



NATA LIGHTING CO.,LTD.
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NT

Client: NT

LumCAT: 61-0175

Luminaire:

Report No: 20260328-B011

Ballast type: AC

Test No: 20260328-C011

Voltage(V): 3.730

LampCAT: LUMINUS SFT-25R

Current(A): 0.705

Lamp flux(lm): 312.7

Power (W): 2.629

Number of Lamps: 1

PF: 0.000

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 18

Photometric Results

Lumens(lm): 302.67, Efficiency(%): 96.81% , Luminous Efficacy(lm/W): 115.13

Central intensity(cd): 10359.510, Maximum intensity(cd): 15537.380

Angle of maximum intensity: C=135.0 $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=5.4

[C90/270]Total=5.9

Field angle(10%Imax): [C0/180]Total=9.9

[C90/270]Total=10.2

Maximum s/h(1/2): C0_180=0.15 C90_270=0.08

Maximum s/h(1/4): C0_180=0.16 C90_270=0.07

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.25%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.555%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2026/3/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 7.50

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12247.988	0.000	0	0.00%	0.00%
1.0	11792.426	11.503	11.503	3.68%	3.80%
2.0	10240.566	31.624	43.127	10.11%	14.25%
3.0	6165.183	39.237	82.364	12.55%	27.21%
4.0	3487.922	32.312	114.676	10.33%	37.89%
5.0	2434.317	25.477	140.153	8.15%	46.31%
6.0	1694.025	21.696	161.849	6.94%	53.47%
7.0	895.655	16.074	177.923	5.14%	58.78%
8.0	692.916	11.369	189.292	3.64%	62.54%
9.0	539.916	9.991	199.283	3.20%	65.84%
10.0	451.020	8.968	208.251	2.87%	68.80%
11.0	364.591	8.150	216.4	2.61%	71.50%
12.0	303.089	7.299	223.699	2.33%	73.91%
13.0	255.326	6.627	230.326	2.12%	76.10%
14.0	197.353	5.794	236.12	1.85%	78.01%
15.0	173.257	5.088	241.208	1.63%	79.69%
16.0	119.341	4.287	245.496	1.37%	81.11%
17.0	93.199	3.310	248.806	1.06%	82.20%
18.0	75.635	2.784	251.589	0.89%	83.12%
19.0	62.065	2.396	253.985	0.77%	83.91%
20.0	50.857	2.067	256.052	0.66%	84.60%
21.0	43.439	1.811	257.862	0.58%	85.20%
22.0	36.352	1.603	259.466	0.51%	85.73%
23.0	31.451	1.423	260.888	0.46%	86.20%
24.0	27.464	1.288	262.177	0.41%	86.62%
25.0	24.047	1.171	263.348	0.37%	87.01%
26.0	21.354	1.072	264.42	0.34%	87.36%
27.0	18.752	0.981	265.401	0.31%	87.69%
28.0	16.812	0.900	266.301	0.29%	87.98%
29.0	14.948	0.831	267.132	0.27%	88.26%
30.0	13.050	0.756	267.888	0.24%	88.51%
31.0	11.820	0.692	268.58	0.22%	88.74%
32.0	10.863	0.650	269.23	0.21%	88.95%
33.0	10.076	0.617	269.847	0.20%	89.16%
34.0	9.443	0.591	270.437	0.19%	89.35%
35.0	8.873	0.569	271.006	0.18%	89.54%
36.0	8.430	0.551	271.557	0.18%	89.72%
37.0	8.009	0.536	272.093	0.17%	89.90%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	7.671	0.523	272.617	0.17%	90.07%
39.0	7.362	0.513	273.13	0.16%	90.24%
40.0	7.095	0.504	273.634	0.16%	90.41%
41.0	6.855	0.497	274.131	0.16%	90.57%
42.0	6.722	0.493	274.624	0.16%	90.73%
43.0	6.546	0.491	275.116	0.16%	90.90%
44.0	6.448	0.490	275.606	0.16%	91.06%
45.0	6.377	0.493	276.099	0.16%	91.22%
46.0	6.328	0.497	276.596	0.16%	91.39%
47.0	6.342	0.504	277.1	0.16%	91.55%
48.0	6.342	0.513	277.613	0.16%	91.72%
49.0	6.349	0.521	278.134	0.17%	91.89%
50.0	6.405	0.532	278.665	0.17%	92.07%
51.0	6.420	0.543	279.208	0.17%	92.25%
52.0	6.490	0.554	279.762	0.18%	92.43%
53.0	6.462	0.563	280.325	0.18%	92.62%
54.0	6.490	0.571	280.896	0.18%	92.81%
55.0	6.539	0.582	281.478	0.19%	93.00%
56.0	6.546	0.591	282.069	0.19%	93.19%
57.0	6.581	0.600	282.669	0.19%	93.39%
58.0	6.609	0.610	283.279	0.20%	93.59%
59.0	6.673	0.621	283.9	0.20%	93.80%
60.0	6.687	0.631	284.531	0.20%	94.01%
61.0	6.722	0.640	285.171	0.20%	94.22%
62.0	6.848	0.654	285.825	0.21%	94.43%
63.0	6.898	0.669	286.494	0.21%	94.66%
64.0	7.109	0.687	287.181	0.22%	94.88%
65.0	7.334	0.715	287.896	0.23%	95.12%
66.0	7.559	0.743	288.639	0.24%	95.36%
67.0	7.896	0.777	289.416	0.25%	95.62%
68.0	7.973	0.804	290.22	0.26%	95.89%
69.0	8.304	0.830	291.05	0.27%	96.16%
70.0	8.325	0.854	291.904	0.27%	96.44%
71.0	8.107	0.849	292.754	0.27%	96.72%
72.0	7.734	0.824	293.577	0.26%	97.00%
73.0	7.418	0.792	294.37	0.25%	97.26%
74.0	7.052	0.761	295.13	0.24%	97.51%
75.0	6.694	0.726	295.857	0.23%	97.75%

