



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

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## NATA

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LumCAT: CR01D02001545BW (91.60.0036.000)

Luminaire:

Report No: NATA0100	Voltage(V): 3.2000
Test No: GC2018120101	Current(A): 0.2000
LampCAT: CREE XPE2	Power (W): 6.4000
Lamp flux(lm): 62.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 20	Width(mm): 20
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 50.65  
Efficiency(%): 81.69%  
Lumens(lm)/Power(W): 7.91  
Central intensity(cd): 232.481  
Maximum intensity(cd): 239.344  
Angle of maximum intensity: C=190.0  $\gamma$ =1.0  
Beam Angle(50%Imax): [C0/180]Total=12.1  
                                  [C90/270]Total=44.7  
Field angle(10%Imax): [C0/180]Total=24.3  
                                  [C90/270]Total=74.8  
Maximum s/h(1/2): C0\_180=0.24 C90\_270=0.69  
Maximum s/h(1/4): C0\_180=0.24 C90\_270=0.72  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 81.78%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 94.326%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2018/12/1  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	231.000	0.055	0.055	.089%	.109%
1.0	228.814	0.438	0.493	.706%	.974%
2.0	221.850	0.849	1.342	1.369%	2.650%
3.0	210.888	1.210	2.553	1.952%	5.040%
4.0	197.498	1.511	4.063	2.437%	8.022%
5.0	181.384	1.734	5.797	2.796%	11.445%
6.0	164.063	1.881	7.678	3.033%	15.158%
7.0	147.042	1.965	9.643	3.170%	19.037%
8.0	131.502	2.007	11.65	3.237%	23.000%
9.0	116.067	1.991	13.641	3.211%	26.931%
10.0	101.864	1.940	15.58	3.129%	30.760%
11.0	90.161	1.887	17.467	3.043%	34.485%
12.0	80.075	1.826	19.293	2.945%	38.090%
13.0	70.463	1.738	21.031	2.804%	41.521%
14.0	62.819	1.667	22.697	2.688%	44.812%
15.0	56.467	1.603	24.3	2.585%	47.976%
16.0	50.856	1.537	25.837	2.479%	51.011%
17.0	46.063	1.477	27.314	2.382%	53.926%
18.0	41.706	1.413	28.727	2.280%	56.717%
19.0	38.197	1.364	30.091	2.200%	59.409%
20.0	34.786	1.305	31.396	2.104%	61.985%
21.0	31.558	1.240	32.636	2.000%	64.433%
22.0	28.808	1.183	33.819	1.909%	66.770%
23.0	26.172	1.121	34.941	1.809%	68.984%
24.0	23.627	1.054	35.995	1.700%	71.064%
25.0	21.323	0.988	36.983	1.594%	73.015%
26.0	19.241	0.925	37.908	1.492%	74.842%
27.0	17.244	0.858	38.766	1.385%	76.536%
28.0	15.431	0.794	39.561	1.281%	78.105%
29.0	13.755	0.731	40.292	1.179%	79.549%
30.0	12.264	0.672	40.964	1.085%	80.876%
31.0	10.870	0.614	41.578	.990%	82.088%
32.0	9.628	0.560	42.138	.902%	83.193%
33.0	8.573	0.512	42.65	.826%	84.204%
34.0	7.602	0.466	43.116	.752%	85.124%
35.0	6.738	0.424	43.54	.684%	85.961%
36.0	5.989	0.386	43.926	.623%	86.723%
37.0	5.334	0.352	44.278	.568%	87.418%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	4.709	0.318	44.596	.513%	88.046%
39.0	4.172	0.288	44.884	.464%	88.614%
40.0	3.734	0.263	45.147	.425%	89.134%
41.0	3.317	0.239	45.386	.385%	89.605%
42.0	2.956	0.217	45.603	.350%	90.033%
43.0	2.628	0.197	45.799	.317%	90.421%
44.0	2.355	0.179	45.979	.289%	90.776%
45.0	2.125	0.165	46.143	.266%	91.101%
46.0	1.925	0.152	46.295	.245%	91.401%
47.0	1.748	0.140	46.435	.226%	91.678%
48.0	1.613	0.131	46.567	.212%	91.937%
49.0	1.494	0.124	46.69	.199%	92.181%
50.0	1.395	0.117	46.808	.189%	92.413%
51.0	1.323	0.113	46.92	.182%	92.635%
52.0	1.259	0.109	47.029	.176%	92.850%
53.0	1.208	0.106	47.135	.171%	93.059%
54.0	1.166	0.103	47.238	.167%	93.263%
55.0	1.125	0.101	47.34	.163%	93.463%
56.0	1.092	0.099	47.439	.160%	93.659%
57.0	1.066	0.098	47.537	.158%	93.852%
58.0	1.048	0.098	47.634	.157%	94.045%
59.0	1.030	0.097	47.731	.156%	94.236%
60.0	1.013	0.096	47.827	.155%	94.426%
61.0	0.995	0.095	47.923	.154%	94.614%
62.0	0.989	0.096	48.019	.154%	94.803%
63.0	0.988	0.096	48.115	.156%	94.994%
64.0	0.983	0.097	48.212	.156%	95.185%
65.0	0.977	0.097	48.309	.157%	95.376%
66.0	0.970	0.097	48.406	.157%	95.568%
67.0	0.984	0.099	48.505	.160%	95.765%
68.0	0.978	0.099	48.605	.160%	95.961%
69.0	0.977	0.100	48.705	.161%	96.158%
70.0	0.997	0.103	48.808	.166%	96.361%
71.0	0.998	0.104	48.911	.167%	96.565%
72.0	1.013	0.106	49.017	.170%	96.774%
73.0	1.022	0.107	49.124	.173%	96.986%
74.0	1.036	0.109	49.233	.176%	97.201%
75.0	1.047	0.111	49.344	.179%	97.420%

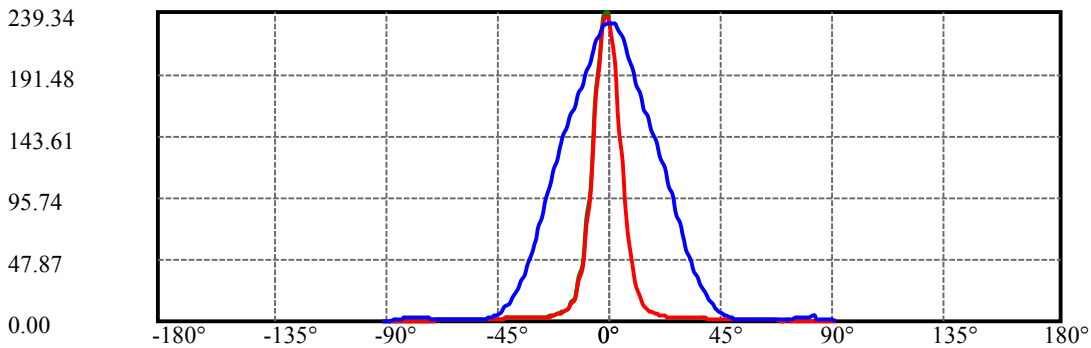
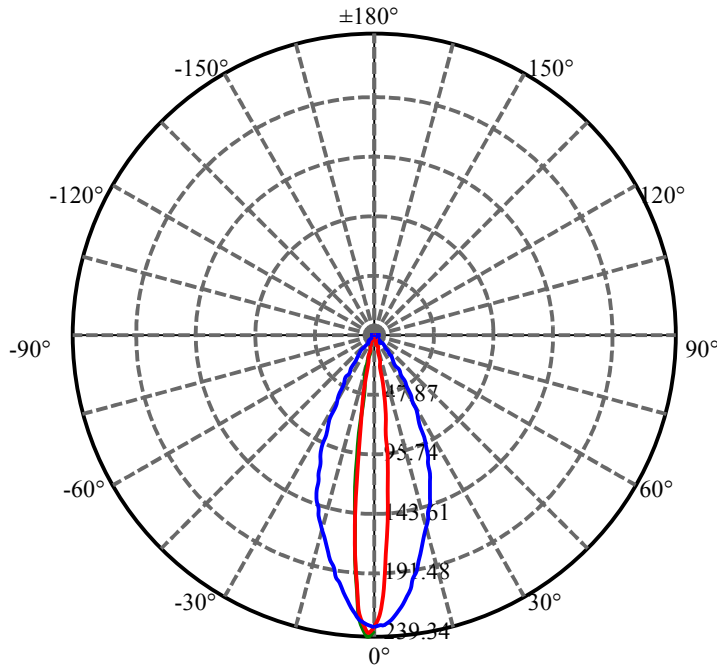
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.061	0.113	49.457	.182%	97.643%
77.0	1.072	0.115	49.571	.185%	97.869%
78.0	1.084	0.116	49.688	.188%	98.099%
79.0	1.080	0.116	49.804	.187%	98.328%
80.0	1.097	0.118	49.922	.191%	98.562%
81.0	1.095	0.119	50.041	.191%	98.796%
82.0	1.064	0.116	50.157	.186%	99.024%
83.0	0.898	0.098	50.254	.158%	99.217%
84.0	0.855	0.093	50.348	.150%	99.401%
85.0	0.786	0.086	50.433	.138%	99.571%
86.0	0.711	0.078	50.511	.125%	99.724%
87.0	0.480	0.053	50.564	.085%	99.828%
88.0	0.373	0.041	50.605	.066%	99.909%
89.0	0.311	0.034	50.639	.055%	99.976%
90.0	0.219	0.012	50.651	.019%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	40.96	66.07%	80.88%
0-40	45.15	72.82%	89.13%
0-60	47.83	77.14%	94.43%
0-90	50.64	81.68%	99.98%
0-120	50.64	81.68%	99.98%
0-180	50.65	81.69%	100.00%
60-90	2.91	4.69%	5.74%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.34	40.52	65.36%	80.00%

