



NATA LIGHTING CO.,LTD.
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NT

Client: NT

LumCAT: 61-0174

Luminaire:

Report No: 20260328-B010

Ballast type: AC

Test No: 20260328-C010

Voltage(V): 3.750

LampCAT: LUMINUS SFT-25R

Current(A): 0.705

Lamp flux(lm): 317.7

Power (W): 2.643

Number of Lamps: 1

PF: 0.000

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 18

Photometric Results

Lumens(lm): 307.99, Efficiency(%): 96.96% , Luminous Efficacy(lm/W): 116.53

Central intensity(cd): 6879.319, Maximum intensity(cd): 21691.130

Angle of maximum intensity: C=180.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=3.4

[C90/270]Total=3.4

Field angle(10%Imax): [C0/180]Total=8.6

[C90/270]Total=9.4

Maximum s/h(1/2): C0_180=0.19 C90_270=0.07

Maximum s/h(1/4): C0_180=0.15 C90_270=0.07

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 97.67%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.092%

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	11471.723	0.000	0	0.00%	0.00%
1.0	14501.925	12.428	12.428	3.91%	4.04%
2.0	11603.081	37.468	49.896	11.80%	16.20%
3.0	7190.269	44.948	94.844	14.15%	30.79%
4.0	3520.174	35.851	130.695	11.29%	42.44%
5.0	2239.158	24.776	155.471	7.80%	50.48%
6.0	1478.651	19.538	175.009	6.15%	56.82%
7.0	874.111	14.604	189.613	4.60%	61.56%
8.0	715.620	11.377	200.99	3.58%	65.26%
9.0	588.284	10.567	211.558	3.33%	68.69%
10.0	466.959	9.550	221.107	3.01%	71.79%
11.0	387.267	8.535	229.643	2.69%	74.56%
12.0	308.503	7.606	237.249	2.39%	77.03%
13.0	256.015	6.699	243.948	2.11%	79.21%
14.0	203.196	5.878	249.826	1.85%	81.12%
15.0	160.017	4.986	254.812	1.57%	82.73%
16.0	119.145	4.091	258.903	1.29%	84.06%
17.0	97.664	3.376	262.279	1.06%	85.16%
18.0	78.673	2.907	265.187	0.92%	86.10%
19.0	66.635	2.528	267.715	0.80%	86.92%
20.0	55.758	2.240	269.955	0.71%	87.65%
21.0	46.821	1.970	271.924	0.62%	88.29%
22.0	39.727	1.739	273.664	0.55%	88.86%
23.0	33.321	1.533	275.196	0.48%	89.35%
24.0	29.032	1.363	276.56	0.43%	89.80%
25.0	24.827	1.225	277.784	0.39%	90.19%
26.0	20.890	1.079	278.863	0.34%	90.54%
27.0	18.000	0.951	279.815	0.30%	90.85%
28.0	15.497	0.848	280.663	0.27%	91.13%
29.0	13.500	0.759	281.422	0.24%	91.37%
30.0	11.988	0.688	282.11	0.22%	91.60%
31.0	10.702	0.631	282.741	0.20%	91.80%
32.0	9.816	0.588	283.329	0.19%	91.99%
33.0	8.895	0.551	283.88	0.17%	92.17%
34.0	8.079	0.514	284.394	0.16%	92.34%
35.0	7.622	0.488	284.881	0.15%	92.50%
36.0	7.095	0.469	285.35	0.15%	92.65%
37.0	6.581	0.446	285.796	0.14%	92.79%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	6.202	0.427	286.223	0.13%	92.93%
39.0	5.899	0.413	286.636	0.13%	93.07%
40.0	5.681	0.404	287.04	0.13%	93.20%
41.0	5.421	0.395	287.435	0.12%	93.33%
42.0	5.217	0.387	287.822	0.12%	93.45%
43.0	5.070	0.381	288.203	0.12%	93.58%
44.0	4.964	0.379	288.581	0.12%	93.70%
45.0	4.859	0.377	288.959	0.12%	93.82%
46.0	4.774	0.377	289.335	0.12%	93.94%
47.0	4.711	0.377	289.713	0.12%	94.07%
48.0	4.662	0.379	290.092	0.12%	94.19%
49.0	4.683	0.384	290.475	0.12%	94.31%
50.0	4.676	0.390	290.866	0.12%	94.44%
51.0	4.648	0.394	291.26	0.12%	94.57%
52.0	4.641	0.399	291.659	0.13%	94.70%
53.0	4.627	0.403	292.062	0.13%	94.83%
54.0	4.634	0.408	292.47	0.13%	94.96%
55.0	4.641	0.414	292.884	0.13%	95.10%
56.0	4.591	0.417	293.301	0.13%	95.23%
57.0	4.605	0.421	293.722	0.13%	95.37%
58.0	4.613	0.426	294.148	0.13%	95.51%
59.0	4.556	0.429	294.576	0.13%	95.65%
60.0	4.570	0.431	295.008	0.14%	95.79%
61.0	4.570	0.436	295.444	0.14%	95.93%
62.0	4.577	0.441	295.885	0.14%	96.07%
63.0	4.634	0.448	296.333	0.14%	96.22%
64.0	4.676	0.457	296.789	0.14%	96.36%
65.0	4.760	0.467	297.256	0.15%	96.52%
66.0	4.880	0.481	297.737	0.15%	96.67%
67.0	4.943	0.494	298.231	0.16%	96.83%
68.0	5.140	0.511	298.742	0.16%	97.00%
69.0	5.161	0.525	299.267	0.17%	97.17%
70.0	5.259	0.535	299.803	0.17%	97.34%
71.0	5.238	0.543	300.345	0.17%	97.52%
72.0	5.154	0.540	300.886	0.17%	97.69%
73.0	5.133	0.538	301.424	0.17%	97.87%
74.0	5.084	0.537	301.961	0.17%	98.04%
75.0	4.915	0.528	302.489	0.17%	98.21%