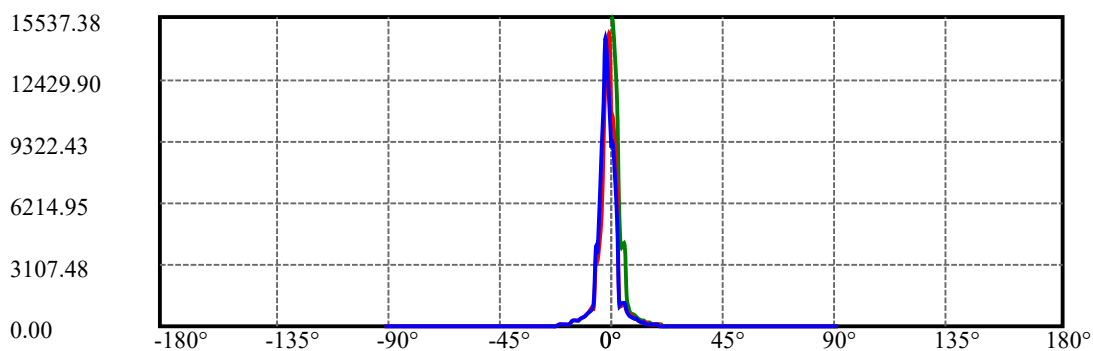
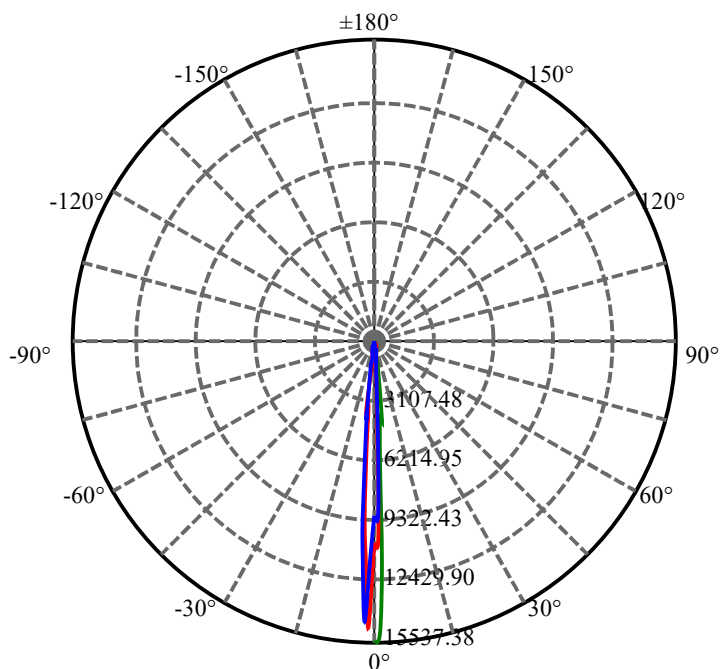
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.377	0.694	296.55	0.22%	97.98%
77.0	5.984	0.659	297.21	0.21%	98.20%
78.0	5.709	0.626	297.835	0.20%	98.40%
79.0	5.400	0.597	298.432	0.19%	98.60%
80.0	5.084	0.565	298.998	0.18%	98.79%
81.0	4.711	0.530	299.527	0.17%	98.96%
82.0	4.317	0.490	300.017	0.16%	99.12%
83.0	3.966	0.450	300.467	0.14%	99.27%
84.0	3.572	0.411	300.878	0.13%	99.41%
85.0	3.277	0.374	301.251	0.12%	99.53%
86.0	2.974	0.342	301.593	0.11%	99.64%
87.0	2.679	0.309	301.903	0.10%	99.75%
88.0	2.426	0.280	302.182	0.09%	99.84%
89.0	2.201	0.254	302.436	0.08%	99.92%
90.0	2.067	0.234	302.67	0.07%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	267.89	85.68%	88.51%
0-40	273.63	87.52%	90.41%
0-60	284.53	91.01%	94.01%
0-90	302.44	96.73%	99.92%
0-120	302.44	96.73%	99.92%
0-180	302.67	96.81%	100.00%
60-90	17.90	5.73%	5.92%
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%
0-15.22	242.14	77.45%	80.00%

ZONAL LUMEN SUMMARY

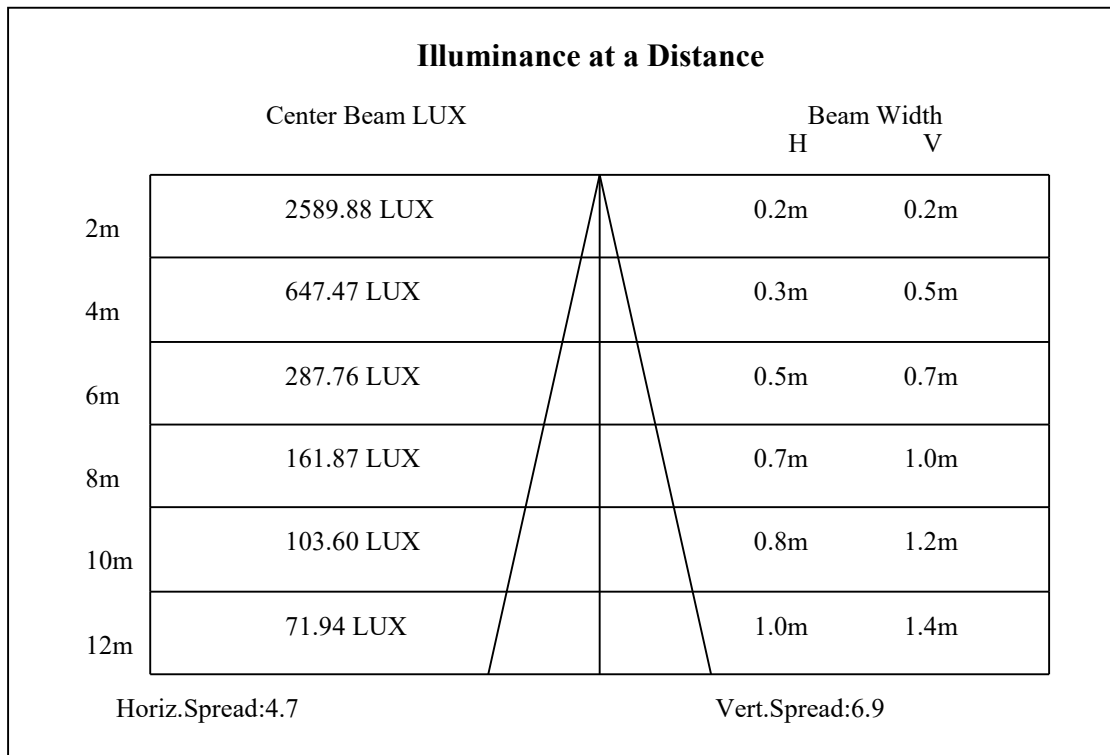
0-10	208.25
10-20	47.80
20-30	11.84
30-40	5.75
40-50	5.03
50-60	5.87
60-70	7.37
70-80	7.09
80-90	3.44
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

