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LumCAT: TY-BUS-120DW-3

Luminaire:

Report No:

Voltage(V): 220.0700

Test No:

Current(A): 0.5490

LampCAT:

Power (W): 119.6700

Lamp flux(lm)

PF: 0.9898

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 14382.31

Lumens(lm)/Power(W): 120.18

Central intensity(cd): 3303.904

Maximum intensity(cd): 5272.192

Angle of maximum intensity: C=90.0  $\gamma$ =42.0

Beam Angle(50%Imax): [C0/180]Total=142.1

[C90/270]Total=115.2

Field angle(10%Imax): [C0/180]Total=156.2

[C90/270]Total=136.8

Maximum s/h(1/2): C0\_180=1.82 C90\_270=2.12

Maximum s/h(1/4): C0\_180=1.97 C90\_270=2.00

Up flux rate of LUM(%): 0.38%

Down flux rate of LUM(%): 99.62%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 79.103%

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Equipment:  
Temperature(°C): 25.3

Date: 2018-11-13  
Humidity(%): 57.0%

Operator: Dick  
Distance(m): 14.75

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	3303.903	.000	.000	.000%	.000%	.000%
1.0	3321.935	3.170	3.170	.022%	.022%	.022%
2.0	3323.335	9.538	12.708	.066%	.088%	.088%
3.0	3325.565	15.902	28.610	.111%	.199%	.199%
4.0	3329.889	22.278	50.888	.155%	.354%	.354%
5.0	3332.922	28.663	79.551	.199%	.553%	.553%
6.0	3336.253	35.048	114.600	.244%	.797%	.797%
7.0	3341.869	41.451	156.051	.288%	1.085%	1.085%
8.0	3347.145	47.872	203.923	.333%	1.418%	1.418%
9.0	3354.324	54.312	258.234	.378%	1.796%	1.796%
10.0	3362.102	60.781	319.015	.423%	2.218%	2.218%
11.0	3373.034	67.298	386.313	.468%	2.686%	2.686%
12.0	3382.961	73.853	460.166	.513%	3.200%	3.200%
13.0	3395.172	80.439	540.605	.559%	3.759%	3.759%
14.0	3405.628	87.050	627.655	.605%	4.364%	4.364%
15.0	3418.967	93.691	721.346	.651%	5.016%	5.016%
16.0	3432.769	100.397	821.743	.698%	5.714%	5.714%
17.0	3449.086	107.169	928.912	.745%	6.459%	6.459%
18.0	3465.050	113.999	1042.911	.793%	7.251%	7.251%
19.0	3482.442	120.872	1163.783	.840%	8.092%	8.092%
20.0	3504.646	127.883	1291.666	.889%	8.981%	8.981%
21.0	3523.846	134.961	1426.628	.938%	9.919%	9.919%
22.0	3542.570	142.003	1568.630	.987%	10.907%	10.907%
23.0	3564.871	149.133	1717.764	1.037%	11.944%	11.944%
24.0	3589.496	156.420	1874.184	1.088%	13.031%	13.031%
25.0	3616.949	163.859	2038.043	1.139%	14.170%	14.170%
26.0	3638.108	171.256	2209.299	1.191%	15.361%	15.361%
27.0	3665.751	178.691	2387.990	1.242%	16.604%	16.604%
28.0	3689.248	186.213	2574.202	1.295%	17.898%	17.898%
29.0	3713.778	193.684	2767.886	1.347%	19.245%	19.245%
30.0	3737.519	201.184	2969.070	1.399%	20.644%	20.644%
31.0	3759.072	208.619	3177.689	1.451%	22.094%	22.094%
32.0	3777.307	215.908	3393.598	1.501%	23.596%	23.596%
33.0	3797.608	223.160	3616.758	1.552%	25.147%	25.147%
34.0	3812.592	230.307	3847.065	1.601%	26.749%	26.749%
35.0	3827.727	237.280	4084.345	1.650%	28.398%	28.398%
36.0	3838.089	244.081	4328.426	1.697%	30.095%	30.095%
37.0	3847.198	250.651	4579.077	1.743%	31.838%	31.838%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
