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AFX

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Client:

LumCAT: AUGW0808LAJMVBP

Luminaire: LED灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.030

LampCAT:

Current(A): 0.080

Lamp flux(lm): 808.3

Power (W): 9.410

Number of Lamps: 1

PF: 0.979

Length(mm): 180

Width(mm): 55

Phm Type: C

Height(mm): 180

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Photometric Results

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Lumens(lm): 808.26, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 85.89

Central intensity(cd): 40.419, Maximum intensity(cd): 177.844

Angle of maximum intensity: C=90.0  $\gamma$ =85.0

Beam Angle(50%Imax): [C0/180]Total=322.4

[C90/270]Total=185.1

Field angle(10%Imax): [C0/180]Total=357.8

[C90/270]Total=222.9

Maximum s/h(1/2): C0\_180=1.77 C90\_270=3.45

Maximum s/h(1/4): C0\_180=1.92 C90\_270=3.36

Up flux rate of lamp(%): 49.38%

Down flux rate of lamp(%): 50.62%

Up flux rate of LUM(%): 49.38%

Down flux rate of LUM(%): 50.62%

CIE Type : General diffuse lighting

Output flux ratio in  $\pi$  solid angle : 22.644%

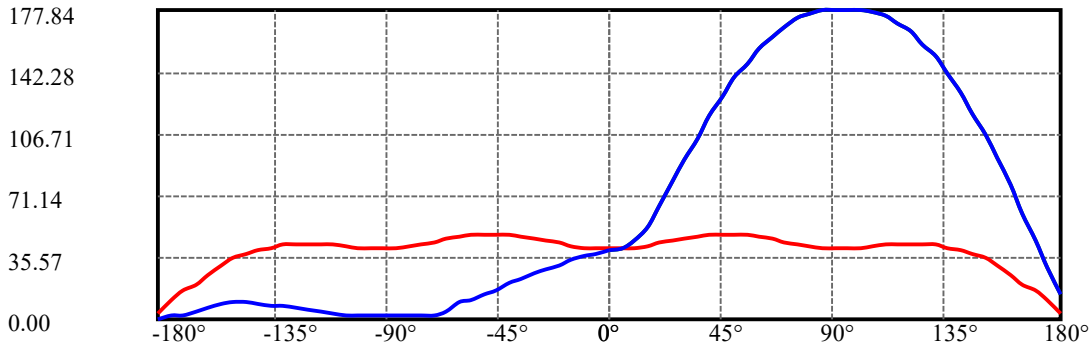
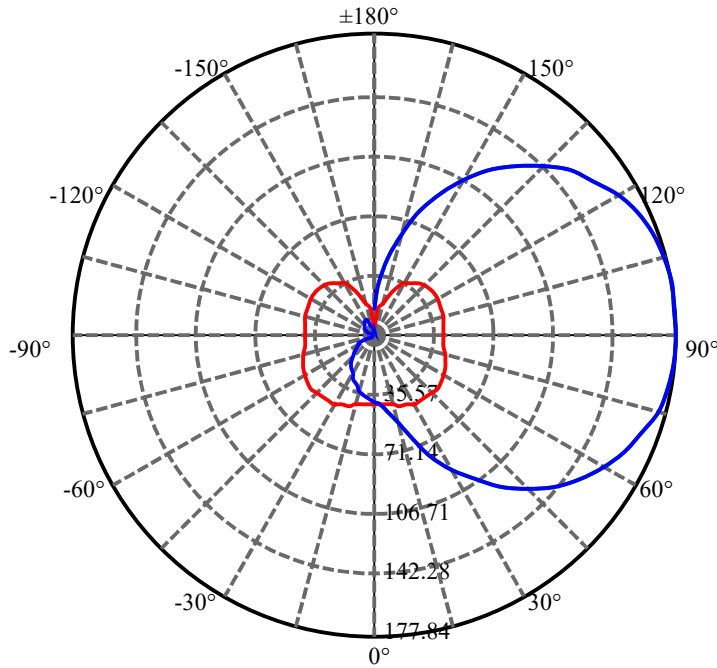
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	39.820	0.000	0	0.00%	0.00%
5.0	39.895	0.953	0.953	0.12%	0.12%
10.0	40.756	2.885	3.838	0.36%	0.47%
15.0	42.403	4.933	8.771	0.61%	1.09%
20.0	45.584	7.251	16.022	0.90%	1.98%
25.0	49.064	9.927	25.949	1.23%	3.21%
30.0	52.694	12.878	38.827	1.59%	4.80%
35.0	56.325	16.054	54.881	1.99%	6.79%
40.0	59.768	19.369	74.25	2.40%	9.19%
45.0	62.537	22.646	96.896	2.80%	11.99%
50.0	65.232	25.818	122.713	3.19%	15.18%
55.0	67.253	28.807	151.52	3.56%	18.75%
60.0	69.049	31.506	183.026	3.90%	22.64%
65.0	70.209	33.854	216.88	4.19%	26.83%
70.0	70.958	35.744	252.624	4.42%	31.26%
75.0	72.043	37.378	290.002	4.62%	35.88%
80.0	73.091	38.834	328.836	4.80%	40.68%
85.0	73.690	39.884	368.72	4.93%	45.62%
90.0	73.840	40.395	409.115	5.00%	50.62%
95.0	74.027	40.487	449.602	5.01%	55.63%
100.0	73.877	40.189	489.791	4.97%	60.60%
105.0	73.765	39.505	529.295	4.89%	65.49%
110.0	73.016	38.366	567.662	4.75%	70.23%
115.0	71.931	36.702	604.363	4.54%	74.77%
120.0	70.135	34.536	638.9	4.27%	79.05%
125.0	67.552	31.826	670.726	3.94%	82.98%
130.0	64.633	28.741	699.467	3.56%	86.54%
135.0	61.040	25.394	724.861	3.14%	89.68%
140.0	56.961	21.849	746.71	2.70%	92.38%
145.0	52.470	18.258	764.968	2.26%	94.64%
150.0	47.156	14.671	779.638	1.82%	96.46%
155.0	41.392	11.206	790.844	1.39%	97.85%
160.0	34.543	7.964	798.808	0.99%	98.83%
165.0	27.620	5.123	803.931	0.63%	99.46%
170.0	20.846	2.875	806.806	0.36%	99.82%
175.0	13.510	1.229	808.035	0.15%	99.97%
180.0	5.389	0.226	808.261	0.03%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	38.83	4.80%	4.80%
0-40	74.25	9.19%	9.19%
0-60	183.03	22.64%	22.64%
0-90	409.11	50.62%	50.62%
0-120	638.90	79.05%	79.05%
0-180	808.26	100.00%	100.00%
60-90	226.09	27.97%	27.97%
90-120	229.78	28.43%	28.43%
90-130	290.35	35.92%	35.92%
90-150	370.52	45.84%	45.84%
90-180	398.92	49.36%	49.36%
0-121.21	646.61	80.00%	80.00%

