



Shenzhen Anbotek Compliance Laboratory Ltd

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## Shenzhen Tianya lighting Co., LTD

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LumCAT:

Luminaire: TY-BUH-200CW-B60

Report No:

Voltage(V): 219.8800

Test No:

Current(A): 0.8600

LampCAT:

Power (W): 185.0000

Lamp flux(lm)

PF: 0.9783

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 23302.38

Lumens(lm)/Power(W): 125.96

Central intensity(cd): 27524.520

Maximum intensity(cd): 28134.490

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

Beam Angle(50%Imax): [C0/180]Total=56.1

[C90/270]Total=55.6

Field angle(10%Imax): [C0/180]Total=80.8

[C90/270]Total=80.5

Maximum s/h(1/2): C0\_180=0.90 C90\_270=0.89

Maximum s/h(1/4): C0\_180=0.83 C90\_270=0.82

Up flux rate of LUM(%): 0.42%

Down flux rate of LUM(%): 99.58%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.756%

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Equipment:  
Temperature(°C): 25.0

Date: 2018-1-10  
Humidity(%): 60.0%

Operator: Meteor  
Distance(m): 14.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	27524.520	.000	.000	.000%	.000%	.000%
1.0	27590.590	26.372	26.372	.113%	.113%	.113%
2.0	27552.880	79.147	105.519	.340%	.453%	.453%
3.0	27487.120	131.638	237.156	.565%	1.018%	1.018%
4.0	27392.900	183.701	420.857	.788%	1.806%	1.806%
5.0	27278.080	235.192	656.049	1.009%	2.815%	2.815%
6.0	27141.670	285.990	942.039	1.227%	4.043%	4.043%
7.0	26963.410	335.829	1277.868	1.441%	5.484%	5.484%
8.0	26755.690	384.457	1662.326	1.650%	7.134%	7.134%
9.0	26521.260	431.651	2093.976	1.852%	8.986%	8.986%
10.0	26275.160	477.643	2571.619	2.050%	11.036%	11.036%
11.0	25965.680	521.993	3093.612	2.240%	13.276%	13.276%
12.0	25639.930	564.123	3657.735	2.421%	15.697%	15.697%
13.0	25251.740	603.956	4261.691	2.592%	18.289%	18.289%
14.0	24855.940	641.374	4903.065	2.752%	21.041%	21.041%
15.0	24412.450	676.378	5579.444	2.903%	23.944%	23.944%
16.0	23898.990	707.898	6287.342	3.038%	26.982%	26.982%
17.0	23342.290	735.674	7023.016	3.157%	30.139%	30.139%
18.0	22777.160	760.410	7783.425	3.263%	33.402%	33.402%
19.0	22145.110	781.556	8564.980	3.354%	36.756%	36.756%
20.0	21440.020	797.729	9362.709	3.423%	40.179%	40.179%
21.0	20683.810	808.863	10171.570	3.471%	43.650%	43.650%
22.0	19898.200	815.513	10987.080	3.500%	47.150%	47.150%
23.0	19035.720	816.939	11804.020	3.506%	50.656%	50.656%
24.0	18068.490	811.231	12615.250	3.481%	54.137%	54.137%
25.0	17065.770	798.876	13414.130	3.428%	57.565%	57.565%
26.0	15991.700	780.325	14194.460	3.349%	60.914%	60.914%
27.0	14799.440	753.312	14947.770	3.233%	64.147%	64.147%
28.0	13552.160	717.802	15665.570	3.080%	67.227%	67.227%
29.0	12273.520	675.673	16341.240	2.900%	70.127%	70.127%
30.0	11051.680	629.776	16971.020	2.703%	72.830%	72.830%
31.0	9682.453	577.001	17548.020	2.476%	75.306%	75.306%
32.0	8425.447	518.770	18066.790	2.226%	77.532%	77.532%
33.0	7327.588	464.090	18530.880	1.992%	79.524%	79.524%
34.0	6280.785	411.829	18942.710	1.767%	81.291%	81.291%
35.0	5397.139	362.673	19305.380	1.556%	82.847%	82.847%
36.0	4427.574	312.821	19618.200	1.342%	84.190%	84.190%
37.0	4070.210	277.150	19895.350	1.189%	85.379%	85.379%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
38.0	3576.630	255.241	20150.590	1.095%	86.474%	86.474%
39.0	3160.844	229.969	20380.560	.987%	87.461%	87.461%
40.0	2813.485	208.363	20588.930	.894%	88.355%	88.355%
41.0	2510.659	189.590	20778.520	.814%	89.169%	89.169%
42.0	2241.068	172.639	20951.150	.741%	89.910%	89.910%
43.0	2013.625	157.606	21108.760	.676%	90.586%	90.586%
44.0	1816.726	144.568	21253.330	.620%	91.207%	91.207%
45.0	1635.163	132.660	21385.990	.569%	91.776%	91.776%
46.0	1481.300	121.878	21507.870	.523%	92.299%	92.299%
47.0	1347.926	112.526	21620.390	.483%	92.782%	92.782%
48.0	1229.685	104.201	21724.590	.447%	93.229%	93.229%
49.0	1120.915	96.529	21821.120	.414%	93.643%	93.643%
50.0	1037.458	89.990	21911.110	.386%	94.029%	94.029%
51.0	960.527	84.532	21995.640	.363%	94.392%	94.392%
52.0	867.930	78.460	22074.110	.337%	94.729%	94.729%
53.0	803.769	72.719	22146.820	.312%	95.041%	95.041%
54.0	739.355	68.014	22214.840	.292%	95.333%	95.333%
55.0	687.687	63.701	22278.540	.273%	95.606%	95.606%
56.0	639.725	59.982	22338.520	.257%	95.864%	95.864%
57.0	596.917	56.542	22395.060	.243%	96.106%	96.106%
58.0	556.751	53.350	22448.410	.229%	96.335%	96.335%
59.0	521.941	50.430	22498.840	.216%	96.552%	96.552%
60.0	486.776	47.655	22546.500	.205%	96.756%	96.756%
61.0	454.150	44.903	22591.400	.193%	96.949%	96.949%
62.0	426.119	42.417	22633.820	.182%	97.131%	97.131%
63.0	398.419	40.102	22673.920	.172%	97.303%	97.303%
64.0	374.172	37.911	22711.830	.163%	97.466%	97.466%
65.0	351.854	35.930	22747.760	.154%	97.620%	97.620%
66.0	330.374	34.039	22781.800	.146%	97.766%	97.766%
67.0	310.290	32.214	22814.010	.138%	97.904%	97.904%
68.0	291.070	30.463	22844.480	.131%	98.035%	98.035%
69.0	273.754	28.815	22873.290	.124%	98.159%	98.159%
70.0	257.429	27.281	22900.570	.117%	98.276%	98.276%
71.0	241.078	25.766	22926.340	.111%	98.386%	98.386%
72.0	225.006	24.235	22950.570	.104%	98.490%	98.490%
73.0	210.965	22.798	22973.370	.098%	98.588%	98.588%
74.0	196.620	21.428	22994.800	.092%	98.680%	98.680%
75.0	183.798	20.100	23014.900	.086%	98.766%	98.766%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
76.0	172.118	18.893	23033.790	.081%	98.847%	98.847%
77.0	161.632	17.794	23051.590	.076%	98.924%	98.924%
78.0	152.670	16.825	23068.410	.072%	98.996%	98.996%
79.0	147.770	16.143	23084.550	.069%	99.065%	99.065%
80.0	143.656	15.711	23100.260	.067%	99.133%	99.133%
81.0	138.985	15.285	23115.550	.066%	99.198%	99.198%
82.0	131.698	14.679	23130.230	.063%	99.261%	99.261%
83.0	124.411	13.922	23144.150	.060%	99.321%	99.321%
84.0	115.372	13.063	23157.210	.056%	99.377%	99.377%
85.0	103.997	11.973	23169.180	.051%	99.428%	99.428%
86.0	90.312	10.621	23179.800	.046%	99.474%	99.474%
87.0	72.031	8.885	23188.690	.038%	99.512%	99.512%
88.0	53.598	6.882	23195.570	.030%	99.542%	99.542%
89.0	41.614	5.219	23200.790	.022%	99.564%	99.564%
90.0	33.642	4.126	23204.920	.018%	99.582%	99.582%
91.0	28.361	3.399	23208.320	.015%	99.596%	99.596%
92.0	26.507	3.007	23211.320	.013%	99.609%	99.609%
93.0	26.355	2.896	23214.220	.012%	99.622%	99.622%
94.0	25.669	2.847	23217.070	.012%	99.634%	99.634%
95.0	24.298	2.731	23219.800	.012%	99.646%	99.646%
96.0	22.470	2.553	23222.350	.011%	99.657%	99.657%
97.0	20.261	2.328	23224.680	.010%	99.667%	99.667%
98.0	18.255	2.094	23226.770	.009%	99.676%	99.676%
99.0	16.377	1.878	23228.650	.008%	99.684%	99.684%
100.0	14.548	1.672	23230.320	.007%	99.691%	99.691%
101.0	12.974	1.484	23231.810	.006%	99.697%	99.697%
102.0	11.806	1.331	23233.140	.006%	99.703%	99.703%
103.0	10.638	1.201	23234.340	.005%	99.708%	99.708%
104.0	9.877	1.094	23235.440	.005%	99.713%	99.713%
105.0	9.140	1.010	23236.450	.004%	99.717%	99.717%
106.0	8.531	.934	23237.380	.004%	99.721%	99.721%
107.0	8.099	.874	23238.250	.004%	99.725%	99.725%
108.0	7.617	.822	23239.080	.004%	99.728%	99.728%
109.0	7.262	.774	23239.850	.003%	99.732%	99.732%
110.0	6.982	.736	23240.590	.003%	99.735%	99.735%
111.0	6.754	.705	23241.290	.003%	99.738%	99.738%
112.0	6.551	.679	23241.970	.003%	99.741%	99.741%
113.0	6.322	.652	23242.620	.003%	99.744%	99.744%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
114.0	6.144	.627	23243.250	.003%	99.746%	99.746%
115.0	5.992	.606	23243.860	.003%	99.749%	99.749%
116.0	5.865	.587	23244.440	.003%	99.751%	99.751%
117.0	5.789	.572	23245.010	.002%	99.754%	99.754%
118.0	5.840	.566	23245.580	.002%	99.756%	99.756%
119.0	5.713	.557	23246.140	.002%	99.759%	99.759%
120.0	5.789	.549	23246.690	.002%	99.761%	99.761%
121.0	5.840	.549	23247.230	.002%	99.763%	99.763%
122.0	5.916	.550	23247.780	.002%	99.766%	99.766%
123.0	6.068	.554	23248.340	.002%	99.768%	99.768%
124.0	6.322	.567	23248.900	.002%	99.770%	99.770%
125.0	6.500	.579	23249.480	.002%	99.773%	99.773%
126.0	6.728	.590	23250.070	.003%	99.776%	99.776%
127.0	7.008	.605	23250.680	.003%	99.778%	99.778%
128.0	7.414	.627	23251.310	.003%	99.781%	99.781%
129.0	7.820	.654	23251.960	.003%	99.784%	99.784%
130.0	8.277	.681	23252.640	.003%	99.787%	99.787%
131.0	8.734	.709	23253.350	.003%	99.790%	99.790%
132.0	9.242	.738	23254.090	.003%	99.793%	99.793%
133.0	9.801	.770	23254.860	.003%	99.796%	99.796%
134.0	10.435	.805	23255.660	.003%	99.800%	99.800%
135.0	11.121	.843	23256.510	.004%	99.803%	99.803%
136.0	11.730	.878	23257.390	.004%	99.807%	99.807%
137.0	12.568	.917	23258.300	.004%	99.811%	99.811%
138.0	13.279	.957	23259.260	.004%	99.815%	99.815%
139.0	14.066	.993	23260.260	.004%	99.819%	99.819%
140.0	14.955	1.033	23261.290	.004%	99.824%	99.824%
141.0	15.793	1.072	23262.360	.005%	99.828%	99.828%
142.0	16.681	1.108	23263.470	.005%	99.833%	99.833%
143.0	17.544	1.142	23264.610	.005%	99.838%	99.838%
144.0	18.535	1.177	23265.790	.005%	99.843%	99.843%
145.0	19.550	1.213	23267.000	.005%	99.848%	99.848%
146.0	20.566	1.246	23268.250	.005%	99.854%	99.854%
147.0	21.480	1.272	23269.520	.005%	99.859%	99.859%
148.0	22.622	1.299	23270.820	.006%	99.865%	99.865%
149.0	23.511	1.322	23272.140	.006%	99.870%	99.870%
150.0	24.425	1.334	23273.470	.006%	99.876%	99.876%
151.0	25.492	1.348	23274.820	.006%	99.882%	99.882%