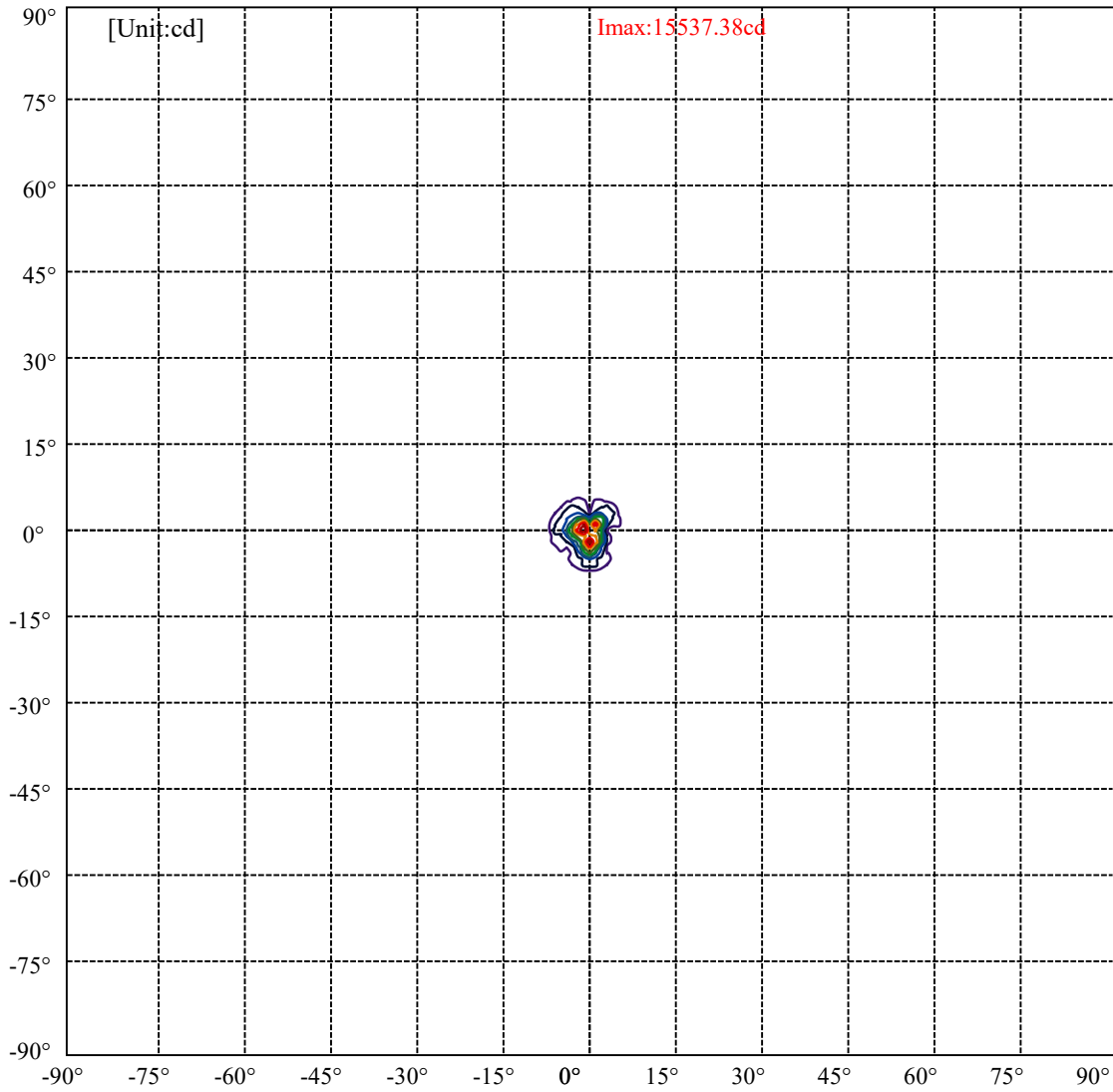


C135(Max): —
C0/C180: —
C90/C270: —

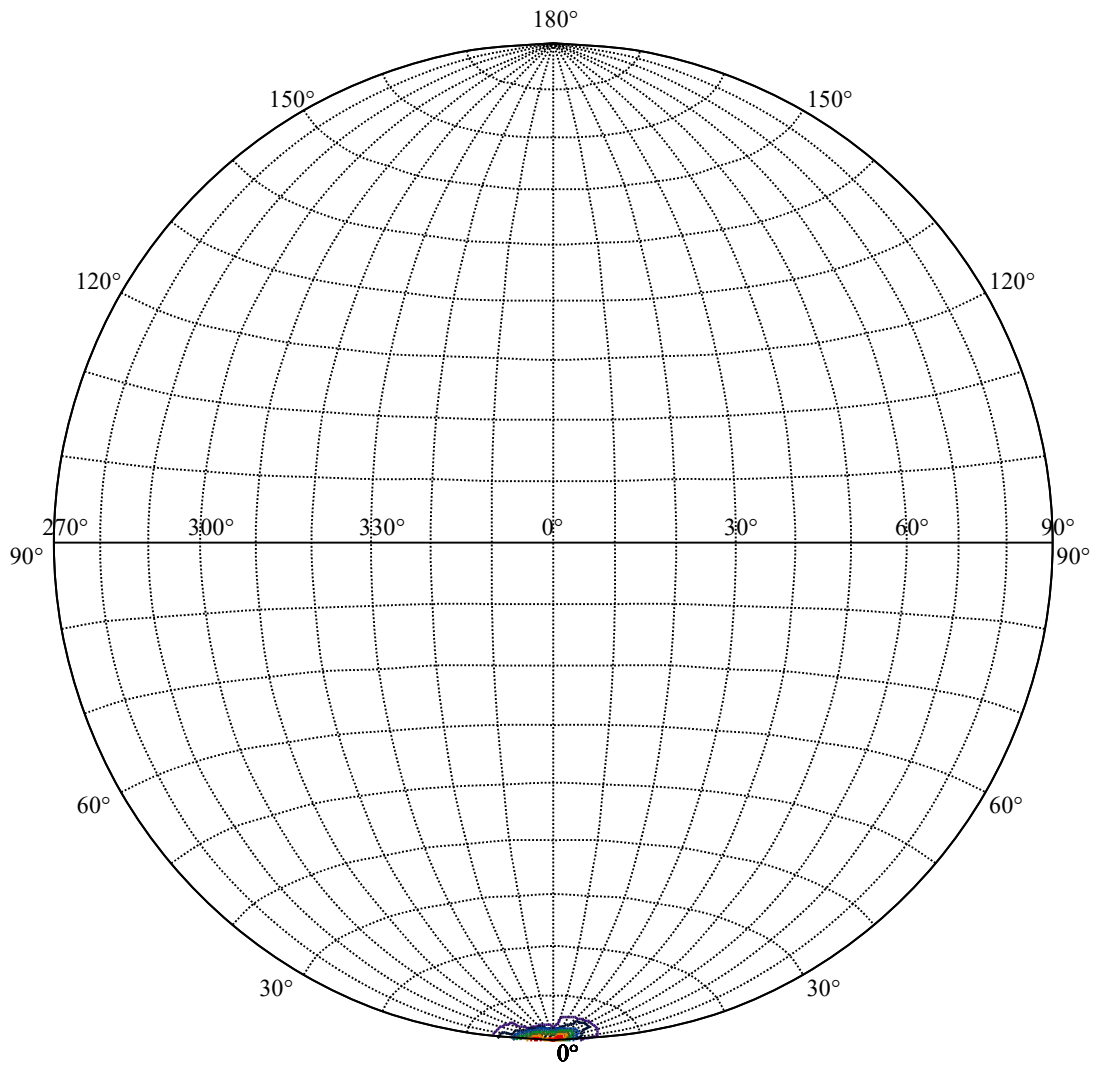
Field angle(10%Imax):C0/180Left:5.8 Right:4.1
:C90/270Left:5.1 Right:5.1