ZONAL LUMEN SUMMARY

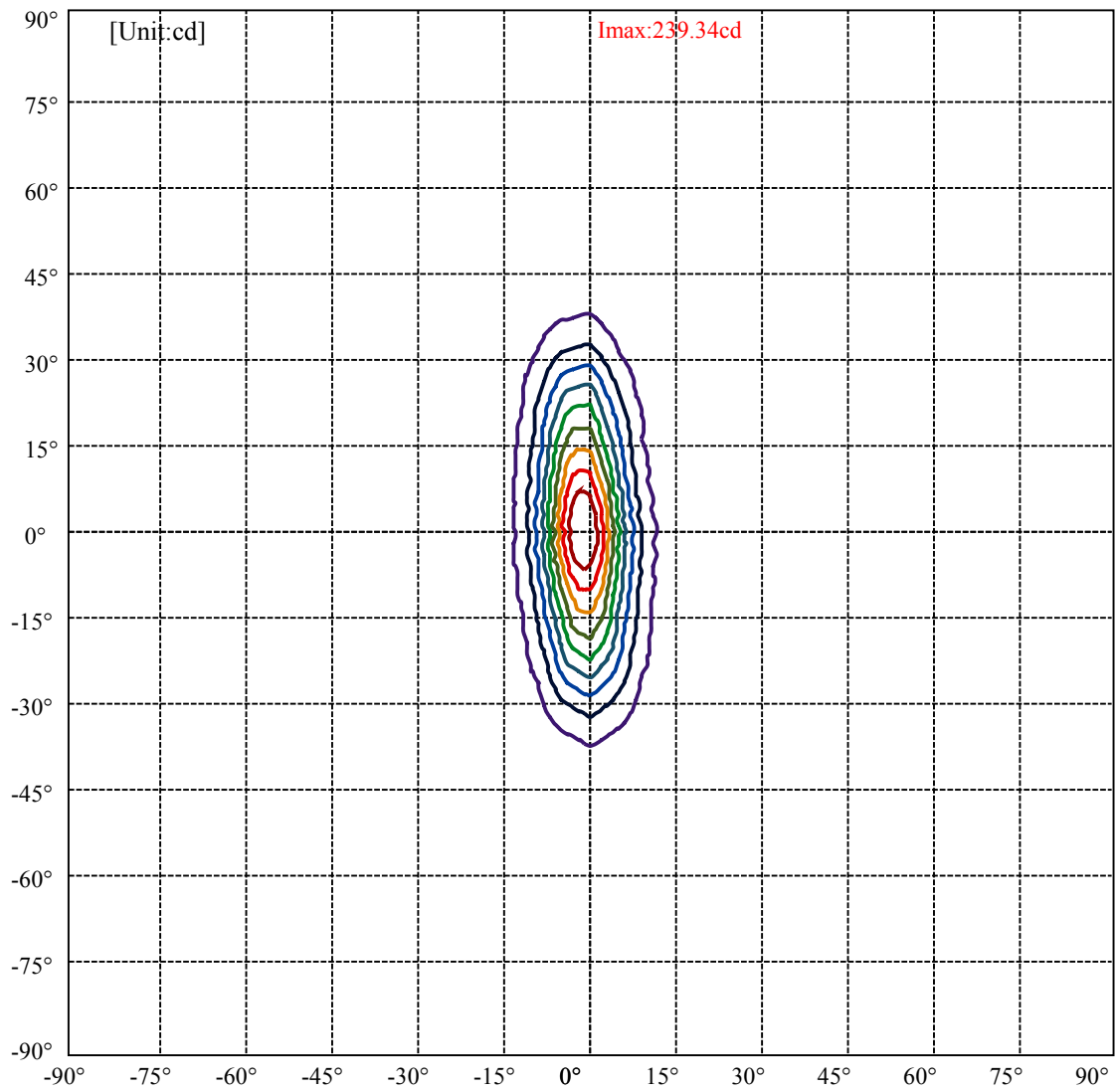
0-10	15.58
10-20	15.82
20-30	9.57
30-40	4.18
40-50	1.66
50-60	1.02
60-70	0.98
70-80	1.11
80-90	0.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C190(Max): ———  
 C0/C180: ———  
 C90/C270: ———

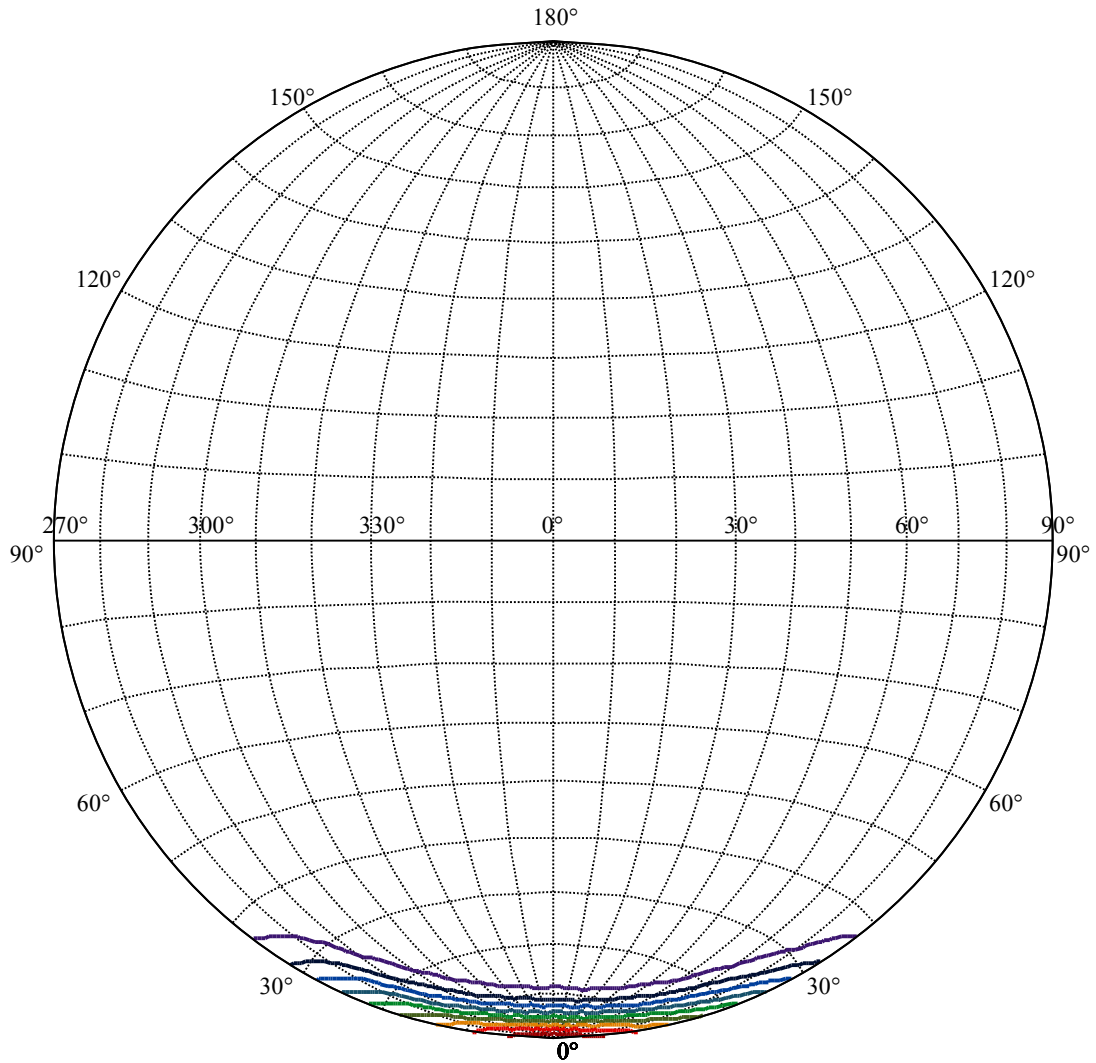
Field angle(10%Imax):C0/180Left:11.8 Right:12.4  
 :C90/270Left:37.1 Right:37.7  
 Beam Angle(50%Imax):C0/180Left:5.9 Right:6.2  
 :C90/270Left:22.3 Right:22.4





(10%Imax) 23.6587	—
(20%Imax) 47.3175	—
(30%Imax) 70.9762	—
(40%Imax) 94.635	—
(50%Imax) 118.294	—
(60%Imax) 141.952	—
(70%Imax) 165.611	—
(80%Imax) 189.27	—
(90%Imax) 212.929	—





House

[Unit:cd]