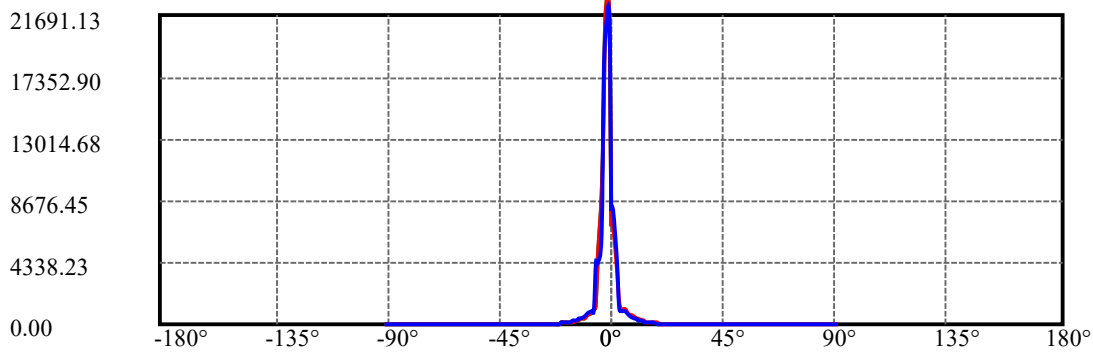
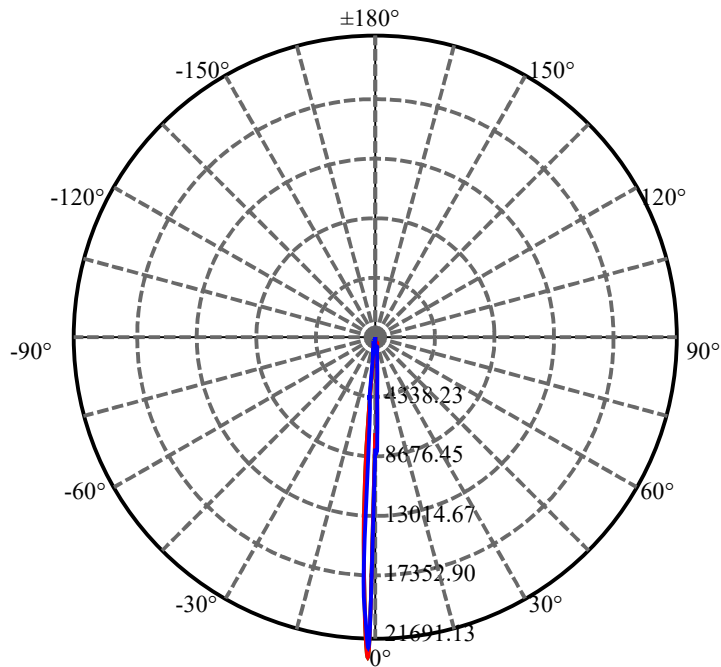
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.788	0.515	303.004	0.16%	98.38%
77.0	4.613	0.501	303.505	0.16%	98.54%
78.0	4.388	0.482	303.987	0.15%	98.70%
79.0	4.127	0.458	304.444	0.14%	98.85%
80.0	3.881	0.432	304.876	0.14%	98.99%
81.0	3.677	0.409	305.285	0.13%	99.12%
82.0	3.445	0.386	305.671	0.12%	99.25%
83.0	3.255	0.364	306.035	0.11%	99.37%
84.0	3.030	0.342	306.378	0.11%	99.48%
85.0	2.827	0.320	306.698	0.10%	99.58%
86.0	2.644	0.299	306.997	0.09%	99.68%
87.0	2.419	0.277	307.274	0.09%	99.77%
88.0	2.250	0.256	307.529	0.08%	99.85%
89.0	2.081	0.237	307.767	0.07%	99.93%
90.0	1.969	0.222	307.989	0.07%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	282.11	88.81%	91.60%
0-40	287.04	90.36%	93.20%
0-60	295.01	92.87%	95.79%
0-90	307.77	96.89%	99.93%
0-120	307.77	96.89%	99.93%
0-180	307.99	96.96%	100.00%
60-90	12.76	4.02%	4.14%
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%
0-13.42	246.39	77.57%	80.00%

ZONAL LUMEN SUMMARY

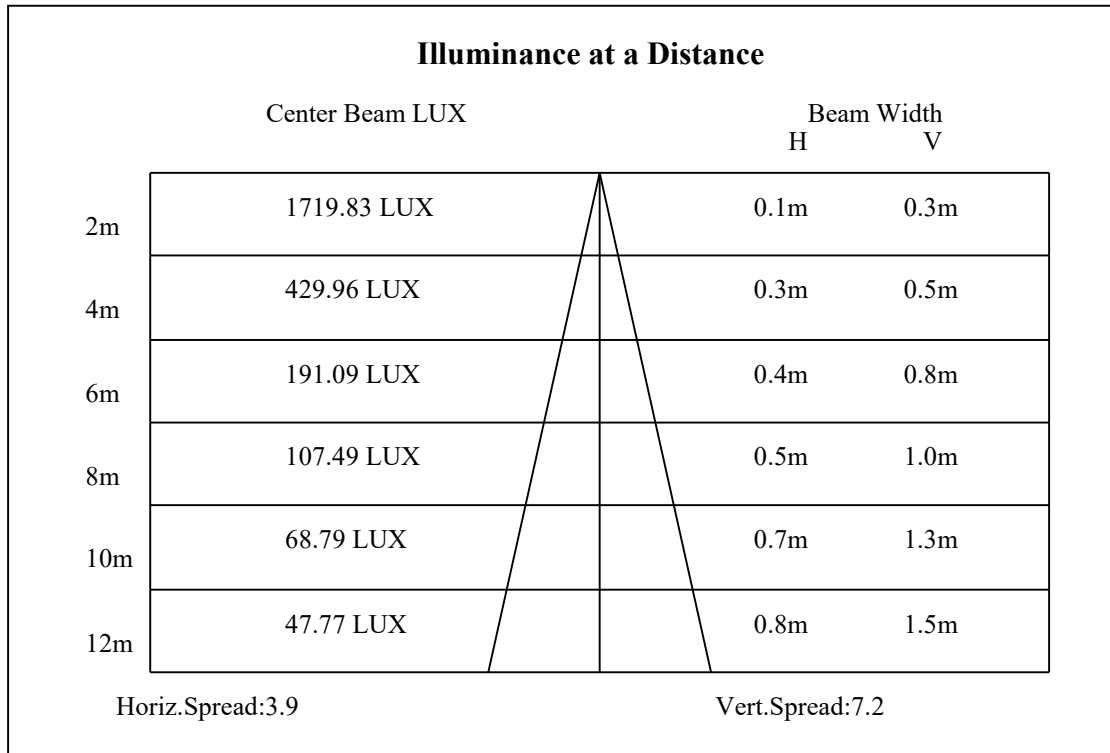
0-10	221.11
10-20	48.85
20-30	12.16
30-40	4.93
40-50	3.83
50-60	4.14
60-70	4.80
70-80	5.07
80-90	2.89
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