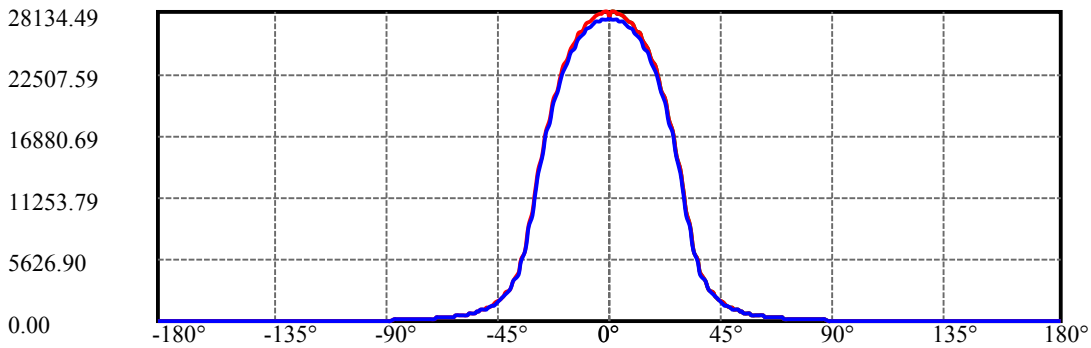
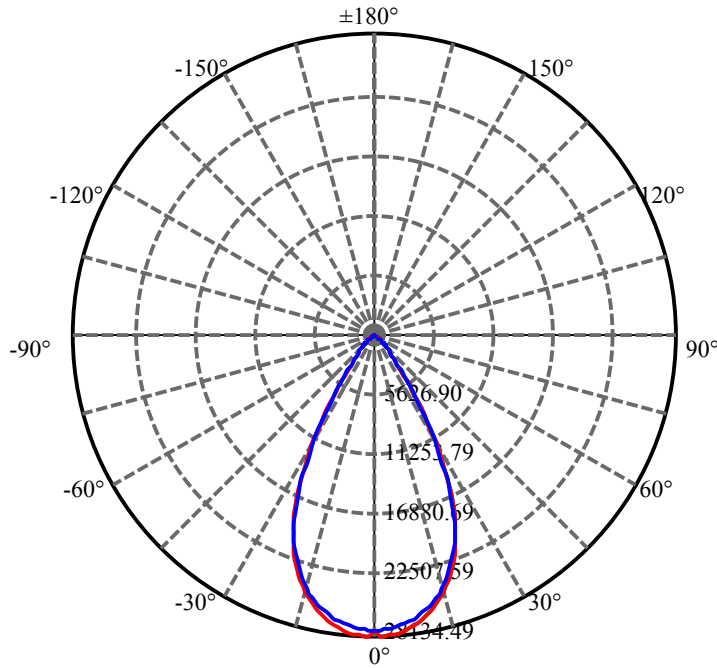
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
152.0	26.685	1.365	23276.190	.006%	99.888%	99.888%
153.0	27.777	1.379	23277.570	.006%	99.893%	99.893%
154.0	28.792	1.384	23278.950	.006%	99.899%	99.899%
155.0	30.036	1.389	23280.340	.006%	99.905%	99.905%
156.0	31.331	1.395	23281.730	.006%	99.911%	99.911%
157.0	32.372	1.393	23283.130	.006%	99.917%	99.917%
158.0	33.439	1.381	23284.510	.006%	99.923%	99.923%
159.0	34.378	1.363	23285.870	.006%	99.929%	99.929%
160.0	35.343	1.339	23287.210	.006%	99.935%	99.935%
161.0	36.206	1.310	23288.520	.006%	99.940%	99.940%
162.0	37.019	1.274	23289.790	.005%	99.946%	99.946%
163.0	37.831	1.234	23291.030	.005%	99.951%	99.951%
164.0	38.542	1.189	23292.210	.005%	99.956%	99.956%
165.0	39.227	1.140	23293.350	.005%	99.961%	99.961%
166.0	39.913	1.086	23294.440	.005%	99.966%	99.966%
167.0	40.573	1.030	23295.470	.004%	99.970%	99.970%
168.0	41.106	.969	23296.440	.004%	99.974%	99.974%
169.0	41.538	.903	23297.340	.004%	99.978%	99.978%
170.0	42.046	.835	23298.180	.004%	99.982%	99.982%
171.0	42.401	.764	23298.940	.003%	99.985%	99.985%
172.0	42.909	.691	23299.630	.003%	99.988%	99.988%
173.0	43.468	.618	23300.250	.003%	99.991%	99.991%
174.0	43.823	.542	23300.790	.002%	99.993%	99.993%
175.0	44.229	.463	23301.260	.002%	99.995%	99.995%
176.0	44.991	.384	23301.640	.002%	99.997%	99.997%
177.0	45.550	.303	23301.940	.001%	99.998%	99.998%
178.0	46.007	.219	23302.160	.001%	99.999%	99.999%
179.0	46.540	.133	23302.290	.001%	100.000%	100.000%
180.0	46.717	.045	23302.340	.000%	100.000%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	16971.02	72.83%
0-40	20588.93	88.36%
0-60	22546.50	96.76%
0-90	23204.92	99.58%
0-120	23246.69	99.76%
0-180	23302.34	100.00%
60-90	706.08	3.03%
90-120	45.89	0.20%
90-130	51.85	0.22%
90-150	72.68	0.31%
90-180	101.50	0.44%
0-33.27	18641.87	80.00%

## ZONAL LUMEN SUMMARY

0-10	2571.62
10-20	6791.09
20-30	7608.31
30-40	3617.91
40-50	1322.19
50-60	635.38
60-70	354.07
70-80	199.69
80-90	104.65
90-100	25.41
100-110	10.26
110-120	6.10
120-130	5.96
130-140	8.64
140-150	12.19
150-160	13.73
160-170	10.97
170-180	4.12



C0(Max): ———

C0/C180: ———

C90/C270: ———

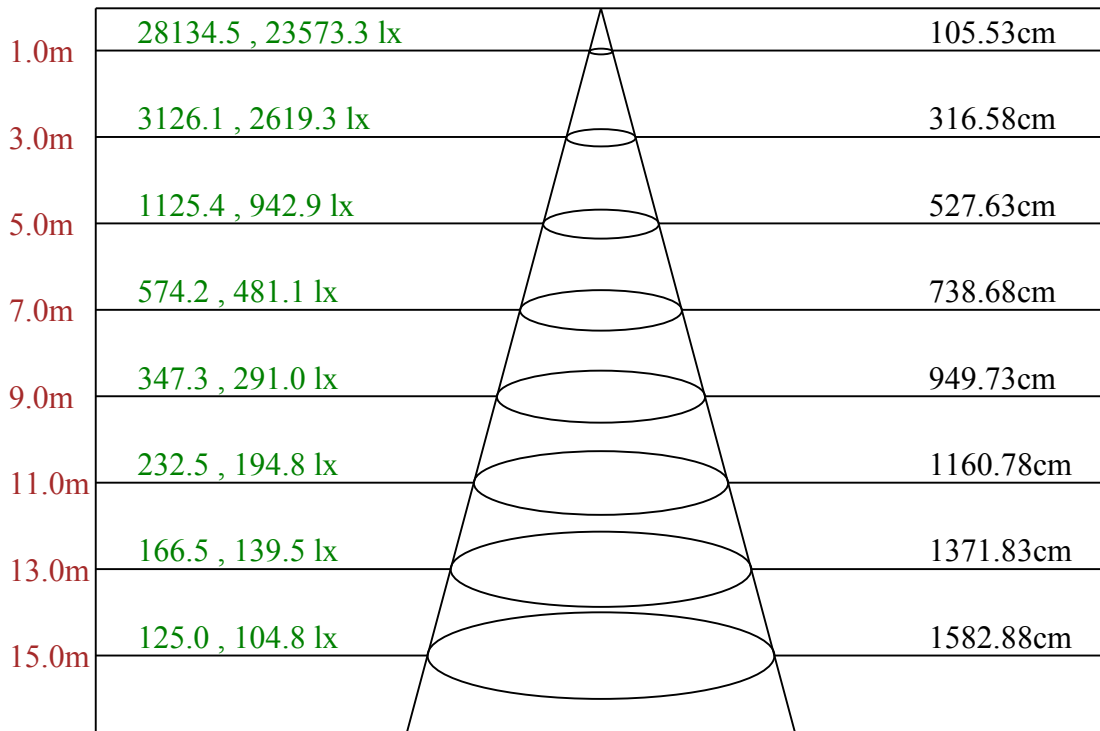
Field angle(10%Imax):C0/180Left:40.4 Right:40.4

