0	0.009	0.001	284.879	0.000%	99.659%
102.0	0.009	0.001	284.880	0.000%	99.660%
103.0	0.017	0.001	284.882	0.000%	99.660%
104.0	0.017	0.002	284.884	0.001%	99.661%
105.0	0.034	0.003	284.886	0.001%	99.662%
106.0	0.017	0.003	284.889	0.001%	99.663%
107.0	0.043	0.003	284.892	0.001%	99.664%
108.0	0.051	0.005	284.897	0.002%	99.665%
109.0	0.068	0.006	284.903	0.002%	99.668%
110.0	0.060	0.007	284.910	0.002%	99.670%
111.0	0.077	0.007	284.917	0.002%	99.672%
112.0	0.094	0.009	284.926	0.003%	99.675%
113.0	0.077	0.009	284.934	0.003%	99.678%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	0.111	0.009	284.944	0.003%	99.682%
115.0	0.094	0.010	284.954	0.004%	99.685%
116.0	0.094	0.009	284.963	0.003%	99.689%
117.0	0.111	0.010	284.973	0.004%	99.692%
118.0	0.111	0.011	284.984	0.004%	99.696%
119.0	0.111	0.011	284.995	0.004%	99.700%
120.0	0.128	0.011	285.006	0.004%	99.704%
121.0	0.153	0.013	285.019	0.005%	99.708%
122.0	0.179	0.016	285.035	0.005%	99.714%
123.0	0.145	0.015	285.050	0.005%	99.719%
124.0	0.188	0.015	285.065	0.005%	99.724%
125.0	0.145	0.015	285.080	0.005%	99.729%
126.0	0.179	0.014	285.095	0.005%	99.735%
127.0	0.205	0.017	285.111	0.006%	99.740%
128.0	0.196	0.017	285.129	0.006%	99.747%
129.0	0.196	0.017	285.146	0.006%	99.752%
130.0	0.171	0.016	285.161	0.005%	99.758%
131.0	0.213	0.016	285.177	0.006%	99.763%
132.0	0.230	0.018	285.195	0.006%	99.770%
133.0	0.205	0.018	285.213	0.006%	99.776%
134.0	0.230	0.017	285.230	0.006%	99.782%
135.0	0.256	0.019	285.249	0.007%	99.789%
136.0	0.247	0.019	285.269	0.007%	99.795%
137.0	0.273	0.020	285.288	0.007%	99.802%
138.0	0.273	0.020	285.309	0.007%	99.809%
139.0	0.264	0.020	285.328	0.007%	99.816%
140.0	0.281	0.019	285.347	0.007%	99.823%
141.0	0.264	0.019	285.366	0.007%	99.830%
142.0	0.290	0.019	285.385	0.007%	99.836%
143.0	0.290	0.019	285.405	0.007%	99.843%
144.0	0.281	0.019	285.423	0.007%	99.850%
145.0	0.315	0.019	285.442	0.007%	99.856%
146.0	0.324	0.020	285.462	0.007%	99.863%
147.0	0.307	0.019	285.481	0.007%	99.870%
148.0	0.324	0.019	285.500	0.007%	99.876%
149.0	0.324	0.019	285.519	0.006%	99.883%
150.0	0.341	0.019	285.537	0.006%	99.889%
151.0	0.341	0.018	285.555	0.006%	99.896%

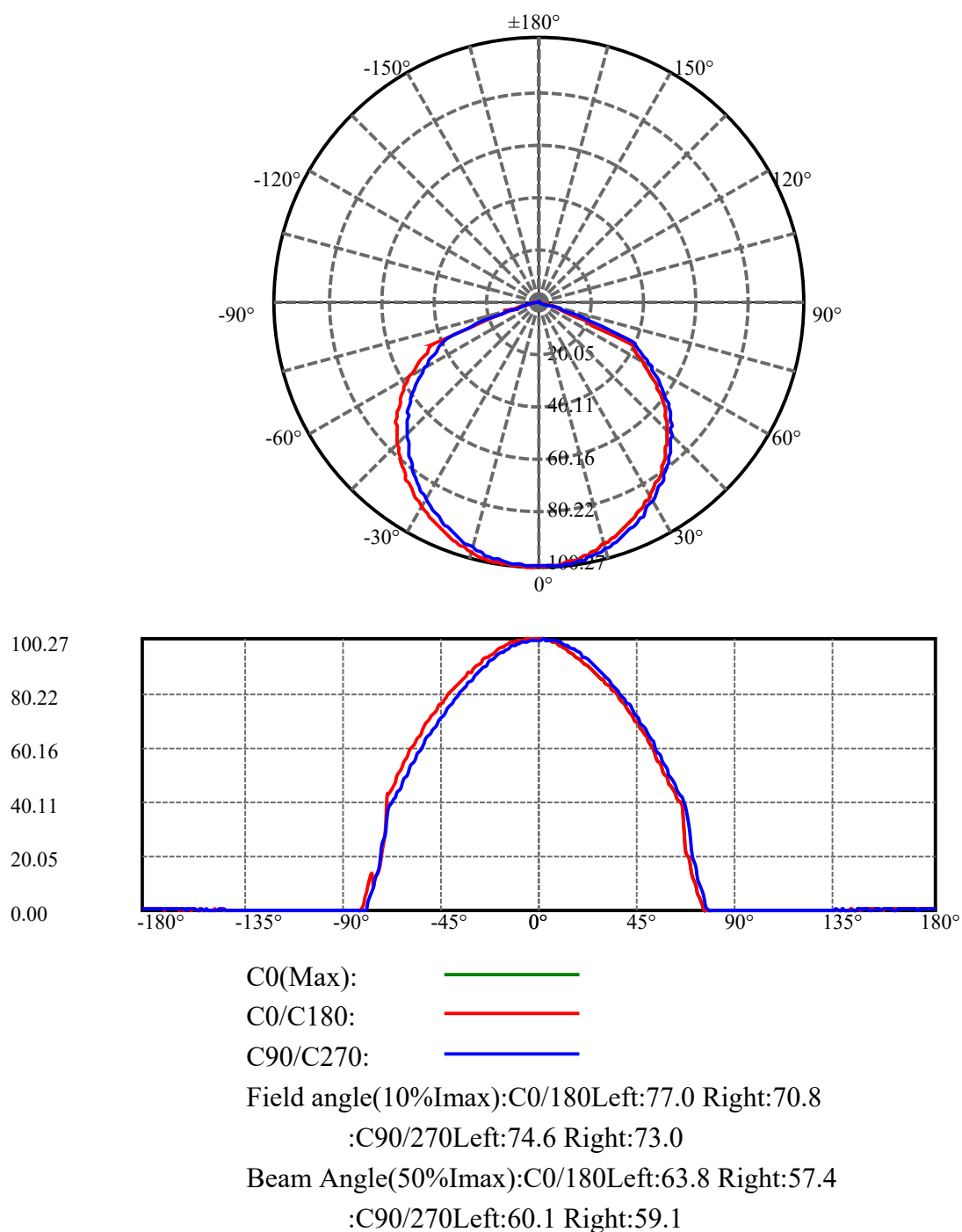
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	0.341	0.018	285.573	0.006%	99.902%
153.0	0.341	0.017	285.591	0.006%	99.908%
154.0	0.384	0.018	285.608	0.006%	99.914%
155.0	0.358	0.018	285.626	0.006%	99.920%
156.0	0.367	0.016	285.642	0.006%	99.926%
157.0	0.367	0.016	285.658	0.006%	99.932%
158.0	0.358	0.015	285.674	0.005%	99.937%
159.0	0.392	0.015	285.689	0.005%	99.942%
160.0	0.367	0.015	285.703	0.005%	99.947%
161.0	0.350	0.013	285.716	0.005%	99.952%
162.0	0.375	0.013	285.729	0.004%	99.956%
163.0	0.401	0.013	285.742	0.004%	99.961%
164.0	0.401	0.012	285.754	0.004%	99.965%
165.0	0.375	0.011	285.766	0.004%	99.969%
166.0	0.409	0.011	285.776	0.004%	99.973%
167.0	0.409	0.010	285.787	0.004%	99.977%
168.0	0.409	0.010	285.796	0.003%	99.980%
169.0	0.418	0.009	285.806	0.003%	99.983%
170.0	0.409	0.008	285.814	0.003%	99.986%
171.0	0.401	0.007	285.821	0.003%	99.989%
172.0	0.409	0.007	285.828	0.002%	99.991%
173.0	0.435	0.006	285.834	0.002%	99.993%
174.0	0.409	0.005	285.839	0.002%	99.995%
175.0	0.409	0.004	285.843	0.002%	99.996%
176.0	0.435	0.004	285.847	0.001%	99.998%
177.0	0.418	0.003	285.850	0.001%	99.999%
178.0	0.418	0.002	285.852	0.001%	99.999%
179.0	0.435	0.001	285.853	0.000%	100.000%
180.0	0.443	0.000	285.853	0.000%	100.000%