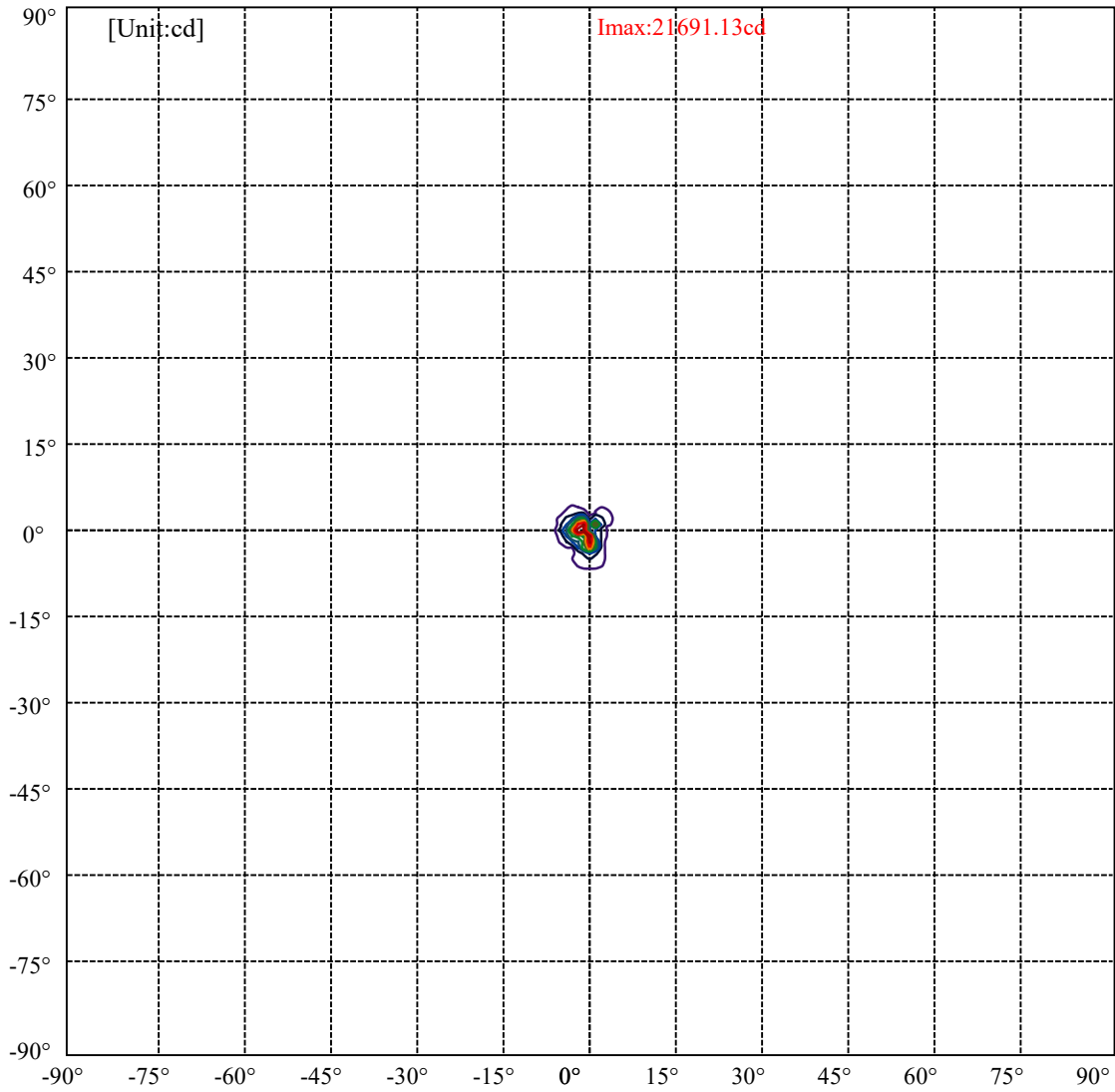


C180(Max): ———
C0/C180: ———
C90/C270: ———

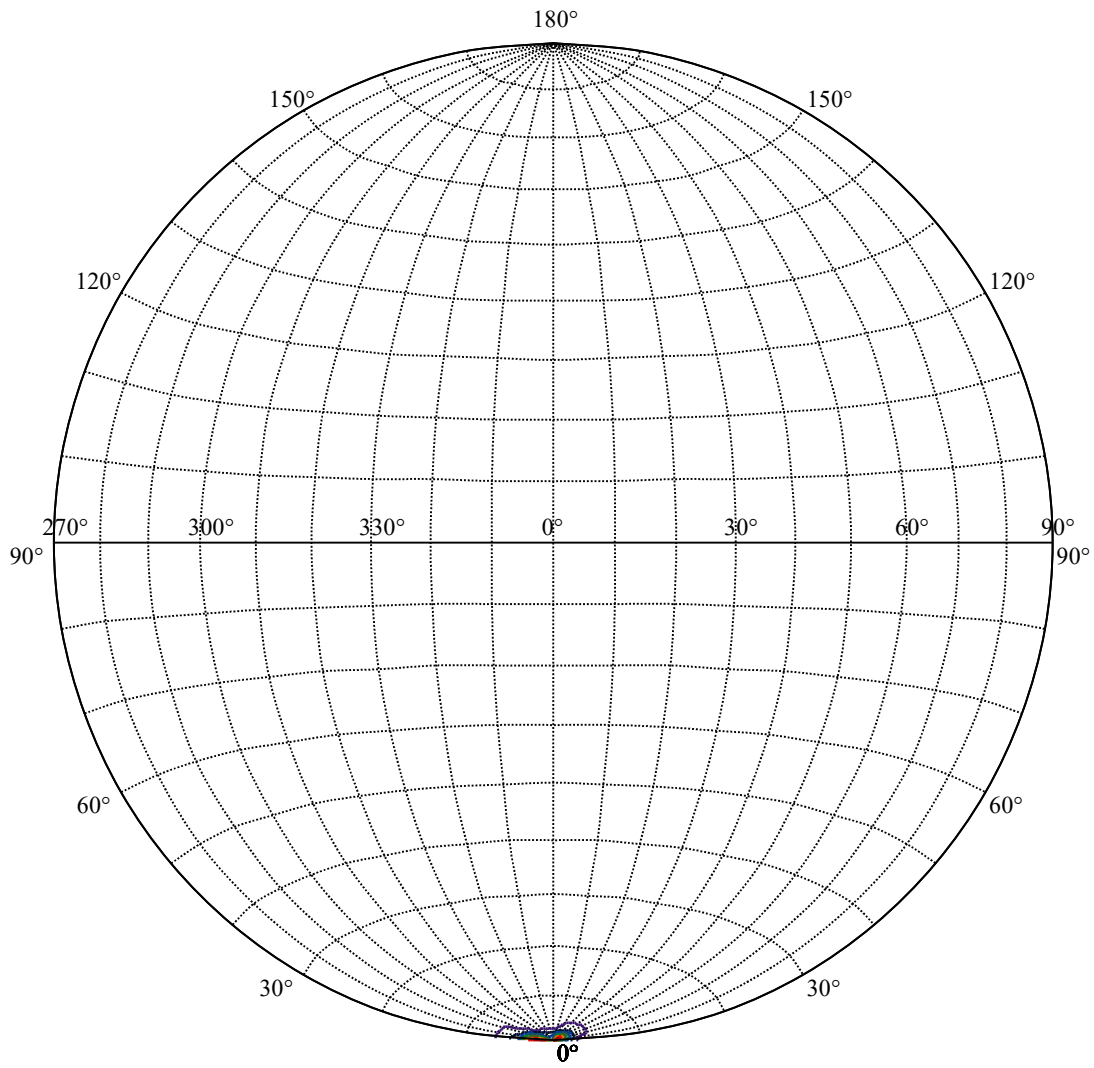
Field angle(10%Imax):C0/180Left:4.8 Right:3.8
:C90/270Left:5.7 Right:3.7