Beam Angle(50%Imax):C0/180Left:2.5 Right:2.9
:C90/270Left:2.4 Right:3.5





(10%Imax) 1471.61	———
(20%Imax) 2943.23	———
(30%Imax) 4414.84	———
(40%Imax) 5886.45	———
(50%Imax) 7358.06	———
(60%Imax) 8829.67	———
(70%Imax) 10301.3	———
(80%Imax) 11772.9	———
(90%Imax) 13244.5	———



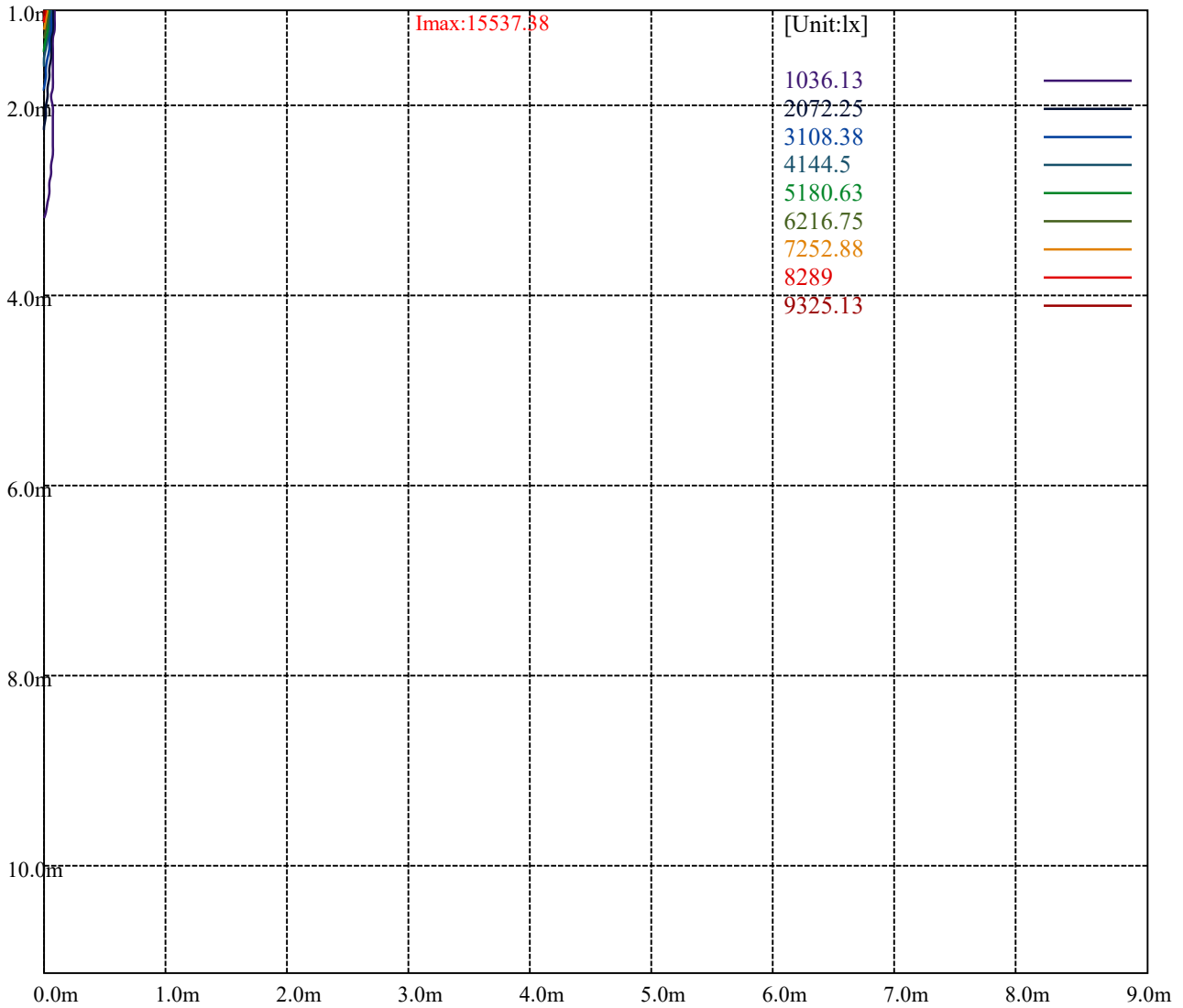
House

[Unit:cd]

Road

Imax:15537.38

(10%Imax) 1553.63	—
(20%Imax) 3107.25	—
(30%Imax) 4660.88	—
(40%Imax) 6214.5	—
(50%Imax) 7768.13	—
(60%Imax) 9321.75	—
(70%Imax) 10875.4	—
(80%Imax) 12429	—
(90%Imax) 13982.6	—