38.0	3853.807	257.049	4836.126	1.787%	33.626%	33.626%
39.0	3855.874	263.153	5099.279	1.830%	35.455%	35.455%
40.0	3858.117	269.037	5368.315	1.871%	37.326%	37.326%
41.0	3857.764	274.759	5643.074	1.910%	39.236%	39.236%
42.0	3850.135	280.041	5923.116	1.947%	41.183%	41.183%
43.0	3845.974	285.086	6208.202	1.982%	43.166%	43.166%
44.0	3835.831	289.933	6498.135	2.016%	45.181%	45.181%
45.0	3825.768	294.444	6792.579	2.047%	47.229%	47.229%
46.0	3811.015	298.658	7091.237	2.077%	49.305%	49.305%
47.0	3792.591	302.415	7393.652	2.103%	51.408%	51.408%
48.0	3771.813	305.793	7699.445	2.126%	53.534%	53.534%
49.0	3745.039	308.684	8008.129	2.146%	55.680%	55.680%
50.0	3707.932	310.740	8318.868	2.161%	57.841%	57.841%
51.0	3666.867	312.017	8630.885	2.169%	60.010%	60.010%
52.0	3617.684	312.586	8943.471	2.173%	62.184%	62.184%
53.0	3565.632	312.474	9255.944	2.173%	64.356%	64.356%
54.0	3511.391	311.926	9567.870	2.169%	66.525%	66.525%
55.0	3452.363	310.850	9878.721	2.161%	68.687%	68.687%
56.0	3377.155	308.607	10187.330	2.146%	70.832%	70.832%
57.0	3298.193	305.212	10492.540	2.122%	72.955%	72.955%
58.0	3209.713	300.949	10793.490	2.092%	75.047%	75.047%
59.0	3106.153	295.271	11088.760	2.053%	77.100%	77.100%
60.0	2991.594	288.079	11376.840	2.003%	79.103%	79.103%
61.0	2865.095	279.493	11656.330	1.943%	81.046%	81.046%
62.0	2733.835	269.790	11926.120	1.876%	82.922%	82.922%
63.0	2576.416	258.265	12184.390	1.796%	84.718%	84.718%
64.0	2414.182	244.887	12429.270	1.703%	86.421%	86.421%
65.0	2235.319	230.100	12659.370	1.600%	88.020%	88.020%
66.0	2061.106	214.364	12873.740	1.490%	89.511%	89.511%
67.0	1883.738	198.358	13072.090	1.379%	90.890%	90.890%
68.0	1683.227	180.691	13252.780	1.256%	92.146%	92.146%
69.0	1495.851	162.181	13414.970	1.128%	93.274%	93.274%
70.0	1329.579	145.109	13560.070	1.009%	94.283%	94.283%
71.0	1195.017	130.485	13690.560	.907%	95.190%	95.190%
72.0	1011.353	114.725	13805.280	.798%	95.988%	95.988%
73.0	861.140	97.918	13903.200	.681%	96.669%	96.669%
74.0	738.774	84.111	13987.310	.585%	97.254%	97.254%
75.0	595.550	70.501	14057.810	.490%	97.744%	97.744%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
76.0	431.753	54.533	14112.350	.379%	98.123%	98.123%
77.0	324.114	40.299	14152.650	.280%	98.403%	98.403%
78.0	224.484	29.367	14182.010	.204%	98.607%	98.607%
79.0	180.128	21.740	14203.750	.151%	98.759%	98.759%
80.0	163.906	18.548	14222.300	.129%	98.887%	98.887%
81.0	147.671	16.850	14239.150	.117%	99.005%	99.005%
82.0	133.393	15.242	14254.390	.106%	99.111%	99.111%
83.0	119.959	13.773	14268.160	.096%	99.206%	99.206%
84.0	106.769	12.352	14280.520	.086%	99.292%	99.292%
85.0	94.857	11.004	14291.520	.077%	99.369%	99.369%
86.0	82.810	9.712	14301.230	.068%	99.436%	99.436%
87.0	71.660	8.454	14309.690	.059%	99.495%	99.495%
88.0	61.298	7.283	14316.970	.051%	99.546%	99.546%
89.0	49.142	6.053	14323.020	.042%	99.588%	99.588%
90.0	41.473	4.968	14327.990	.035%	99.622%	99.622%
91.0	34.892	4.187	14332.180	.029%	99.651%	99.651%
92.0	27.712	3.431	14335.610	.024%	99.675%	99.675%