Beam Angle(50%Imax):C0/180Left:2.7 Right:0.7
:C90/270Left:2.6 Right:0.8





(10%Imax) 2169.11	—
(20%Imax) 4338.23	—
(30%Imax) 6507.34	—
(40%Imax) 8676.45	—
(50%Imax) 10845.6	—
(60%Imax) 13014.7	—
(70%Imax) 15183.8	—
(80%Imax) 17352.9	—
(90%Imax) 19522	—



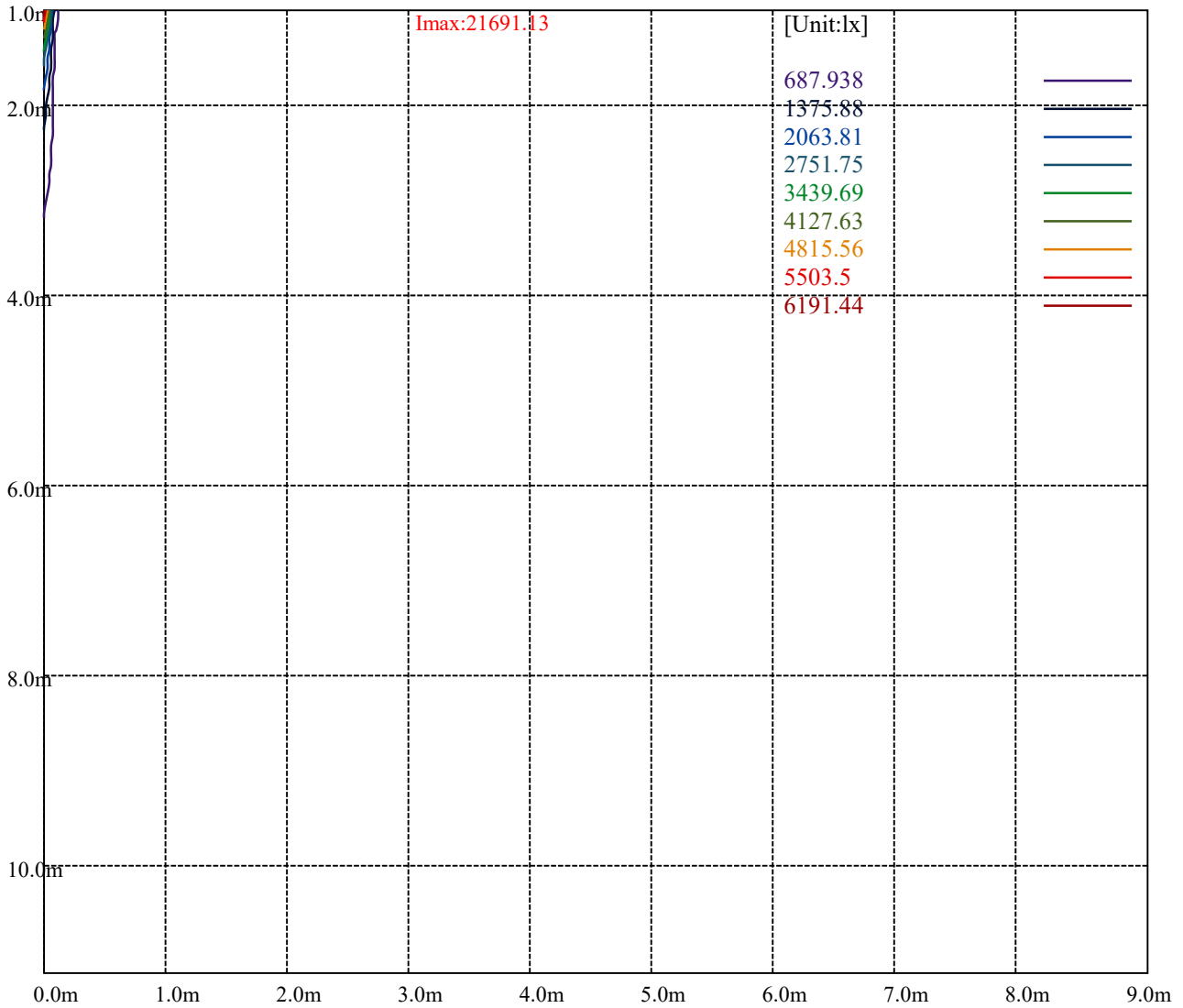
House

[Unit:cd]

Road

Imax:21691.13

(10%Imax) 2169	—
(20%Imax) 4338	—
(30%Imax) 6507	—
(40%Imax) 8676	—
(50%Imax) 10845	—
(60%Imax) 13014	—
(70%Imax) 15183	—
(80%Imax) 17352	—
(90%Imax) 19521	—