ZONAL LUMEN SUMMARY

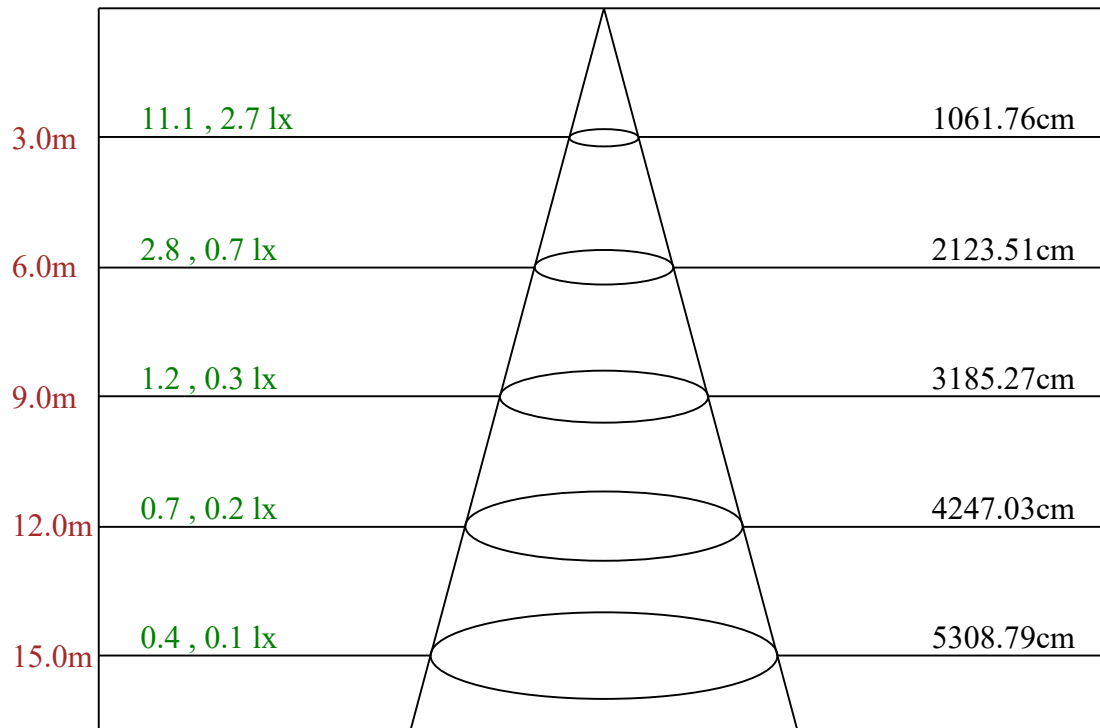
Zone	Lumens	%Fixt
0-30	78.15	27.34%
0-40	129.29	45.23%
0-60	236.13	82.61%
0-90	284.87	99.66%
0-120	285.01	99.70%
0-180	285.85	100.00%
60-90	48.74	17.05%
90-120	0.13	0.05%
90-130	0.29	0.10%
90-150	0.66	0.23%
90-180	0.98	0.34%
0-58.46	228.68	80.00%

ZONAL LUMEN SUMMARY

0-10	9.47
10-20	27.19
20-30	41.49
30-40	51.14
40-50	54.98
50-60	51.87
60-70	40.02
70-80	8.70
80-90	0.02
90-100	0.01
100-110	0.03
110-120	0.10
120-130	0.16
130-140	0.19
140-150	0.19
150-160	0.17
160-170	0.11
170-180	0.04