Luminance Table

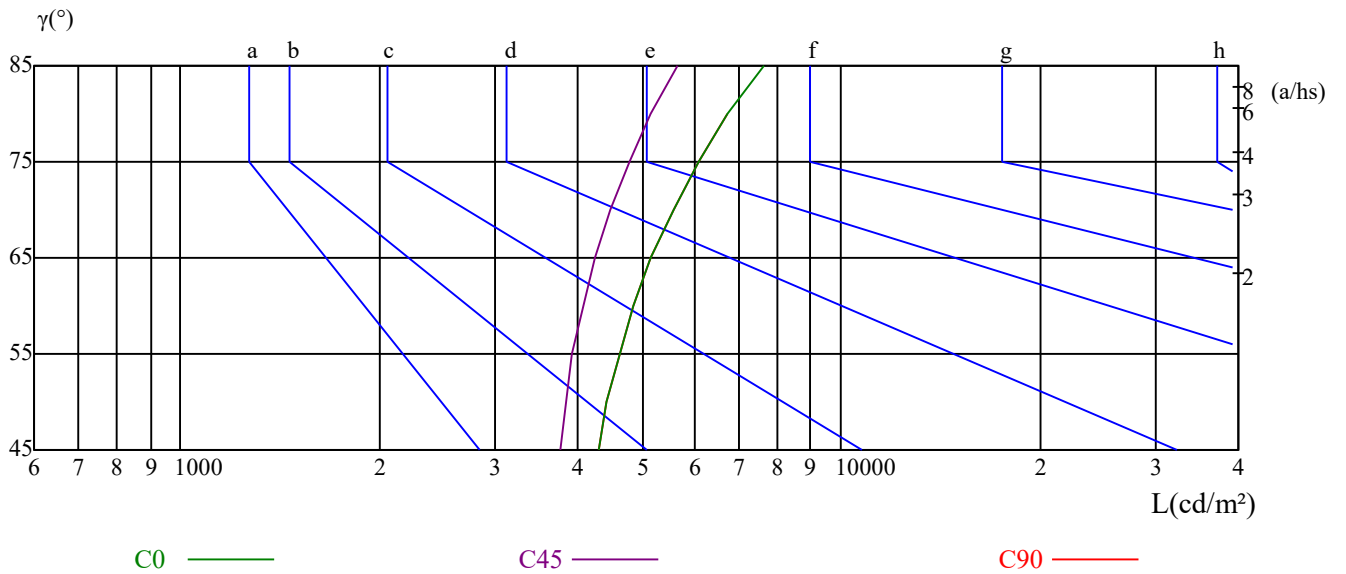
γ	45	50	55	60	65	70	75	80	85
C0	4288	4429	4616	4857	5167	5564	6077	6752	7660
C45	3760	3827	3927	4064	4245	4478	4776	5160	5657
C90	4288	4429	4616	4857	5167	5564	6077	6752	0

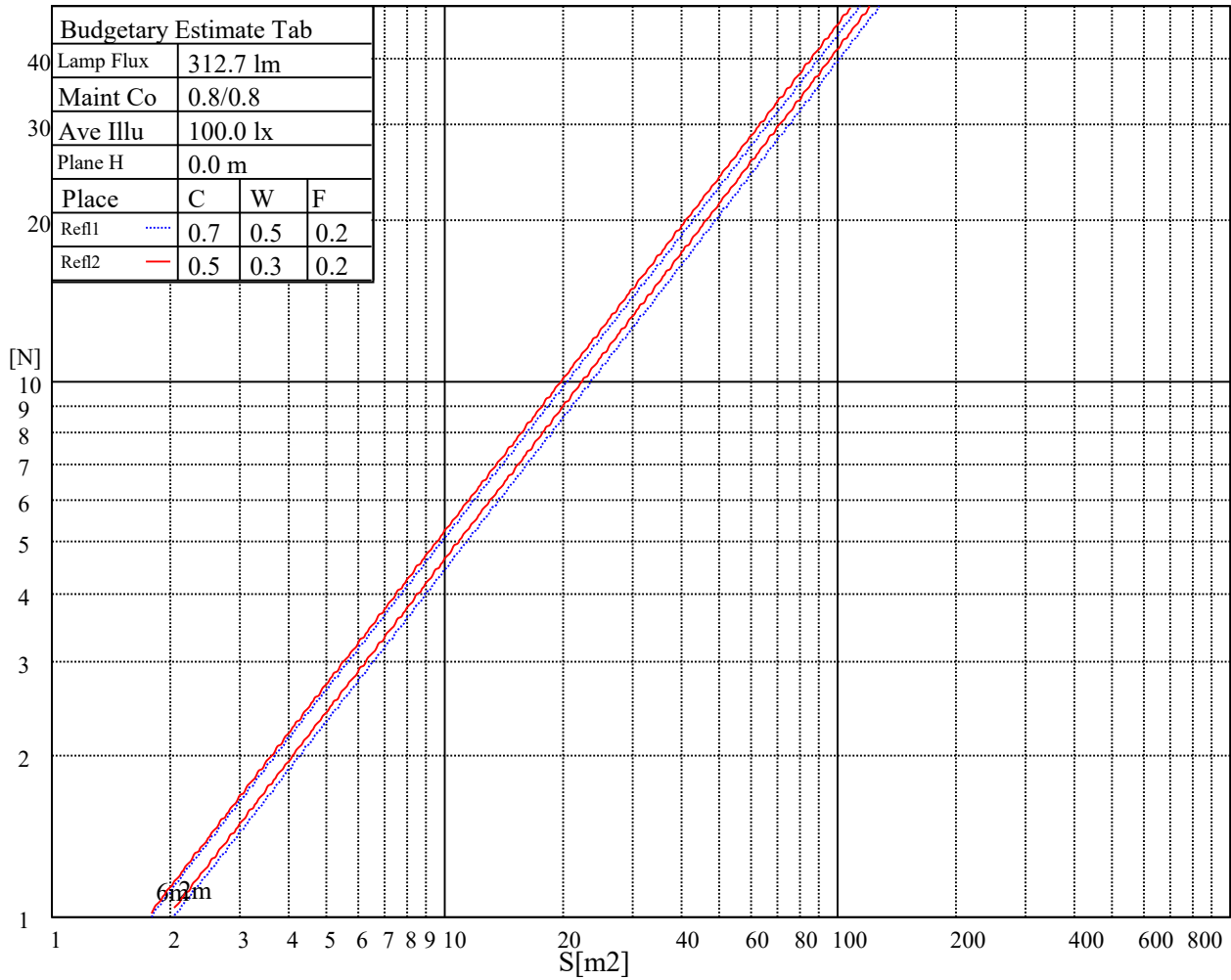
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
16298	10865	13582	26612	17741	22177	52685	26343	26343