Road

**I<sub>max</sub>:239.34**

(10%I<sub>max</sub>) 23.9344

(20%I<sub>max</sub>) 47.8688

(30%I<sub>max</sub>) 71.8031

(40%I<sub>max</sub>) 95.7375

(50%I<sub>max</sub>) 119.672

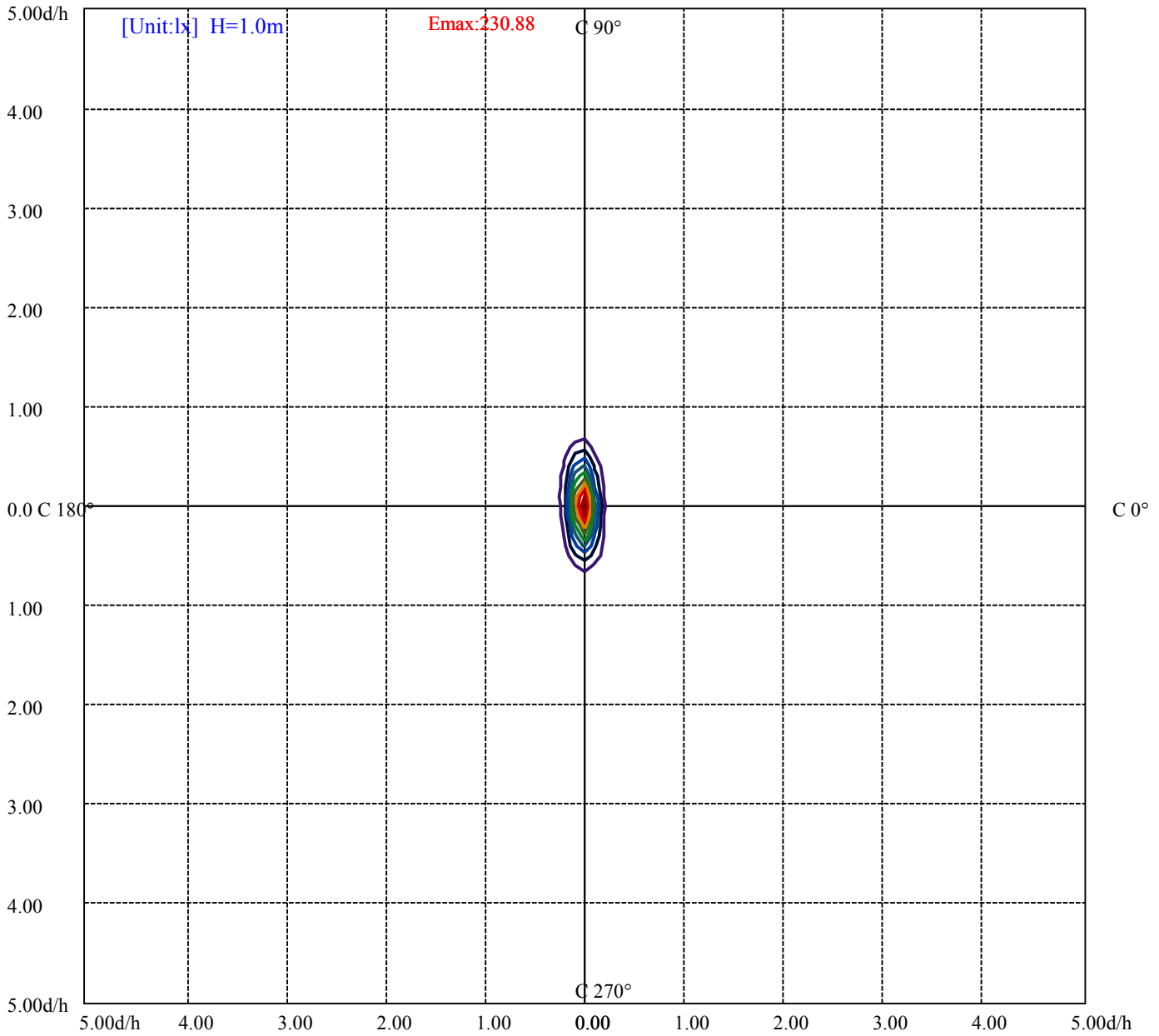
(60%I<sub>max</sub>) 143.606

(70%I<sub>max</sub>) 167.541

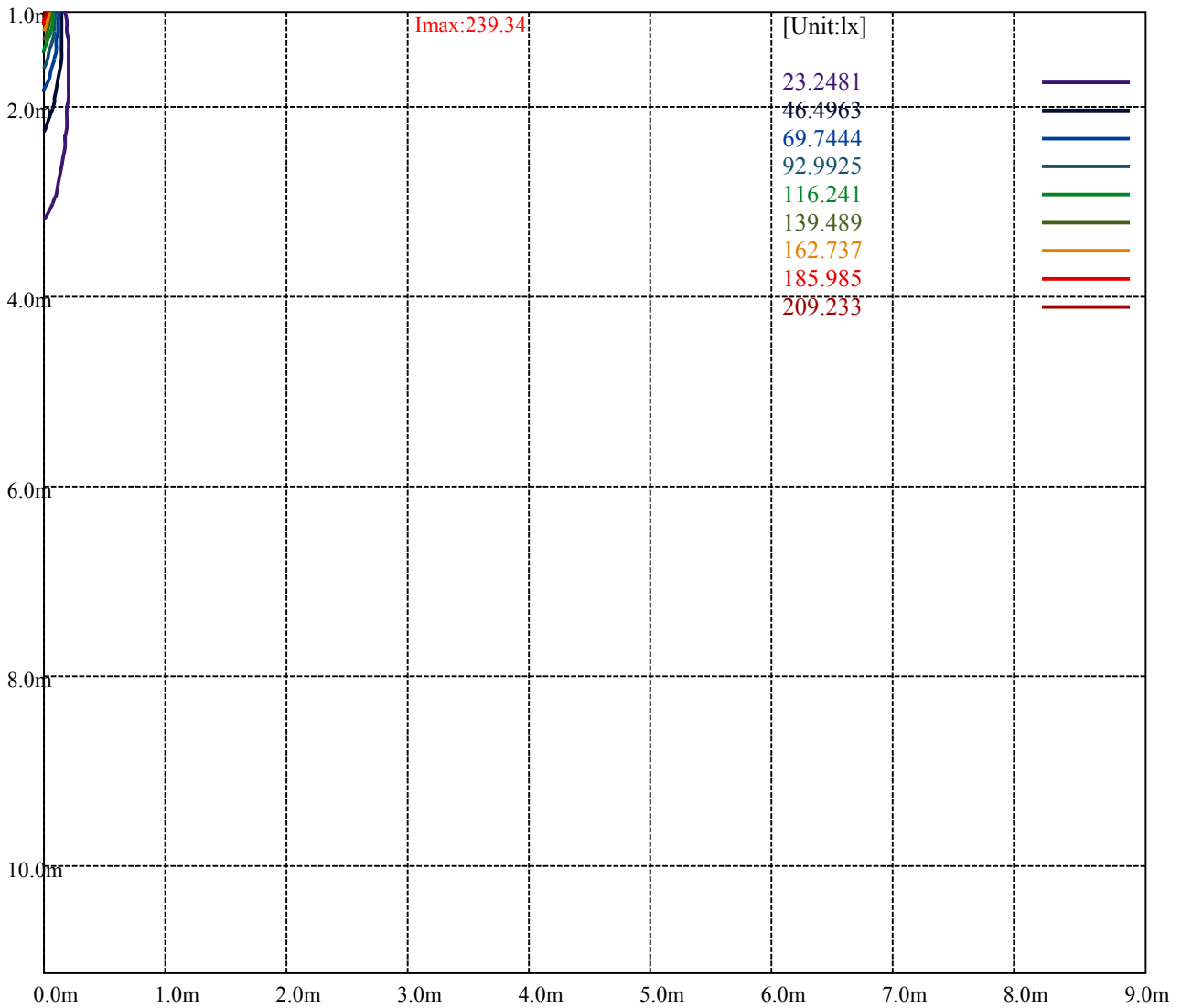
(80%I<sub>max</sub>) 191.475

(90%I<sub>max</sub>) 215.409





(10%Emax) 23.0878	—
(20%Emax) 46.1757	—
(30%Emax) 69.2635	—
(40%Emax) 92.3514	—
(50%Emax) 115.439	—
(60%Emax) 138.527	—
(70%Emax) 161.615	—
(80%Emax) 184.703	—
(90%Emax) 207.791	—