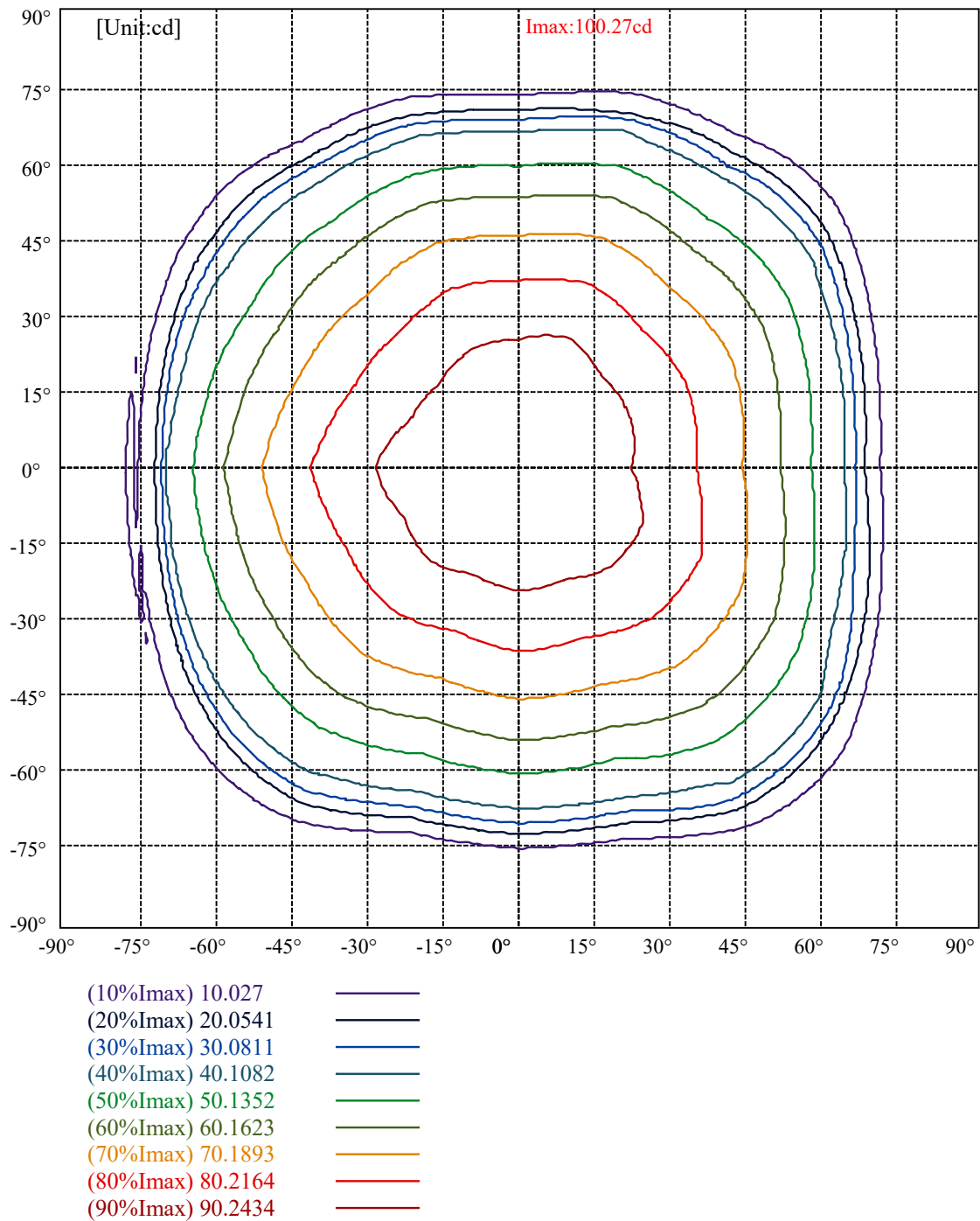


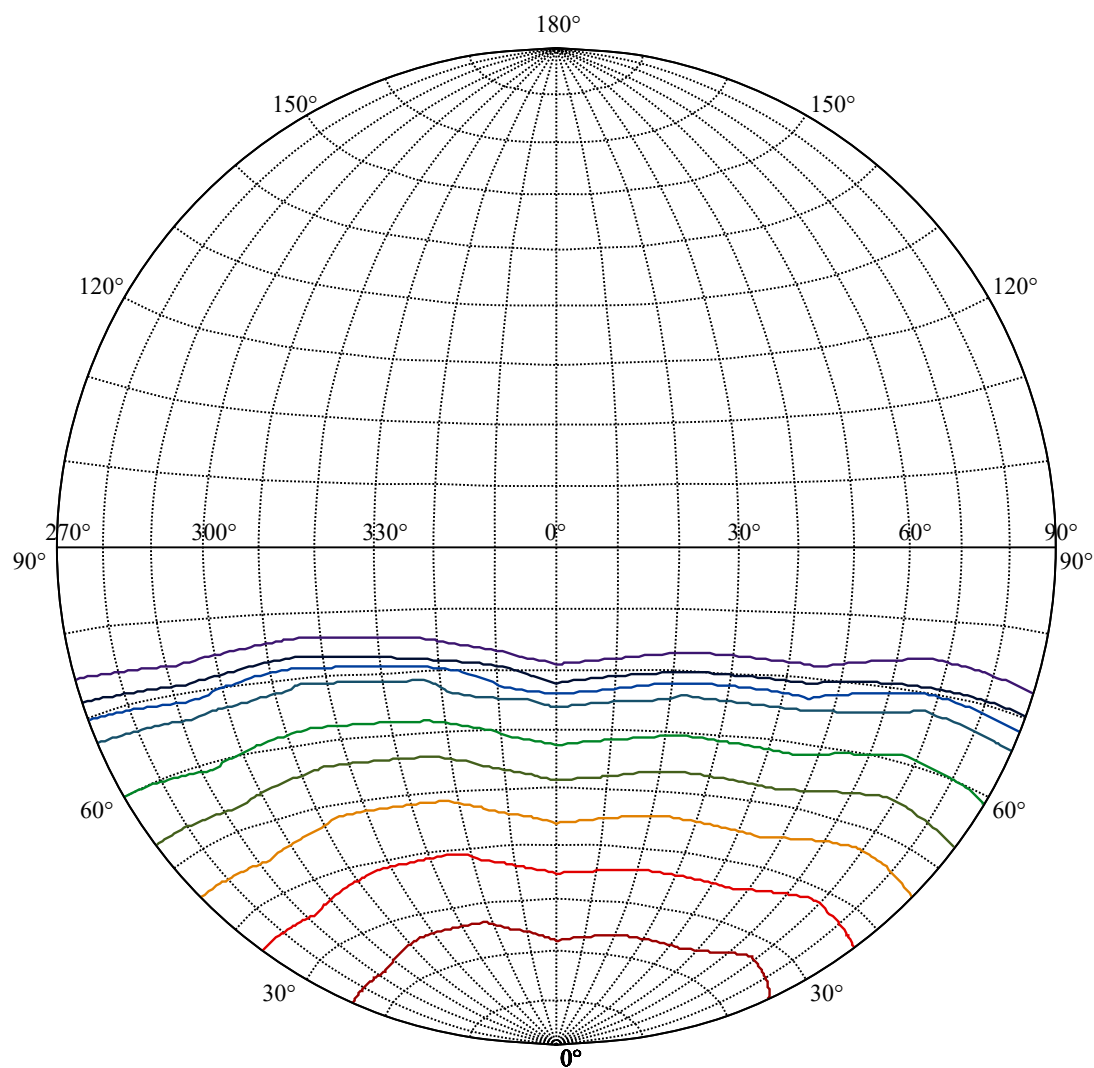




Max , Ave

Beam angle of C0 plane 121.06





House

[Unit:cd]