Luminance Table

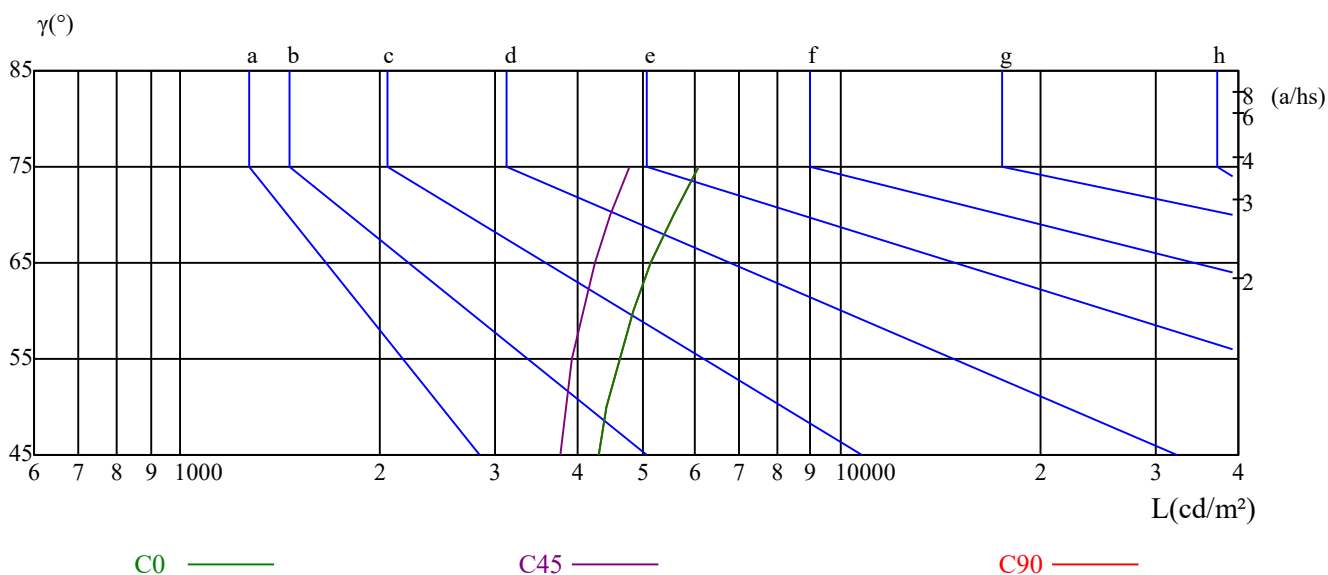
γ	45	50	55	60	65	70	75	80	85
C0	4288	4429	4616	4857	5167	5564	6077	0	0
C45	3760	3827	3927	4064	4245	4478	4776	0	0
C90	4288	4429	4616	4857	5167	5564	6077	0	0

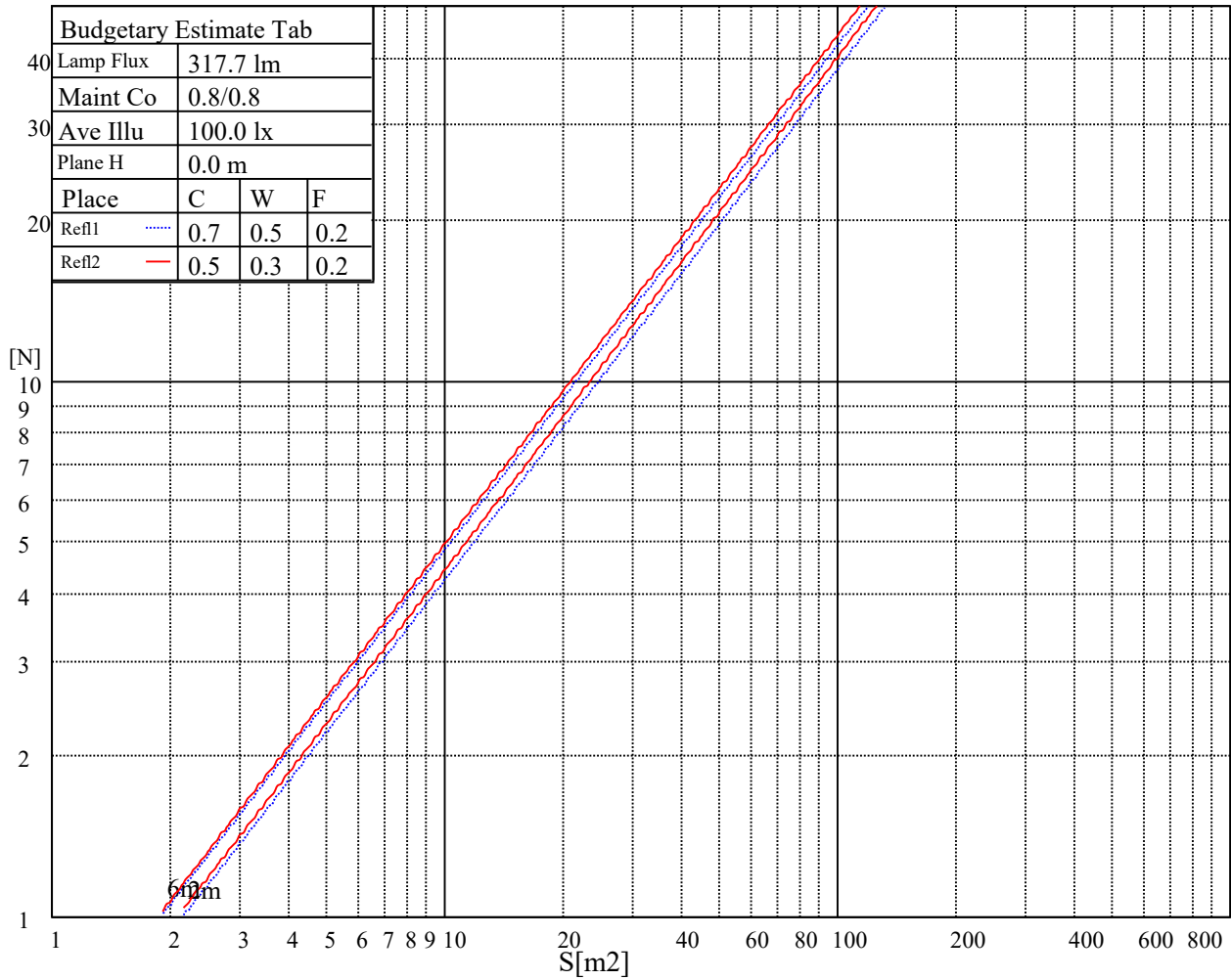
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10865	10865	10865	26612	17741	22177	26343	0	13171