93.0	21.947	2.720	14338.330	.019%	99.694%	99.694%
94.0	18.806	2.230	14340.560	.016%	99.710%	99.710%
95.0	16.834	1.948	14342.510	.014%	99.723%	99.723%
96.0	14.060	1.686	14344.190	.012%	99.735%	99.735%
97.0	12.415	1.442	14345.640	.010%	99.745%	99.745%
98.0	11.327	1.291	14346.930	.009%	99.754%	99.754%
99.0	10.361	1.176	14348.100	.008%	99.762%	99.762%
100.0	9.450	1.071	14349.170	.007%	99.770%	99.770%
101.0	8.770	.982	14350.160	.007%	99.776%	99.776%
102.0	8.091	.906	14351.060	.006%	99.783%	99.783%
103.0	7.547	.837	14351.900	.006%	99.789%	99.789%
104.0	7.057	.779	14352.680	.005%	99.794%	99.794%
105.0	6.704	.730	14353.410	.005%	99.799%	99.799%
106.0	6.309	.688	14354.100	.005%	99.804%	99.804%
107.0	5.983	.646	14354.740	.004%	99.808%	99.808%
108.0	5.711	.612	14355.350	.004%	99.813%	99.813%
109.0	5.493	.583	14355.940	.004%	99.817%	99.817%
110.0	5.385	.562	14356.500	.004%	99.821%	99.821%
111.0	5.330	.550	14357.050	.004%	99.824%	99.824%
112.0	5.235	.539	14357.590	.004%	99.828%	99.828%
113.0	5.194	.528	14358.120	.004%	99.832%	99.832%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
114.0	5.140	.520	14358.640	.004%	99.835%	99.835%
115.0	5.140	.513	14359.150	.004%	99.839%	99.839%
116.0	5.058	.505	14359.650	.004%	99.843%	99.843%
117.0	5.058	.496	14360.150	.003%	99.846%	99.846%
118.0	5.262	.502	14360.650	.003%	99.849%	99.849%
119.0	5.262	.507	14361.160	.004%	99.853%	99.853%
120.0	5.357	.507	14361.670	.004%	99.856%	99.856%
121.0	5.453	.511	14362.180	.004%	99.860%	99.860%
122.0	5.629	.518	14362.700	.004%	99.864%	99.864%
123.0	5.738	.526	14363.220	.004%	99.867%	99.867%
124.0	5.861	.530	14363.750	.004%	99.871%	99.871%
125.0	5.997	.536	14364.290	.004%	99.875%	99.875%
126.0	6.078	.539	14364.830	.004%	99.878%	99.878%
127.0	6.228	.542	14365.370	.004%	99.882%	99.882%
128.0	6.364	.548	14365.920	.004%	99.886%	99.886%
129.0	6.486	.551	14366.470	.004%	99.890%	99.890%
130.0	6.540	.551	14367.020	.004%	99.894%	99.894%
131.0	6.608	.548	14367.570	.004%	99.898%	99.898%
132.0	6.731	.548	14368.110	.004%	99.901%	99.901%
133.0	6.785	.546	14368.660	.004%	99.905%	99.905%
134.0	6.867	.543	14369.200	.004%	99.909%	99.909%
135.0	6.867	.537	14369.740	.004%	99.913%	99.913%
136.0	6.921	.530	14370.270	.004%	99.916%	99.916%
137.0	6.948	.523	14370.790	.004%	99.920%	99.920%
138.0	6.976	.516	14371.310	.004%	99.924%	99.924%
139.0	6.989	.507	14371.820	.004%	99.927%	99.927%
140.0	7.016	.499	14372.320	.003%	99.931%	99.931%
141.0	6.976	.488	14372.810	.003%	99.934%	99.934%
142.0	7.016	.478	14373.280	.003%	99.937%	99.937%
143.0	7.003	.468	14373.750	.003%	99.941%	99.941%
144.0	7.016	.457	14374.210	.003%	99.944%	99.944%
145.0	6.976	.446	14374.650	.003%	99.947%	99.947%
146.0	6.989	.434	14375.090	.003%	99.950%	99.950%
147.0	6.976	.423	14375.510	.003%	99.953%	99.953%
148.0	6.989	.411	14375.920	.003%	99.956%	99.956%
149.0	6.948	.399	14376.320	.003%	99.958%	99.958%
150.0	6.935	.386	14376.710	.003%	99.961%	99.961%
151.0	6.989	.376	14377.080	.003%	99.964%	99.964%