Road

Imax:100.27

(10%Imax) 10.027

(20%Imax) 20.0541

(30%Imax) 30.0811

(40%Imax) 40.1082

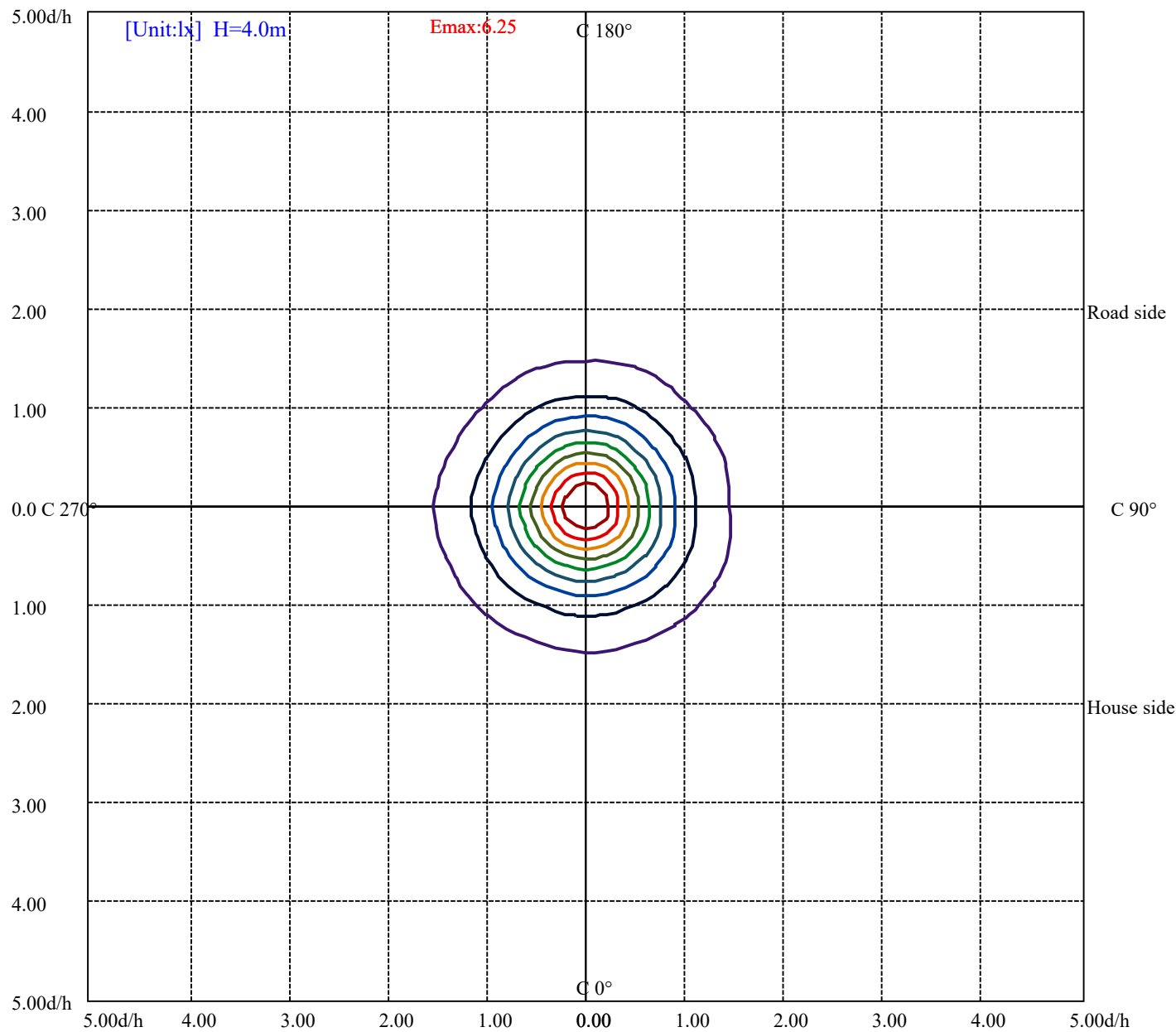
(50%Imax) 50.1352

(60%Imax) 60.1623

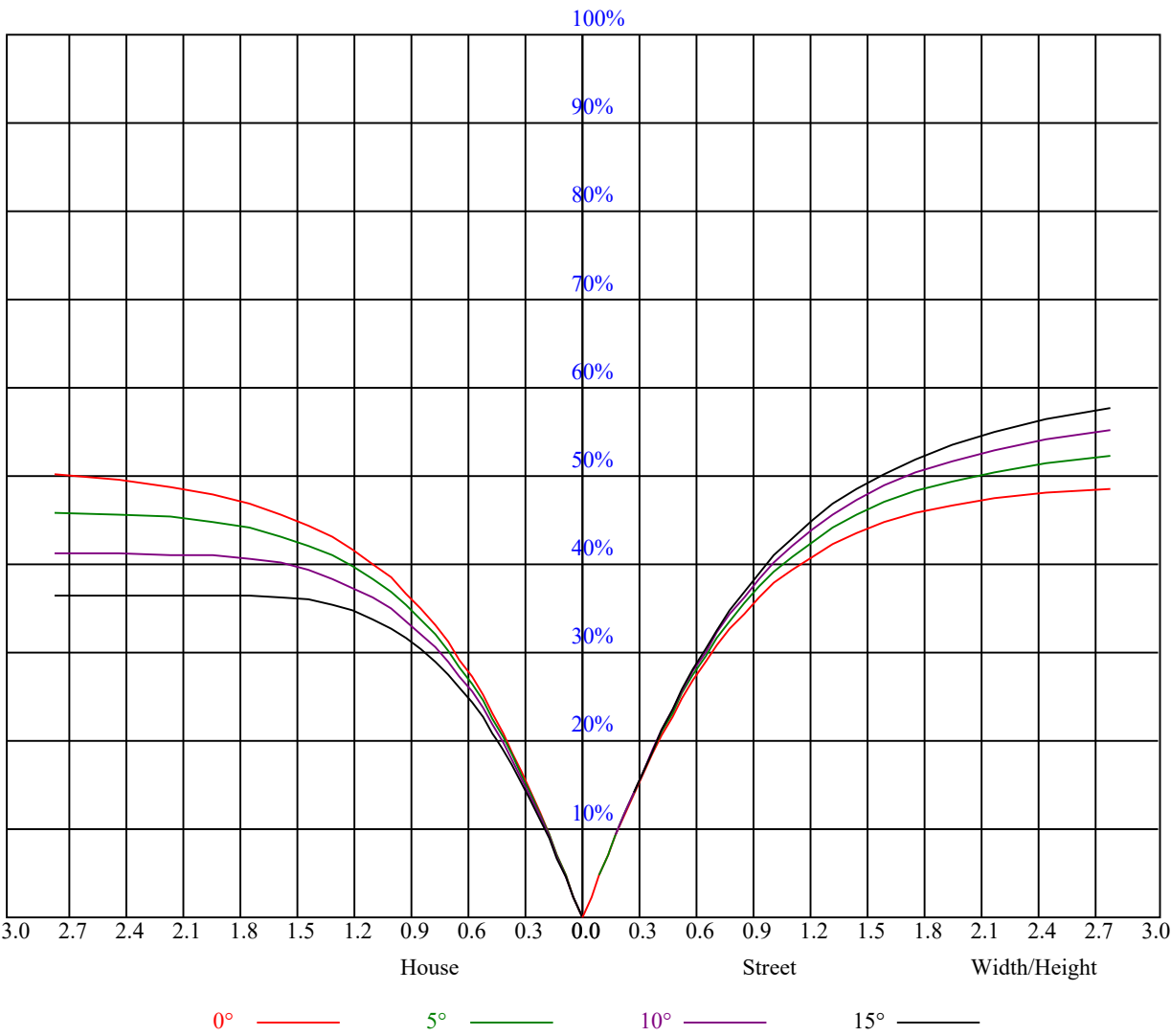
(70%Imax) 70.1893

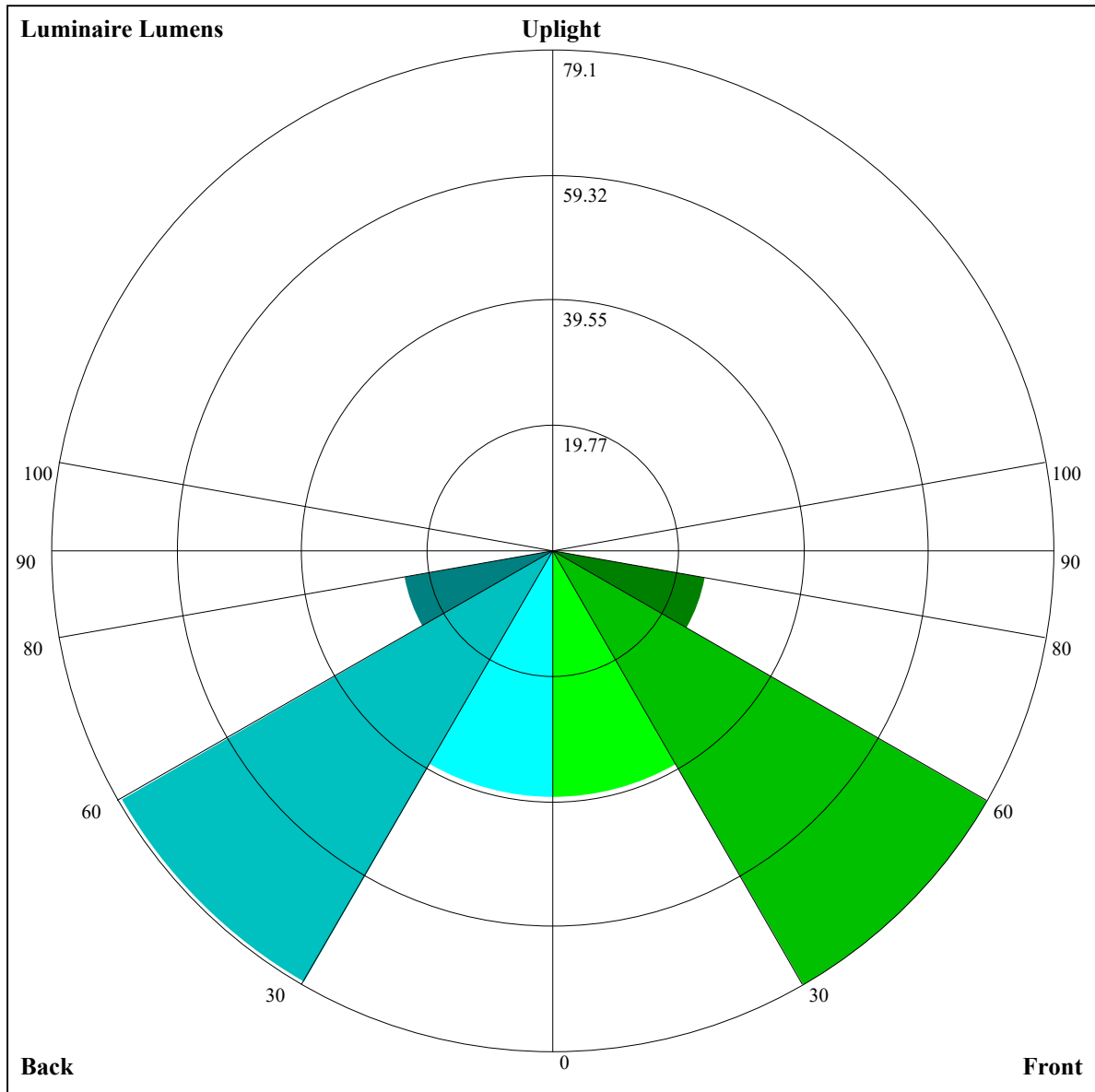
(80%Imax) 80.2164

(90%Imax) 90.2434



(10%Emax) 0.6245587	—
(20%Emax) 1.249119	—
(30%Emax) 1.873675	—
(40%Emax) 2.498238	—
(50%Emax) 3.122794	—
(60%Emax) 3.747356	—
(70%Emax) 4.371912	—
(80%Emax) 4.996469	—
(90%Emax) 5.621031	—





Luminaire Lumens:

FL=39.11,FM=79.1,FH=24.34,FVH=0

BL=39.02,BM=78.79,BH=23.91,BVH=0

UL=0,UH=0

BUG Rating:B0-U0-G0

## Intensity data(cd)

Appendix Page: 15 Total:21

C/ $\gamma$ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	99.93	100.27	100.00	99.86	99.59	99.45	99.18	98.77	98.77
22.5	99.93	99.86	99.86	100.00	99.86	99.45	99.45	99.32	99.04
45.0	99.93	99.86	99.86	99.72	99.59	99.59	99.32	99.18	99.04
67.5	99.93	99.86	99.86	99.86	99.86	99.86	99.86	99.72	99.72
90.0	99.93	99.86	100.00	99.86	99.86	99.86	99.59	99.45	99.45
112.5	99.93	99.86	100.00	99.86	99.86	99.86	99.86	99.72	99.45
135.0	99.93	100.00	100.00	99.86	99.59	99.45	99.18	98.91	98.63
157.5	99.93	100.00	100.00	100.00	99.86	99.72	99.59	99.32	98.91
180.0	99.93	100.27	100.13	100.27	100.13	100.00	100.00	99.86	99.72
202.5	99.93	99.86	99.72	99.59	99.59	99.45	99.32	98.91	98.91
225.0	99.93	99.86	99.72	99.72	99.59	99.45	99.18	99.04	98.77
247.5	99.93	99.59	99.59	99.45	99.18	99.18	98.91	98.36	98.22
270.0	99.93	99.86	99.86	99.59	99.45	99.32	99.32	99.04	98.91
292.5	99.93	99.86	99.72	99.59	99.45	99.32	99.04	98.77	98.63
315.0	99.93	100.13	100.00	100.00	99.86	99.72	99.72	99.45	99.32
337.5	99.93	100.13	100.13	100.00	99.86	100.00	99.86	99.72	99.45
360.0	99.93	100.27	100.00	99.86	99.59	99.45	99.18	98.77	98.77
C/ $\gamma$ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	98.09	97.54	97.27	96.59	96.04	95.36	94.68	94.27	93.72
22.5	98.77	98.36	97.95	97.54	97.00	96.59	96.04	95.36	94.95