ZONAL LUMEN SUMMARY

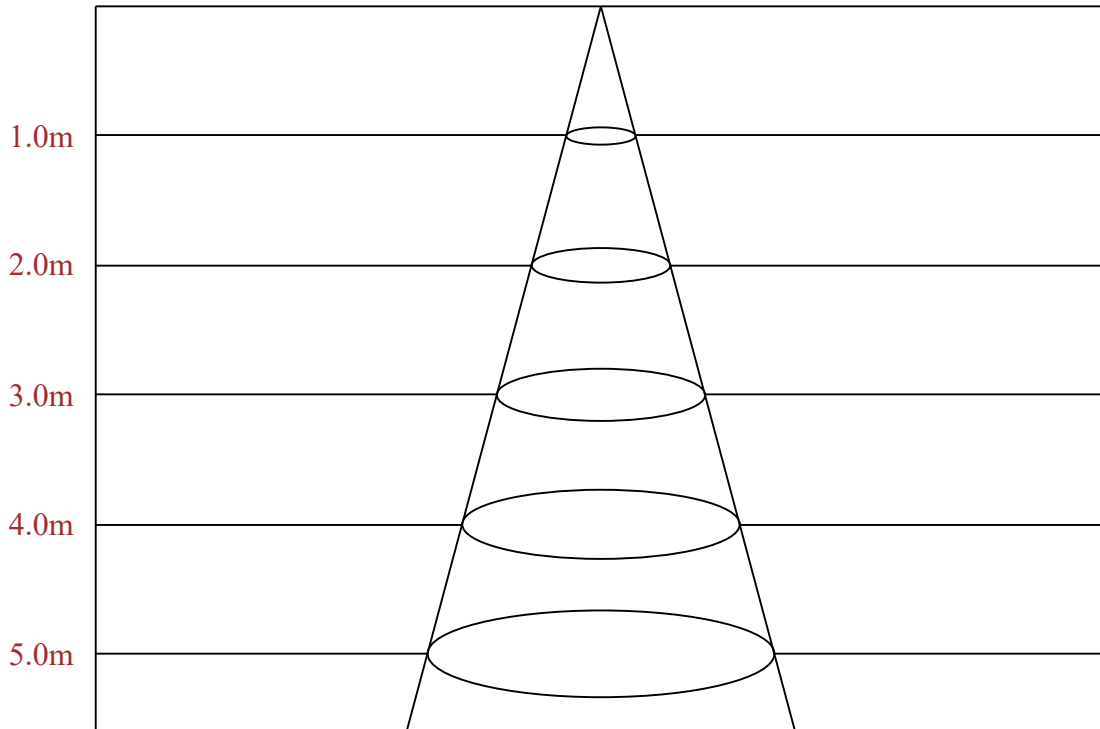
0-10	3.84
10-20	12.18
20-30	22.80
30-40	35.42
40-50	48.46
50-60	60.31
60-70	69.60
70-80	76.21
80-90	80.28
90-100	80.68
100-110	77.87
110-120	71.24
120-130	60.57
130-140	47.24
140-150	32.93
150-160	19.17
160-170	8.00
170-180	1.23



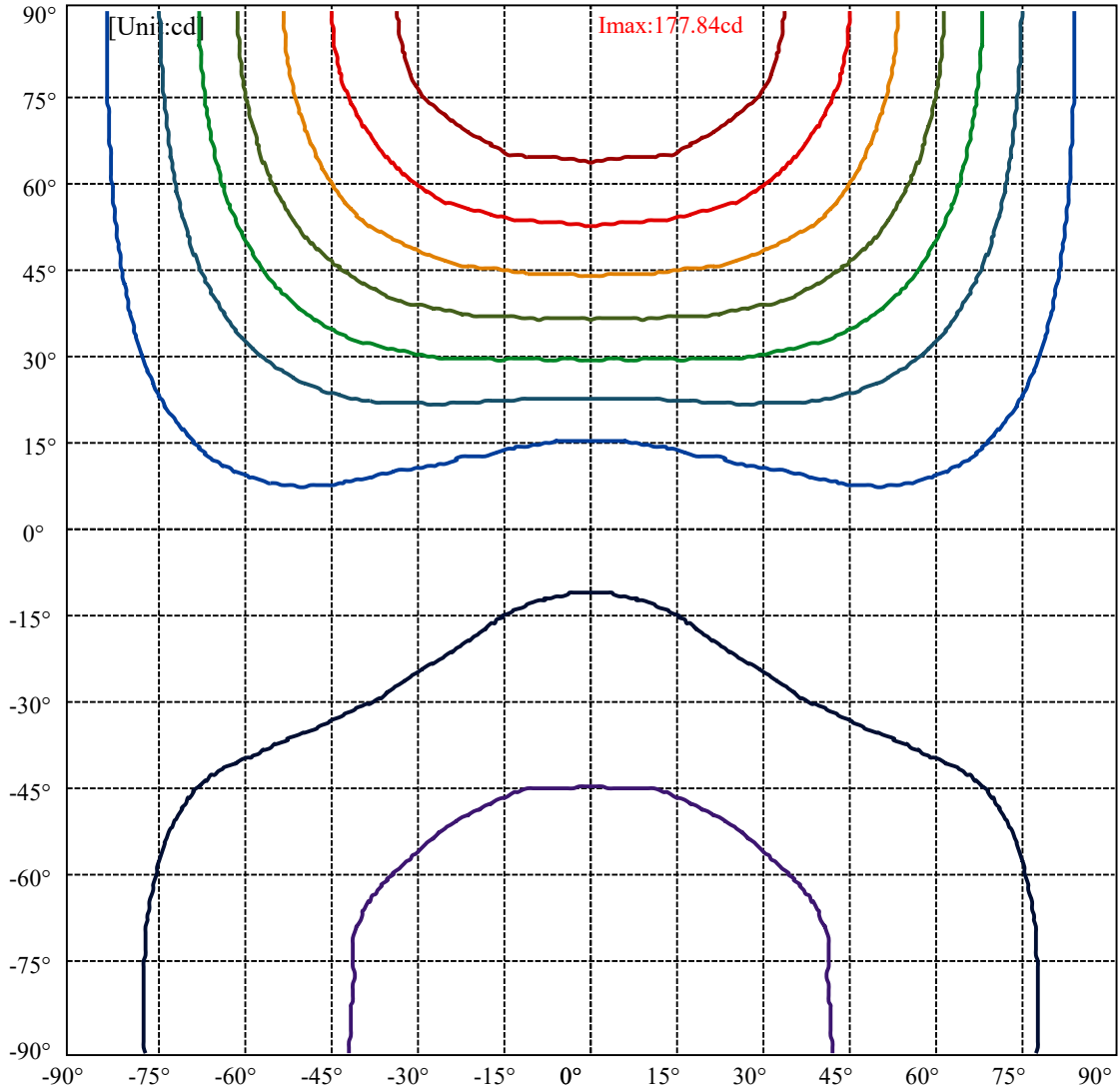
C90(Max): —————  
 C0/C180: —————  
 C90/C270: —————