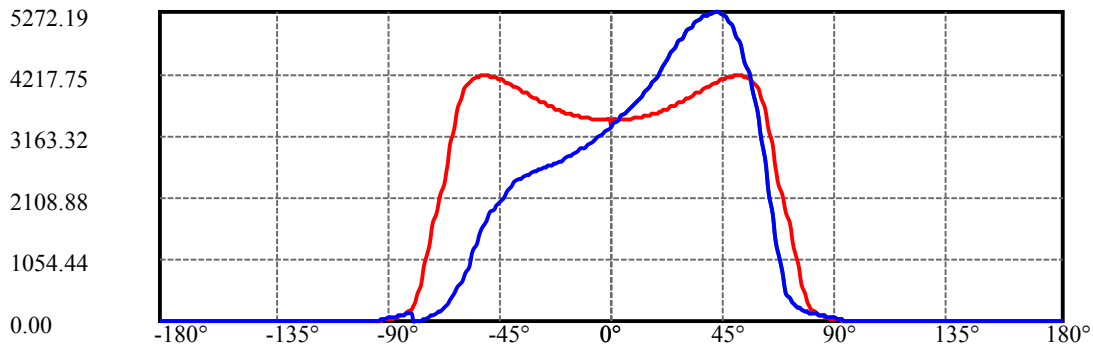
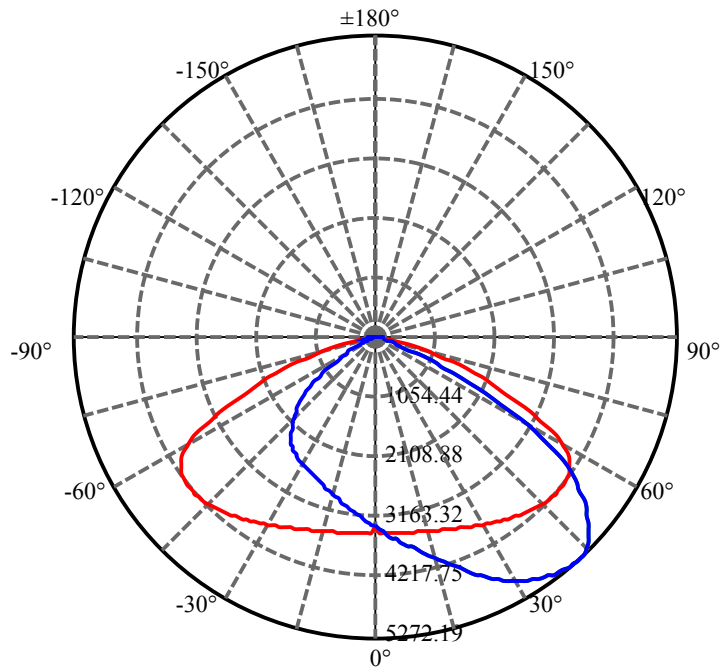
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
152.0	6.935	.364	14377.450	.003%	99.966%	99.966%
153.0	6.962	.352	14377.800	.002%	99.969%	99.969%
154.0	6.826	.337	14378.140	.002%	99.971%	99.971%
155.0	6.908	.324	14378.460	.002%	99.973%	99.973%
156.0	6.840	.313	14378.770	.002%	99.975%	99.975%
157.0	6.772	.298	14379.070	.002%	99.978%	99.978%
158.0	6.649	.282	14379.350	.002%	99.979%	99.979%
159.0	6.704	.268	14379.620	.002%	99.981%	99.981%
160.0	6.649	.256	14379.880	.002%	99.983%	99.983%
161.0	6.595	.242	14380.120	.002%	99.985%	99.985%
162.0	6.527	.228	14380.350	.002%	99.986%	99.986%
163.0	6.500	.215	14380.560	.001%	99.988%	99.988%
164.0	6.432	.201	14380.760	.001%	99.989%	99.989%
165.0	6.432	.188	14380.950	.001%	99.991%	99.991%
166.0	6.404	.176	14381.130	.001%	99.992%	99.992%
167.0	6.323	.163	14381.290	.001%	99.993%	99.993%
168.0	6.241	.149	14381.440	.001%	99.994%	99.994%
169.0	6.255	.137	14381.580	.001%	99.995%	99.995%
170.0	6.201	.124	14381.700	.001%	99.996%	99.996%
171.0	6.146	.112	14381.810	.001%	99.997%	99.997%
172.0	6.146	.100	14381.910	.001%	99.997%	99.997%
173.0	6.146	.088	14382.000	.001%	99.998%	99.998%
174.0	6.119	.076	14382.080	.001%	99.998%	99.998%
175.0	6.187	.065	14382.140	.000%	99.999%	99.999%
176.0	6.160	.053	14382.190	.000%	99.999%	99.999%
177.0	6.228	.041	14382.230	.000%	100.000%	100.000%
178.0	6.282	.030	14382.260	.000%	100.000%	100.000%
179.0	6.309	.018	14382.280	.000%	100.000%	100.000%
180.0	6.309	.006	14382.290	.000%	100.000%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	2969.07	20.64%
0-40	5368.32	37.33%
0-60	11376.84	79.10%
0-90	14327.99	99.62%
0-120	14361.67	99.86%
0-180	14382.29	100.00%
60-90	3239.23	22.52%
90-120	38.64	0.27%
90-130	44.00	0.31%
90-150	53.68	0.37%
90-180	59.26	0.41%
0-60.46	11505.83	80.00%