45.0	98.63	98.36	97.95	97.41	97.13	96.59	95.63	95.50	94.81
67.5	99.45	99.18	99.04	98.63	98.36	98.22	97.68	97.27	96.72
90.0	99.04	98.91	98.50	98.09	97.68	97.13	96.45	96.45	95.77
112.5	99.04	98.77	98.50	97.95	97.54	97.41	96.59	96.18	95.63
135.0	98.22	97.95	97.27	96.72	96.31	95.77	95.22	94.54	93.86
157.5	98.63	98.22	97.68	97.13	96.59	96.18	95.63	94.95	94.40
180.0	99.59	99.59	99.32	99.18	98.77	98.50	97.95	97.41	97.00
202.5	98.63	98.36	97.95	97.54	97.27	96.72	96.31	95.77	95.09
225.0	98.77	98.36	98.09	97.68	97.27	97.00	96.45	96.04	95.36
247.5	97.95	97.68	97.27	96.72	96.31	95.77	95.36	94.68	94.00
270.0	98.50	98.36	98.09	97.68	97.00	96.72	96.18	95.50	95.22
292.5	98.36	98.09	97.68	97.27	97.00	96.18	95.90	95.22	94.54
315.0	99.18	99.04	98.63	98.36	97.95	97.81	97.13	96.72	96.18
337.5	99.32	99.04	98.77	98.36	98.22	97.68	97.41	96.86	96.18
360.0	98.09	97.54	97.27	96.59	96.04	95.36	94.68	94.27	93.72
C/ $\gamma$ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	93.04	92.36	91.54	91.13	90.31	89.63	88.95	87.99	87.31
22.5	94.27	93.72	93.18	92.22	91.81	90.99	90.18	89.49	88.67
45.0	94.40	93.45	92.77	92.22	91.54	90.99	90.18	89.22	88.81
67.5	96.31	95.90	95.22	94.40	93.86	93.18	92.49	91.68	90.99
90.0	95.22	94.54	93.72	93.31	92.63	91.95	91.27	90.31	89.90
112.5	94.95	94.68	93.86	93.18	92.49	91.68	90.99	90.18	89.49
135.0	93.45	92.49	91.68	91.27	90.45	89.77	88.95	88.13	87.72
157.5	93.72	93.31	92.36	91.54	91.13	90.31	89.63	88.95	88.27
180.0	96.45	96.18	95.50	94.81	94.27	93.72	93.31	92.49	91.68
202.5	94.54	94.00	93.18	92.63	91.95	91.27	90.58	89.77	89.22
225.0	94.81	94.54	93.72	93.04	92.36	91.54	90.86	90.31	89.36
247.5	93.59	92.63	91.81	91.40	90.72	89.90	89.08	88.27	87.58
270.0	94.54	94.13	93.31	92.63	91.95	91.40	90.31	89.63	88.81
292.5	94.00	93.45	92.63	92.09	91.54	90.86	89.90	89.08	88.67
315.0	95.63	95.22	94.54	94.00	93.31	92.49	91.81	91.27	90.31
337.5	95.50	94.95	94.40	93.86	93.18	92.63	91.95	91.13	90.58
360.0	93.04	92.36	91.54	91.13	90.31	89.63	88.95	87.99	87.31