Glare Table

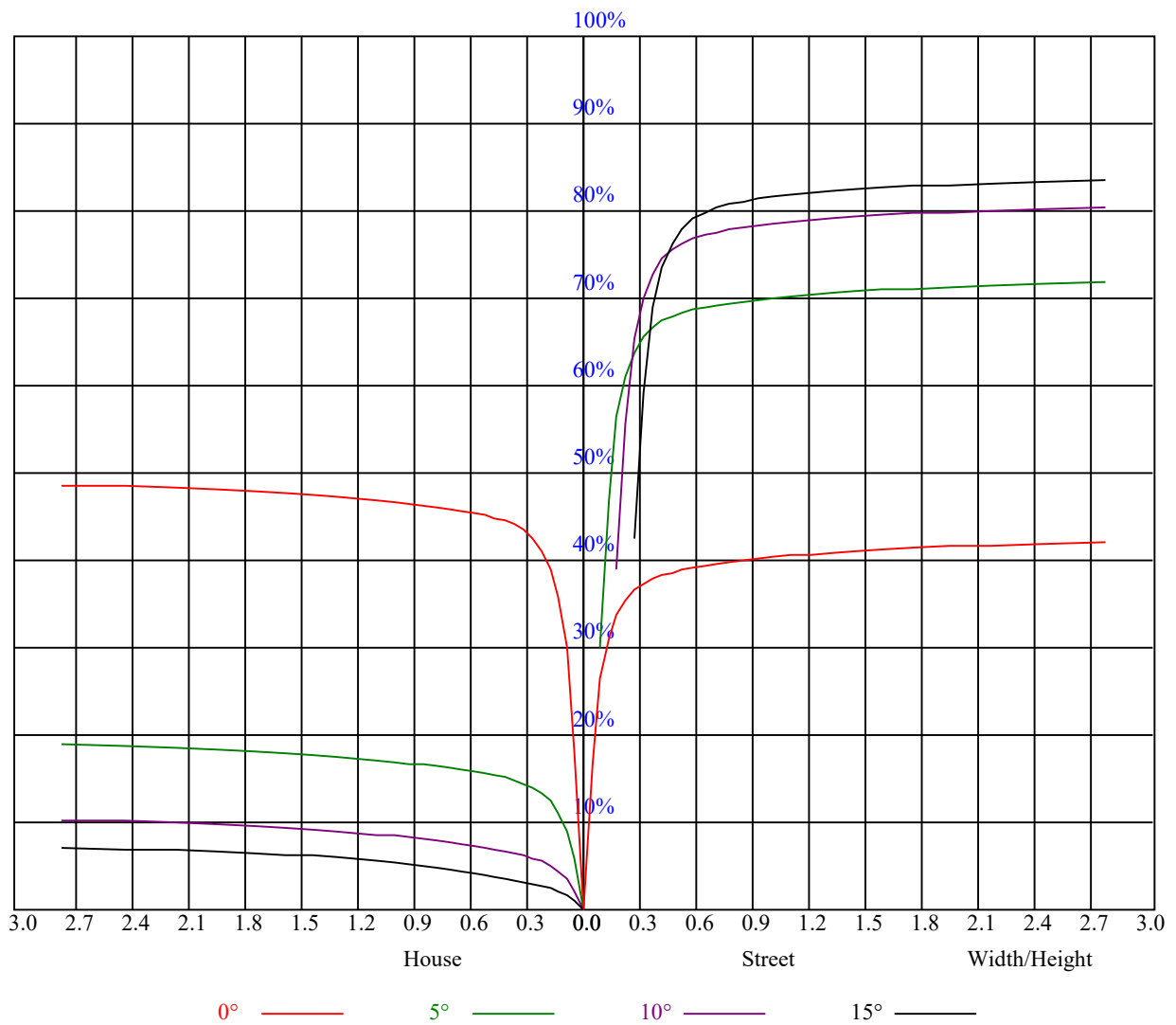
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