## ZONAL LUMEN SUMMARY

0-10	319.02
10-20	972.65
20-30	1677.40
30-40	2399.25
40-50	2950.55
50-60	3057.97
60-70	2183.24
70-80	662.23
80-90	105.69
90-100	21.18
100-110	7.32
110-120	5.17
120-130	5.35
130-140	5.30
140-150	4.39
150-160	3.17
160-170	1.82
170-180	0.58

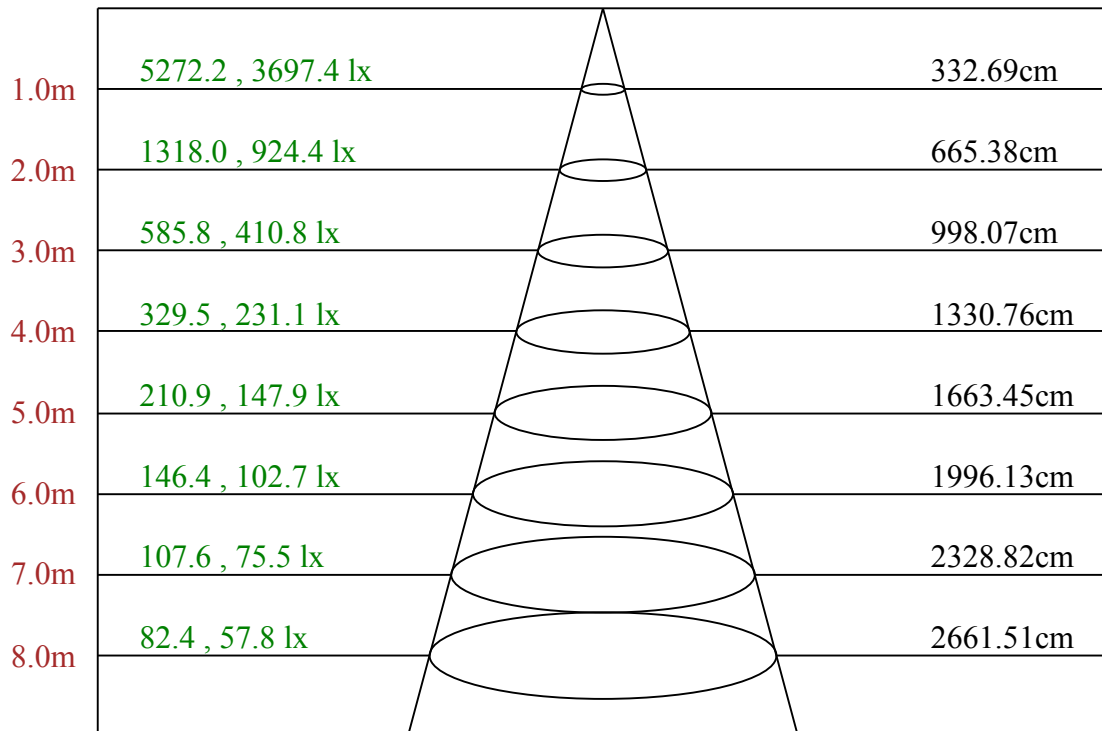


C90(Max): ———  
 C0/C180: ———  
 C90/C270: ———

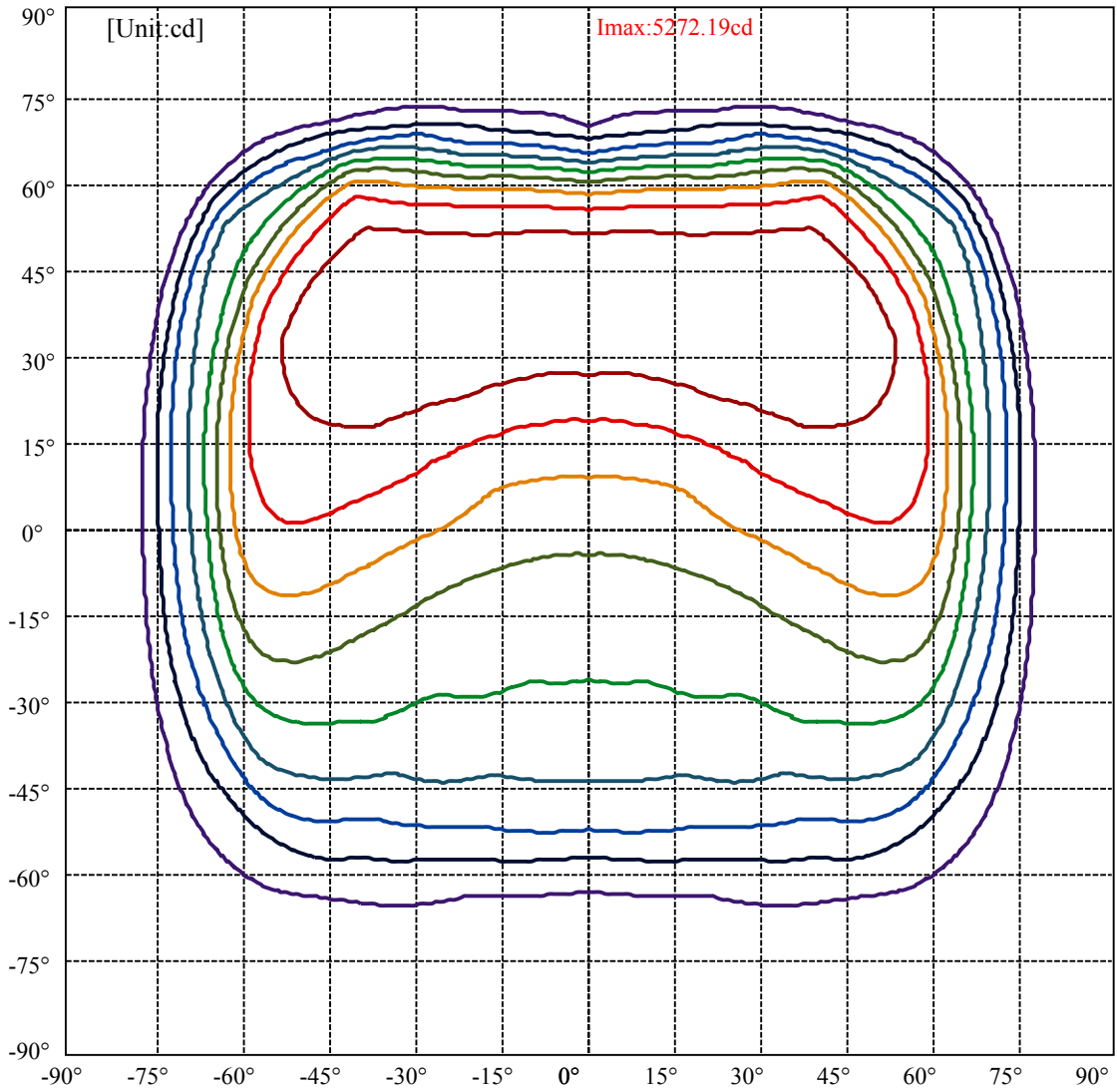
Field angle(10%Imax):C0/180Left:78.1 Right:78.1  
 :C90/270Left:64.6 Right:72.1