## Intensity data(cd)

Appendix Page: 16 Total:21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	86.63	85.40	85.13	84.17	83.49	82.54	81.44	80.90	80.08
22.5	88.27	87.31	86.49	85.67	84.85	84.45	83.35	82.40	81.58
45.0	87.99	87.04	86.36	85.13	84.31	83.49	82.40	81.85	80.76
67.5	90.45	89.49	88.67	87.86	87.04	86.49	85.40	84.58	83.63
90.0	89.08	87.58	87.04	86.36	85.81	84.45	83.35	82.81	81.85
112.5	88.95	87.99	87.17	86.36	85.67	84.99	83.90	83.08	82.13
135.0	86.90	86.22	85.26	84.17	83.76	82.81	81.44	80.90	79.94
157.5	87.72	86.63	85.81	85.13	84.31	83.90	82.67	81.85	80.76
180.0	91.13	90.18	89.49	88.81	87.99	87.58	86.63	85.81	84.99
202.5	88.67	87.45	86.90	86.08	85.54	84.31	83.35	82.81	81.85
225.0	88.81	87.99	87.04	86.22	85.26	84.85	83.76	82.81	81.99
247.5	86.76	85.81	84.85	83.90	83.49	82.54	80.76	80.22	79.26
270.0	88.27	87.31	86.36	85.54	84.72	84.04	82.94	82.13	81.17
292.5	87.72	86.90	86.08	84.99	84.17	83.35	82.13	81.58	80.63
315.0	89.90	89.08	88.40	87.58	86.76	86.22	84.99	84.17	83.63
337.5	89.90	89.36	88.54	87.72	86.90	85.95	85.13	84.72	83.76
360.0	86.63	85.40	85.13	84.17	83.49	82.54	81.44	80.90	80.08
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	78.85	77.76	76.67	75.71	74.62	73.12	72.44	71.21	69.98
22.5	80.49	79.40	78.85	77.49	76.81	75.58	74.35	73.26	72.17
45.0	79.81	78.72	77.62	76.94	75.85	74.08	73.26	72.17	71.35
67.5	82.54	81.58	80.49	79.40	78.85	77.49	76.40	75.31	74.21
90.0	80.90	79.81	78.72	77.90	76.40	75.71	74.62	73.26	72.03
112.5	80.90	80.63	78.99	77.90	77.35	76.12	75.03	73.80	72.58
135.0	78.99	77.90	76.53	75.99	74.90	73.80	72.71	71.21	69.98
157.5	79.81	78.72	77.76	76.81	76.12	74.90	73.80	72.58	71.21
180.0	84.17	83.76	82.40	81.44	80.76	79.94	78.72	77.76	76.67
202.5	81.03	80.08	78.85	78.17	77.35	76.26	75.03	73.94	73.12
225.0	80.90	79.81	78.85	77.76	77.08	75.85	74.76	73.67	72.44
247.5	78.17	77.22	75.85	75.31	74.08	72.99	71.89	70.39	69.71
270.0	80.22	79.40	77.76	76.81	76.12	74.76	73.67	72.44	71.35
292.5	79.53	78.58	77.35	76.81	75.71	74.62	73.40	72.30	71.62
315.0	82.67	81.72	80.76	79.81	79.40	78.03	77.08	75.99	75.03
337.5	82.94	82.13	80.90	80.49	79.40	78.44	77.35	76.12	75.58
360.0	78.85	77.76	76.67	75.71	74.62	73.12	72.44	71.21	69.98
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	68.89	67.39	66.44	64.66	63.85	62.48	60.71	59.07	57.57
22.5	71.49	69.98	68.62	67.53	66.16	64.66	63.44	61.94	61.12
45.0	69.71	68.21	67.39	66.03	64.80	63.44	61.80	60.98	59.34
67.5	73.40	72.03	70.26	69.58	68.07	66.71	65.48	63.98	63.30
90.0	70.94	69.30	68.62	67.26	65.89	64.66	62.89	62.21	60.03
112.5	71.89	70.39	69.30	67.94	66.30	65.07	63.71	62.35	61.53
135.0	68.89	67.26	66.57	65.21	63.98	62.62	60.84	60.03	58.39
157.5	70.67	68.76	67.39	66.71	65.21	63.71	62.35	60.84	60.03
180.0	76.12	74.90	73.67	72.44	71.49	70.53	69.17	67.94	66.71
202.5	71.62	70.26	69.44	68.35	66.98	65.89	64.25	63.44	62.21
225.0	71.89	70.39	69.30	68.07	66.57	65.35	63.98	62.75	61.94
247.5	67.94	66.57	65.76	64.53	63.30	61.94	60.44	59.62	58.39
270.0	70.67	69.30	68.07	66.71	65.35	64.94	63.30	61.39	60.71
292.5	69.85	68.48	67.67	66.44	65.21	63.85	62.35	61.53	60.16
315.0	74.35	72.99	71.35	70.53	69.30	68.07	66.71	65.48	64.66
337.5	74.49	72.58	71.89	70.80	69.58	68.21	66.71	65.89	64.66
360.0	68.89	67.39	66.44	64.66	63.85	62.48	60.71	59.07	57.57