Glare Table

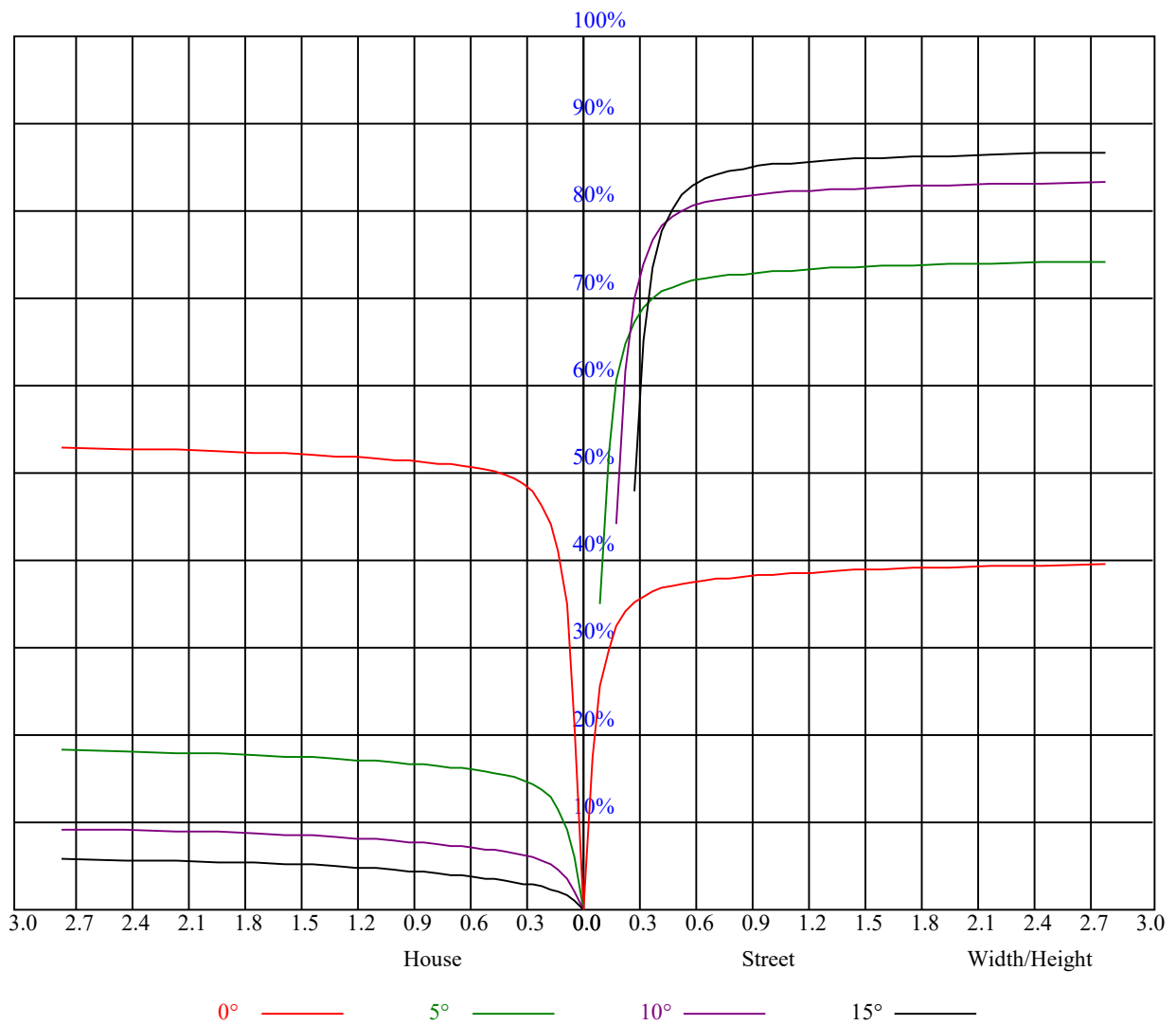
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