:C90/270Left:40.2 Right:40.2

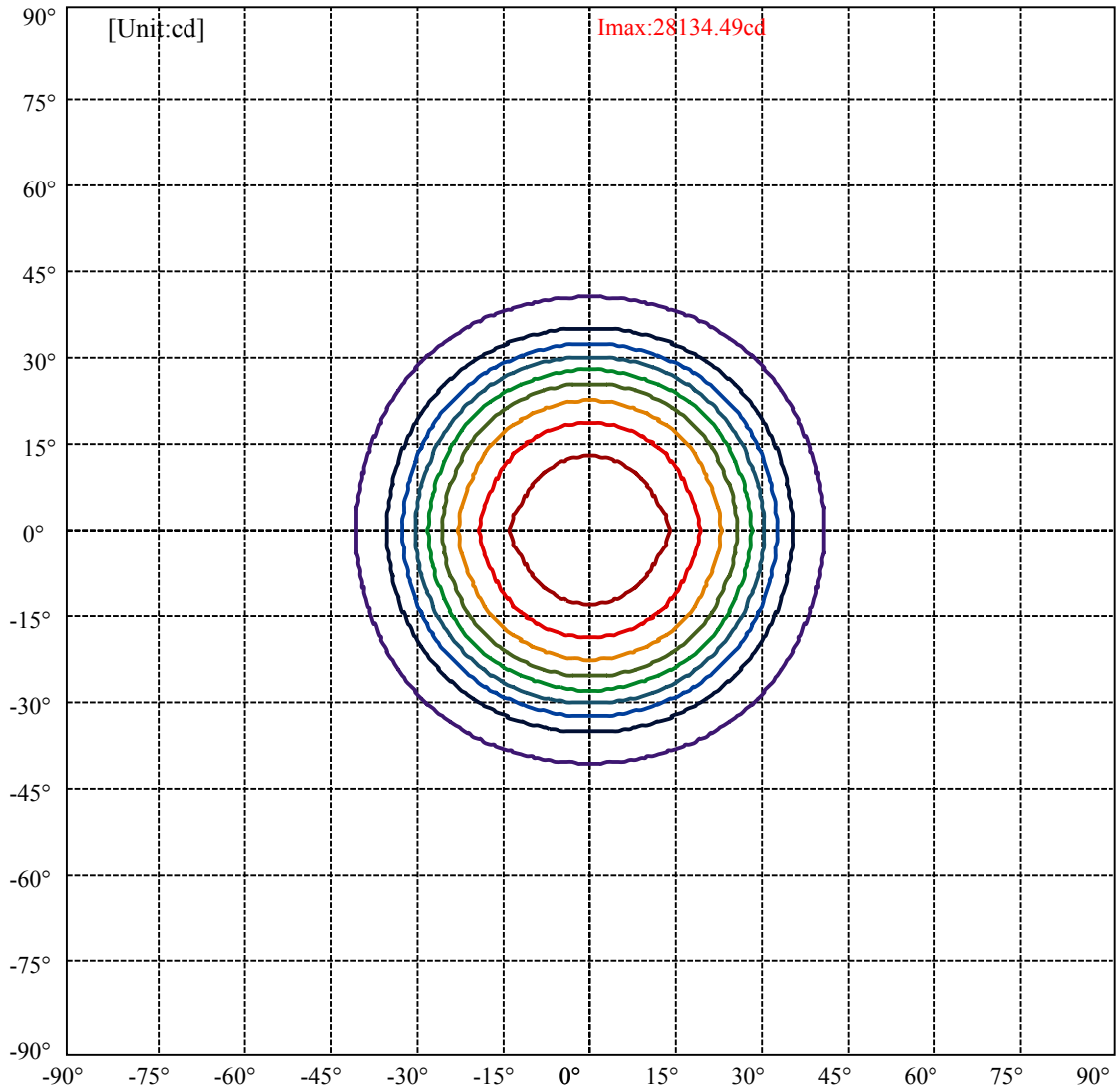
Beam Angle(50%Imax):C0/180Left:28.1 Right:28.1

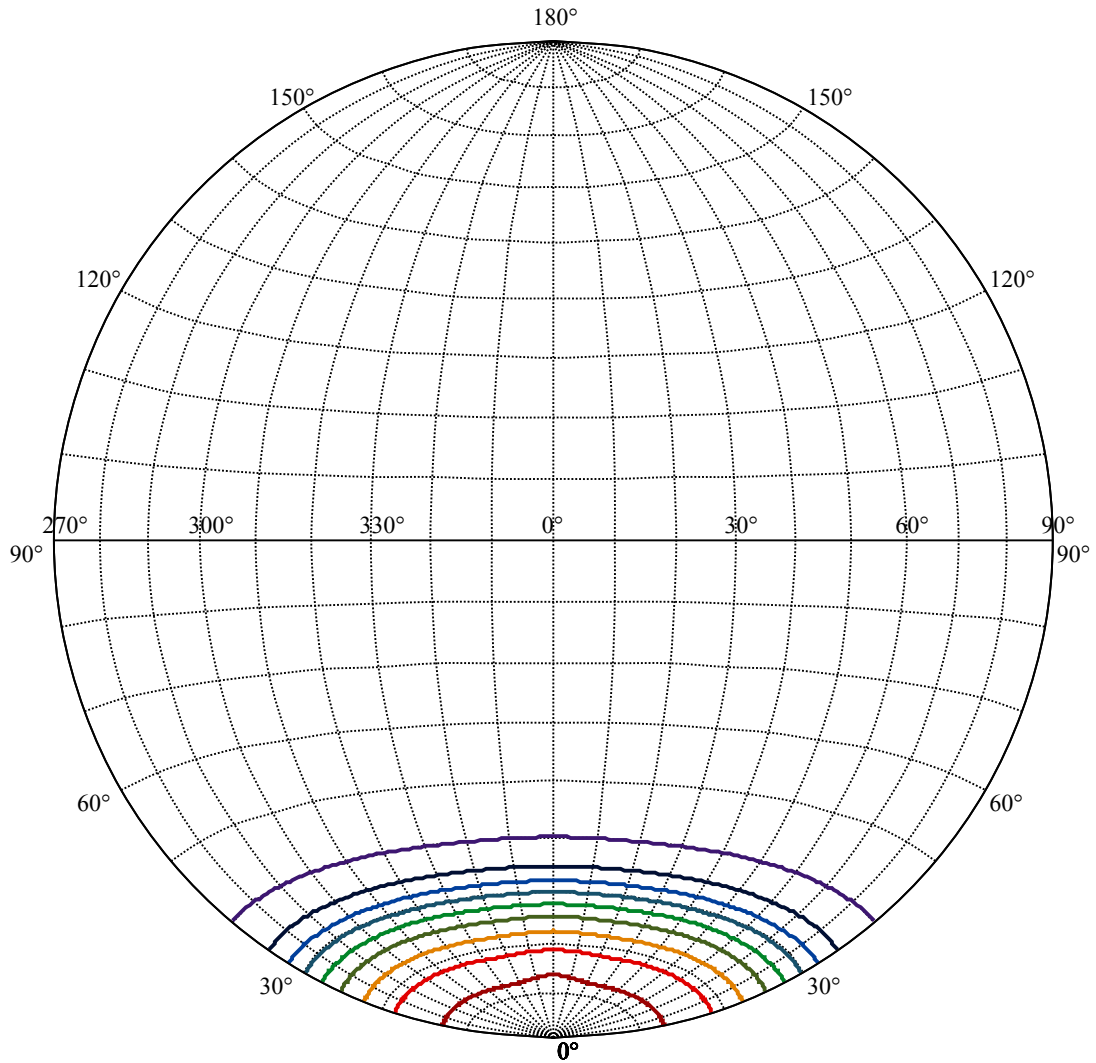
:C90/270Left:27.8 Right:27.8





Max , Ave      Beam angle of C0plane55.63





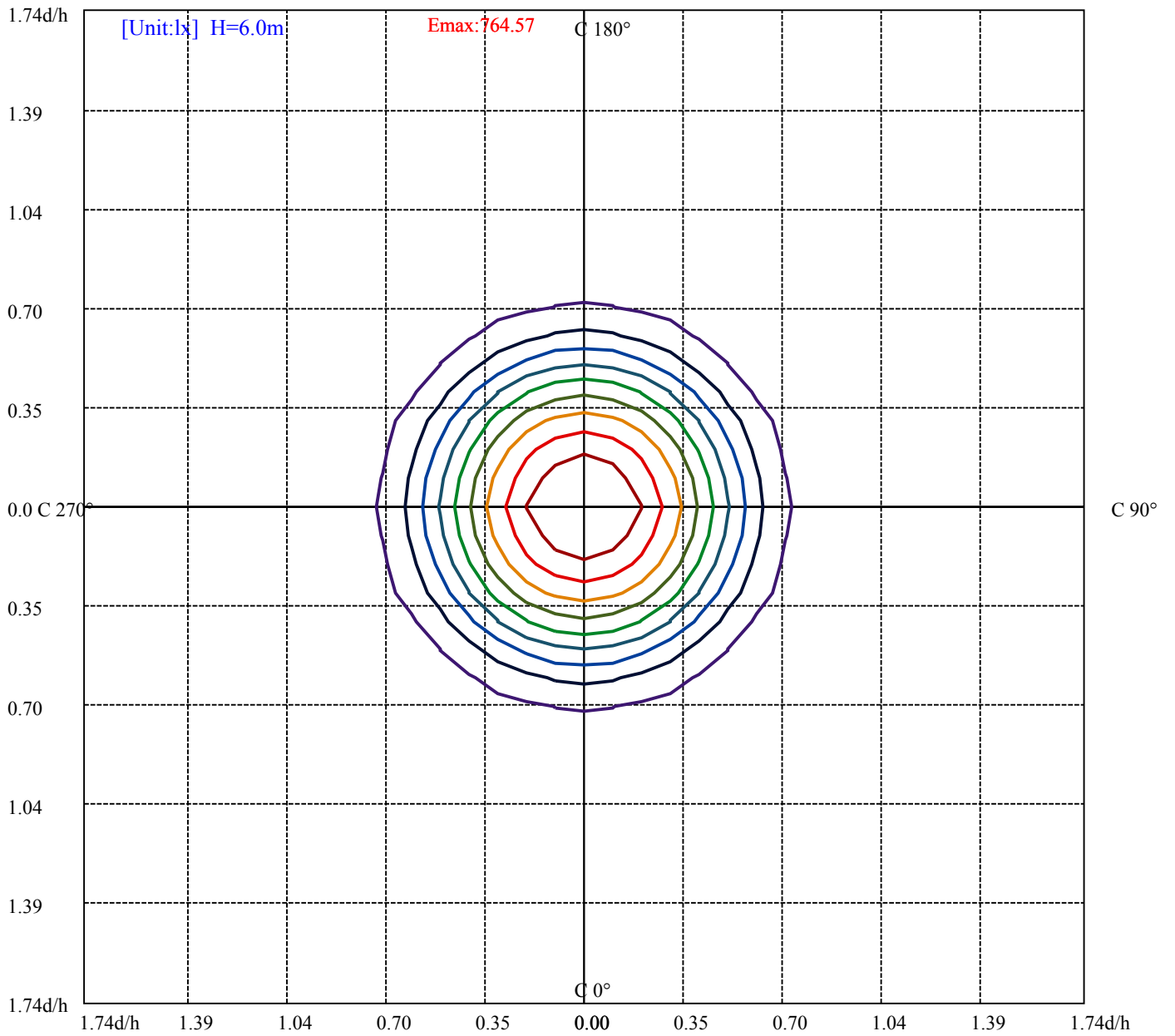
House

[Unit:cd]