Beam Angle(50%Imax):C0/180Left:71.1 Right:71.1  
 :C90/270Left:50.6 Right:64.6

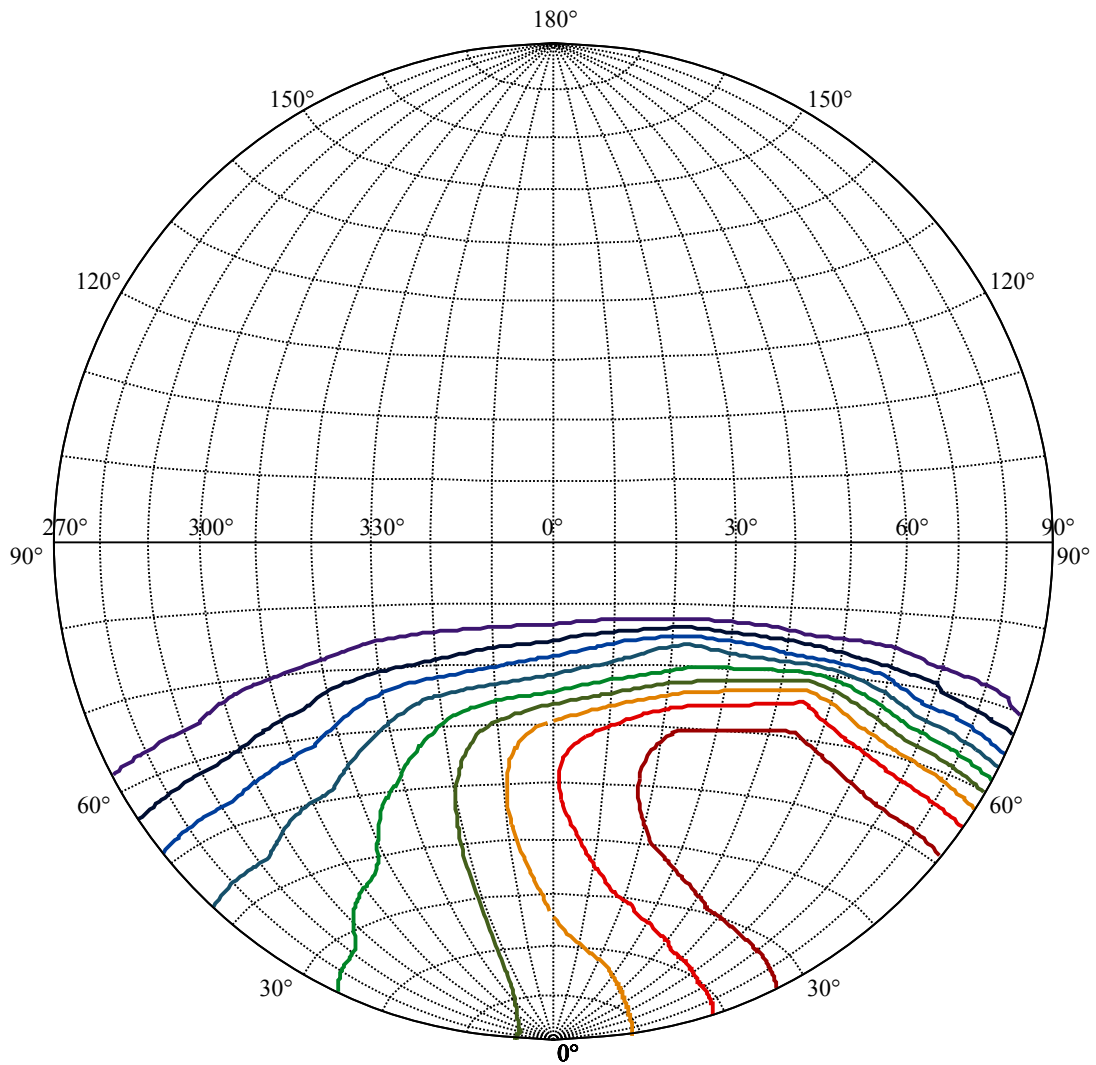




Max , Ave      Beam angle of C90plane115.30



(10%Imax) 527.219	
(20%Imax) 1054.44	
(30%Imax) 1581.66	
(40%Imax) 2108.88	
(50%Imax) 2636.1	
(60%Imax) 3163.32	
(70%Imax) 3690.53	
(80%Imax) 4217.75	
(90%Imax) 4744.97	