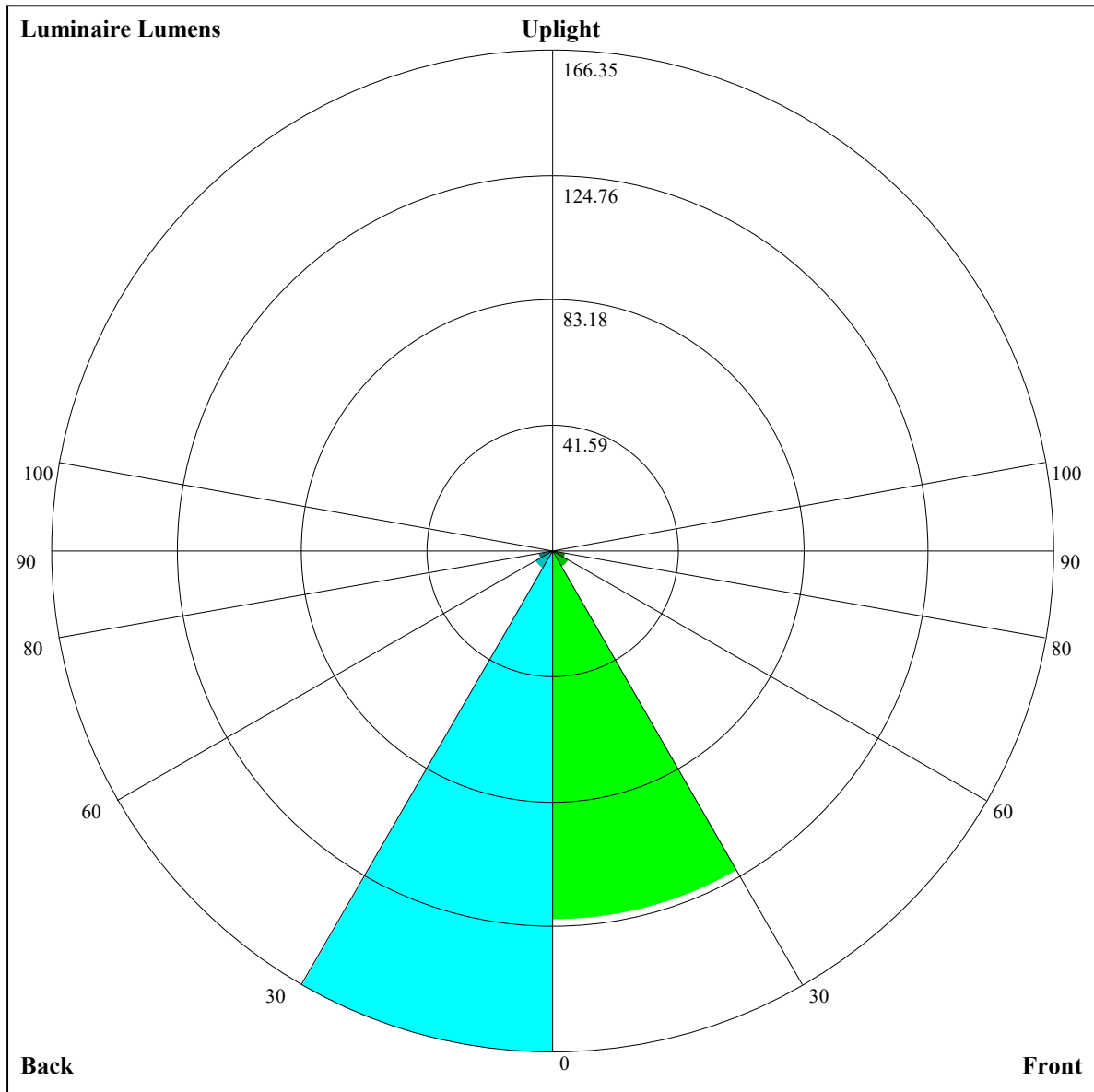
Luminance Limiting Curve





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	1.16	1.16	1.16	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94
2	1.05	1.02	1.00	1.03	1.01	0.99	1.00	0.98	0.97	0.98	0.96	0.95	0.95	0.94	0.93	0.91
3	1.02	0.98	0.96	1.00	0.97	0.95	0.98	0.95	0.93	0.96	0.94	0.92	0.94	0.92	0.91	0.89
4	0.99	0.95	0.92	0.98	0.94	0.92	0.96	0.93	0.91	0.94	0.92	0.90	0.92	0.91	0.89	0.88
5	0.96	0.93	0.90	0.96	0.92	0.90	0.94	0.91	0.89	0.93	0.90	0.88	0.91	0.89	0.88	0.87
6	0.94	0.91	0.88	0.94	0.90	0.88	0.92	0.90	0.88	0.91	0.89	0.87	0.90	0.88	0.87	0.86
7	0.93	0.89	0.87	0.92	0.89	0.87	0.91	0.88	0.86	0.90	0.88	0.86	0.89	0.87	0.86	0.85
8	0.91	0.88	0.86	0.91	0.88	0.86	0.90	0.87	0.85	0.89	0.87	0.85	0.88	0.86	0.85	0.84
9	0.90	0.87	0.85	0.90	0.87	0.84	0.89	0.86	0.84	0.88	0.86	0.84	0.88	0.85	0.84	0.83
10	0.89	0.86	0.84	0.88	0.86	0.84	0.88	0.85	0.83	0.87	0.85	0.83	0.87	0.85	0.83	0.82





Luminaire Lumens:

FL=122.59,FM=6.26,FH=4.66,FVH=1.51

BL=166.35,BM=6.57,BH=4.73,BVH=1.45

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	6879.32	6879.32	3825.51	1804.44	1076.91	1076.91	900.34	720.45	641.76
45.0	21668.63	20329.88	10480.50	3702.38	3702.38	1664.94	1145.76	833.57	679.44
90.0	7990.26	7990.26	4382.38	1382.57	989.10	989.10	793.97	639.45	491.34
135.0	9348.69	21207.38	17590.50	8736.75	2954.25	2954.25	1086.69	857.19	748.63
180.0	6879.32	21691.13	21634.88	14648.63	9113.63	4737.38	1521.51	1061.38	808.82
225.0	21668.63	9888.13	8147.19	8147.19	2582.94	1088.83	1088.83	873.68	701.61
270.0	7990.26	21606.75	20341.13	16808.63	6385.50	4321.13	4321.13	1139.01	934.82
315.0	9348.69	6422.57	6422.57	2291.57	1356.69	1080.73	970.99	868.16	718.54
360.0	6879.32	6879.32	3825.51	1804.44	1076.91	1076.91	900.34	720.45	641.76
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	532.91	442.24	359.78	273.04	212.46	166.73	129.49	114.41	93.88
45.0	598.44	466.82	377.94	302.57	302.57	186.86	147.09	116.66	102.15
90.0	430.37	343.91	274.05	217.52	163.35	130.05	105.13	84.32	74.87
135.0	573.13	421.26	367.26	289.63	289.63	177.75	141.75	124.03	88.65
180.0	649.07	518.57	412.82	359.94	283.44	283.44	172.13	130.56	105.47
225.0	564.36	434.36	378.62	270.90	201.49	173.19	136.63	110.76	91.29
270.0	765.51	626.01	554.01	428.01	339.13	308.76	294.13	157.16	124.20
315.0	592.48	482.51	373.67	326.42	256.05	198.79	153.79	115.26	100.80
360.0	532.91	442.24	359.78	273.04	212.46	166.73	129.49	114.41	93.88
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	77.01	63.06	49.78	43.93	33.47	27.23	25.48	21.04	17.78
45.0	79.99	65.53	54.06	46.13	41.01	33.30	28.69	24.81	20.81
90.0	63.06	51.86	43.82	36.17	32.46	28.58	24.58	20.64	16.59
135.0	73.69	65.98	53.83	46.01	39.43	33.81	30.54	25.65	22.39
180.0	87.13	73.97	67.67	55.24	47.36	40.61	33.13	28.46	24.41
225.0	73.13	65.08	55.01	46.86	40.50	33.92	30.66	26.44	20.53
270.0	100.35	88.99	70.14	57.26	47.98	39.09	33.81	28.13	24.58
315.0	75.04	58.61	51.75	42.98	35.61	30.04	25.37	23.46	20.03
360.0	77.01	63.06	49.78	43.93	33.47	27.23	25.48	21.04	17.78
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	15.58	13.61	12.66	11.36	10.35	9.51	8.61	8.21	7.59
45.0	16.99	14.57	12.77	11.76	10.24	9.23	8.44	7.82	7.48
90.0	14.29	12.49	10.91	10.13	9.39	8.72	7.99	7.37	7.03
135.0	19.07	16.59	15.47	13.84	12.66	11.87	10.07	9.17	8.72
180.0	21.15	19.13	15.58	13.61	12.09	10.91	10.35	9.17	8.66
225.0	18.23	15.19	13.11	11.48	9.96	9.39	8.55	7.76	7.20
270.0	22.22	18.17	15.30	12.99	11.31	10.46	9.17	7.76	7.43
315.0	16.48	14.23	12.21	10.74	9.62	8.44	7.99	7.37	6.86
360.0	15.58	13.61	12.66	11.36	10.35	9.51	8.61	8.21	7.59
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	7.09	6.53	6.08	5.85	5.63	5.29	5.23	5.01	4.95
45.0	6.92	6.53	6.13	5.85	5.57	5.34	5.23	5.06	4.89
90.0	6.75	6.19	5.91	5.63	5.40	5.01	4.73	4.67	4.56
135.0	7.88	7.43	6.81	6.41	6.08	5.85	5.68	5.40	5.18
180.0	7.99	7.37	7.09	6.86	6.53	6.47	6.02	5.91	5.85
225.0	6.69	6.19	5.79	5.51	5.40	5.18	5.01	4.84	4.78
270.0	6.86	6.36	5.91	5.51	5.40	5.01	4.89	4.73	4.61
315.0	6.58	6.08	5.91	5.57	5.46	5.23	4.95	4.95	4.89
360.0	7.09	6.53	6.08	5.85	5.63	5.29	5.23	5.01	4.95