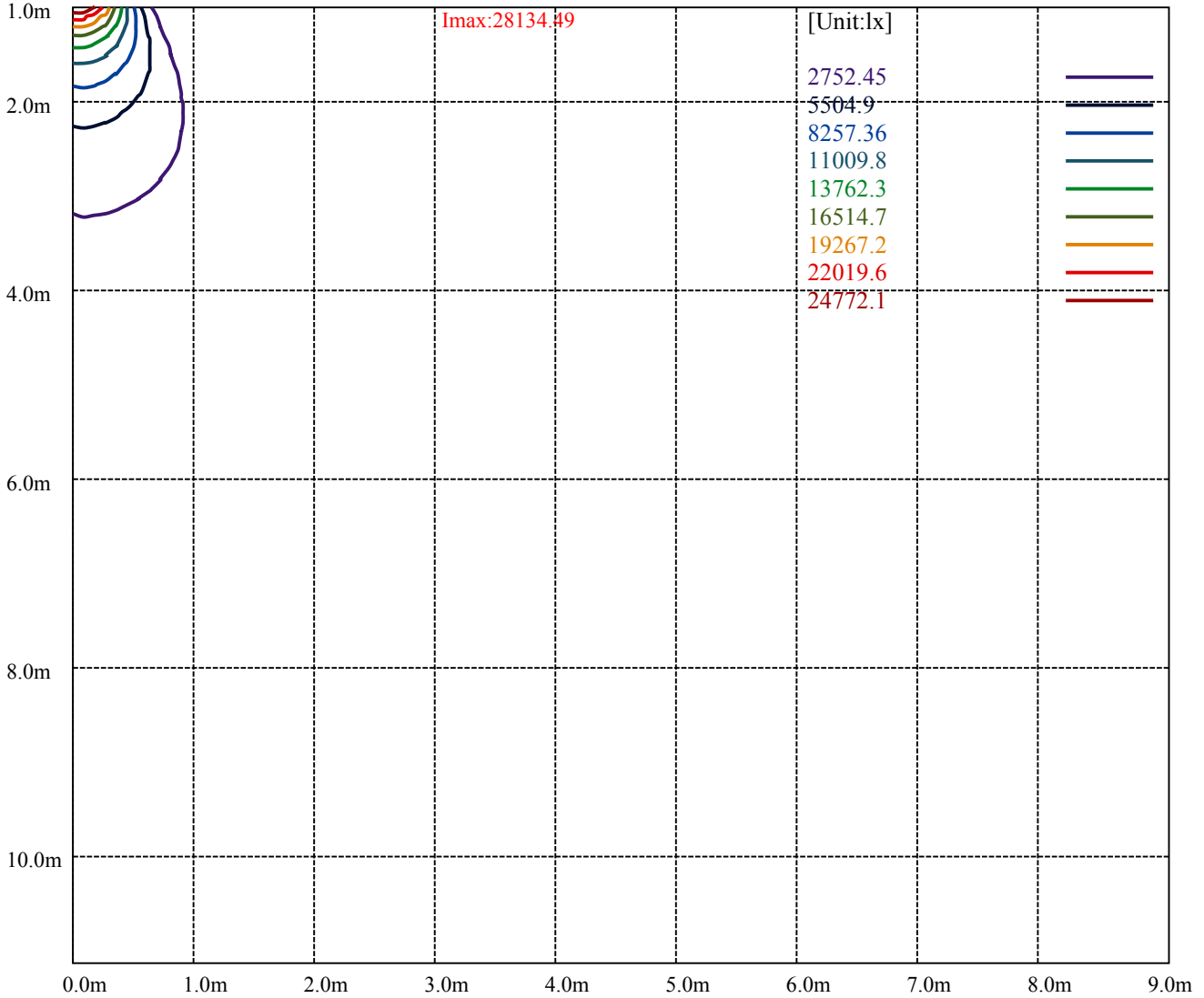
Road

Imax:28134.49

(10%Imax) 2813.45	—
(20%Imax) 5626.9	—
(30%Imax) 8440.35	—
(40%Imax) 11253.8	—
(50%Imax) 14067.2	—
(60%Imax) 16880.7	—
(70%Imax) 19694.1	—
(80%Imax) 22507.6	—
(90%Imax) 25321	—



(10%Emax) 76.45694	—
(20%Emax) 152.9139	—
(30%Emax) 229.3711	—
(40%Emax) 305.8278	—
(50%Emax) 382.2861	—
(60%Emax) 458.7416	—
(70%Emax) 535.2	—
(80%Emax) 611.6555	—
(90%Emax) 688.1139	—



Luminance Table

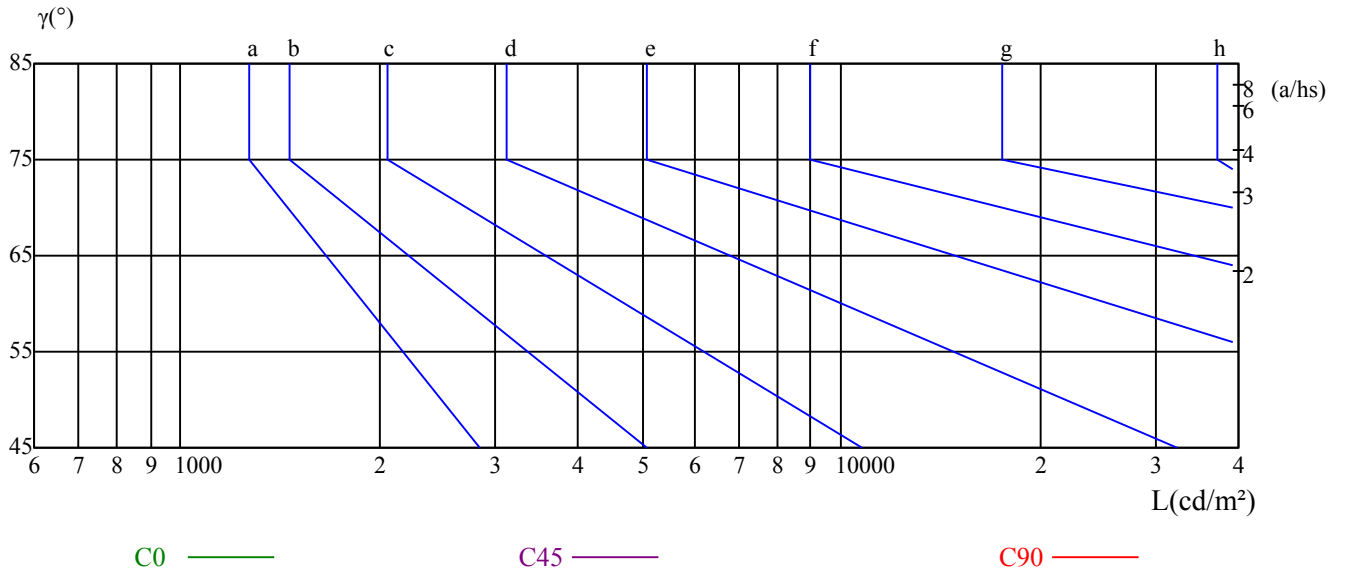
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

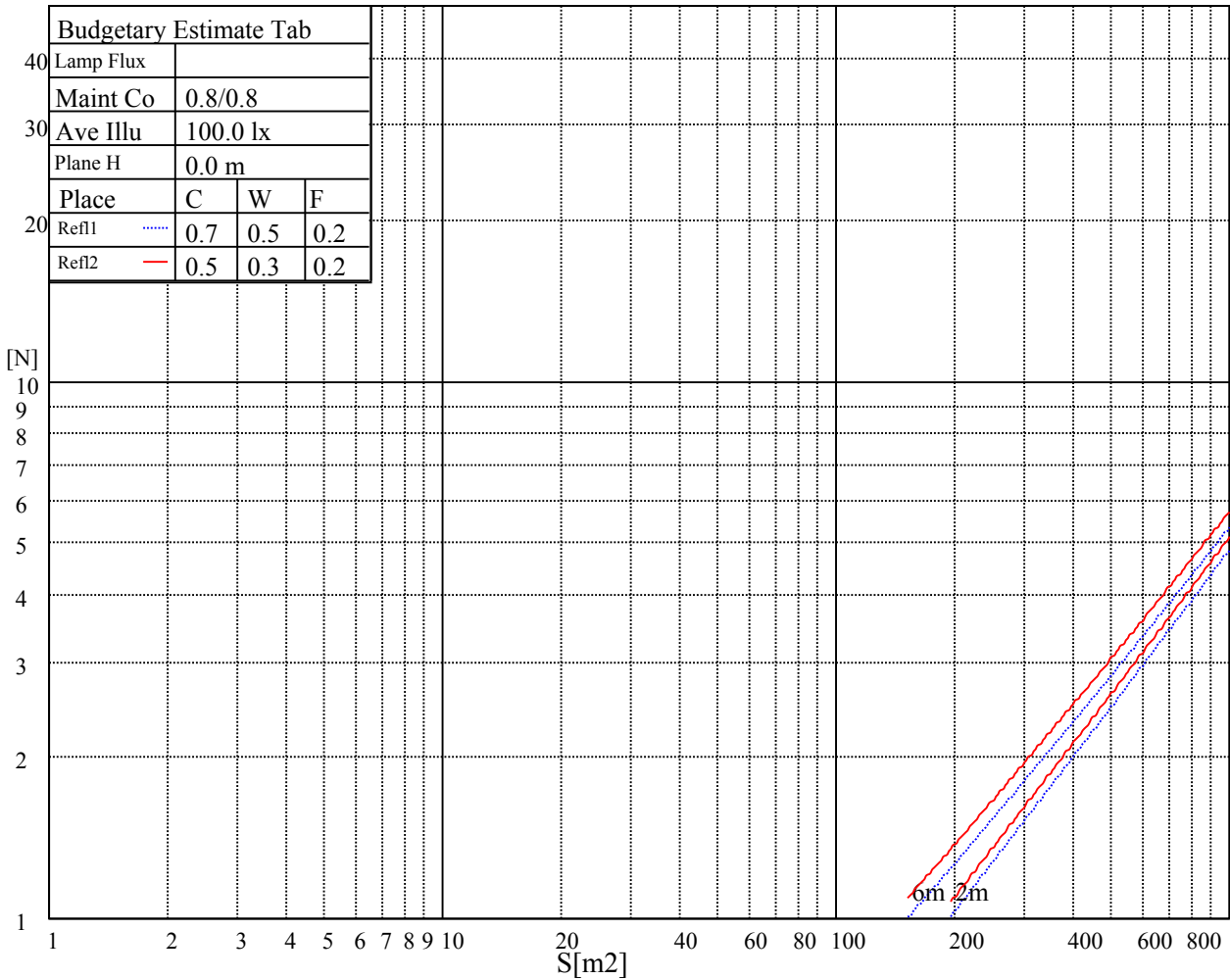
L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