## Intensity data(cd)

Appendix Page: 17 Total:21

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	55.52	54.30	52.52	50.61	48.98	46.93	45.97	44.47	42.97
22.5	59.34	57.71	56.07	54.16	53.20	51.16	49.38	47.61	45.70
45.0	57.84	56.07	54.30	52.39	50.75	48.70	47.75	46.11	44.47
67.5	61.66	60.16	58.66	57.02	56.07	53.89	51.43	50.34	48.29
90.0	58.39	57.30	55.66	54.02	52.11	50.07	49.11	47.34	45.97
112.5	59.89	58.39	56.75	54.98	53.89	51.84	49.38	48.43	46.66
135.0	56.75	54.71	52.93	51.84	49.38	47.34	46.38	44.75	43.25
157.5	58.12	56.62	54.84	52.93	51.84	49.66	47.34	46.52	44.47
180.0	65.07	63.71	62.21	60.84	60.03	58.25	56.48	54.84	52.80
202.5	60.84	59.48	57.71	56.21	54.57	52.25	51.29	49.52	47.88
225.0	60.44	59.07	57.57	56.07	55.11	53.20	50.75	49.79	47.75
247.5	56.89	55.39	53.48	52.39	50.07	48.98	47.07	45.70	44.20
270.0	59.07	57.84	56.21	54.84	53.75	51.70	50.07	48.43	46.79
292.5	58.80	57.43	55.66	54.02	52.25	50.07	49.11	47.61	45.97
315.0	63.16	61.94	60.44	59.21	58.25	55.66	53.89	52.80	50.75
337.5	63.30	61.94	60.16	59.34	57.02	54.98	53.75	51.98	50.07
360.0	55.52	54.30	52.52	50.61	48.98	46.93	45.97	44.47	42.97
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	41.20	39.70	38.47	29.88	22.10	19.24	15.42	12.28	9.55
22.5	44.20	43.25	41.20	40.38	37.93	31.51	24.83	20.05	17.46
45.0	42.97	41.34	40.52	37.38	30.01	27.69	21.42	17.19	13.64
67.5	46.79	45.29	43.93	42.97	41.20	39.70	35.74	29.60	17.19
90.0	44.34	42.56	41.88	39.56	37.93	31.10	25.24	20.19	16.10
112.5	45.97	43.38	42.02	41.20	39.15	35.33	28.79	23.06	15.69
135.0	41.88	40.11	39.02	35.06	27.83	21.96	16.78	13.51	10.50
157.5	42.84	41.47	40.11	39.02	34.24	27.01	21.01	16.78	12.96
180.0	51.70	49.66	47.47	46.38	44.88	43.25	41.88	29.47	21.42
202.5	46.38	44.61	43.66	42.29	40.93	39.29	33.97	29.47	21.42
225.0	46.11	44.61	43.11	42.29	40.79	39.43	37.38	31.65	27.83
247.5	42.70	41.20	40.24	39.02	36.56	30.70	23.60	20.74	15.14
270.0	45.02	43.52	42.02	41.34	39.84	38.20	34.11	27.97	24.42
292.5	44.47	42.84	41.88	40.52	39.15	35.47	28.79	25.37	20.46
315.0	49.11	47.47	45.84	45.02	43.25	41.88	40.52	38.61	35.74
337.5	48.43	46.66	45.70	44.20	42.84	41.34	39.15	36.29	28.65
360.0	41.20	39.70	38.47	29.88	22.10	19.24	15.42	12.28	9.55
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.41	5.05	2.05	0.14	0.00	0.00	0.14	0.00	0.00
22.5	13.37	10.37	7.78	5.18	1.77	0.14	0.00	0.00	0.00
45.0	9.96	8.19	5.32	2.46	0.41	0.00	0.00	0.00	0.00
67.5	13.64	14.32	12.41	8.73	5.73	2.73	0.41	0.14	0.00
90.0	12.01	10.10	7.09	4.23	1.50	0.14	0.00	0.00	0.00
112.5	15.69	12.41	9.41	6.55	3.00	0.68	0.14	0.00	0.00
135.0	7.37	5.87	3.00	0.68	0.00	0.00	0.00	0.00	0.00
157.5	11.19	7.50	6.00	2.73	0.41	0.14	0.14	0.00	0.14
180.0	16.51	14.60	11.60	8.87	13.51	10.10	6.55	5.18	1.64
202.5	16.51	14.60	11.60	8.87	6.28	3.00	1.50	0.00	0.00
225.0	21.55	15.96	13.92	10.10	7.50	4.64	2.05	0.82	0.00
247.5	11.19	9.41	6.68	3.68	1.23	0.00	0.00	0.00	0.00
270.0	18.83	15.01	11.73	8.87	7.09	3.68	0.55	0.14	0.14
292.5	14.32	12.55	9.55	6.82	4.23	1.23	0.27	0.00	0.00
315.0	27.01	21.42	17.33	13.37	10.50	7.78	5.32	3.82	0.82
337.5	19.78	17.19	13.92	11.05	8.46	5.46	3.82	1.09	0.00
360.0	6.41	5.05	2.05	0.14	0.00	0.00	0.14	0.00	0.00

## Intensity data(cd)

Appendix Page: 18 Total:21

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	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
112.5	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
157.5	0.14	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
180.0	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
315.0	0.14	0.00	0.00	0.00	0.14	0.00	0.00	0.14	0.00
337.5	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(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	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
157.5	0.00	0.00	0.00	0.14	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
202.5	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
247.5	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
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	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(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
22.5	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	0.14	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
112.5	0.14	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.14
135.0	0.00	0.00	0.14	0.00	0.14	0.00	0.14	0.14	0.14
157.5	0.00	0.14	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
202.5	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	0.14	0.00	0.00
247.5	0.14	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
292.5	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	0.14	0.00	0.14	0.00	0.00	0.14
337.5	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00

## Intensity data(cd)

Appendix Page: 19 Total:21

C/ $\gamma(^{\circ})$	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	0.00	0.14	0.00	0.14	0.14	0.00	0.14	0.00	0.14
22.5	0.14	0.14	0.00	0.00	0.14	0.00	0.14	0.00	0.00
45.0	0.00	0.00	0.14	0.14	0.00	0.00	0.14	0.14	0.00
67.5	0.14	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.14
90.0	0.00	0.14	0.00	0.14	0.14	0.14	0.14	0.14	0.14
112.5	0.14	0.14	0.14	0.00	0.00	0.14	0.00	0.14	0.14
135.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
157.5	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.14	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00
202.5	0.00	0.00	0.14	0.14	0.00	0.14	0.14	0.00	0.14
225.0	0.00	0.14	0.14	0.00	0.14	0.14	0.14	0.14	0.14
247.5	0.00	0.14	0.00	0.14	0.14	0.00	0.14	0.14	0.14
270.0	0.14	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.14
292.5	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.14	0.00
315.0	0.14	0.14	0.14	0.00	0.14	0.00	0.14	0.00	0.14
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14
360.0	0.00	0.14	0.00	0.14	0.14	0.00	0.14	0.00	0.14
C/ $\gamma(^{\circ})$	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	0.14	0.14	0.14	0.14	0.14	0.27	0.14	0.27	0.14
22.5	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.27	0.14
45.0	0.14	0.14	0.14	0.14	0.14	0.14	0.27	0.27	0.14
67.5	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.27	0.14
90.0	0.14	0.14	0.14	0.14	0.14	0.27	0.14	0.27	0.14
112.5	0.14	0.27	0.14	0.14	0.27	0.14	0.14	0.14	0.14
135.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
157.5	0.14	0.14	0.14	0.14	0.14	0.27	0.27	0.27	0.27
180.0	0.00	0.14	0.00	0.14	0.14	0.14	0.14	0.14	0.14
202.5	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
225.0	0.14	0.00	0.00	0.14	0.14	0.14	0.00	0.14	0.14
247.5	0.00	0.00	0.14	0.14	0.14	0.27	0.27	0.14	0.14
270.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
292.5	0.14	0.14	0.14	0.00	0.14	0.14	0.00	0.14	0.14
315.0	0.14	0.00	0.14	0.14	0.14	0.14	0.14	0.14	0.14
337.5	0.14	0.14	0.00	0.14	0.27	0.27	0.14	0.14	0.14
360.0	0.14	0.14	0.14	0.14	0.14	0.27	0.14	0.27	0.14
C/ $\gamma(^{\circ})$	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	0.14	0.27	0.14	0.27	0.27	0.27	0.27	0.27	0.27
22.5	0.14	0.27	0.27	0.27	0.14	0.27	0.27	0.27	0.14
45.0	0.27	0.14	0.27	0.14	0.14	0.14	0.27	0.14	0.27
67.5	0.14	0.27	0.27	0.14	0.14	0.27	0.14	0.27	0.27
90.0	0.14	0.27	0.27	0.14	0.14	0.27	0.27	0.14	0.27
112.5	0.14	0.27	0.14	0.14	0.27	0.27	0.27	0.27	0.27
135.0	0.27	0.14	0.14	0.27	0.14	0.27	0.27	0.27	0.27
157.5	0.27	0.27	0.14	0.27	0.14	0.27	0.27	0.14	0.27
180.0	0.14	0.14	0.27	0.14	0.14	0.14	0.27	0.14	0.14
202.5	0.14	0.27	0.14	0.14	0.14	0.14	0.14	0.14	0.27
225.0	0.14	0.27	0.14	0.27	0.14	0.14	0.27	0.14	0.14
247.5	0.14	0.14	0.27	0.27	0.14	0.14	0.14	0.14	0.27
270.0	0.27	0.14	0.14	0.27	0.27	0.14	0.14	0.27	0.27
292.5	0.14	0.14	0.14	0.14	0.14	0.27	0.27	0.14	0.14
315.0	0.14	0.14	0.27	0.14	0.14	0.14	0.14	0.27	0.27
337.5	0.27	0.14	0.14	0.14	0.27	0.27	0.27	0.27	0.14
360.0	0.14	0.27	0.14	0.27	0.27	0.27	0.27	0.27	0.27