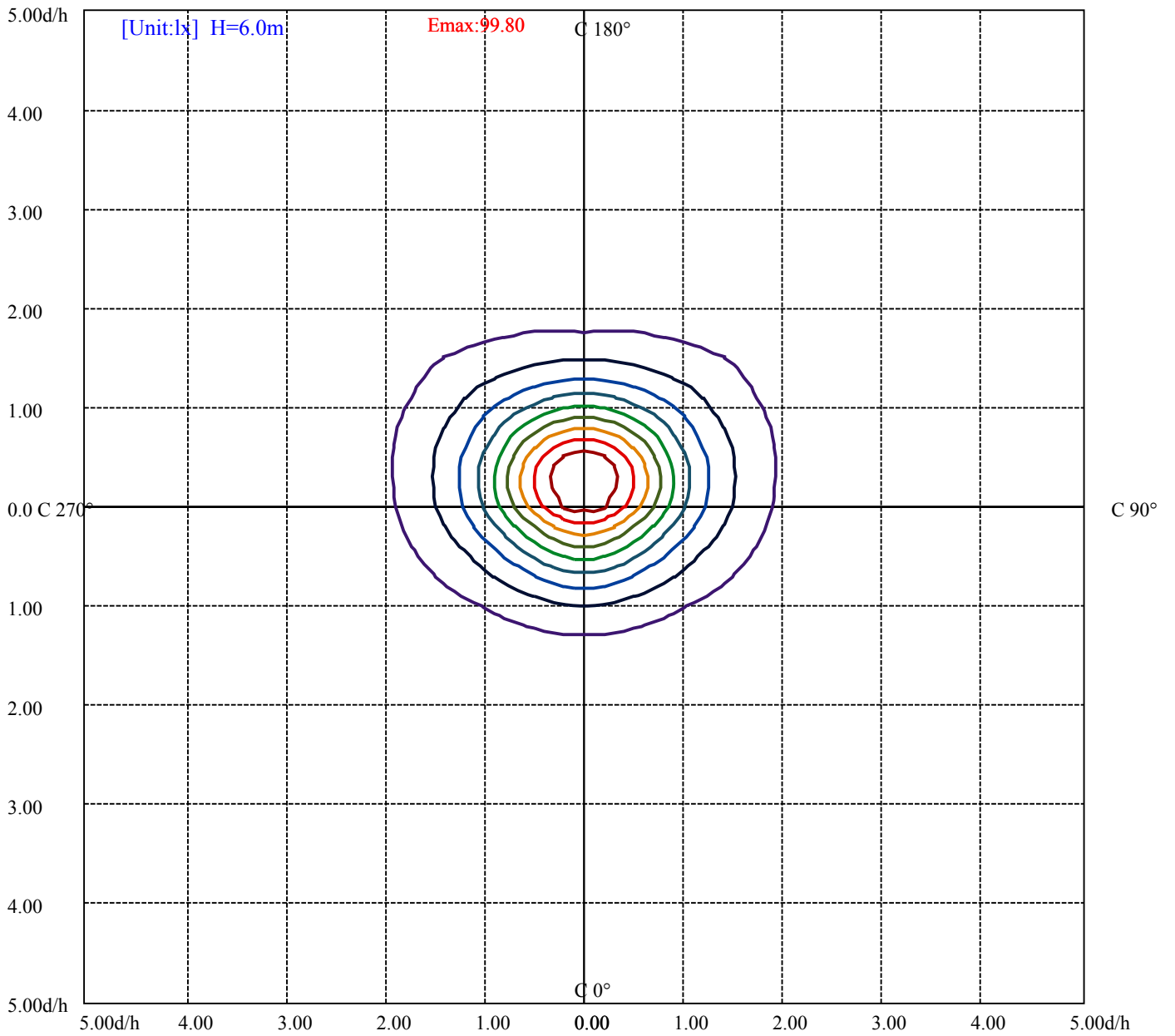
House

[Unit:cd]