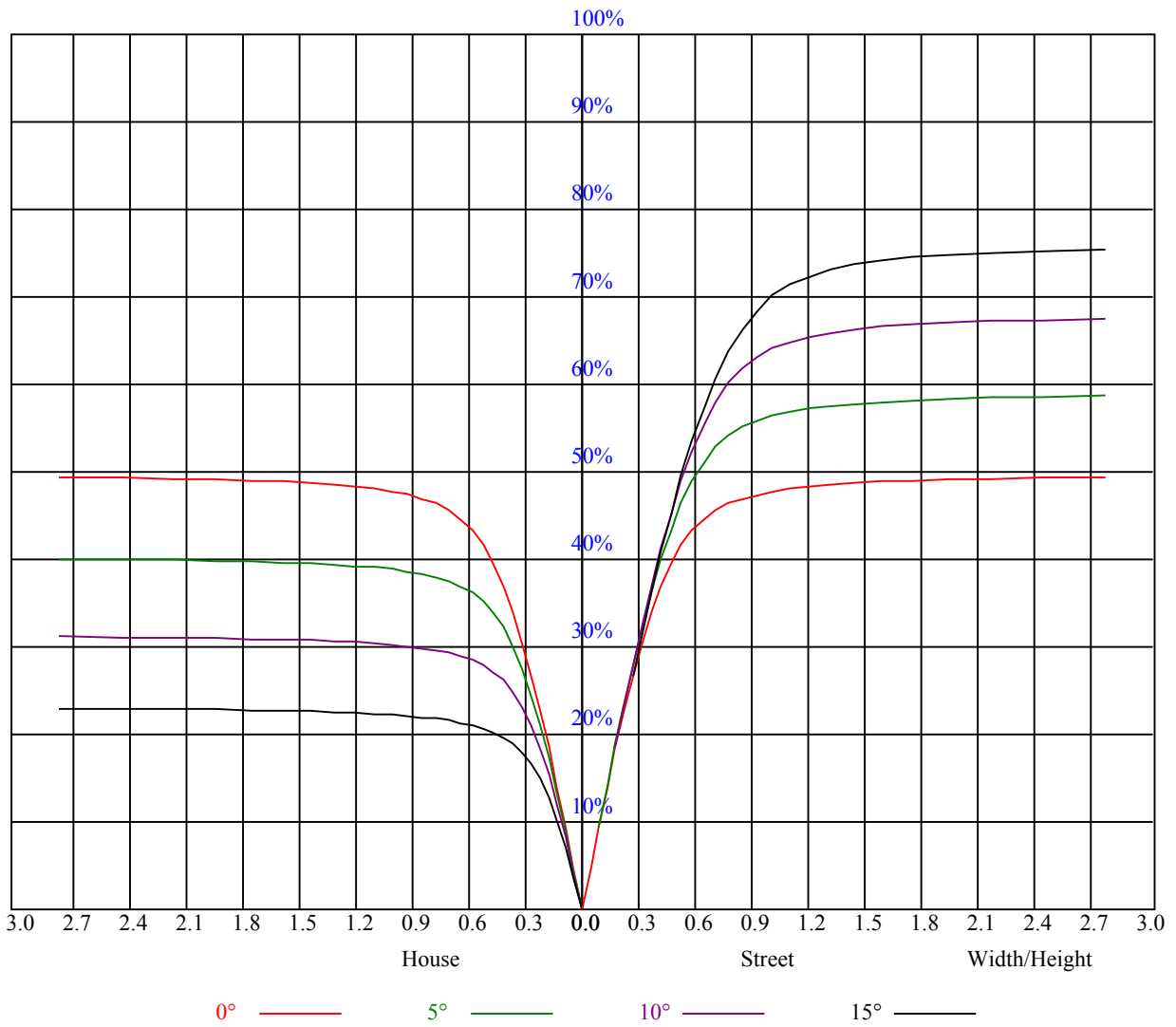
Luminance Limiting Curve





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 RHOF=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.07	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.92
2	1.02	0.98	0.94	1.00	0.97	0.93	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.85
3	0.95	0.90	0.86	0.94	0.89	0.85	0.91	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.79
4	0.89	0.83	0.79	0.88	0.82	0.78	0.85	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.74
5	0.83	0.77	0.73	0.82	0.77	0.72	0.80	0.75	0.72	0.79	0.74	0.71	0.77	0.73	0.70	0.69
6	0.78	0.72	0.68	0.77	0.72	0.67	0.76	0.71	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.64
7	0.74	0.67	0.63	0.73	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.60
8	0.69	0.63	0.59	0.69	0.63	0.59	0.68	0.62	0.59	0.67	0.62	0.59	0.66	0.61	0.58	0.57
9	0.66	0.60	0.56	0.65	0.59	0.56	0.64	0.59	0.55	0.63	0.59	0.55	0.62	0.58	0.55	0.54
10	0.62	0.56	0.53	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.51





## Intensity data(cd)

C/ $\gamma$ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	27524.52	28134.49	28102.80	28027.24	27943.56	27827.98	27681.94	27514.16	27276.11
22.5	27524.52	27510.30	27478.41	27412.60	27309.62	27202.78	27051.46	26868.85	26645.42
45.0	27524.52	27509.29	27462.97	27409.76	27323.03	27205.83	27071.36	26876.78	26684.01
67.5	27524.52	27514.77	27474.76	27413.82	27312.67	27186.53	27064.66	26903.18	26700.06
90.0	27524.52	27521.47	27487.96	27397.37	27309.01	27206.44	27076.44	26895.46	26710.42
112.5	27524.52	27514.77	27474.76	27413.82	27312.67	27186.53	27064.66	26903.18	26700.06
135.0	27524.52	27509.29	27462.97	27409.76	27323.03	27205.83	27071.36	26876.78	26684.01
157.5	27524.52	27510.30	27478.41	27412.60	27309.62	27202.78	27051.46	26868.85	26645.42
180.0	27524.52	28134.49	28102.80	28027.24	27943.56	27827.98	27681.94	27514.16	27276.11
202.5	27524.52	27510.30	27478.41	27412.60	27309.62	27202.78	27051.46	26868.85	26645.42
225.0	27524.52	27509.29	27462.97	27409.76	27323.03	27205.83	27071.36	26876.78	26684.01
247.5	27524.52	27514.77	27474.76	27413.82	27312.67	27186.53	27064.66	26903.18	26700.06
270.0	27524.52	27521.47	27487.96	27397.37	27309.01	27206.44	27076.44	26895.46	26710.42
292.5	27524.52	27514.77	27474.76	27413.82	27312.67	27186.53	27064.66	26903.18	26700.06
315.0	27524.52	27509.29	27462.97	27409.76	27323.03	27205.83	27071.36	26876.78	26684.01
337.5	27524.52	27510.30	27478.41	27412.60	27309.62	27202.78	27051.46	26868.85	26645.42
360.0	27524.52	28134.49	28102.80	28027.24	27943.56	27827.98	27681.94	27514.16	27276.11
C/ $\gamma$ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	27049.22	26788.62	26454.49	26127.46	25696.24	25289.60	24814.30	24335.14	23763.76
22.5	26430.31	26164.43	25864.83	25530.50	25115.12	24717.61	24267.09	23781.23	23174.51
45.0	26482.32	26196.32	25872.96	25556.29	25189.05	24797.64	24337.58	23808.86	23277.09
67.5	26484.75	26208.31	25922.52	25584.93	25222.97	24842.33	24424.92	23875.68	23325.63
90.0	26490.03	26274.52	25950.35	25648.51	25263.39	24842.73	24426.13	23925.24	23420.09
112.5	25289.39	26208.31	25922.52	25584.93	25222.97	24842.33	24424.92	23875.68	23325.63
135.0	25798.21	26196.32	25872.96	25556.29	25189.05	24797.64	24337.58	23808.86	23277.09
157.5	26303.16	26164.43	25864.83	25530.50	25115.12	24717.61	24267.09	23781.23	23174.51
180.0	27049.22	26788.62	26454.49	26127.46	25696.24	25289.60	24814.30	24335.14	23763.76
202.5	26430.31	26164.43	25864.83	25530.50	25115.12	24717.61	24267.09	23781.23	23174.51
225.0	26482.32	26196.32	25872.96	25556.29	25189.05	24797.64	24337.58	23808.86	23277.09
247.5	26484.75	26208.31	25922.52	25584.93	25222.97	24842.33	24424.92	23875.68	23325.63
270.0	26490.03	26274.52	25950.35	25648.51	25263.39	24842.73	24426.13	23925.24	23420.09
292.5	27554.79	26208.31	25922.52	25584.93	25222.97	24842.33	24424.92	23875.68	23325.63
315.0	27055.52	26196.32	25872.96	25556.29	25189.05	24797.64	24337.58	23808.86	23277.09
337.5	26465.86	26164.43	25864.83	25530.50	25115.12	24717.61	24267.09	23781.23	23174.51
360.0	27049.22	26788.62	26454.49	26127.46	25696.24	25289.60	24814.30	24335.14	23763.76
C/ $\gamma$ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	23195.64	22484.31	21820.11	20975.95	20197.19	19361.35	18386.38	17336.86	16297.70
22.5	22595.83	21963.72	21316.99	20522.99	19733.26	18914.29	17914.73	16961.49	15819.96
45.0	22725.42	22102.25	21402.70	20618.46	19856.15	18996.55	18078.45	17004.96	15971.90
67.5	22800.16	22156.68	21397.42	20693.41	19931.91	18994.11	18065.86	17095.76	16054.57
90.0	22778.84	22231.23	21465.87	20824.83	19945.73	19114.56	18043.51	17064.88	15943.05
112.5	22800.16	22156.68	21397.42	20693.41	19931.91	18994.11	18065.86	17095.76	16054.57
135.0	22725.42	22102.25	21402.70	20618.46	19856.15	18996.55	18078.45	17004.96	15971.90
157.5	22595.83	21963.72	21316.99	20522.99	19733.26	18914.29	17914.73	16961.49	15819.96
180.0	23195.64	22484.31	21820.11	20975.95	20197.19	19361.35	18386.38	17336.86	16297.70
202.5	22595.83	21963.72	21316.99	20522.99	19733.26	18914.29	17914.73	16961.49	15819.96
225.0	22725.42	22102.25	21402.70	20618.46	19856.15	18996.55	18078.45	17004.96	15971.90
247.5	22800.16	22156.68	21397.42	20693.41	19931.91	18994.11	18065.86	17095.76	16054.57
270.0	22778.84	22231.23	21465.87	20824.83	19945.73	19114.56	18043.51	17064.88	15943.05
292.5	22800.16	22156.68	21397.42	20693.41	19931.91	18994.11	18065.86	17095.76	16054.57
315.0	22725.42	22102.25	21402.70	20618.46	19856.15	18996.55	18078.45	17004.96	15971.90
337.5	22595.83	21963.72	21316.99	20522.99	19733.26	18914.29	17914.73	16961.49	15819.96
360.0	23195.64	22484.31	21820.11	20975.95	20197.19	19361.35	18386.38	17336.86	16297.70