Field angle(10%Imax):C0/180Left:178.9 Right:178.9  
 :C90/270Left:44.0 Right:178.9

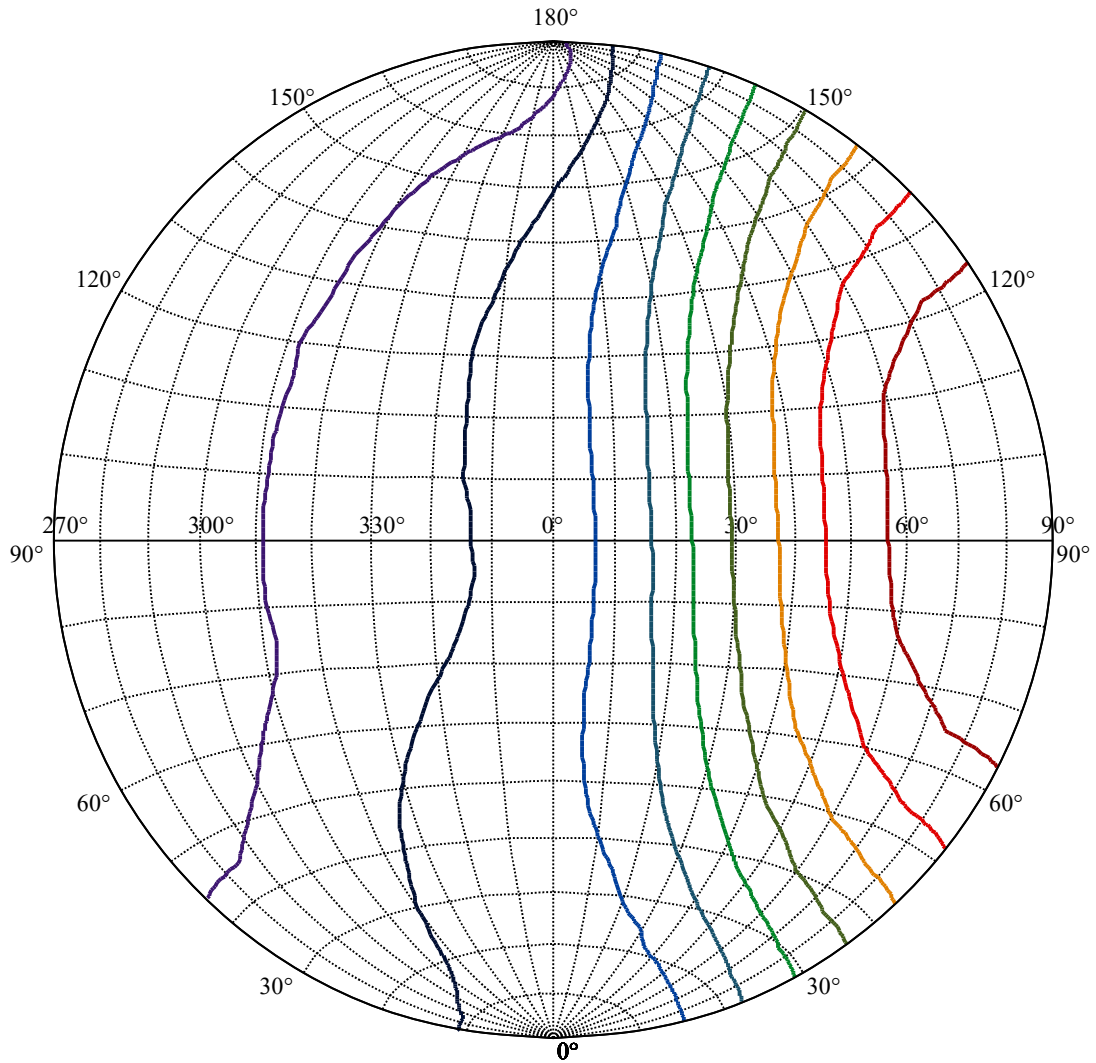
Beam Angle(50%Imax):C0/180Left:161.3 Right:161.3  
 :C90/270Left:28.9 Right:156.2



Max , Ave      Beam angle of C90 plane 221.03



(10%Imax) 17.7844	—
(20%Imax) 35.5688	—
(30%Imax) 53.3531	—
(40%Imax) 71.1375	—
(50%Imax) 88.9219	—
(60%Imax) 106.706	—
(70%Imax) 124.491	—
(80%Imax) 142.275	—
(90%Imax) 160.059	—