Luminance Table

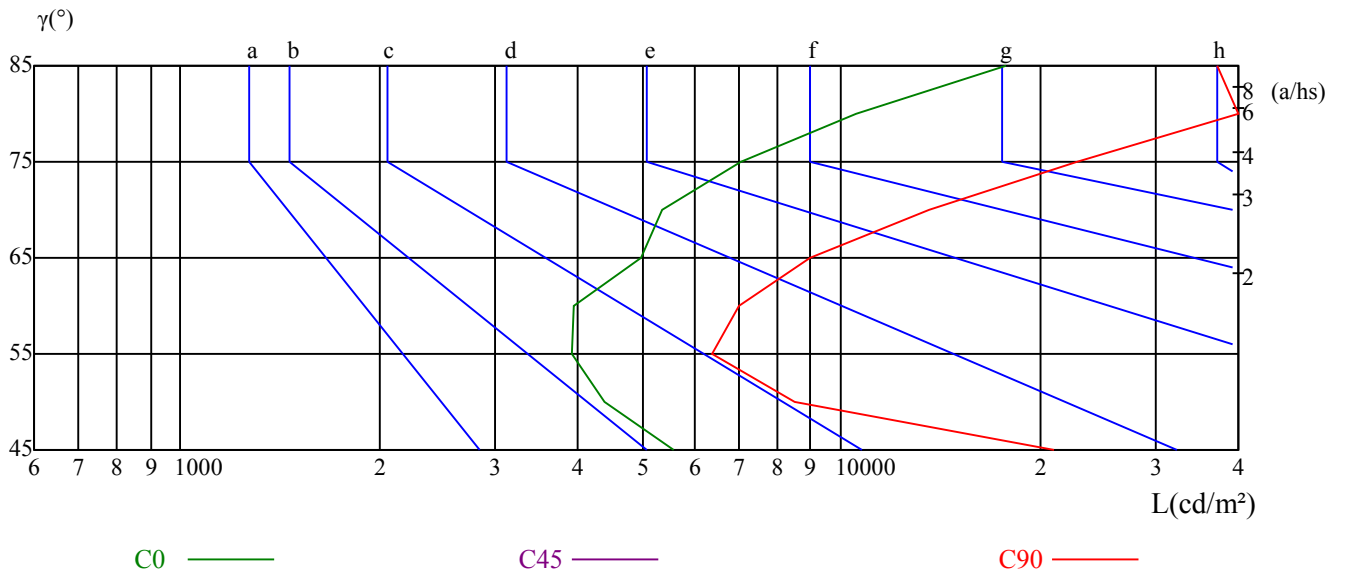
$\gamma$	45	50	55	60	65	70	75	80	85
C0	5568	4375	3923	3938	4991	5345	7063	10528	17748
C45	0	0	0	0	0	0	0	0	0
C90	21081	8532	6374	7031	8984	13568	22820	46970	37110

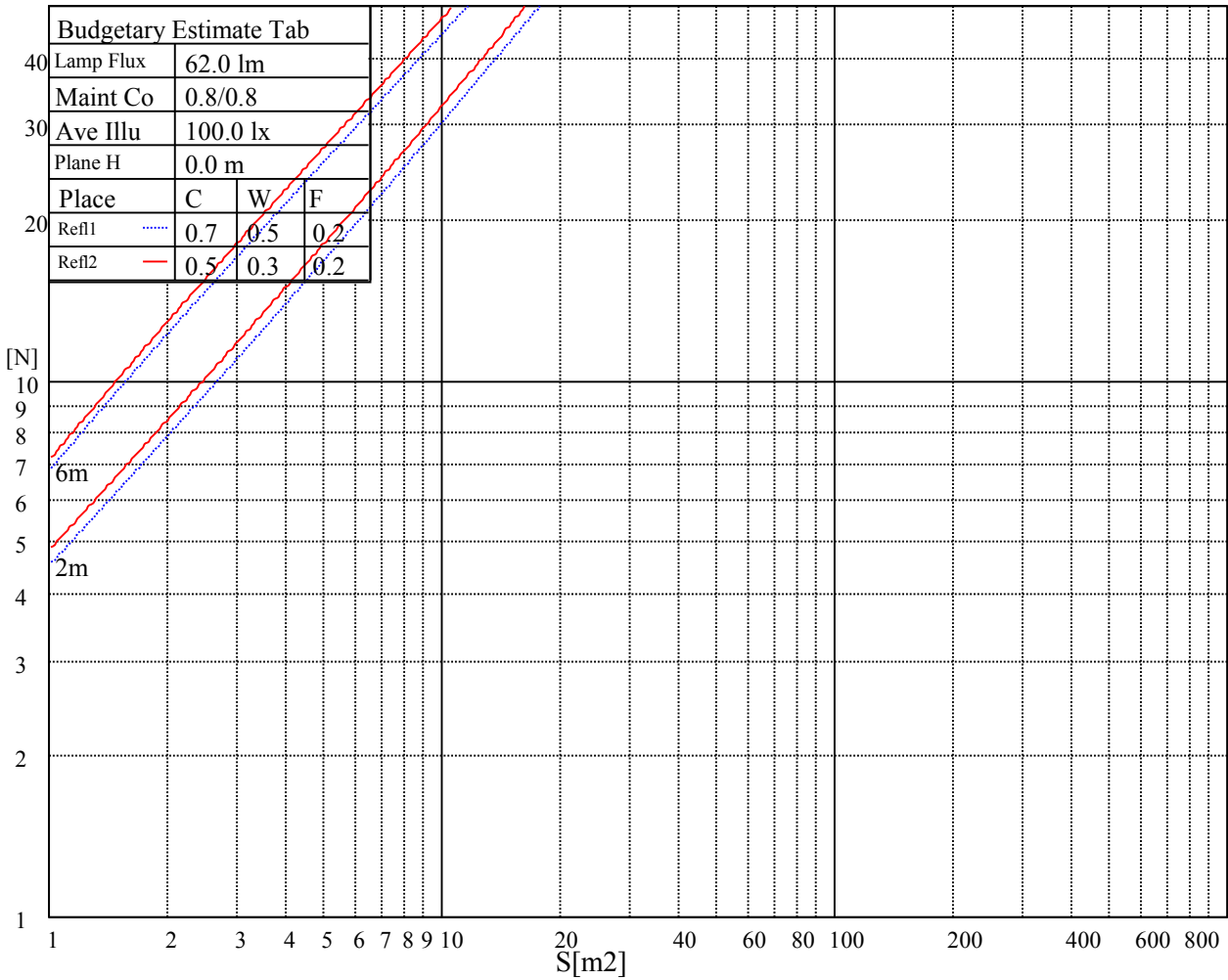
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4991	8984	0	7063	24178	0	16942	33883	0

Glare Table

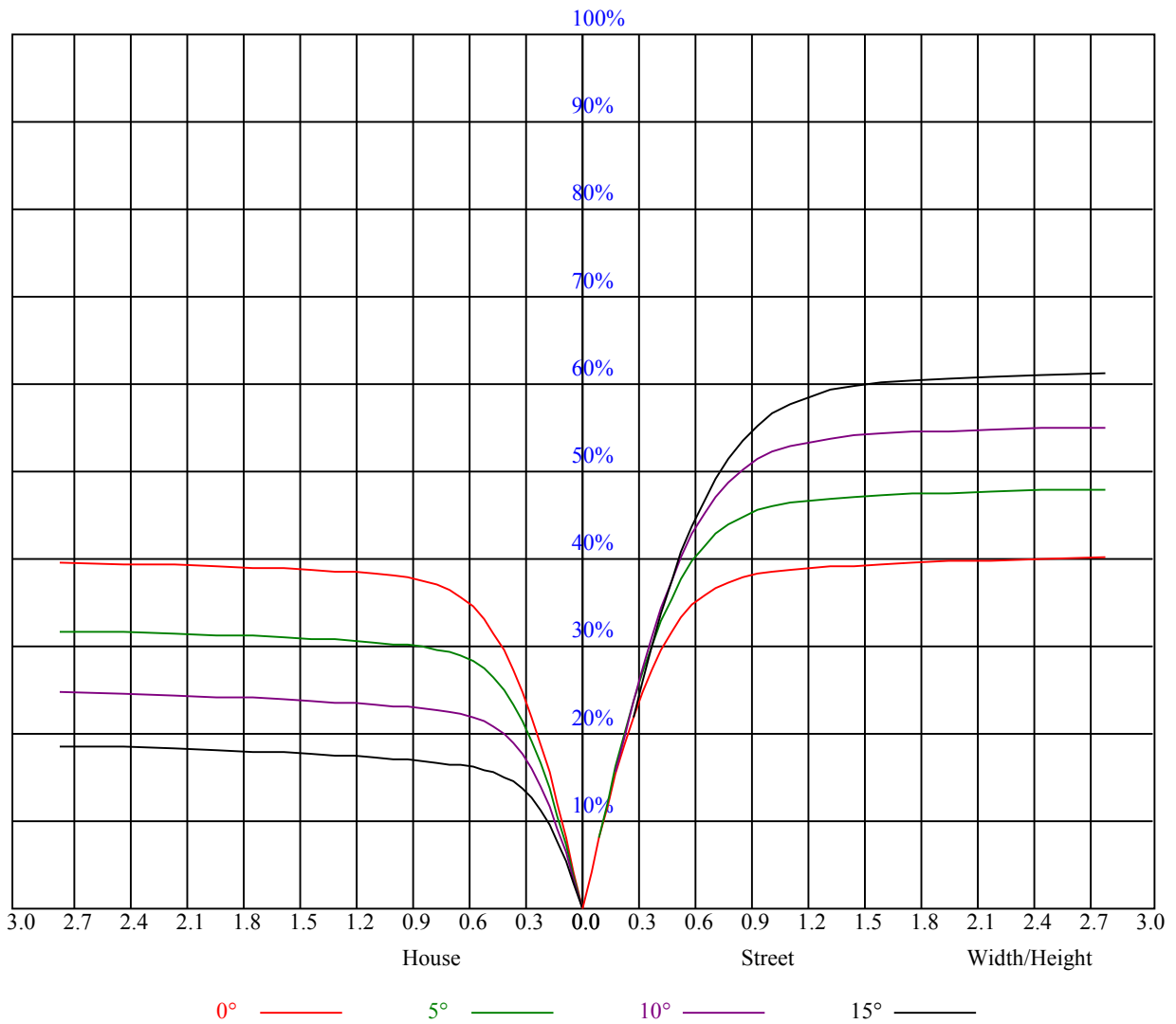
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	0.97	0.97	0.97	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.82
1	0.90	0.88	0.86	0.88	0.87	0.85	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76
2	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.78	0.76	0.78	0.76	0.74	0.76	0.74	0.73	0.72
3	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.68
4	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.70	0.68	0.66	0.65
5	0.72	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.62	0.69	0.65	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.60	0.59
7	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.57
8	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
9	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.54	0.59	0.56	0.54	0.53
10	0.59	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.52	0.52



Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	232.48	221.23	200.81	174.15	148.95	123.69	97.09	79.48	63.45
10.0	234.34	222.30	200.81	174.15	149.06	121.11	97.31	79.26	63.11
20.0	227.87	213.53	193.05	164.14	139.73	116.33	93.99	74.81	59.29
30.0	233.21	222.98	204.92	181.52	159.64	133.71	109.80	91.63	76.05
40.0	228.04	216.96	197.04	178.37	158.18	132.19	112.44	95.29	76.95
50.0	233.72	224.83	212.06	199.46	178.99	161.33	142.82	120.15	104.06
60.0	229.56	221.68	210.94	199.24	185.51	169.48	152.27	136.74	119.70
70.0	231.81	227.53	221.23	213.98	204.19	192.38	181.18	168.30	156.32
80.0	230.51	227.87	224.10	218.64	211.67	205.20	196.88	187.65	178.76
90.0	231.19	230.96	229.73	227.59	224.61	219.43	214.82	209.53	203.01
100.0	232.20	233.04	232.76	230.79	228.26	224.61	219.66	214.14	208.58
110.0	230.63	233.61	234.90	234.39	232.48	228.04	221.74	215.33	208.69
120.0	232.31	234.90	235.35	232.65	227.81	220.73	210.66	198.17	186.13
130.0	229.56	234.39	236.14	233.21	227.59	217.52	203.51	188.27	171.68
140.0	233.21	236.25	234.28	227.87	217.58	199.01	182.81	160.26	133.93
150.0	228.32	234.23	234.96	229.50	217.18	201.32	178.20	152.89	129.94
160.0	231.92	235.58	232.37	221.23	205.48	181.58	154.18	129.15	103.95
170.0	227.70	235.52	234.62	226.63	209.98	188.33	160.48	130.78	107.33
180.0	232.48	236.59	231.81	219.88	198.51	174.43	144.45	115.37	92.93
190.0	234.34	239.34	236.08	223.71	202.95	178.88	152.38	120.66	98.16
200.0	227.87	236.76	237.43	230.23	214.82	191.31	166.89	138.71	114.86
210.0	233.21	237.71	235.58	226.01	209.64	189.68	166.84	137.48	114.86
220.0	228.04	234.79	236.36	231.98	222.58	206.66	186.02	165.49	141.30
230.0	233.72	236.31	235.74	229.11	221.29	209.31	187.93	172.58	153.90
240.0	229.56	233.78	235.29	233.44	228.94	221.34	209.53	197.27	183.83
250.0	231.81	233.66	233.38	231.02	227.08	221.29	213.47	203.85	194.68
260.0	230.51	232.20	232.26	230.46	227.64	223.65	217.52	212.18	205.88
270.0	231.19	230.63	228.83	225.96	221.91	216.62	211.44	205.26	199.24
280.0	232.20	230.12	226.74	222.81	217.01	210.04	203.29	195.36	188.21
290.0	230.63	225.73	219.71	211.67	202.05	191.93	181.58	167.85	157.39
300.0	232.31	226.63	217.86	207.84	194.57	179.33	165.54	149.63	135.90
310.0	229.56	220.11	208.46	192.38	174.43	157.39	140.12	119.42	104.57
320.0	233.21	225.34	209.59	192.54	173.53	148.50	128.64	110.53	92.76
330.0	227.19	215.16	197.94	172.69	151.14	129.09	104.57	88.20	73.86
340.0	231.92	221.85	200.87	179.21	155.87	129.04	105.19	87.53	72.11
350.0	227.70	213.24	192.60	163.52	139.11	115.43	91.01	74.36	58.73
360.0	232.48	221.23	200.81	174.15	148.95	123.69	97.09	79.48	63.45



## Intensity data(cd)

Appendix Page: 17 Total:26

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	45.06	34.48	26.61	19.69	14.57	11.42	9.39	8.10	6.98
10.0	44.78	33.98	26.16	19.29	14.23	11.25	9.28	7.88	6.98
20.0	43.37	32.29	25.09	18.68	14.46	11.25	9.17	8.04	7.14
30.0	58.11	44.66	34.31	26.04	19.74	15.53	12.04	9.84	8.49
40.0	65.25	50.96	37.35	30.49	23.91	18.23	15.13	12.32	9.56
50.0	89.94	74.36	62.94	52.20	39.60	31.89	26.27	21.32	17.21
60.0	105.53	91.86	79.65	70.03	59.85	50.74	43.14	36.23	28.86
70.0	142.93	129.66	118.13	107.33	94.50	85.39	77.40	68.57	61.99
80.0	170.10	159.24	150.81	142.37	132.30	124.65	117.23	109.13	101.53
90.0	196.31	190.41	183.54	177.13	170.33	163.86	158.51	152.49	146.70
100.0	201.88	195.02	188.78	181.58	175.33	168.64	162.00	155.98	149.74
110.0	197.44	188.66	180.39	168.58	157.50	148.89	136.80	126.45	118.63
120.0	170.94	155.53	141.81	126.90	113.57	99.68	87.19	77.12	67.84
130.0	150.53	132.69	115.48	98.10	82.69	70.54	58.44	48.09	40.28
140.0	116.33	96.36	76.73	64.97	53.04	39.43	32.68	26.61	20.98
150.0	106.65	85.44	69.02	56.76	40.78	32.18	26.27	19.58	15.02
160.0	83.81	64.63	48.88	37.91	28.80	21.60	16.76	13.11	10.07
170.0	83.98	63.73	48.94	37.63	27.17	20.76	15.92	11.98	9.62
180.0	73.01	52.54	40.05	31.05	22.28	16.93	12.99	10.24	8.55
190.0	78.13	56.98	43.54	33.64	25.03	18.39	14.18	10.69	9.28
200.0	91.41	70.88	55.18	42.47	31.05	24.08	18.45	13.44	10.80
210.0	94.84	72.68	57.26	44.72	33.92	26.04	20.48	15.58	12.43
220.0	118.18	99.39	80.61	65.76	51.53	39.66	31.50	25.43	19.35
230.0	133.03	113.18	96.98	80.61	65.93	54.73	43.93	35.78	28.63
240.0	166.22	151.26	136.07	119.42	104.18	91.35	78.41	68.01	57.54
250.0	183.54	171.84	161.10	149.12	138.38	126.56	114.98	105.02	95.40
260.0	198.39	192.04	185.40	177.92	170.55	164.08	156.49	150.02	142.43
270.0	193.78	187.48	181.52	176.18	171.06	164.87	160.20	155.48	149.68
280.0	180.23	171.90	164.59	157.67	149.18	142.65	136.41	128.64	122.40
290.0	147.09	135.51	124.48	115.26	106.48	95.96	88.31	81.11	73.58
300.0	121.05	107.10	95.68	85.33	73.97	65.81	58.05	49.28	42.81
310.0	91.29	76.78	65.87	56.03	45.79	37.07	30.60	24.98	20.87
320.0	77.96	65.76	52.31	41.68	32.51	25.82	20.93	16.54	13.16
330.0	60.24	44.33	34.48	27.39	20.42	16.26	13.05	10.46	8.83
340.0	54.00	41.40	31.33	24.41	18.39	14.34	11.14	9.39	7.99
350.0	43.09	32.12	24.75	18.39	13.67	10.97	9.11	7.93	6.92
360.0	45.06	34.48	26.61	19.69	14.57	11.42	9.39	8.10	6.98