## 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	15101.93	13835.89	12507.29	11362.71	9899.44	8670.97	7532.69	6377.75	5520.38
22.5	14733.07	13485.31	12237.75	10968.45	9747.30	8418.09	7323.47	6219.11	5387.95
45.0	14766.79	13565.13	12236.12	10945.50	9638.02	8376.65	7334.44	6253.85	5369.26
67.5	14734.90	13475.96	12254.20	11121.00	9573.43	8330.54	7262.34	6312.14	5392.01
90.0	14824.07	13528.57	12224.75	10980.84	9642.69	8482.07	7247.51	6298.33	5358.29
112.5	14734.90	13475.96	12254.20	11121.00	9573.43	8330.54	7262.34	6312.14	5392.01
135.0	14766.79	13565.13	12236.12	10945.50	9638.02	8376.65	7334.44	6253.85	5369.26
157.5	14733.07	13485.31	12237.75	10968.45	9747.30	8418.09	7323.47	6219.11	5387.95
180.0	15101.93	13835.89	12507.29	11362.71	9899.44	8670.97	7532.69	6377.75	5520.38
202.5	14733.07	13485.31	12237.75	10968.45	9747.30	8418.09	7323.47	6219.11	5387.95
225.0	14766.79	13565.13	12236.12	10945.50	9638.02	8376.65	7334.44	6253.85	5369.26
247.5	14734.90	13475.96	12254.20	11121.00	9573.43	8330.54	7262.34	6312.14	5392.01
270.0	14824.07	13528.57	12224.75	10980.84	9642.69	8482.07	7247.51	6298.33	5358.29
292.5	14734.90	13475.96	12254.20	11121.00	9573.43	8330.54	7262.34	6312.14	5392.01
315.0	14766.79	13565.13	12236.12	10945.50	9638.02	8376.65	7334.44	6253.85	5369.26
337.5	14733.07	13485.31	12237.75	10968.45	9747.30	8418.09	7323.47	6219.11	5387.95
360.0	15101.93	13835.89	12507.29	11362.71	9899.44	8670.97	7532.69	6377.75	5520.38
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	4613.45	4160.50	3636.86	3229.40	2882.67	2559.92	2269.66	2032.41	1842.90
22.5	4391.65	4030.91	3519.05	3114.23	2781.52	2473.39	2208.52	1990.37	1804.51
45.0	4385.96	4047.16	3561.70	3164.20	2813.00	2515.43	2240.41	2026.52	1815.28
67.5	4414.19	4088.59	3610.45	3168.87	2805.49	2517.67	2248.33	2006.21	1804.92
90.0	4423.54	4067.88	3593.79	3162.77	2825.19	2512.39	2264.38	2030.38	1841.48
112.5	4414.19	4088.59	3610.45	3168.87	2805.49	2517.67	2248.33	2006.21	1804.92
135.0	4385.96	4047.16	3561.70	3164.20	2813.00	2515.43	2240.41	2026.52	1815.28
157.5	4391.65	4030.91	3519.05	3114.23	2781.52	2473.39	2208.52	1990.37	1804.51
180.0	4613.45	4160.50	3636.86	3229.40	2882.67	2559.92	2269.66	2032.41	1842.90
202.5	4391.65	4030.91	3519.05	3114.23	2781.52	2473.39	2208.52	1990.37	1804.51
225.0	4385.96	4047.16	3561.70	3164.20	2813.00	2515.43	2240.41	2026.52	1815.28
247.5	4414.19	4088.59	3610.45	3168.87	2805.49	2517.67	2248.33	2006.21	1804.92
270.0	4423.54	4067.88	3593.79	3162.77	2825.19	2512.39	2264.38	2030.38	1841.48
292.5	4414.19	4088.59	3610.45	3168.87	2805.49	2517.67	2248.33	2006.21	1804.92
315.0	4385.96	4047.16	3561.70	3164.20	2813.00	2515.43	2240.41	2026.52	1815.28
337.5	4391.65	4030.91	3519.05	3114.23	2781.52	2473.39	2208.52	1990.37	1804.51
360.0	4613.45	4160.50	3636.86	3229.40	2882.67	2559.92	2269.66	2032.41	1842.90
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	1662.13	1489.68	1370.24	1237.20	1136.25	1037.53	976.40	876.87	812.68
22.5	1606.47	1459.01	1332.46	1219.73	1099.08	1024.74	942.07	857.77	792.57
45.0	1638.77	1494.35	1354.81	1228.06	1124.67	1045.05	964.61	870.37	806.99
67.5	1640.60	1488.26	1344.04	1229.69	1128.33	1040.38	962.79	870.37	806.38
90.0	1647.50	1477.49	1350.54	1245.33	1126.91	1041.80	968.88	869.55	805.57
112.5	1640.60	1488.26	1344.04	1229.69	1128.33	1040.38	962.79	870.37	806.38
135.0	1638.77	1494.35	1354.81	1228.06	1124.67	1045.05	964.61	870.37	806.99
157.5	1606.47	1459.01	1332.46	1219.73	1099.08	1024.74	942.07	857.77	792.57
180.0	1662.13	1489.68	1370.24	1237.20	1136.25	1037.53	976.40	876.87	812.68
202.5	1606.47	1459.01	1332.46	1219.73	1099.08	1024.74	942.07	857.77	792.57
225.0	1638.77	1494.35	1354.81	1228.06	1124.67	1045.05	964.61	870.37	806.99
247.5	1640.60	1488.26	1344.04	1229.69	1128.33	1040.38	962.79	870.37	806.38
270.0	1647.50	1477.49	1350.54	1245.33	1126.91	1041.80	968.88	869.55	805.57
292.5	1640.60	1488.26	1344.04	1229.69	1128.33	1040.38	962.79	870.37	806.38
315.0	1638.77	1494.35	1354.81	1228.06	1124.67	1045.05	964.61	870.37	806.99
337.5	1606.47	1459.01	1332.46	1219.73	1099.08	1024.74	942.07	857.77	792.57
360.0	1662.13	1489.68	1370.24	1237.20	1136.25	1037.53	976.40	876.87	812.68

## Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	750.32	699.54	646.94	604.28	568.53	534.20	497.85	461.28	432.64
22.5	727.78	678.42	634.34	589.45	549.64	517.95	484.44	452.14	425.94
45.0	749.71	691.83	644.30	599.81	559.39	521.00	484.44	453.36	423.30
67.5	733.06	684.51	635.15	594.94	554.72	520.39	486.27	452.55	426.55
90.0	743.42	692.43	643.28	602.66	557.97	522.63	486.07	455.80	424.72
112.5	733.06	684.51	635.15	594.94	554.72	520.39	486.27	452.55	426.55
135.0	749.71	691.83	644.30	599.81	559.39	521.00	484.44	453.36	423.30
157.5	727.78	678.42	634.34	589.45	549.64	517.95	484.44	452.14	425.94
180.0	750.32	699.54	646.94	604.28	568.53	534.20	497.85	461.28	432.64
202.5	727.78	678.42	634.34	589.45	549.64	517.95	484.44	452.14	425.94
225.0	749.71	691.83	644.30	599.81	559.39	521.00	484.44	453.36	423.30
247.5	733.06	684.51	635.15	594.94	554.72	520.39	486.27	452.55	426.55
270.0	743.42	692.43	643.28	602.66	557.97	522.63	486.07	455.80	424.72
292.5	733.06	684.51	635.15	594.94	554.72	520.39	486.27	452.55	426.55
315.0	749.71	691.83	644.30	599.81	559.39	521.00	484.44	453.36	423.30
337.5	727.78	678.42	634.34	589.45	549.64	517.95	484.44	452.14	425.94
360.0	750.32	699.54	646.94	604.28	568.53	534.20	497.85	461.28	432.64
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	401.97	378.41	356.27	334.54	314.02	296.15	276.85	261.01	244.76
22.5	399.54	376.58	354.24	333.93	316.26	295.13	278.88	262.63	245.57
45.0	393.44	367.65	346.12	323.16	300.41	282.34	265.07	248.01	232.98
67.5	400.55	376.79	353.22	333.32	312.40	293.30	276.65	260.40	243.54
90.0	398.32	372.93	351.40	327.63	310.16	290.87	271.98	256.34	239.68
112.5	400.55	376.79	353.22	333.32	312.40	293.30	276.65	260.40	243.54
135.0	393.44	367.65	346.12	323.16	300.41	282.34	265.07	248.01	232.98
157.5	399.54	376.58	354.24	333.93	316.26	295.13	278.88	262.63	245.57
180.0	401.97	378.41	356.27	334.54	314.02	296.15	276.85	261.01	244.76
202.5	399.54	376.58	354.24	333.93	316.26	295.13	278.88	262.63	245.57
225.0	393.44	367.65	346.12	323.16	300.41	282.34	265.07	248.01	232.98
247.5	400.55	376.79	353.22	333.32	312.40	293.30	276.65	260.40	243.54
270.0	398.32	372.93	351.40	327.63	310.16	290.87	271.98	256.34	239.68
292.5	400.55	376.79	353.22	333.32	312.40	293.30	276.65	260.40	243.54
315.0	393.44	367.65	346.12	323.16	300.41	282.34	265.07	248.01	232.98
337.5	399.54	376.58	354.24	333.93	316.26	295.13	278.88	262.63	245.57
360.0	401.97	378.41	356.27	334.54	314.02	296.15	276.85	261.01	244.76
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	230.74	216.53	203.73	190.32	177.53	168.39	169.00	163.92	149.09
22.5	227.70	212.67	197.64	183.01	169.20	158.23	149.70	144.42	137.72
45.0	217.54	204.34	190.93	178.54	169.40	158.43	147.26	141.37	137.31
67.5	226.48	211.85	196.42	184.03	171.64	161.07	150.31	145.43	147.06
90.0	225.87	213.48	199.26	188.90	178.95	169.20	157.82	155.79	156.00
112.5	226.48	211.85	196.42	184.03	171.64	161.07	150.31	145.43	147.06
135.0	217.54	204.34	190.93	178.54	169.40	158.43	147.26	141.37	137.31
157.5	227.70	212.67	197.64	183.01	169.20	158.23	149.70	144.42	137.72
180.0	230.74	216.53	203.73	190.32	177.53	168.39	169.00	163.92	149.09
202.5	227.70	212.67	197.64	183.01	169.20	158.23	149.70	144.42	137.72
225.0	217.54	204.34	190.93	178.54	169.40	158.43	147.26	141.37	137.31
247.5	226.48	211.85	196.42	184.03	171.64	161.07	150.31	145.43	147.06
270.0	225.87	213.48	199.26	188.90	178.95	169.20	157.82	155.79	156.00
292.5	226.48	211.85	196.42	184.03	171.64	161.07	150.31	145.43	147.06
315.0	217.54	204.34	190.93	178.54	169.40	158.43	147.26	141.37	137.31
337.5	227.70	212.67	197.64	183.01	169.20	158.23	149.70	144.42	137.72
360.0	230.74	216.53	203.73	190.32	177.53	168.39	169.00	163.92	149.09