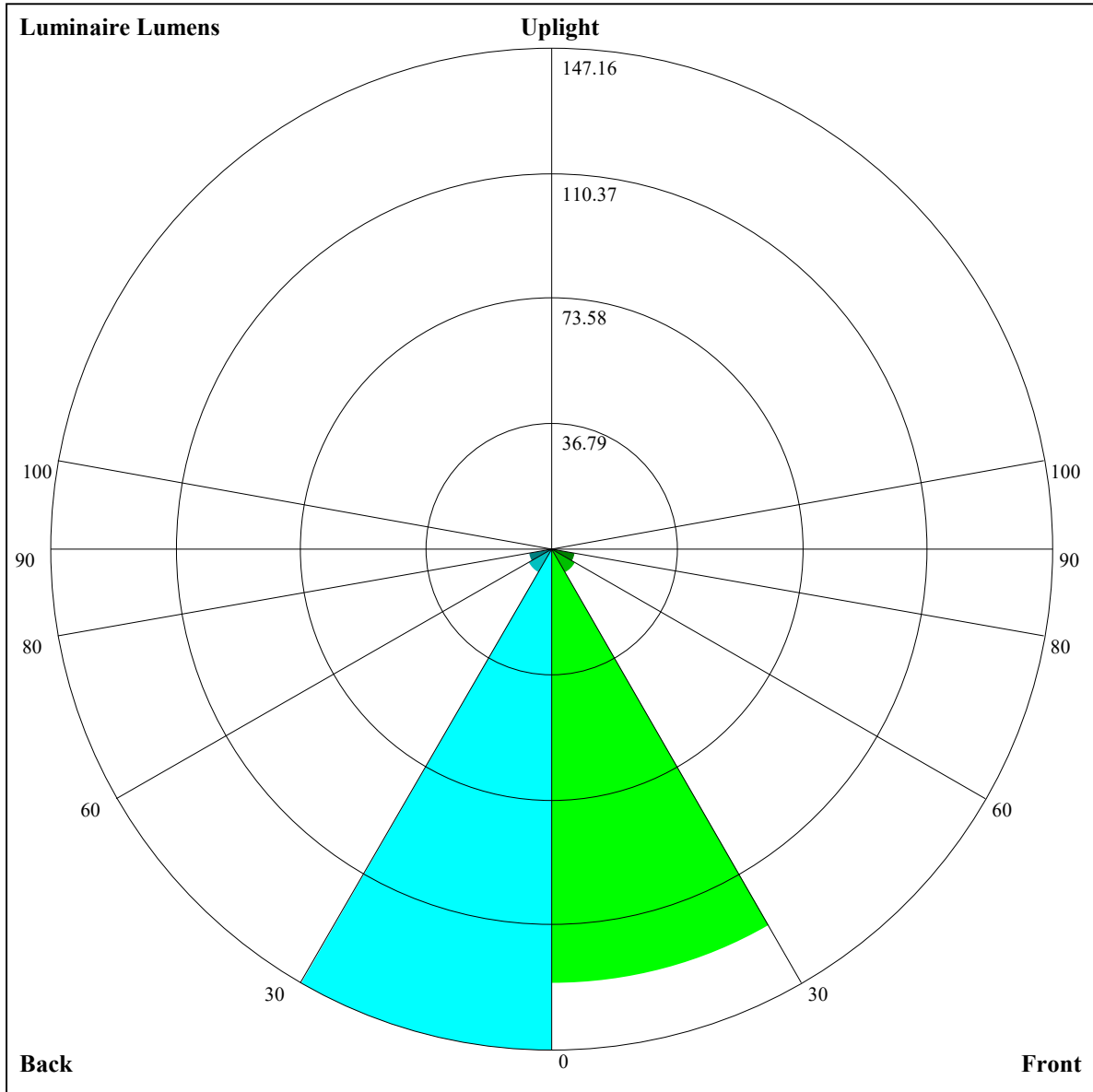
Luminance Limiting Curve





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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.05	1.06	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.03	1.00	0.98	1.02	0.99	0.97	0.99	0.97	0.95	0.96	0.94	0.93	0.93	0.92	0.91	0.89
3	0.99	0.96	0.93	0.98	0.95	0.93	0.96	0.93	0.91	0.94	0.92	0.90	0.92	0.90	0.88	0.87
4	0.96	0.93	0.90	0.95	0.92	0.90	0.94	0.91	0.89	0.92	0.89	0.88	0.90	0.88	0.87	0.86
5	0.94	0.90	0.88	0.93	0.90	0.87	0.92	0.89	0.87	0.90	0.88	0.86	0.89	0.87	0.85	0.84
6	0.92	0.88	0.86	0.91	0.88	0.85	0.90	0.87	0.85	0.89	0.86	0.84	0.88	0.86	0.84	0.83
7	0.90	0.87	0.84	0.90	0.86	0.84	0.89	0.86	0.84	0.88	0.85	0.83	0.87	0.84	0.83	0.82
8	0.89	0.85	0.83	0.88	0.85	0.83	0.87	0.84	0.82	0.86	0.84	0.82	0.86	0.83	0.82	0.81
9	0.87	0.84	0.82	0.87	0.84	0.82	0.86	0.83	0.81	0.85	0.83	0.81	0.85	0.83	0.81	0.80
10	0.86	0.83	0.81	0.86	0.83	0.81	0.85	0.82	0.81	0.85	0.82	0.80	0.84	0.82	0.80	0.79





Luminaire Lumens:

FL=127.41,FM=8.08,FH=6.8,FVH=1.82

BL=147.16,BM=8.3,BH=6.93,BVH=1.71

UL=0,UH=0

BUG Rating:B1-U0-G0

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	10359.51	10359.51	6892.26	1516.44	1043.21	1043.21	779.51	675.11	534.94
45.0	14108.63	13776.75	11712.38	7544.25	3826.13	3826.13	1136.19	874.07	684.51
90.0	8986.44	8986.44	5392.07	1495.63	1110.54	1110.54	786.83	599.63	525.71
135.0	15537.38	15048.00	11425.50	6379.88	4079.25	4079.25	1536.13	930.32	707.01
180.0	10359.51	14716.13	12325.50	9209.25	5553.00	3359.25	3359.25	1074.32	933.13
225.0	14108.63	10181.76	9509.01	5885.94	2247.69	1035.73	1035.73	831.15	675.11
270.0	8986.44	11066.01	14463.00	11178.00	9001.13	3978.00	3978.00	1481.01	869.57
315.0	15537.38	10204.82	10204.82	6112.07	1042.43	1042.43	940.56	699.64	613.35
360.0	10359.51	10359.51	6892.26	1516.44	1043.21	1043.21	779.51	675.11	534.94
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	427.84	347.79	272.48	239.96	191.03	150.53	119.08	92.14	81.68
45.0	547.26	480.88	372.32	299.76	299.76	186.36	143.27	112.33	84.71
90.0	423.90	343.13	274.95	207.96	179.21	139.39	107.61	83.93	63.90
135.0	573.69	465.13	376.26	330.69	330.69	187.09	162.79	120.71	94.05
180.0	720.51	537.69	474.69	385.82	302.57	279.51	279.51	175.78	120.15
225.0	532.35	471.66	386.27	314.16	255.32	193.89	169.14	121.61	105.30
270.0	640.63	563.01	435.88	402.13	291.32	291.32	291.32	149.51	117.06
315.0	453.15	398.87	323.89	244.24	192.71	150.75	113.34	98.72	78.75
360.0	427.84	347.79	272.48	239.96	191.03	150.53	119.08	92.14	81.68
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	63.06	52.03	47.36	41.12	35.55	31.05	26.72	24.92	21.88
45.0	68.40	60.98	47.93	43.54	36.17	31.44	27.73	24.30	22.44
90.0	56.31	46.74	34.99	32.01	27.62	24.30	21.49	18.45	17.10
135.0	73.97	59.91	52.93	42.08	35.83	30.71	26.72	23.18	20.76
180.0	94.84	82.63	64.41	53.72	44.66	37.29	33.92	28.97	25.59
225.0	83.93	64.80	53.27	44.10	35.49	32.06	27.79	24.36	21.15
270.0	100.07	75.77	62.10	51.02	41.57	38.19	30.83	26.61	23.01
315.0	64.52	53.66	43.88	39.94	33.92	26.55	24.53	21.60	18.90
360.0	63.06	52.03	47.36	41.12	35.55	31.05	26.72	24.92	21.88
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	19.41	17.33	15.08	13.56	12.38	11.31	10.91	10.13	9.56
45.0	19.24	16.76	14.79	13.16	11.53	10.58	9.73	9.34	8.72
90.0	15.36	13.78	12.26	10.86	10.24	9.45	8.72	8.10	7.71
135.0	18.51	17.16	15.24	14.01	12.99	12.32	11.93	11.48	11.03
180.0	22.78	20.14	18.73	16.26	13.95	13.16	11.87	10.91	10.18
225.0	17.83	16.31	14.18	11.64	10.80	9.90	9.11	8.38	7.82
270.0	20.25	18.84	16.20	13.28	12.26	10.69	9.68	8.89	8.21
315.0	16.65	14.18	13.11	11.64	10.41	9.51	8.66	8.33	7.76
360.0	19.41	17.33	15.08	13.56	12.38	11.31	10.91	10.13	9.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	9.06	8.49	8.38	7.93	7.65	7.37	7.20	7.09	6.92
45.0	8.16	7.82	7.48	7.31	6.98	6.86	6.69	6.58	6.47
90.0	7.31	6.98	6.69	6.58	6.47	6.24	6.13	5.96	5.96
135.0	10.46	10.01	9.62	8.83	8.21	7.82	7.43	7.03	6.75
180.0	9.62	9.34	8.89	8.55	8.16	7.88	7.76	7.54	7.43
225.0	7.54	7.26	6.92	6.64	6.53	6.36	6.30	6.19	6.08
270.0	7.93	7.14	6.64	6.41	6.24	5.96	5.96	5.74	5.68
315.0	7.37	7.03	6.75	6.64	6.53	6.36	6.30	6.24	6.30
360.0	9.06	8.49	8.38	7.93	7.65	7.37	7.20	7.09	6.92