Intensity data(cd)										Appendix Page: 18 Total:26
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	
0.0	6.24	5.63	4.95	4.28	3.77	3.32	2.98	2.76	2.64	
10.0	6.13	5.57	4.89	4.28	3.71	3.32	2.93	2.76	2.64	
20.0	6.19	5.63	5.12	4.44	3.94	3.49	3.15	2.93	2.81	
30.0	7.37	6.64	5.96	5.40	4.95	4.39	3.88	3.54	3.21	
40.0	8.44	7.48	6.64	6.02	5.51	5.06	4.61	4.22	3.83	
50.0	14.12	11.59	9.62	8.33	7.14	6.41	5.79	5.23	4.84	
60.0	24.30	20.70	17.44	14.63	12.49	10.58	8.94	7.76	6.64	
70.0	55.41	49.28	43.37	38.53	33.64	28.24	24.36	20.93	17.61	
80.0	95.01	87.92	81.73	75.04	68.40	62.66	56.48	50.57	45.56	
90.0	141.24	136.46	129.60	124.43	118.41	111.09	104.68	97.76	89.89	
100.0	142.20	136.18	129.83	121.61	114.86	108.06	100.24	92.19	85.11	
110.0	107.04	98.89	90.51	80.66	72.79	65.70	57.54	51.41	45.62	
120.0	57.49	50.12	43.54	36.17	30.99	26.49	22.22	18.68	16.09	
130.0	32.12	27.00	21.99	18.06	14.96	12.21	10.07	8.44	7.14	
140.0	16.43	13.28	10.63	8.66	7.59	6.69	6.08	5.51	5.01	
150.0	12.21	9.56	8.16	7.37	6.53	5.91	5.40	4.84	4.44	
160.0	8.55	7.54	6.69	5.96	5.34	4.89	4.39	3.94	3.54	
170.0	8.27	7.20	6.36	5.68	5.12	4.56	4.05	3.54	3.21	
180.0	7.54	6.58	5.91	5.29	4.73	4.16	3.66	3.26	3.04	
190.0	7.99	6.98	6.24	5.63	5.01	4.44	3.94	3.43	3.21	
200.0	9.17	8.04	7.03	6.36	5.68	5.12	4.56	4.11	3.66	
210.0	10.07	8.61	7.65	6.81	6.13	5.57	5.06	4.56	4.11	
220.0	15.53	12.60	9.96	8.55	7.59	6.75	6.13	5.57	5.12	
230.0	23.23	19.24	15.98	12.66	10.58	8.89	7.37	6.53	5.85	
240.0	48.43	41.34	34.37	28.41	24.24	21.04	16.88	14.34	12.43	
250.0	84.09	75.77	67.84	58.73	52.09	45.84	39.49	33.75	29.25	
260.0	134.72	127.69	119.59	111.21	103.61	96.08	86.79	79.37	72.00	
270.0	143.72	138.38	131.79	124.82	118.18	110.70	103.73	95.85	87.75	
280.0	116.16	109.18	102.09	95.74	88.48	81.34	75.15	68.18	62.10	
290.0	66.32	60.36	54.23	48.26	43.43	38.31	34.03	29.70	25.65	
300.0	36.84	31.61	25.99	22.22	19.18	16.03	13.78	11.87	10.07	
310.0	17.04	14.06	11.81	9.90	8.27	7.20	6.41	5.63	5.18	
320.0	10.86	9.23	7.88	6.98	6.36	5.68	5.23	4.84	4.44	
330.0	7.82	6.92	6.24	5.68	5.06	4.61	4.11	3.71	3.32	
340.0	7.03	6.36	5.68	5.06	4.56	4.05	3.49	3.21	2.98	
350.0	6.13	5.51	5.01	4.28	3.77	3.32	2.98	2.76	2.70	
360.0	6.24	5.63	4.95	4.28	3.77	3.32	2.98	2.76	2.64	

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2.53	2.48	2.48	2.48	2.42	2.36	2.36	2.42	2.36
10.0	2.59	2.48	2.48	2.42	2.42	2.42	2.42	2.36	2.31
20.0	2.64	2.59	2.53	2.48	2.48	2.36	2.36	2.25	2.25
30.0	2.93	2.81	2.70	2.59	2.48	2.42	2.31	2.19	2.14
40.0	3.49	3.21	2.93	2.70	2.53	2.36	2.25	2.14	2.03
50.0	4.56	4.16	3.88	3.60	3.26	3.04	2.76	2.59	2.36
60.0	5.91	5.29	4.73	4.28	3.94	3.54	3.32	3.09	2.81
70.0	15.13	13.28	11.48	9.96	8.49	7.26	6.41	5.46	4.84
80.0	40.89	35.61	31.56	27.84	24.08	20.81	18.23	15.64	13.33
90.0	82.24	75.66	68.46	62.10	55.18	49.22	44.10	38.53	33.64
100.0	78.08	70.26	62.72	55.63	49.73	43.65	38.08	33.53	29.48
110.0	39.32	34.88	30.43	25.93	22.05	18.73	15.98	13.44	11.64
120.0	13.56	11.59	9.73	8.10	6.81	5.79	4.89	4.28	3.83
130.0	6.13	5.57	5.01	4.56	4.05	3.77	3.54	3.21	3.04
140.0	4.67	4.39	3.99	3.71	3.38	3.04	2.76	2.59	2.42
150.0	4.05	3.60	3.32	3.04	2.81	2.70	2.59	2.48	2.36
160.0	3.26	3.04	2.87	2.81	2.70	2.59	2.53	2.48	2.36
170.0	3.09	2.93	2.76	2.70	2.70	2.64	2.64	2.59	2.59
180.0	2.87	2.81	2.76	2.70	2.64	2.64	2.59	2.64	2.64
190.0	3.04	2.93	2.87	2.76	2.76	2.76	2.70	2.64	2.64
200.0	3.32	3.15	2.98	2.93	2.81	2.70	2.64	2.64	2.53
210.0	3.77	3.38	3.09	2.98	2.81	2.70	2.59	2.48	2.42
220.0	4.67	4.39	3.94	3.60	3.21	2.98	2.76	2.59	2.42
230.0	5.40	4.84	4.50	4.11	3.83	3.54	3.26	3.04	2.76
240.0	10.07	8.33	7.26	6.02	5.12	4.61	4.05	3.71	3.43
250.0	24.64	20.42	17.33	14.46	12.32	10.35	8.78	7.54	6.53
260.0	63.84	56.25	50.63	43.20	37.29	32.46	27.68	23.91	20.14
270.0	80.49	73.46	64.35	58.89	52.99	46.01	40.89	36.06	30.71
280.0	55.46	49.22	44.10	39.32	34.03	30.15	26.55	22.56	19.69
290.0	22.28	19.24	15.98	13.84	11.98	10.01	8.78	7.59	6.53
300.0	8.55	7.37	6.24	5.46	4.67	4.22	3.77	3.43	3.15
310.0	4.78	4.28	3.99	3.71	3.38	3.15	2.93	2.70	2.59
320.0	4.05	3.71	3.38	3.09	2.81	2.59	2.36	2.25	2.14
330.0	3.09	2.76	2.64	2.53	2.42	2.31	2.19	2.14	2.03
340.0	2.81	2.70	2.59	2.53	2.42	2.36	2.31	2.19	2.19
350.0	2.59	2.53	2.53	2.48	2.48	2.36	2.31	2.31	2.25
360.0	2.53	2.48	2.48	2.48	2.42	2.36	2.36	2.42	2.36

Intensity data(cd)

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	2.36	2.31	2.25	2.19	2.19	2.08	1.91	1.80	1.69
10.0	2.25	2.25	2.19	2.14	2.08	1.97	1.91	1.80	1.69
20.0	2.14	2.08	2.08	2.03	1.91	1.86	1.80	1.74	1.69
30.0	2.08	2.03	1.97	1.91	1.86	1.80	1.74	1.63	1.58
40.0	1.97	1.91	1.86	1.74	1.69	1.63	1.63	1.58	1.52
50.0	2.19	2.08	1.97	1.86	1.74	1.69	1.63	1.58	1.46
60.0	2.64	2.53	2.31	2.25	2.08	1.97	1.86	1.74	1.63
70.0	4.28	3.83	3.32	2.98	2.76	2.48	2.31	2.14	1.91
80.0	11.59	9.84	8.49	7.20	6.08	5.23	4.50	3.71	3.21
90.0	29.70	26.16	22.05	18.96	16.43	13.56	11.08	9.28	7.48
100.0	25.31	21.66	18.68	15.41	13.16	11.08	9.23	7.31	6.02
110.0	9.79	8.44	7.14	6.08	5.29	4.56	3.83	3.38	2.87
120.0	3.43	3.15	2.93	2.64	2.48	2.31	2.19	1.97	1.91
130.0	2.81	2.59	2.48	2.31	2.08	2.03	1.86	1.80	1.69
140.0	2.31	2.14	2.03	1.97	1.91	1.80	1.74	1.69	1.63
150.0	2.25	2.19	2.08	2.03	1.97	1.91	1.86	1.74	1.74
160.0	2.31	2.25	2.14	2.08	2.03	2.03	1.91	1.91	1.86
170.0	2.53	2.48	2.36	2.31	2.25	2.19	2.14	2.08	2.03
180.0	2.59	2.59	2.53	2.42	2.42	2.31	2.19	2.08	1.97
190.0	2.64	2.59	2.48	2.48	2.36	2.25	2.19	2.08	1.97
200.0	2.53	2.42	2.36	2.31	2.19	2.14	2.08	2.03	1.97
210.0	2.31	2.19	2.14	2.08	2.03	1.91	1.86	1.80	1.80
220.0	2.31	2.14	2.08	2.03	1.91	1.86	1.80	1.69	1.63
230.0	2.59	2.36	2.25	2.03	1.91	1.86	1.80	1.69	1.63
240.0	3.15	2.87	2.70	2.53	2.42	2.25	2.03	1.91	1.86
250.0	5.46	4.78	4.11	3.60	3.15	2.81	2.53	2.31	2.08
260.0	16.93	14.40	12.21	9.84	8.33	7.03	5.68	4.73	3.99
270.0	26.83	23.40	19.41	16.59	14.12	11.36	9.68	7.71	6.02
280.0	17.16	14.63	12.38	10.63	9.00	7.65	6.36	5.29	4.44
290.0	5.63	4.95	4.28	3.77	3.32	2.87	2.64	2.42	2.14
300.0	2.93	2.70	2.53	2.42	2.25	2.08	1.97	1.86	1.80
310.0	2.36	2.14	2.08	1.91	1.80	1.74	1.63	1.52	1.52
320.0	2.03	1.97	1.80	1.74	1.69	1.69	1.58	1.58	1.46
330.0	1.97	1.91	1.86	1.80	1.74	1.69	1.69	1.58	1.52
340.0	2.08	2.03	1.91	1.91	1.86	1.80	1.74	1.69	1.69
350.0	2.19	2.08	2.14	2.03	1.97	1.97	1.86	1.80	1.69
360.0	2.36	2.31	2.25	2.19	2.19	2.08	1.91	1.80	1.69