## 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	135.89	126.95	120.45	111.11	101.36	88.56	75.15	57.48	38.59
22.5	136.29	128.57	122.68	114.76	104.81	92.62	77.79	57.08	40.62
45.0	133.04	126.34	120.04	112.33	99.73	85.92	69.47	50.17	39.61
67.5	142.79	136.50	128.37	119.64	108.87	94.04	70.89	53.01	45.09
90.0	151.73	143.81	132.64	118.42	103.79	88.76	64.80	50.78	43.67
112.5	142.79	136.50	128.37	119.64	108.87	94.04	70.89	53.01	45.09
135.0	133.04	126.34	120.04	112.33	99.73	85.92	69.47	50.17	39.61
157.5	136.29	128.57	122.68	114.76	104.81	92.62	77.79	57.08	40.62
180.0	135.89	126.95	120.45	111.11	101.36	88.56	75.15	57.48	38.59
202.5	136.29	128.57	122.68	114.76	104.81	92.62	77.79	57.08	40.62
225.0	133.04	126.34	120.04	112.33	99.73	85.92	69.47	50.17	39.61
247.5	142.79	136.50	128.37	119.64	108.87	94.04	70.89	53.01	45.09
270.0	151.73	143.81	132.64	118.42	103.79	88.76	64.80	50.78	43.67
292.5	142.79	136.50	128.37	119.64	108.87	94.04	70.89	53.01	45.09
315.0	133.04	126.34	120.04	112.33	99.73	85.92	69.47	50.17	39.61
337.5	136.29	128.57	122.68	114.76	104.81	92.62	77.79	57.08	40.62
360.0	135.89	126.95	120.45	111.11	101.36	88.56	75.15	57.48	38.59
C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	28.23	26.00	26.20	26.61	26.20	23.97	21.94	19.91	18.08
22.5	31.69	26.41	26.41	26.81	26.61	25.59	23.16	20.72	18.48
45.0	32.70	27.42	25.39	25.19	24.58	23.16	21.94	19.91	17.87
67.5	37.37	30.87	27.42	27.01	26.00	24.58	22.75	20.31	18.48
90.0	37.37	31.48	27.42	26.20	24.78	23.76	22.14	20.31	18.28
112.5	37.37	30.87	27.42	27.01	26.00	24.58	22.75	20.31	18.48
135.0	32.70	27.42	25.39	25.19	24.58	23.16	21.94	19.91	17.87
157.5	31.69	26.41	26.41	26.81	26.61	25.59	23.16	20.72	18.48
180.0	28.23	26.00	26.20	26.61	26.20	23.97	21.94	19.91	18.08
202.5	31.69	26.41	26.41	26.81	26.61	25.59	23.16	20.72	18.48
225.0	32.70	27.42	25.39	25.19	24.58	23.16	21.94	19.91	17.87
247.5	37.37	30.87	27.42	27.01	26.00	24.58	22.75	20.31	18.48
270.0	37.37	31.48	27.42	26.20	24.78	23.76	22.14	20.31	18.28
292.5	37.37	30.87	27.42	27.01	26.00	24.58	22.75	20.31	18.48
315.0	32.70	27.42	25.39	25.19	24.58	23.16	21.94	19.91	17.87
337.5	31.69	26.41	26.41	26.81	26.61	25.59	23.16	20.72	18.48
360.0	28.23	26.00	26.20	26.61	26.20	23.97	21.94	19.91	18.08
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	16.25	14.62	13.41	12.19	10.77	9.95	9.34	8.73	8.12
22.5	16.66	14.62	12.80	11.78	10.56	9.95	9.14	8.53	8.12
45.0	16.05	14.22	12.80	11.58	10.36	9.55	8.94	8.33	7.92
67.5	16.45	14.62	13.00	11.78	10.77	9.95	9.14	8.53	8.12
90.0	16.45	14.83	13.20	11.98	10.97	10.16	9.34	8.73	8.33
112.5	16.45	14.62	13.00	11.78	10.77	9.95	9.14	8.53	8.12
135.0	16.05	14.22	12.80	11.58	10.36	9.55	8.94	8.33	7.92
157.5	16.66	14.62	12.80	11.78	10.56	9.95	9.14	8.53	8.12
180.0	16.25	14.62	13.41	12.19	10.77	9.95	9.34	8.73	8.12
202.5	16.66	14.62	12.80	11.78	10.56	9.95	9.14	8.53	8.12
225.0	16.05	14.22	12.80	11.58	10.36	9.55	8.94	8.33	7.92
247.5	16.45	14.62	13.00	11.78	10.77	9.95	9.14	8.53	8.12
270.0	16.45	14.83	13.20	11.98	10.97	10.16	9.34	8.73	8.33
292.5	16.45	14.62	13.00	11.78	10.77	9.95	9.14	8.53	8.12
315.0	16.05	14.22	12.80	11.58	10.36	9.55	8.94	8.33	7.92
337.5	16.66	14.62	12.80	11.78	10.56	9.95	9.14	8.53	8.12
360.0	16.25	14.62	13.41	12.19	10.77	9.95	9.34	8.73	8.12

## Intensity data(cd)

C/ $\gamma$ (°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	7.72	7.31	7.11	6.91	6.70	6.50	6.30	6.09	5.89
22.5	7.52	7.31	6.91	6.70	6.50	6.30	6.09	6.09	5.89
45.0	7.52	7.11	6.91	6.70	6.50	6.30	6.09	5.89	5.69
67.5	7.72	7.31	6.91	6.70	6.50	6.30	6.09	5.89	5.89
90.0	7.72	7.31	7.31	6.91	6.70	6.30	6.30	6.09	6.09
112.5	7.72	7.31	6.91	6.70	6.50	6.30	6.09	5.89	5.89
135.0	7.52	7.11	6.91	6.70	6.50	6.30	6.09	5.89	5.69
157.5	7.52	7.31	6.91	6.70	6.50	6.30	6.09	6.09	5.89
180.0	7.72	7.31	7.11	6.91	6.70	6.50	6.30	6.09	5.89
202.5	7.52	7.31	6.91	6.70	6.50	6.30	6.09	6.09	5.89
225.0	7.52	7.11	6.91	6.70	6.50	6.30	6.09	5.89	5.69
247.5	7.72	7.31	6.91	6.70	6.50	6.30	6.09	5.89	5.89
270.0	7.72	7.31	7.31	6.91	6.70	6.30	6.30	6.09	6.09
292.5	7.72	7.31	6.91	6.70	6.50	6.30	6.09	5.89	5.89
315.0	7.52	7.11	6.91	6.70	6.50	6.30	6.09	5.89	5.69
337.5	7.52	7.31	6.91	6.70	6.50	6.30	6.09	6.09	5.89
360.0	7.72	7.31	7.11	6.91	6.70	6.50	6.30	6.09	5.89
C/ $\gamma$ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	5.89	5.89	5.69	5.89	5.69	6.09	6.09	6.30	6.50
22.5	5.69	5.89	5.69	5.69	5.69	5.89	6.09	6.30	6.50
45.0	5.69	5.69	5.69	5.69	5.89	5.69	5.89	6.30	6.50
67.5	5.89	5.89	5.69	5.89	5.89	6.09	6.09	6.30	6.50
90.0	5.89	5.89	5.89	5.89	6.09	5.89	6.30	6.50	6.50
112.5	5.89	5.89	5.69	5.89	5.89	6.09	6.09	6.30	6.50
135.0	5.69	5.69	5.69	5.69	5.89	5.69	5.89	6.30	6.50
157.5	5.69	5.89	5.69	5.69	5.69	5.89	6.09	6.30	6.50
180.0	5.89	5.89	5.69	5.89	5.69	6.09	6.09	6.30	6.50
202.5	5.69	5.89	5.69	5.69	5.69	5.89	6.09	6.30	6.50
225.0	5.69	5.69	5.69	5.69	5.89	5.69	5.89	6.30	6.50
247.5	5.89	5.89	5.69	5.89	5.89	6.09	6.09	6.30	6.50
270.0	5.89	5.89	5.89	5.89	6.09	5.89	6.30	6.50	6.50
292.5	5.89	5.89	5.69	5.89	5.89	6.09	6.09	6.30	6.50
315.0	5.69	5.69	5.69	5.69	5.89	5.69	5.89	6.30	6.50
337.5	5.69	5.89	5.69	5.69	5.69	5.89	6.09	6.30	6.50
360.0	5.89	5.89	5.69	5.89	5.69	6.09	6.09	6.30	6.50
C/ $\gamma$ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	6.70	7.11	7.52	7.92	8.33	8.94	9.34	9.95	10.56
22.5	6.70	6.91	7.31	7.92	8.12	8.53	9.14	9.75	10.36
45.0	6.70	6.91	7.52	7.72	8.33	8.73	9.34	9.75	10.56
67.5	6.70	7.11	7.31	7.72	8.33	8.73	9.14	9.75	10.36
90.0	6.91	7.11	7.52	7.92	8.33	8.94	9.34	9.95	10.36
112.5	6.70	7.11	7.31	7.72	8.33	8.73	9.14	9.75	10.36
135.0	6.70	6.91	7.52	7.72	8.33	8.73	9.34	9.75	10.56
157.5	6.70	6.91	7.31	7.92	8.12	8.53	9.14	9.75	10.36
180.0	6.70	7.11	7.52	7.92	8.33	8.94	9.34	9.95	10.56
202.5	6.70	6.91	7.31	7.92	8.12	8.53	9.14	9.75	10.36
225.0	6.70	6.91	7.52	7.72	8.33	8.73	9.34	9.75	10.56
247.5	6.70	7.11	7.31	7.72	8.33	8.73	9.14	9.75	10.36
270.0	6.91	7.11	7.52	7.92	8.33	8.94	9.34	9.95	10.36
292.5	6.70	7.11	7.31	7.72	8.33	8.73	9.14	9.75	10.36
315.0	6.70	6.91	7.52	7.72	8.33	8.73	9.34	9.75	10.56
337.5	6.70	6.91	7.31	7.92	8.12	8.53	9.14	9.75	10.36
360.0	6.70	7.11	7.52	7.92	8.33	8.94	9.34	9.95	10.56