## Intensity data(cd)

Appendix Page: 20 Total:21

C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	0.27	0.14	0.27	0.41	0.27	0.27	0.27	0.41	0.27
22.5	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
45.0	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
67.5	0.27	0.14	0.27	0.27	0.14	0.27	0.27	0.27	0.27
90.0	0.41	0.27	0.27	0.41	0.27	0.27	0.27	0.27	0.27
112.5	0.14	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.14
135.0	0.27	0.14	0.41	0.27	0.27	0.41	0.27	0.41	0.27
157.5	0.27	0.27	0.27	0.27	0.41	0.41	0.27	0.41	0.27
180.0	0.27	0.14	0.27	0.27	0.14	0.27	0.14	0.27	0.27
202.5	0.27	0.27	0.27	0.14	0.27	0.27	0.27	0.27	0.27
225.0	0.14	0.27	0.27	0.27	0.27	0.14	0.41	0.14	0.27
247.5	0.27	0.27	0.27	0.14	0.27	0.27	0.14	0.27	0.41
270.0	0.14	0.27	0.27	0.27	0.27	0.14	0.27	0.27	0.41
292.5	0.27	0.27	0.14	0.27	0.27	0.41	0.27	0.27	0.41
315.0	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
337.5	0.27	0.41	0.27	0.27	0.27	0.27	0.27	0.27	0.27
360.0	0.27	0.14	0.27	0.41	0.27	0.27	0.27	0.41	0.27
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	0.27	0.41	0.27	0.41	0.41	0.41	0.41	0.41	0.41
22.5	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
45.0	0.27	0.27	0.41	0.27	0.41	0.27	0.41	0.27	0.41
67.5	0.27	0.27	0.41	0.41	0.41	0.41	0.27	0.27	0.41
90.0	0.27	0.41	0.41	0.27	0.41	0.41	0.27	0.27	0.27
112.5	0.27	0.41	0.27	0.27	0.27	0.27	0.41	0.41	0.27
135.0	0.27	0.27	0.41	0.41	0.41	0.41	0.41	0.41	0.41
157.5	0.27	0.27	0.41	0.27	0.41	0.41	0.41	0.41	0.41
180.0	0.41	0.41	0.27	0.41	0.27	0.27	0.27	0.27	0.27
202.5	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
225.0	0.27	0.27	0.27	0.27	0.27	0.27	0.41	0.41	0.41
247.5	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.41
270.0	0.27	0.41	0.27	0.27	0.14	0.27	0.27	0.41	0.27
292.5	0.27	0.27	0.27	0.27	0.27	0.27	0.41	0.27	0.27
315.0	0.27	0.27	0.41	0.27	0.27	0.27	0.27	0.41	0.41
337.5	0.27	0.27	0.27	0.27	0.41	0.41	0.41	0.41	0.27
360.0	0.27	0.41	0.27	0.41	0.41	0.41	0.41	0.41	0.41
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	0.41	0.41	0.41	0.27	0.41	0.41	0.41	0.41	0.41
22.5	0.27	0.41	0.41	0.41	0.27	0.27	0.41	0.41	0.41
45.0	0.27	0.41	0.41	0.27	0.27	0.41	0.41	0.27	0.27
67.5	0.41	0.41	0.41	0.41	0.41	0.41	0.27	0.41	0.41
90.0	0.41	0.41	0.27	0.41	0.41	0.41	0.41	0.41	0.27
112.5	0.27	0.41	0.41	0.27	0.41	0.27	0.27	0.41	0.41
135.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
157.5	0.41	0.27	0.41	0.55	0.27	0.41	0.41	0.27	0.41
180.0	0.27	0.41	0.27	0.41	0.41	0.27	0.41	0.41	0.27
202.5	0.27	0.27	0.41	0.27	0.41	0.41	0.41	0.41	0.41
225.0	0.41	0.41	0.27	0.41	0.27	0.27	0.41	0.41	0.27
247.5	0.27	0.41	0.27	0.41	0.41	0.27	0.41	0.41	0.41
270.0	0.41	0.27	0.27	0.41	0.41	0.41	0.41	0.27	0.41
292.5	0.27	0.41	0.27	0.27	0.41	0.41	0.41	0.27	0.27
315.0	0.41	0.41	0.41	0.41	0.27	0.41	0.41	0.27	0.27
337.5	0.27	0.41	0.41	0.27	0.41	0.27	0.41	0.41	0.27
360.0	0.41	0.41	0.41	0.27	0.41	0.41	0.41	0.41	0.41

Intensity data(cd)

C/ $\gamma(^{\circ})$	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
22.5	0.41	0.41	0.41	0.41	0.41	0.41	0.27	0.41	0.41
45.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.55
67.5	0.41	0.27	0.41	0.41	0.41	0.41	0.27	0.41	0.41
90.0	0.27	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
112.5	0.41	0.41	0.41	0.41	0.41	0.27	0.41	0.27	0.41
135.0	0.41	0.55	0.41	0.41	0.41	0.41	0.55	0.55	0.41
157.5	0.27	0.41	0.41	0.41	0.41	0.27	0.41	0.41	0.41
180.0	0.41	0.27	0.41	0.41	0.41	0.41	0.55	0.41	0.27
202.5	0.27	0.41	0.27	0.27	0.41	0.41	0.41	0.41	0.41
225.0	0.41	0.41	0.41	0.27	0.27	0.41	0.41	0.41	0.41
247.5	0.41	0.41	0.41	0.41	0.55	0.55	0.41	0.41	0.41
270.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
292.5	0.27	0.41	0.41	0.27	0.41	0.55	0.41	0.41	0.41
315.0	0.41	0.41	0.55	0.27	0.41	0.41	0.41	0.55	0.41
337.5	0.41	0.41	0.27	0.41	0.41	0.41	0.41	0.41	0.41
360.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
C/ $\gamma(^{\circ})$	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.55
22.5	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.27	0.27
45.0	0.55	0.27	0.27	0.41	0.41	0.41	0.41	0.41	0.41
67.5	0.41	0.55	0.41	0.41	0.41	0.41	0.41	0.41	0.41
90.0	0.41	0.27	0.55	0.41	0.41	0.41	0.41	0.41	0.55
112.5	0.27	0.41	0.41	0.41	0.41	0.41	0.41	0.55	0.41
135.0	0.41	0.41	0.41	0.41	0.41	0.55	0.41	0.41	0.41
157.5	0.27	0.41	0.41	0.41	0.41	0.41	0.41	0.55	0.55
180.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
202.5	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
225.0	0.27	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
247.5	0.41	0.55	0.55	0.41	0.41	0.41	0.41	0.41	0.41
270.0	0.41	0.41	0.55	0.41	0.41	0.41	0.41	0.41	0.41
292.5	0.55	0.27	0.41	0.41	0.41	0.55	0.41	0.41	0.41
315.0	0.41	0.55	0.41	0.41	0.41	0.55	0.41	0.41	0.55
337.5	0.41	0.41	0.55	0.41	0.41	0.41	0.55	0.41	0.41
360.0	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.55
C/ $\gamma(^{\circ})$	180.0								
0.0	0.44								
22.5	0.44								
45.0	0.44								
67.5	0.44								
90.0	0.44								
112.5	0.44								
135.0	0.44								
157.5	0.44								
180.0	0.44								
202.5	0.44								
225.0	0.44								
247.5	0.44								
270.0	0.44								
292.5	0.44								
315.0	0.44								
337.5	0.44								
360.0	0.44								