House

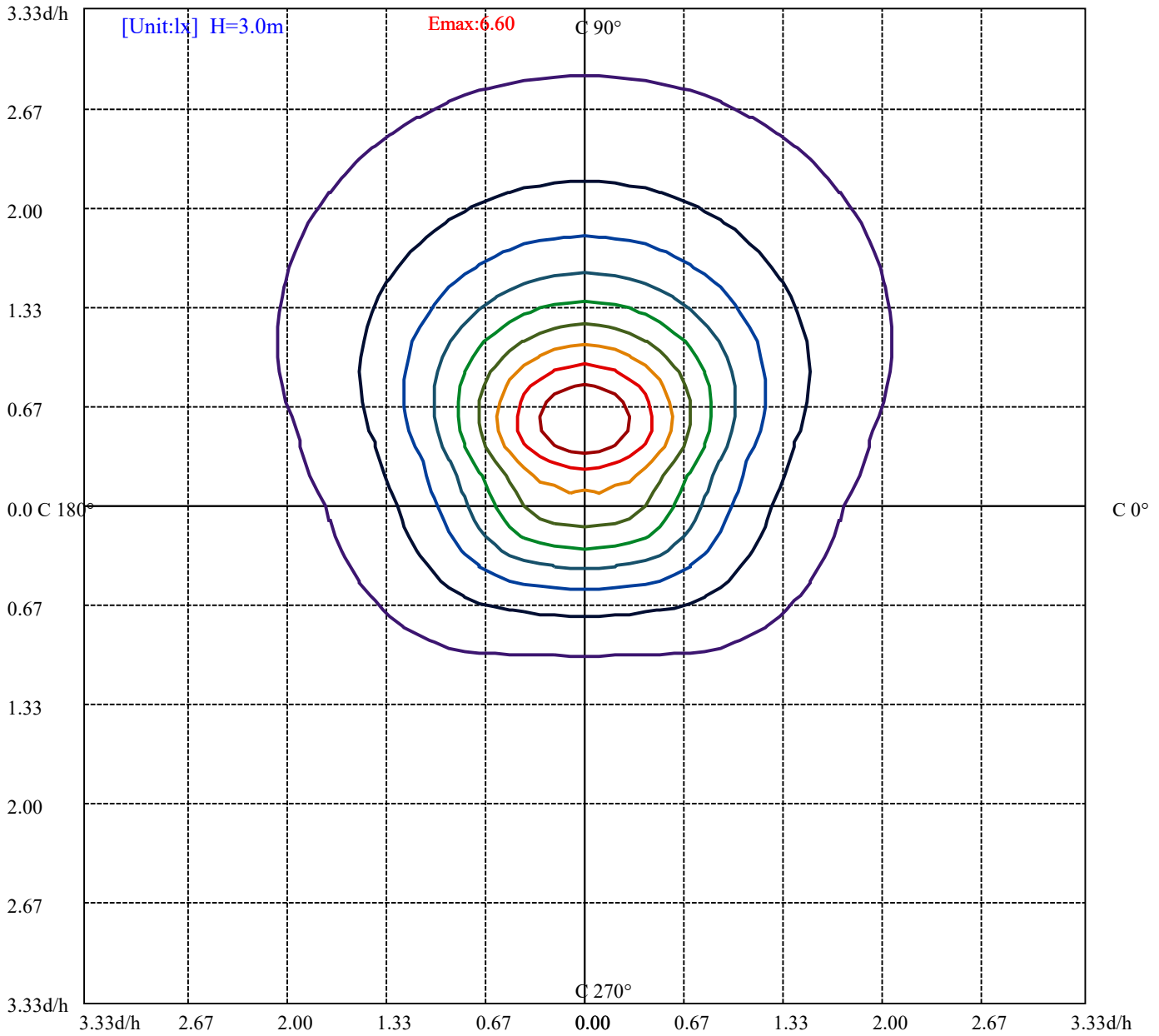
[Unit:cd]

Road

**Imax:177.84**

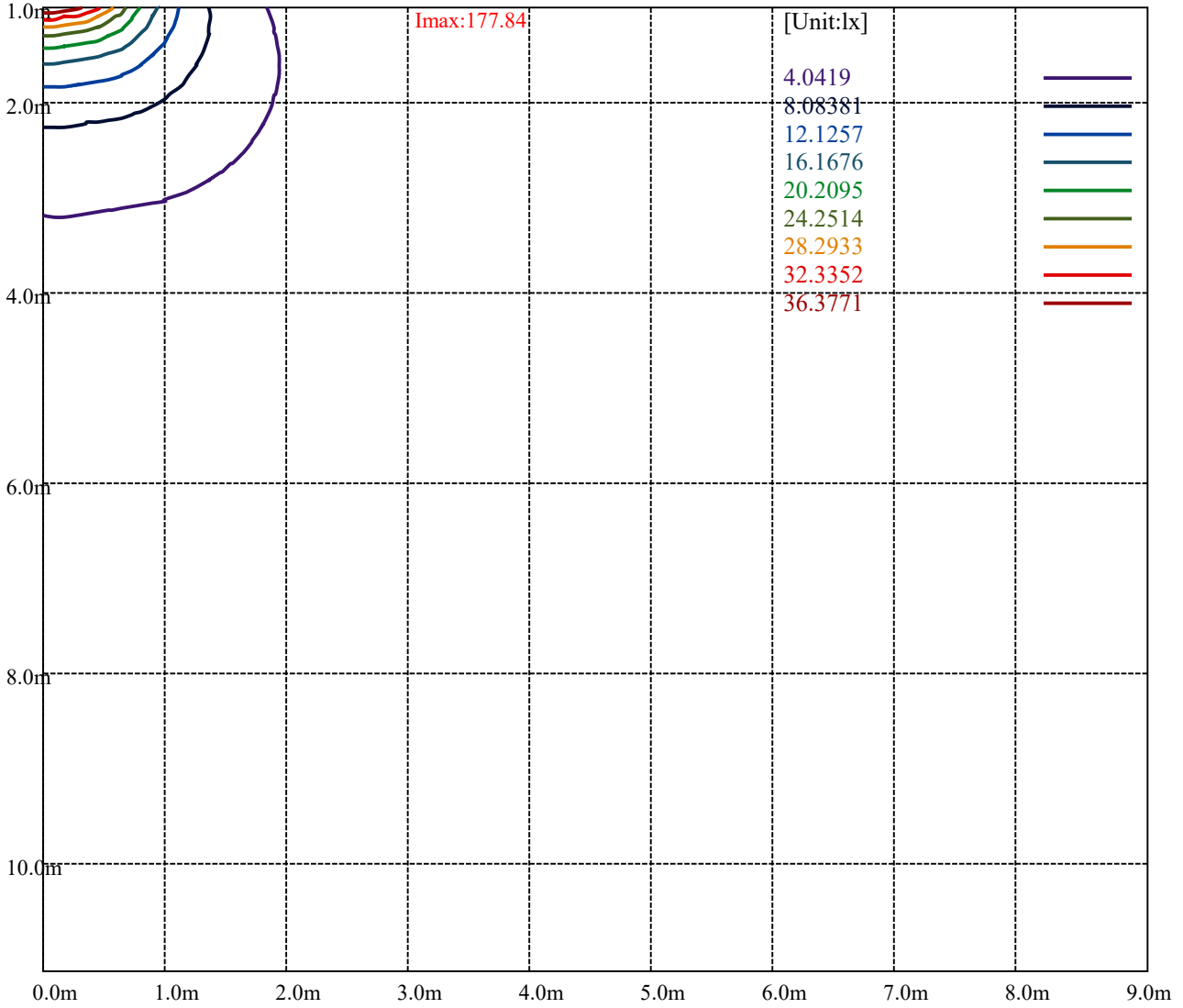
- (10%Imax) 17.7844
- (20%Imax) 35.5688
- (30%Imax) 53.3531
- (40%Imax) 71.1375
- (50%Imax) 88.9219
- (60%Imax) 106.706
- (70%Imax) 124.491
- (80%Imax) 142.275
- (90%Imax) 160.059