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	6.86	6.92	6.92	6.98	7.03	7.09	7.14	7.20	7.20
45.0	6.30	6.24	6.30	6.30	6.36	6.41	6.30	6.41	6.30
90.0	5.91	5.85	5.91	5.91	5.85	5.85	5.91	5.96	5.79
135.0	6.64	6.58	6.53	6.53	6.47	6.58	6.58	6.64	6.69
180.0	7.20	7.03	7.03	6.86	6.81	6.81	6.75	6.75	6.64
225.0	6.13	6.19	6.19	6.36	6.36	6.47	6.53	6.53	6.58
270.0	5.68	5.68	5.74	5.74	5.79	5.85	5.91	6.08	6.13
315.0	6.30	6.13	6.13	6.08	6.13	6.19	6.24	6.36	6.36
360.0	6.86	6.92	6.92	6.98	7.03	7.09	7.14	7.20	7.20
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.20	7.26	7.26	7.26	7.20	7.20	7.20	7.14	7.09
45.0	6.36	6.30	6.30	6.36	6.24	6.30	6.30	6.36	6.47
90.0	5.79	5.85	5.74	5.74	5.85	5.68	5.68	5.68	5.74
135.0	6.64	6.69	6.69	6.69	6.64	6.64	6.53	6.47	6.47
180.0	6.64	6.69	6.69	6.69	6.75	6.86	7.09	7.20	7.54
225.0	6.64	6.69	6.69	6.64	6.64	6.58	6.47	6.47	6.47
270.0	6.19	6.24	6.24	6.30	6.36	6.36	6.41	6.36	6.30
315.0	6.47	6.58	6.75	6.98	7.20	7.76	7.82	8.10	8.72
360.0	7.20	7.26	7.26	7.26	7.20	7.20	7.20	7.14	7.09
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.03	6.98	6.86	6.69	6.47	6.24	6.02	5.79	5.63
45.0	6.58	6.58	6.69	6.92	7.09	7.20	7.09	6.98	6.69
90.0	5.74	5.85	5.96	6.02	6.08	6.02	5.79	5.68	5.46
135.0	6.30	6.13	6.08	5.85	5.79	5.63	5.68	5.63	5.51
180.0	7.93	8.83	10.07	11.59	13.56	14.74	18.06	18.62	18.28
225.0	6.41	6.36	6.30	6.19	6.13	5.91	5.57	5.51	5.23
270.0	6.30	6.36	6.30	6.13	6.08	5.85	5.63	5.51	5.29
315.0	8.89	9.79	10.41	11.08	11.98	12.21	12.60	12.88	12.77
360.0	7.03	6.98	6.86	6.69	6.47	6.24	6.02	5.79	5.63
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.46	5.34	5.18	4.84	4.61	4.44	4.39	4.28	4.05
45.0	6.36	6.24	5.85	5.57	5.23	4.89	4.73	4.39	4.22
90.0	4.95	4.84	4.67	4.44	4.22	4.05	3.88	3.77	3.49
135.0	5.40	5.12	4.89	4.73	4.39	4.28	4.05	3.88	3.83
180.0	16.93	15.41	14.40	13.28	12.94	11.59	10.86	9.84	9.00
225.0	5.12	5.01	4.78	4.73	4.44	4.28	4.16	3.99	3.88
270.0	5.23	5.06	4.84	4.78	4.61	4.44	4.28	4.05	3.94
315.0	12.43	12.32	11.81	11.19	10.58	9.90	9.34	9.00	8.27
360.0	5.46	5.34	5.18	4.84	4.61	4.44	4.39	4.28	4.05
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.77	3.66	3.43	3.21	2.93	2.70	2.42	2.31	2.19
45.0	3.94	3.60	3.32	3.09	2.98	2.70	2.48	2.31	2.08
90.0	3.09	2.98	2.76	2.53	2.36	2.25	2.08	1.86	1.69
135.0	3.54	3.43	3.21	2.93	2.76	2.53	2.36	2.14	2.03
180.0	7.99	6.98	6.08	4.89	4.22	3.66	3.09	2.70	2.36
225.0	3.60	3.32	3.21	2.98	2.76	2.53	2.36	2.19	2.03
270.0	3.83	3.49	3.38	3.04	2.81	2.64	2.42	2.19	1.91
315.0	7.93	7.09	6.36	5.91	5.40	4.78	4.22	3.71	3.32
360.0	3.77	3.66	3.43	3.21	2.93	2.70	2.42	2.31	2.19

Intensity data(cd)

C/γ(°)	90.0
0.0	2.08
45.0	1.97
90.0	1.63
135.0	1.91
180.0	2.19
225.0	1.97
270.0	1.74
315.0	3.04
360.0	2.08