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Intensity data(cd)									
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	1.58	1.41	1.35	1.29	1.18	1.13	1.07	0.96	0.96
10.0	1.58	1.46	1.35	1.24	1.18	1.13	1.07	0.96	0.96
20.0	1.63	1.52	1.41	1.35	1.24	1.18	1.13	1.07	1.01
30.0	1.58	1.52	1.46	1.41	1.35	1.29	1.24	1.18	1.18
40.0	1.46	1.41	1.35	1.35	1.29	1.24	1.18	1.18	1.13
50.0	1.46	1.41	1.41	1.29	1.29	1.24	1.18	1.18	1.13
60.0	1.58	1.46	1.41	1.35	1.29	1.24	1.24	1.24	1.13
70.0	1.80	1.74	1.69	1.58	1.52	1.41	1.41	1.29	1.29
80.0	2.81	2.36	2.08	1.97	1.74	1.63	1.52	1.46	1.46
90.0	5.96	4.89	3.83	3.21	2.64	2.19	1.97	1.74	1.58
100.0	4.95	3.99	3.21	2.70	2.31	1.97	1.80	1.58	1.52
110.0	2.53	2.25	2.03	1.91	1.69	1.58	1.52	1.46	1.35
120.0	1.80	1.69	1.63	1.52	1.46	1.41	1.35	1.29	1.24
130.0	1.63	1.52	1.46	1.41	1.41	1.35	1.24	1.29	1.24
140.0	1.58	1.52	1.46	1.41	1.35	1.35	1.29	1.29	1.24
150.0	1.69	1.63	1.58	1.52	1.46	1.41	1.35	1.35	1.29
160.0	1.80	1.74	1.69	1.58	1.52	1.46	1.41	1.29	1.24
170.0	1.91	1.80	1.69	1.58	1.46	1.29	1.24	1.18	1.07
180.0	1.80	1.69	1.52	1.41	1.29	1.24	1.13	1.07	1.07
190.0	1.86	1.69	1.52	1.46	1.35	1.24	1.13	1.07	1.01
200.0	1.86	1.86	1.74	1.58	1.52	1.35	1.24	1.24	1.13
210.0	1.69	1.63	1.58	1.52	1.46	1.41	1.35	1.24	1.24
220.0	1.58	1.58	1.52	1.46	1.41	1.29	1.29	1.29	1.24
230.0	1.52	1.46	1.41	1.35	1.35	1.29	1.24	1.18	1.13
240.0	1.80	1.63	1.58	1.46	1.41	1.35	1.29	1.24	1.18
250.0	1.91	1.80	1.69	1.58	1.52	1.41	1.35	1.29	1.29
260.0	3.32	2.81	2.48	2.14	1.86	1.74	1.58	1.52	1.41
270.0	4.95	4.05	3.04	2.59	2.19	1.86	1.69	1.58	1.46
280.0	3.66	3.04	2.59	2.25	1.97	1.74	1.63	1.46	1.46
290.0	1.97	1.80	1.69	1.52	1.46	1.41	1.35	1.29	1.24
300.0	1.69	1.63	1.58	1.46	1.35	1.35	1.29	1.24	1.18
310.0	1.46	1.41	1.35	1.29	1.24	1.24	1.18	1.13	1.13
320.0	1.46	1.41	1.35	1.29	1.24	1.24	1.18	1.18	1.13
330.0	1.46	1.46	1.41	1.35	1.29	1.24	1.24	1.18	1.18
340.0	1.63	1.58	1.52	1.41	1.29	1.24	1.24	1.13	1.07
350.0	1.58	1.46	1.35	1.29	1.18	1.13	1.07	1.01	0.96
360.0	1.58	1.41	1.35	1.29	1.18	1.13	1.07	0.96	0.96

Intensity data(cd)										Appendix Page: 22 Total:26
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0	
0.0	0.90	0.90	0.90	0.90	0.84	0.84	0.79	0.79	0.79	
10.0	0.96	0.90	0.90	0.84	0.84	0.84	0.84	0.84	0.79	
20.0	0.96	0.96	0.96	0.90	0.84	0.84	0.84	0.79	0.84	
30.0	1.13	1.01	1.01	1.01	0.96	0.90	0.90	0.84	0.84	
40.0	1.13	1.07	1.07	0.96	0.96	0.96	0.90	0.90	0.84	
50.0	1.13	1.07	1.07	1.01	1.01	0.96	0.90	0.90	0.96	
60.0	1.13	1.13	1.07	1.01	1.01	1.01	0.96	0.96	0.96	
70.0	1.24	1.24	1.18	1.13	1.13	1.13	1.13	1.07	1.07	
80.0	1.41	1.35	1.29	1.29	1.35	1.29	1.29	1.29	1.29	
90.0	1.58	1.46	1.41	1.41	1.41	1.41	1.41	1.41	1.41	
100.0	1.46	1.41	1.35	1.35	1.35	1.35	1.29	1.29	1.35	
110.0	1.35	1.29	1.24	1.24	1.24	1.24	1.18	1.18	1.18	
120.0	1.18	1.13	1.13	1.13	1.07	1.07	1.07	1.01	1.01	
130.0	1.13	1.13	1.13	1.07	1.07	1.07	1.01	1.01	0.96	
140.0	1.18	1.18	1.13	1.13	1.07	1.01	1.01	1.01	0.96	
150.0	1.24	1.24	1.18	1.13	1.07	1.07	1.01	1.01	1.01	
160.0	1.13	1.07	1.01	1.01	0.96	0.96	0.90	0.90	0.90	
170.0	1.07	1.01	0.96	0.90	0.90	0.90	0.84	0.84	0.79	
180.0	1.01	0.90	0.90	0.84	0.84	0.90	0.90	0.84	0.79	
190.0	0.96	0.90	0.90	0.84	0.90	0.84	0.84	0.84	0.79	
200.0	1.13	1.01	0.96	0.96	0.96	0.96	0.90	0.84	0.84	
210.0	1.18	1.18	1.07	1.01	0.96	0.96	0.96	0.90	0.90	
220.0	1.18	1.13	1.07	1.07	1.07	0.96	0.96	0.96	0.90	
230.0	1.13	1.07	1.07	1.01	1.01	1.01	0.96	0.96	0.90	
240.0	1.13	1.13	1.13	1.07	1.07	1.01	1.01	1.01	1.01	
250.0	1.24	1.18	1.18	1.13	1.13	1.13	1.07	1.07	1.07	
260.0	1.41	1.35	1.29	1.29	1.24	1.24	1.24	1.24	1.24	
270.0	1.41	1.41	1.35	1.35	1.35	1.29	1.35	1.41	1.41	
280.0	1.41	1.35	1.29	1.29	1.29	1.29	1.29	1.29	1.29	
290.0	1.24	1.18	1.18	1.13	1.18	1.13	1.13	1.07	1.13	
300.0	1.13	1.07	1.07	1.07	1.07	1.01	1.01	0.96	1.01	
310.0	1.07	1.07	1.01	1.01	0.96	0.90	0.96	0.96	0.96	
320.0	1.07	1.07	1.01	1.01	0.96	0.96	0.96	0.90	0.96	
330.0	1.13	1.07	1.01	1.01	0.96	0.96	0.96	0.90	0.84	
340.0	1.01	1.01	0.96	0.96	0.90	0.84	0.84	0.84	0.84	
350.0	0.90	0.90	0.90	0.90	0.84	0.84	0.84	0.79	0.79	
360.0	0.90	0.90	0.90	0.90	0.84	0.84	0.79	0.79	0.79	

Intensity data(cd)									
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	0.79	0.79	0.84	0.79	0.79	0.79	0.73	0.73	0.79
10.0	0.79	0.84	0.79	0.79	0.79	0.79	0.79	0.79	0.73
20.0	0.84	0.79	0.79	0.79	0.79	0.79	0.73	0.73	0.79
30.0	0.90	0.84	0.84	0.84	0.79	0.79	0.79	0.79	0.79
40.0	0.84	0.84	0.79	0.79	0.84	0.84	0.79	0.79	0.79
50.0	0.90	0.90	0.84	0.84	0.84	0.84	0.84	0.84	0.79
60.0	0.90	0.96	0.96	0.90	0.90	0.90	0.90	0.90	0.90
70.0	1.07	1.07	1.07	1.01	1.07	1.07	1.13	1.07	1.07
80.0	1.29	1.29	1.35	1.29	1.41	1.35	1.41	1.46	1.52
90.0	1.46	1.46	1.52	1.58	1.63	1.69	1.74	1.86	1.91
100.0	1.35	1.41	1.41	1.46	1.46	1.46	1.52	1.58	1.63
110.0	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.24	1.29
120.0	1.01	1.01	0.96	1.01	0.96	1.01	0.96	0.96	0.96
130.0	0.96	0.96	0.96	0.96	0.90	0.90	0.90	0.90	0.90
140.0	0.96	0.96	0.90	0.96	0.90	0.84	0.84	0.84	0.84
150.0	0.96	0.96	0.90	0.90	0.90	0.84	0.84	0.84	0.84
160.0	0.84	0.84	0.84	0.84	0.84	0.79	0.79	0.79	0.79
170.0	0.84	0.79	0.84	0.84	0.84	0.79	0.73	0.79	0.73
180.0	0.84	0.84	0.84	0.79	0.79	0.79	0.79	0.73	0.73
190.0	0.84	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
200.0	0.84	0.84	0.84	0.79	0.84	0.79	0.79	0.79	0.73
210.0	0.90	0.79	0.84	0.84	0.84	0.84	0.79	0.84	0.79
220.0	0.90	0.90	0.84	0.84	0.84	0.84	0.79	0.84	0.84
230.0	0.90	0.90	0.90	0.90	0.84	0.84	0.84	0.84	0.84
240.0	0.96	0.96	0.90	0.96	0.90	0.96	0.90	0.90	0.90
250.0	1.13	1.07	1.07	1.01	1.07	1.07	1.07	1.13	1.07
260.0	1.24	1.24	1.29	1.29	1.35	1.35	1.41	1.46	1.46
270.0	1.46	1.46	1.52	1.63	1.74	1.80	1.91	2.08	2.19
280.0	1.29	1.29	1.35	1.35	1.41	1.41	1.41	1.52	1.52
290.0	1.13	1.13	1.07	1.07	1.13	1.13	1.13	1.07	1.13
300.0	0.96	1.01	0.96	0.96	0.96	0.96	0.96	0.96	0.96
310.0	0.90	0.90	0.90	0.84	0.90	0.84	0.84	0.84	0.84
320.0	0.90	0.90	0.84	0.79	0.84	0.84	0.79	0.79	0.79
330.0	0.84	0.84	0.84	0.79	0.79	0.79	0.79	0.84	0.79
340.0	0.84	0.79	0.79	0.73	0.79	0.79	0.79	0.79	0.79
350.0	0.79	0.84	0.79	0.79	0.79	0.79	0.79	0.79	0.73
360.0	0.79	0.79	0.84	0.79	0.79	0.73	0.73	0.73	0.79