- (10%Emax) 0.6597089
- (20%Emax) 1.319422
- (30%Emax) 1.979133
- (40%Emax) 2.638833
- (50%Emax) 3.298544
- (60%Emax) 3.958255
- (70%Emax) 4.617967
- (80%Emax) 5.277678
- (90%Emax) 5.937389





Luminance Table

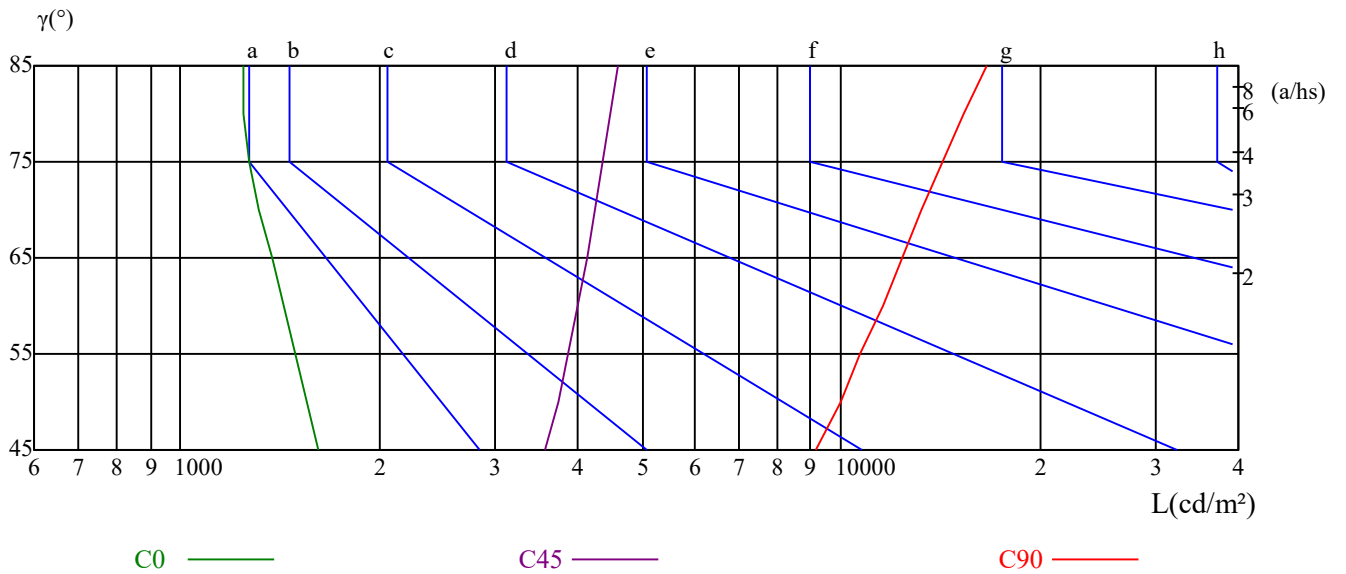
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1622	1555	1491	1429	1379	1314	1273	1242	1247
C45	3558	3728	3854	3988	4119	4235	4355	4480	4599
C90	9174	9982	10684	11557	12357	13237	14297	15350	16582