## Intensity data(cd)

C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	11.17	11.78	12.80	13.41	14.22	15.23	15.84	16.86	17.87
22.5	10.97	11.58	12.39	13.20	14.02	14.83	15.84	16.66	17.47
45.0	11.17	11.78	12.59	13.41	14.02	14.83	15.84	16.66	17.47
67.5	11.17	11.78	12.59	13.20	14.02	15.03	15.64	16.66	17.47
90.0	11.17	11.78	12.59	13.20	14.22	15.03	15.84	16.66	17.67
112.5	11.17	11.78	12.59	13.20	14.02	15.03	15.64	16.66	17.47
135.0	11.17	11.78	12.59	13.41	14.02	14.83	15.84	16.66	17.47
157.5	10.97	11.58	12.39	13.20	14.02	14.83	15.84	16.66	17.47
180.0	11.17	11.78	12.80	13.41	14.22	15.23	15.84	16.86	17.87
202.5	10.97	11.58	12.39	13.20	14.02	14.83	15.84	16.66	17.47
225.0	11.17	11.78	12.59	13.41	14.02	14.83	15.84	16.66	17.47
247.5	11.17	11.78	12.59	13.20	14.02	15.03	15.64	16.66	17.47
270.0	11.17	11.78	12.59	13.20	14.22	15.03	15.84	16.66	17.67
292.5	11.17	11.78	12.59	13.20	14.02	15.03	15.64	16.66	17.47
315.0	11.17	11.78	12.59	13.41	14.02	14.83	15.84	16.66	17.47
337.5	10.97	11.58	12.39	13.20	14.02	14.83	15.84	16.66	17.47
360.0	11.17	11.78	12.80	13.41	14.22	15.23	15.84	16.86	17.87
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	18.89	19.91	20.92	21.94	23.16	24.17	24.98	26.00	27.42
22.5	18.48	19.50	20.52	21.33	22.55	23.36	24.37	25.39	26.41
45.0	18.48	19.50	20.52	21.53	22.55	23.36	24.37	25.39	26.61
67.5	18.48	19.50	20.52	21.33	22.55	23.56	24.17	25.39	26.61
90.0	18.48	19.50	20.52	21.53	22.55	23.36	24.58	25.59	26.81
112.5	18.48	19.50	20.52	21.33	22.55	23.56	24.17	25.39	26.61
135.0	18.48	19.50	20.52	21.53	22.55	23.36	24.37	25.39	26.61
157.5	18.48	19.50	20.52	21.33	22.55	23.36	24.37	25.39	26.41
180.0	18.89	19.91	20.92	21.94	23.16	24.17	24.98	26.00	27.42
202.5	18.48	19.50	20.52	21.33	22.55	23.36	24.37	25.39	26.41
225.0	18.48	19.50	20.52	21.53	22.55	23.36	24.37	25.39	26.61
247.5	18.48	19.50	20.52	21.33	22.55	23.56	24.17	25.39	26.61
270.0	18.48	19.50	20.52	21.53	22.55	23.36	24.58	25.59	26.81
292.5	18.48	19.50	20.52	21.33	22.55	23.56	24.17	25.39	26.61
315.0	18.48	19.50	20.52	21.53	22.55	23.36	24.37	25.39	26.61
337.5	18.48	19.50	20.52	21.33	22.55	23.36	24.37	25.39	26.41
360.0	18.89	19.91	20.92	21.94	23.16	24.17	24.98	26.00	27.42
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	28.44	29.25	30.67	32.09	33.31	34.12	35.14	36.36	37.17
22.5	27.62	28.64	29.86	31.28	32.09	33.31	34.33	35.14	35.95
45.0	27.62	28.64	29.86	31.08	32.30	33.31	34.12	35.14	36.16
67.5	27.83	28.84	30.06	31.28	32.30	33.31	34.33	35.34	36.16
90.0	27.62	28.84	30.06	31.28	32.30	33.51	34.33	35.14	35.95
112.5	27.83	28.84	30.06	31.28	32.30	33.31	34.33	35.34	36.16
135.0	27.62	28.64	29.86	31.08	32.30	33.31	34.12	35.14	36.16
157.5	27.62	28.64	29.86	31.28	32.09	33.31	34.33	35.14	35.95
180.0	28.44	29.25	30.67	32.09	33.31	34.12	35.14	36.36	37.17
202.5	27.62	28.64	29.86	31.28	32.09	33.31	34.33	35.14	35.95
225.0	27.62	28.64	29.86	31.08	32.30	33.31	34.12	35.14	36.16
247.5	27.83	28.84	30.06	31.28	32.30	33.31	34.33	35.34	36.16
270.0	27.62	28.84	30.06	31.28	32.30	33.51	34.33	35.14	35.95
292.5	27.83	28.84	30.06	31.28	32.30	33.31	34.33	35.34	36.16
315.0	27.62	28.64	29.86	31.08	32.30	33.31	34.12	35.14	36.16
337.5	27.62	28.64	29.86	31.28	32.09	33.31	34.33	35.14	35.95
360.0	28.44	29.25	30.67	32.09	33.31	34.12	35.14	36.36	37.17

## Intensity data(cd)

C/ $\gamma$ (°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	37.98	38.80	39.61	40.22	40.83	41.64	42.25	42.66	43.26
22.5	36.76	37.58	38.39	39.00	39.61	40.42	41.03	41.23	41.84
45.0	36.97	37.58	38.39	39.00	39.81	40.42	40.83	41.44	41.84
67.5	36.76	37.78	38.39	39.20	39.81	40.42	41.03	41.44	41.84
90.0	37.17	37.98	38.39	39.20	40.01	40.42	40.83	41.44	42.05
112.5	36.76	37.78	38.39	39.20	39.81	40.42	41.03	41.44	41.84
135.0	36.97	37.58	38.39	39.00	39.81	40.42	40.83	41.44	41.84
157.5	36.76	37.58	38.39	39.00	39.61	40.42	41.03	41.23	41.84
180.0	37.98	38.80	39.61	40.22	40.83	41.64	42.25	42.66	43.26
202.5	36.76	37.58	38.39	39.00	39.61	40.42	41.03	41.23	41.84
225.0	36.97	37.58	38.39	39.00	39.81	40.42	40.83	41.44	41.84
247.5	36.76	37.78	38.39	39.20	39.81	40.42	41.03	41.44	41.84
270.0	37.17	37.98	38.39	39.20	40.01	40.42	40.83	41.44	42.05
292.5	36.76	37.78	38.39	39.20	39.81	40.42	41.03	41.44	41.84
315.0	36.97	37.58	38.39	39.00	39.81	40.42	40.83	41.44	41.84
337.5	36.76	37.58	38.39	39.00	39.61	40.42	41.03	41.23	41.84
360.0	37.98	38.80	39.61	40.22	40.83	41.64	42.25	42.66	43.26
C/ $\gamma$ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	43.47	44.28	44.69	44.89	45.30	46.31	46.72	47.12	47.94
22.5	42.25	42.66	43.26	43.67	44.08	44.89	45.30	45.70	46.31
45.0	42.25	42.86	43.26	43.67	44.08	44.89	45.50	45.91	46.31
67.5	42.25	42.66	43.26	43.67	44.08	44.69	45.30	45.91	46.31
90.0	42.25	42.66	43.47	43.67	44.08	44.69	45.50	45.91	46.51
112.5	42.25	42.66	43.26	43.67	44.08	44.69	45.30	45.91	46.31
135.0	42.25	42.86	43.26	43.67	44.08	44.89	45.50	45.91	46.31
157.5	42.25	42.66	43.26	43.67	44.08	44.89	45.30	45.70	46.31
180.0	43.47	44.28	44.69	44.89	45.30	46.31	46.72	47.12	47.94
202.5	42.25	42.66	43.26	43.67	44.08	44.89	45.30	45.70	46.31
225.0	42.25	42.86	43.26	43.67	44.08	44.89	45.50	45.91	46.31
247.5	42.25	42.66	43.26	43.67	44.08	44.69	45.30	45.91	46.31
270.0	42.25	42.66	43.47	43.67	44.08	44.69	45.50	45.91	46.51
292.5	42.25	42.66	43.26	43.67	44.08	44.69	45.30	45.91	46.31
315.0	42.25	42.86	43.26	43.67	44.08	44.89	45.50	45.91	46.31
337.5	42.25	42.66	43.26	43.67	44.08	44.89	45.30	45.70	46.31
360.0	43.47	44.28	44.69	44.89	45.30	46.31	46.72	47.12	47.94
C/ $\gamma$ (°)	180.0								
0.0	46.72								
22.5	46.72								
45.0	46.72								
67.5	46.72								
90.0	46.72								
112.5	46.72								
135.0	46.72								
157.5	46.72								
180.0	46.72								
202.5	46.72								
225.0	46.72								
247.5	46.72								
270.0	46.72								
292.5	46.72								
315.0	46.72								
337.5	46.72								
360.0	46.72								