Intensity data(cd)										Appendix Page: 24 Total:26
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0	
0.0	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.68	0.73	0.73
10.0	0.73	0.73	0.73	0.73	0.73	0.68	0.73	0.68	0.73	0.73
20.0	0.79	0.73	0.79	0.73	0.79	0.79	0.84	0.84	0.79	0.79
30.0	0.84	0.79	0.79	0.84	0.79	0.79	0.79	0.79	0.73	0.73
40.0	0.79	0.73	0.73	0.79	0.79	0.79	0.73	0.73	0.73	0.73
50.0	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
60.0	0.90	0.90	0.90	0.90	0.84	0.90	0.90	0.84	0.84	0.84
70.0	1.13	1.13	1.13	1.13	1.13	1.13	1.07	1.07	1.07	1.01
80.0	1.58	1.63	1.63	1.63	1.69	1.69	1.69	1.80	1.80	1.97
90.0	2.03	2.14	2.25	2.36	2.59	2.81	3.15	3.15	3.15	3.26
100.0	1.63	1.74	1.86	1.86	2.08	2.14	2.31	2.48	2.48	3.04
110.0	1.24	1.29	1.24	1.29	1.35	1.41	1.46	1.35	1.35	1.29
120.0	0.96	0.96	1.01	0.90	0.96	0.90	0.90	0.96	0.96	0.96
130.0	0.90	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
140.0	0.84	0.84	0.84	0.84	0.84	0.84	0.79	0.79	0.79	0.79
150.0	0.84	0.84	0.84	0.84	0.79	0.79	0.84	0.79	0.79	0.79
160.0	0.84	0.84	0.84	0.84	0.90	0.90	0.90	0.84	0.79	0.79
170.0	0.79	0.79	0.73	0.73	0.73	0.73	0.73	0.68	0.68	0.73
180.0	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.68	0.68	0.68
190.0	0.73	0.73	0.68	0.73	0.73	0.73	0.62	0.68	0.68	0.68
200.0	0.79	0.73	0.73	0.73	0.79	0.73	0.79	0.79	0.79	0.79
210.0	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.73
220.0	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
230.0	0.84	0.84	0.84	0.84	0.79	0.79	0.79	0.79	0.79	0.79
240.0	0.90	0.90	0.96	0.90	0.90	0.90	0.90	0.90	0.90	0.96
250.0	1.13	1.13	1.13	1.13	1.13	1.13	1.07	1.07	1.07	1.07
260.0	1.58	1.58	1.63	1.69	1.74	1.69	1.74	1.74	1.74	1.80
270.0	2.31	2.48	2.53	2.64	2.70	2.87	2.98	3.04	3.04	3.04
280.0	1.58	1.63	1.69	1.74	1.69	1.69	1.74	1.69	1.69	1.69
290.0	1.18	1.18	1.24	1.24	1.24	1.24	1.18	1.13	1.13	1.07
300.0	0.90	0.90	0.90	0.90	0.90	0.96	0.90	0.90	0.90	0.90
310.0	0.79	0.84	0.84	0.84	0.79	0.84	0.79	0.79	0.79	0.79
320.0	0.79	0.79	0.79	0.79	0.79	0.73	0.79	0.79	0.79	0.73
330.0	0.79	0.79	0.79	0.79	0.79	0.73	0.73	0.73	0.73	0.73
340.0	0.79	0.79	0.84	0.90	0.84	0.90	0.84	0.84	0.84	0.79
350.0	0.73	0.73	0.73	0.73	0.73	0.73	0.68	0.68	0.68	0.68
360.0	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.68	0.68	0.73



Intensity data(cd)									
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.68	0.68	0.62	0.68	0.62	0.56	0.34	0.23	0.17
10.0	0.73	0.68	0.62	0.68	0.62	0.62	0.39	0.23	0.17
20.0	0.79	0.79	0.68	0.73	0.68	0.62	0.34	0.23	0.17
30.0	0.73	0.68	0.73	0.68	0.68	0.62	0.45	0.28	0.23
40.0	0.73	0.73	0.73	0.73	0.68	0.62	0.34	0.28	0.23
50.0	0.79	0.73	0.73	0.79	0.73	0.68	0.45	0.34	0.28
60.0	0.79	0.79	0.79	0.79	0.73	0.68	0.45	0.39	0.28
70.0	1.07	1.01	0.96	0.96	0.96	0.84	0.68	0.51	0.39
80.0	2.03	1.63	1.35	1.24	1.07	0.96	0.68	0.62	0.51
90.0	4.16	4.78	2.03	1.58	1.29	1.13	1.01	0.84	0.84
100.0	2.93	2.93	1.63	1.29	1.13	1.07	0.79	0.68	0.68
110.0	1.24	1.13	1.13	1.01	0.96	0.84	0.73	0.51	0.56
120.0	0.90	0.84	0.84	0.79	0.79	0.79	0.45	0.39	0.34
130.0	0.79	0.84	0.79	0.79	0.79	0.79	0.56	0.34	0.28
140.0	0.79	0.73	0.73	0.79	0.73	0.68	0.39	0.28	0.23
150.0	0.79	0.73	0.73	0.79	0.73	0.68	0.45	0.28	0.17
160.0	0.79	0.79	0.73	0.73	0.68	0.62	0.34	0.23	0.23
170.0	0.68	0.68	0.68	0.62	0.62	0.62	0.39	0.28	0.17
180.0	0.68	0.68	0.62	0.62	0.56	0.56	0.28	0.23	0.23
190.0	0.68	0.68	0.62	0.62	0.62	0.56	0.34	0.23	0.23
200.0	0.73	0.73	0.73	0.79	0.73	0.68	0.45	0.28	0.23
210.0	0.73	0.73	0.68	0.68	0.62	0.62	0.34	0.28	0.23
220.0	0.73	0.73	0.73	0.73	0.68	0.68	0.45	0.34	0.23
230.0	0.79	0.79	0.79	0.79	0.79	0.68	0.39	0.34	0.23
240.0	0.90	0.84	0.84	0.84	0.84	0.73	0.51	0.39	0.28
250.0	1.01	1.07	1.01	1.01	0.90	0.73	0.51	0.45	0.39
260.0	1.69	1.58	1.35	1.13	1.01	0.73	0.62	0.56	0.45
270.0	2.81	2.31	1.69	1.29	1.07	0.90	0.73	0.73	0.62
280.0	1.69	1.46	1.35	1.18	1.01	0.79	0.68	0.62	0.45
290.0	1.07	1.07	1.01	1.01	0.96	0.73	0.56	0.45	0.39
300.0	0.84	0.84	0.90	0.84	0.79	0.73	0.45	0.39	0.34
310.0	0.79	0.79	0.73	0.79	0.73	0.62	0.39	0.28	0.23
320.0	0.73	0.73	0.73	0.73	0.68	0.68	0.39	0.28	0.23
330.0	0.73	0.68	0.68	0.68	0.62	0.62	0.34	0.23	0.17
340.0	0.79	0.79	0.73	0.73	0.62	0.62	0.34	0.28	0.23
350.0	0.68	0.68	0.68	0.68	0.62	0.56	0.28	0.17	0.17
360.0	0.68	0.68	0.62	0.68	0.62	0.56	0.34	0.23	0.17

## Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	0.17
10.0	0.17
20.0	0.17
30.0	0.17
40.0	0.17
50.0	0.23
60.0	0.17
70.0	0.28
80.0	0.23
90.0	0.73
100.0	0.68
110.0	0.45
120.0	0.28
130.0	0.23
140.0	0.23
150.0	0.23
160.0	0.17
170.0	0.17
180.0	0.17
190.0	0.17
200.0	0.17
210.0	0.17
220.0	0.17
230.0	0.17
240.0	0.17
250.0	0.11
260.0	0.17
270.0	0.17
280.0	0.28
290.0	0.17
300.0	0.17
310.0	0.11
320.0	0.17
330.0	0.11
340.0	0.17
350.0	0.17
360.0	0.17