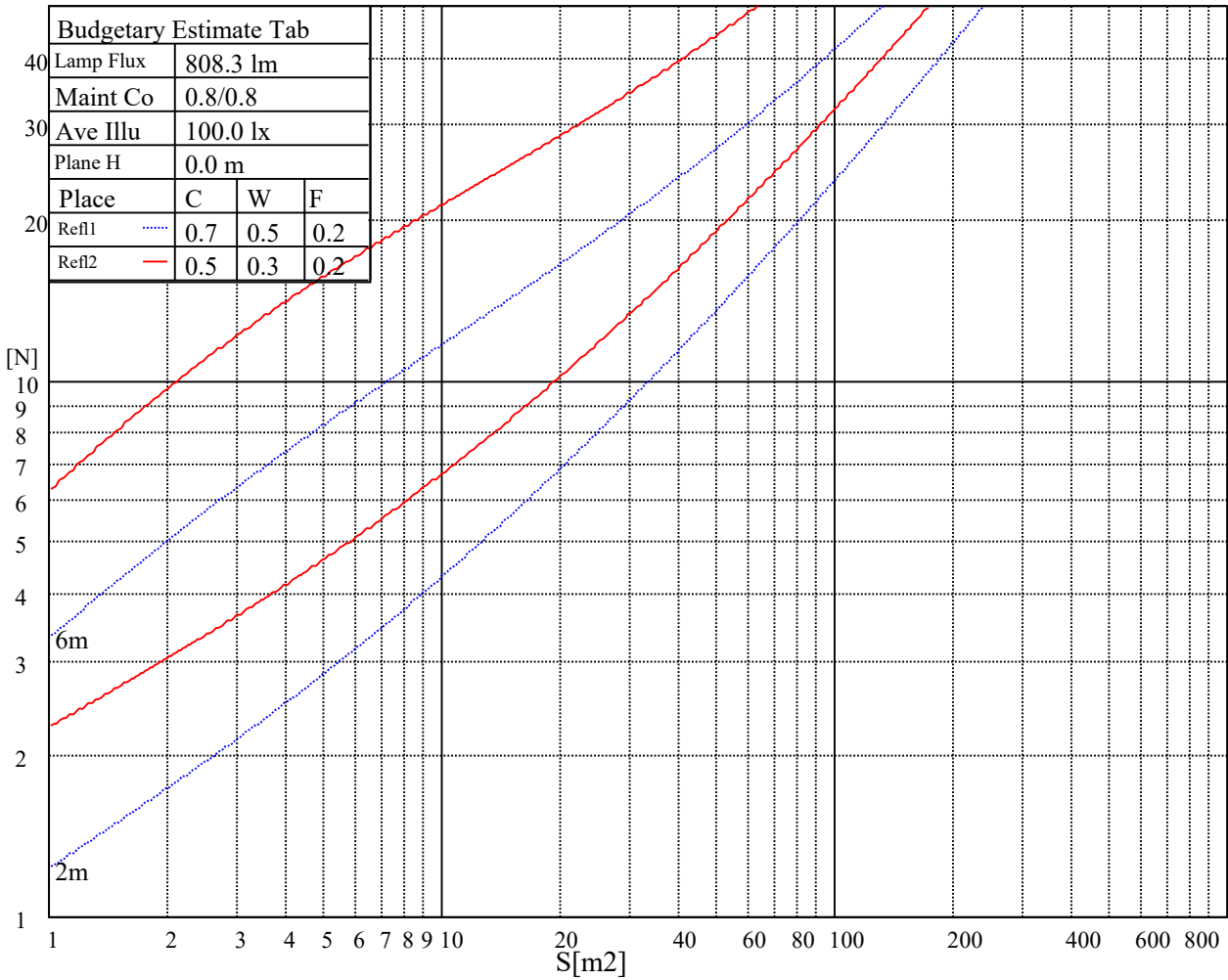
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11056	19965	18033	16826	34178	30497	47885	104618	93428

Glare Table

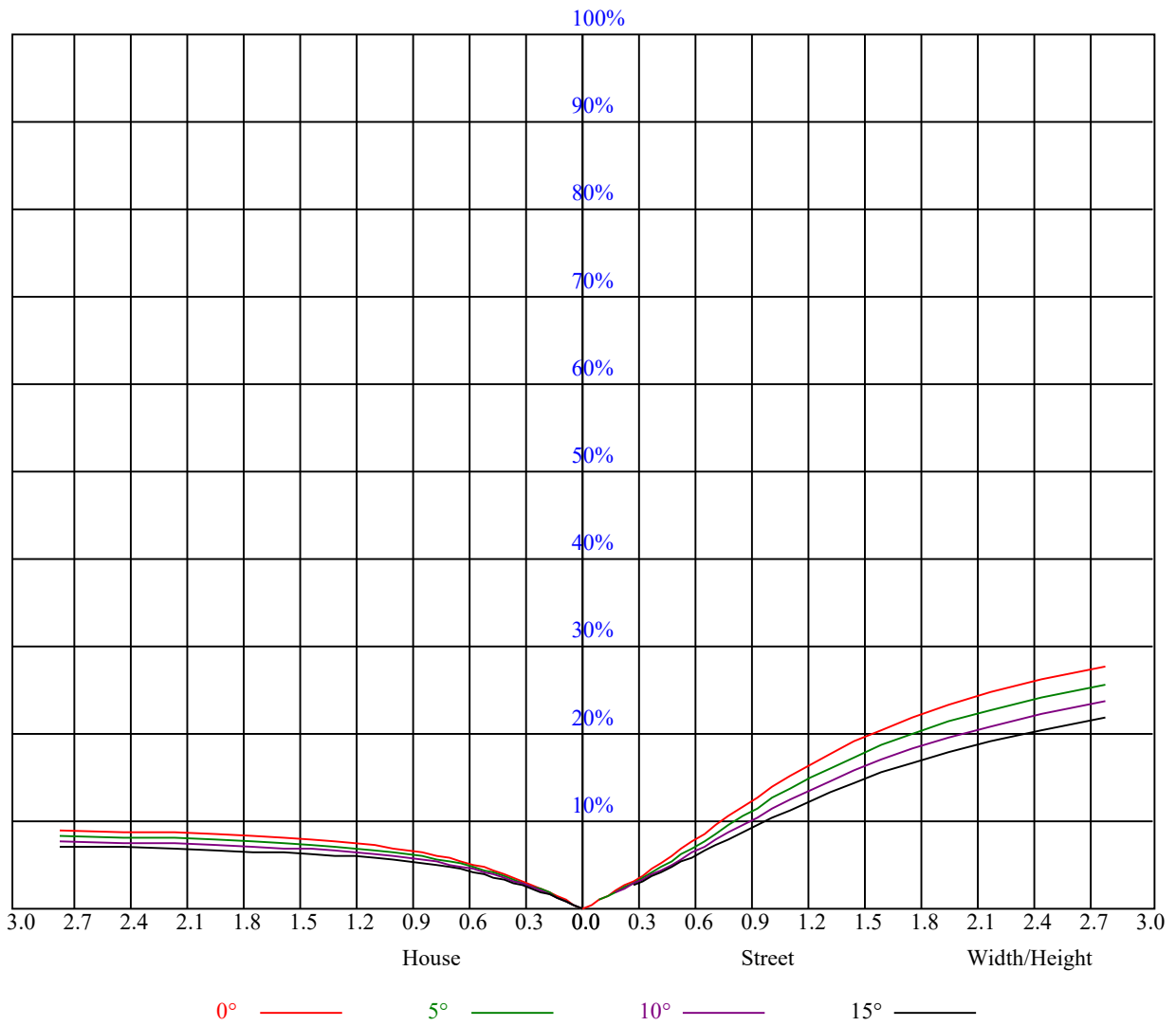
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.07	1.07	1.07	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.86	0.81	0.75	0.79	0.74	0.70	0.66	0.62	0.58	0.54	0.51	0.48	0.42	0.40	0.38	0.32
2	0.73	0.65	0.58	0.67	0.59	0.53	0.55	0.49	0.45	0.44	0.40	0.36	0.34	0.31	0.28	0.23
3	0.62	0.53	0.46	0.57	0.49	0.42	0.47	0.41	0.35	0.38	0.33	0.29	0.29	0.25	0.22	0.18
4	0.54	0.45	0.38	0.50	0.41	0.35	0.41	0.34	0.29	0.33	0.27	0.23	0.25	0.21	0.18	0.14
5	0.48	0.38	0.31	0.44	0.35	0.29	0.36	0.29	0.24	0.29	0.23	0.19	0.22	0.18	0.15	0.11
6	0.42	0.33	0.26	0.39	0.30	0.24	0.32	0.25	0.20	0.26	0.20	0.16	0.20	0.16	0.12	0.09
7	0.38	0.29	0.23	0.35	0.27	0.21	0.29	0.22	0.17	0.23	0.18	0.14	0.18	0.14	0.11	0.08
8	0.34	0.26	0.20	0.31	0.24	0.18	0.26	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.07
9	0.31	0.23	0.17	0.28	0.21	0.16	0.24	0.18	0.13	0.19	0.14	0.11	0.15	0.11	0.08	0.06
10	0.28	0.20	0.15	0.26	0.19	0.14	0.22	0.16	0.12	0.18	0.13	0.09	0.14	0.10	0.07	0.05



## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	40.42	40.42	40.42	41.32	43.11	44.91	45.81	46.71	47.60
15.0	40.42	40.42	41.32	43.11	45.81	48.50	50.30	52.99	54.79
30.0	40.42	41.32	42.22	44.91	48.50	52.99	59.28	65.57	71.86
45.0	39.52	41.32	44.01	47.60	53.89	61.98	70.96	81.74	89.82
60.0	39.52	41.32	44.91	49.40	58.38	70.06	81.74	93.41	105.09
75.0	39.52	41.32	45.81	52.10	62.87	76.35	88.92	101.50	113.17
90.0	39.52	41.32	45.81	52.99	64.67	79.04	91.62	104.19	116.77
105.0	39.52	41.32	45.81	52.10	63.77	77.25	89.82	102.39	114.97
120.0	39.52	41.32	44.91	50.30	60.18	70.96	83.53	95.21	106.89
135.0	40.42	41.32	44.01	47.60	54.79	63.77	73.65	83.53	93.41
150.0	39.52	40.42	43.11	45.81	52.99	54.79	61.08	67.37	74.55
165.0	39.52	40.42	41.32	43.11	45.81	48.50	51.20	53.89	56.59
180.0	40.42	41.32	41.32	43.11	44.91	45.81	47.60	48.50	48.50
195.0	40.42	40.42	40.42	41.32	42.22	43.11	43.11	44.01	44.01
210.0	40.42	39.52	38.62	38.62	39.52	39.52	39.52	38.62	38.62
225.0	39.52	38.62	37.72	36.83	35.93	35.03	34.13	33.23	32.34
240.0	39.52	37.72	36.83	35.03	33.23	31.44	29.64	27.84	26.05
255.0	39.52	37.72	35.93	34.13	32.34	29.64	26.95	24.25	20.66
270.0	39.52	37.72	35.93	34.13	31.44	28.74	26.05	23.35	20.66
285.0	39.52	37.72	35.93	34.13	31.44	29.64	26.95	23.35	23.35
300.0	39.52	37.72	36.83	35.03	33.23	31.44	28.74	26.95	24.25
315.0	40.42	38.62	36.83	35.93	35.03	34.13	33.23	32.34	30.54
330.0	39.52	38.62	38.62	38.62	38.62	38.62	38.62	37.72	36.83
345.0	39.52	39.52	39.52	40.42	41.32	41.32	42.22	43.11	43.11
360.0	40.42	40.42	40.42	41.32	43.11	44.91	45.81	46.71	47.60
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	48.50	48.50	48.50	47.60	46.71	44.91	44.01	42.22	41.32
15.0	56.59	59.28	61.08	62.87	63.77	64.67	65.57	65.57	65.57
30.0	78.14	83.53	88.02	92.51	97.01	99.70	102.39	104.19	105.09
45.0	98.80	106.89	114.97	121.26	126.65	131.14	134.73	137.42	139.22
60.0	114.97	124.85	133.83	141.02	147.30	153.59	157.19	160.78	162.57
75.0	123.95	134.73	143.71	152.69	159.88	165.27	169.76	173.35	175.15
90.0	128.44	139.22	147.30	156.29	162.57	167.96	173.35	176.05	177.84
105.0	125.75	135.63	145.51	153.59	160.78	167.07	171.56	174.25	176.05
120.0	117.66	127.54	136.53	143.71	150.90	156.29	160.78	164.37	166.17
135.0	101.50	111.38	117.66	124.85	131.14	135.63	139.22	141.92	142.81
150.0	80.84	87.13	92.51	97.01	101.50	104.19	106.89	108.68	110.48
165.0	59.28	61.08	63.77	65.57	67.37	68.26	69.16	70.06	70.06
180.0	48.50	48.50	47.60	46.71	45.81	44.01	42.22	41.32	41.32
195.0	43.11	43.11	42.22	40.42	39.52	37.72	35.93	35.03	35.03
210.0	37.72	35.93	35.03	33.23	31.44	29.64	28.74	28.74	28.74
225.0	30.54	28.74	26.95	25.15	22.46	20.66	19.76	20.66	20.66
240.0	23.35	20.66	17.96	15.27	13.47	10.78	10.78	10.78	10.78
255.0	17.96	14.37	10.78	8.08	4.49	1.80	1.80	1.80	2.69
270.0	17.07	14.37	10.78	9.88	4.49	1.80	1.80	2.69	2.69
285.0	17.96	14.37	10.78	8.08	4.49	1.80	1.80	1.80	2.69
300.0	21.56	19.76	17.07	14.37	11.68	9.88	8.98	9.88	9.88
315.0	29.64	27.84	26.05	24.25	21.56	19.76	18.86	19.76	19.76
330.0	36.83	35.93	34.13	33.23	31.44	29.64	27.84	27.84	27.84
345.0	42.22	42.22	41.32	39.52	38.62	36.83	35.93	35.03	34.13
360.0	48.50	48.50	48.50	47.60	46.71	44.91	44.01	42.22	41.32