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	4.89	4.78	4.84	4.84	4.84	4.84	4.84	4.84	4.89
45.0	4.73	4.61	4.61	4.56	4.50	4.50	4.44	4.44	4.39
90.0	4.39	4.33	4.22	4.16	4.33	4.50	4.39	4.28	4.16
135.0	5.01	4.89	4.84	4.84	4.89	4.84	4.78	4.73	4.67
180.0	5.74	5.68	5.51	5.34	5.29	5.12	5.18	5.12	5.01
225.0	4.73	4.67	4.61	4.56	4.67	4.67	4.67	4.78	4.78
270.0	4.61	4.44	4.39	4.39	4.44	4.50	4.50	4.50	4.56
315.0	4.78	4.78	4.67	4.61	4.50	4.44	4.39	4.44	4.56
360.0	4.89	4.78	4.84	4.84	4.84	4.84	4.84	4.84	4.89
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.84	4.84	4.84	4.78	4.78	4.61	4.61	4.50	4.44
45.0	4.39	4.33	4.33	4.22	4.16	4.16	4.16	4.16	4.05
90.0	4.22	4.22	4.05	4.05	3.99	3.94	3.94	3.88	3.83
135.0	4.61	4.61	4.56	4.50	4.50	4.39	4.28	4.22	4.16
180.0	4.95	4.84	4.89	4.89	4.84	4.89	4.95	5.12	5.29
225.0	4.84	4.84	4.78	4.78	4.78	4.73	4.73	4.61	4.61
270.0	4.67	4.78	4.67	4.84	4.95	4.84	4.84	4.84	4.78
315.0	4.56	4.67	4.61	4.78	4.89	4.89	5.06	5.23	5.46
360.0	4.84	4.84	4.84	4.78	4.78	4.61	4.61	4.50	4.44
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.44	4.39	4.28	4.16	4.05	3.94	3.88	3.77	3.60
45.0	4.05	3.99	3.99	4.05	4.11	4.22	4.16	4.28	4.16
90.0	3.94	3.71	3.83	3.83	3.71	3.71	3.54	3.49	3.43
135.0	4.16	3.99	3.94	3.94	3.83	3.77	3.60	3.54	3.43
180.0	5.57	6.08	6.64	7.37	7.93	8.94	9.73	10.24	10.52
225.0	4.50	4.50	4.28	4.22	4.16	4.05	3.83	3.71	3.60
270.0	4.56	4.73	4.61	4.61	4.39	4.16	4.05	3.99	3.99
315.0	5.85	6.02	6.53	6.86	7.37	8.33	8.49	9.06	9.17
360.0	4.44	4.39	4.28	4.16	4.05	3.94	3.88	3.77	3.60
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.49	3.43	3.38	3.15	3.04	2.98	2.87	2.70	2.64
45.0	4.11	4.05	3.94	3.77	3.54	3.38	3.15	2.87	2.70
90.0	3.38	3.09	3.04	2.93	2.81	2.81	2.87	2.64	2.53
135.0	3.32	3.32	3.21	3.09	3.09	2.98	2.87	2.76	2.64
180.0	10.35	10.69	10.80	10.63	10.52	9.73	9.00	8.21	7.43
225.0	3.54	3.43	3.32	3.15	3.09	2.98	2.76	2.70	2.53
270.0	3.88	3.71	3.71	3.49	3.38	3.32	3.21	3.15	2.98
315.0	9.17	9.34	9.28	9.11	8.83	8.72	8.38	7.99	7.59
360.0	3.49	3.43	3.38	3.15	3.04	2.98	2.87	2.70	2.64
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.59	2.42	2.36	2.19	2.25	2.14	2.03	1.97	1.86
45.0	2.53	2.42	2.19	2.19	2.08	1.97	1.86	1.80	1.69
90.0	2.42	2.19	2.25	2.14	2.03	1.97	1.80	1.69	1.41
135.0	2.59	2.48	2.36	2.36	2.19	2.19	2.14	2.08	2.03
180.0	6.81	6.13	5.79	4.95	4.33	4.05	3.38	3.04	2.70
225.0	2.53	2.48	2.31	2.19	2.14	1.97	1.91	1.80	1.74
270.0	2.87	2.70	2.53	2.42	2.31	2.19	2.08	1.86	1.86
315.0	7.09	6.75	6.24	5.79	5.29	4.67	4.16	3.77	3.38
360.0	2.59	2.42	2.36	2.19	2.25	2.14	2.03	1.97	1.86

Intensity data(cd)

C/γ(°)	90.0
0.0	1.74
45.0	1.63
90.0	1.35
135.0	1.97
180.0	2.36
225.0	1.74
270.0	1.80
315.0	3.15
360.0	1.74