## Intensity data(cd)

C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	40.42	40.42	41.32	43.11	44.01	44.91	45.81	45.81	45.81
15.0	66.47	66.47	67.37	67.37	67.37	67.37	66.47	65.57	62.87
30.0	105.99	106.89	106.89	105.99	105.09	103.29	100.60	97.01	92.51
45.0	139.22	140.12	139.22	139.22	137.42	134.73	130.24	124.85	118.56
60.0	163.47	163.47	162.57	161.68	159.88	156.29	151.80	145.51	137.42
75.0	175.15	175.15	175.15	174.25	171.56	167.96	162.57	155.39	147.30
90.0	177.84	177.84	177.84	176.95	174.25	170.66	166.17	158.08	150.90
105.0	176.95	176.95	176.05	175.15	173.35	169.76	163.47	156.29	148.20
120.0	167.07	167.07	166.17	165.27	162.57	158.98	153.59	147.30	139.22
135.0	143.71	143.71	143.71	142.81	141.02	138.32	132.93	126.65	119.46
150.0	110.48	111.38	111.38	110.48	108.68	105.99	102.39	97.90	92.51
165.0	70.06	70.96	70.96	70.96	70.06	69.16	67.37	63.77	61.08
180.0	40.42	41.32	41.32	41.32	41.32	41.32	40.42	40.42	39.52
195.0	35.03	35.03	35.03	34.13	33.23	33.23	32.34	31.44	29.64
210.0	28.74	28.74	27.84	26.95	25.15	24.25	22.46	21.56	20.66
225.0	20.66	20.66	19.76	18.86	17.07	16.17	16.17	13.47	12.57
240.0	10.78	10.78	10.78	9.88	8.98	8.08	7.19	6.29	6.29
255.0	2.69	1.80	1.80	2.69	2.69	3.59	4.49	4.49	5.39
270.0	2.69	1.80	1.80	2.69	3.59	4.49	5.39	6.29	7.19
285.0	1.80	2.69	1.80	2.69	3.59	5.39	6.29	7.19	8.98
300.0	9.88	9.88	9.88	10.78	11.68	12.57	13.47	14.37	14.37
315.0	19.76	19.76	19.76	20.66	21.56	21.56	22.46	22.46	22.46
330.0	27.84	28.74	28.74	29.64	30.54	30.54	30.54	30.54	30.54
345.0	35.03	35.03	35.93	36.83	37.72	37.72	38.62	38.62	37.72
360.0	40.42	40.42	41.32	43.11	44.01	44.91	45.81	45.81	45.81
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	44.91	44.01	42.22	40.42	36.83	32.34	26.05	20.66	14.37
15.0	60.18	57.48	53.89	48.50	44.91	40.42	33.23	26.05	16.17
30.0	87.13	80.84	74.55	66.47	58.38	49.40	42.22	32.34	19.76
45.0	111.38	102.39	93.41	83.53	72.75	61.08	49.40	38.62	24.25
60.0	128.44	118.56	107.78	95.21	83.53	70.06	55.69	42.22	27.84
75.0	138.32	127.54	115.87	103.29	89.82	75.45	60.18	44.91	29.64
90.0	141.02	130.24	118.56	105.99	92.51	77.25	61.08	45.81	29.64
105.0	139.22	128.44	116.77	103.29	89.82	74.55	60.18	44.01	28.74
120.0	129.34	119.46	107.78	96.11	82.63	69.16	54.79	39.52	26.05
135.0	110.48	102.39	92.51	81.74	70.06	57.48	45.81	33.23	22.46
150.0	85.33	78.14	71.86	62.87	54.79	45.81	34.13	25.15	18.86
165.0	57.48	52.99	48.50	44.01	37.72	31.44	25.15	18.86	14.37
180.0	37.72	35.93	33.23	29.64	24.25	18.86	14.37	11.68	7.19
195.0	28.74	26.95	24.25	20.66	17.96	13.47	10.78	8.98	6.29
210.0	18.86	18.86	15.27	13.47	12.57	8.98	8.08	6.29	4.49
225.0	11.68	9.88	9.88	8.98	8.08	6.29	5.39	4.49	1.80
240.0	6.29	6.29	6.29	6.29	6.29	4.49	3.59	3.59	0.00
255.0	6.29	7.19	7.19	7.19	6.29	4.49	3.59	3.59	0.90
270.0	8.08	8.98	9.88	9.88	8.98	6.29	4.49	2.69	2.69
285.0	9.88	10.78	11.68	12.57	11.68	9.88	7.19	5.39	3.59
300.0	15.27	15.27	16.17	15.27	14.37	12.57	9.88	7.19	4.49
315.0	22.46	21.56	21.56	19.76	18.86	16.17	12.57	9.88	5.39
330.0	29.64	27.84	26.95	26.05	22.46	19.76	16.17	11.68	7.19
345.0	36.83	35.03	33.23	30.54	27.84	23.35	18.86	13.47	8.08
360.0	44.91	44.01	42.22	40.42	36.83	32.34	26.05	20.66	14.37

Intensity data(cd)

C/ $\gamma$ (°)	180.0
0.0	6.29
15.0	8.08
30.0	8.98
45.0	8.98
60.0	9.88
75.0	11.68
90.0	14.37
105.0	14.37
120.0	14.37
135.0	12.57
150.0	10.78
165.0	8.98
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	6.29