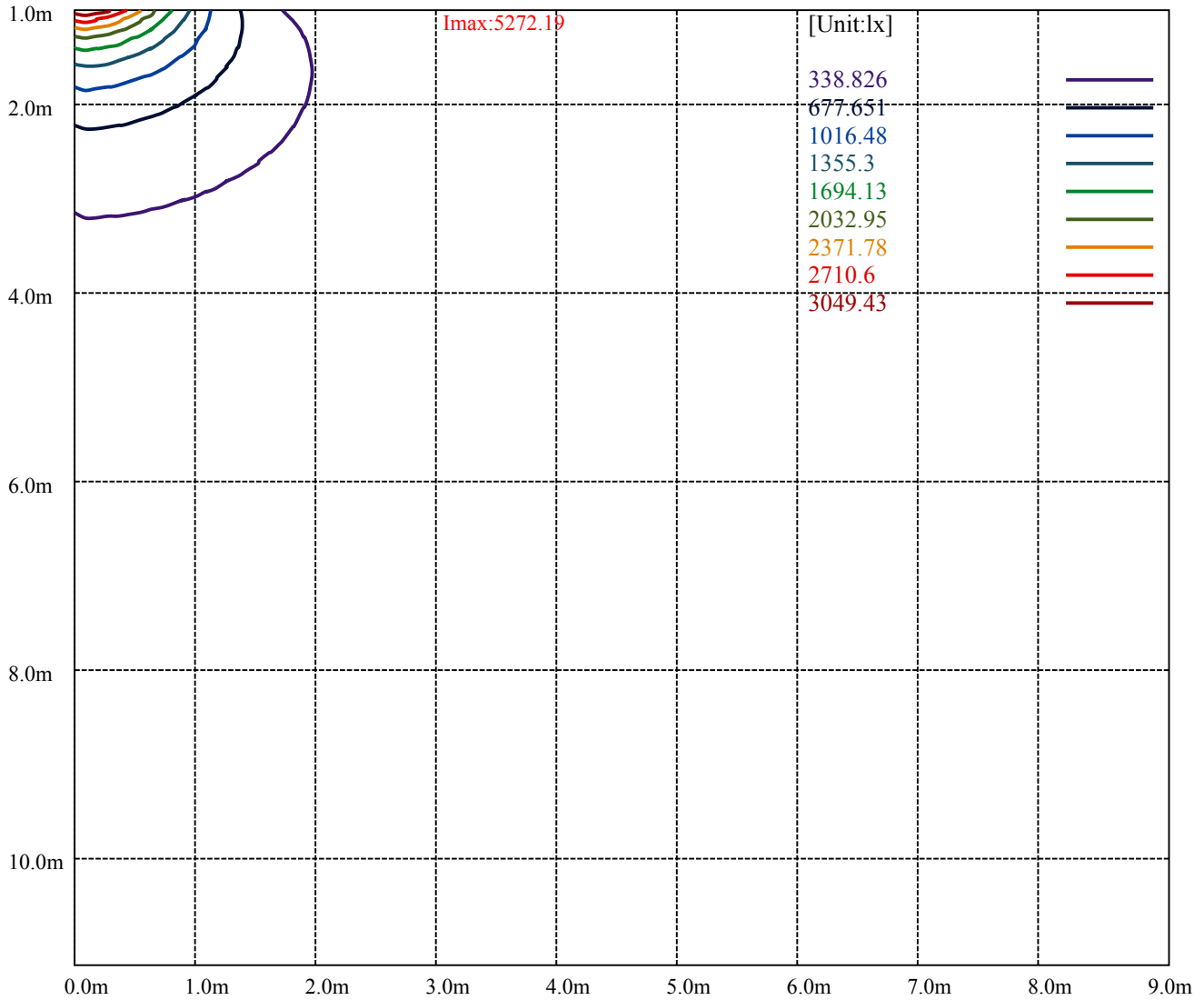
Road

**Imax:5272.19**

(10%Imax) 527.219	—
(20%Imax) 1054.44	—
(30%Imax) 1581.66	—
(40%Imax) 2108.88	—
(50%Imax) 2636.1	—
(60%Imax) 3163.32	—
(70%Imax) 3690.53	—
(80%Imax) 4217.75	—
(90%Imax) 4744.97	—



(10%Emax) 9.980389	—
(20%Emax) 19.96078	—
(30%Emax) 29.94111	—
(40%Emax) 39.92167	—
(50%Emax) 49.90194	—
(60%Emax) 59.88222	—
(70%Emax) 69.86278	—
(80%Emax) 79.84306	—
(90%Emax) 89.82333	—



Luminance Table

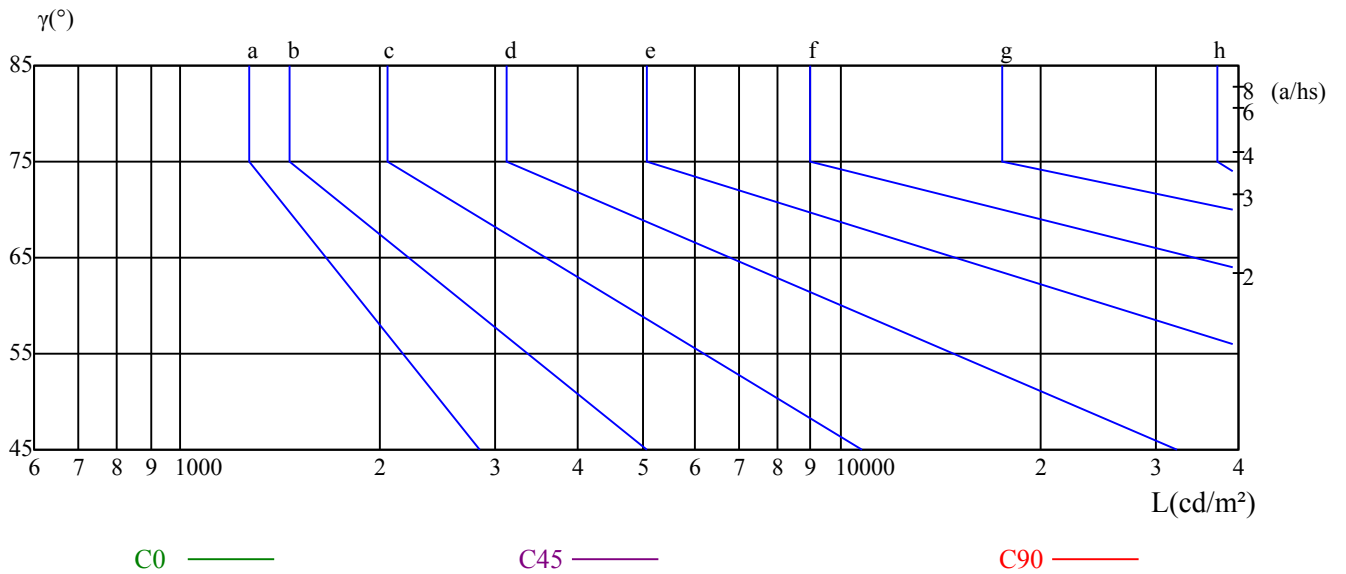
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

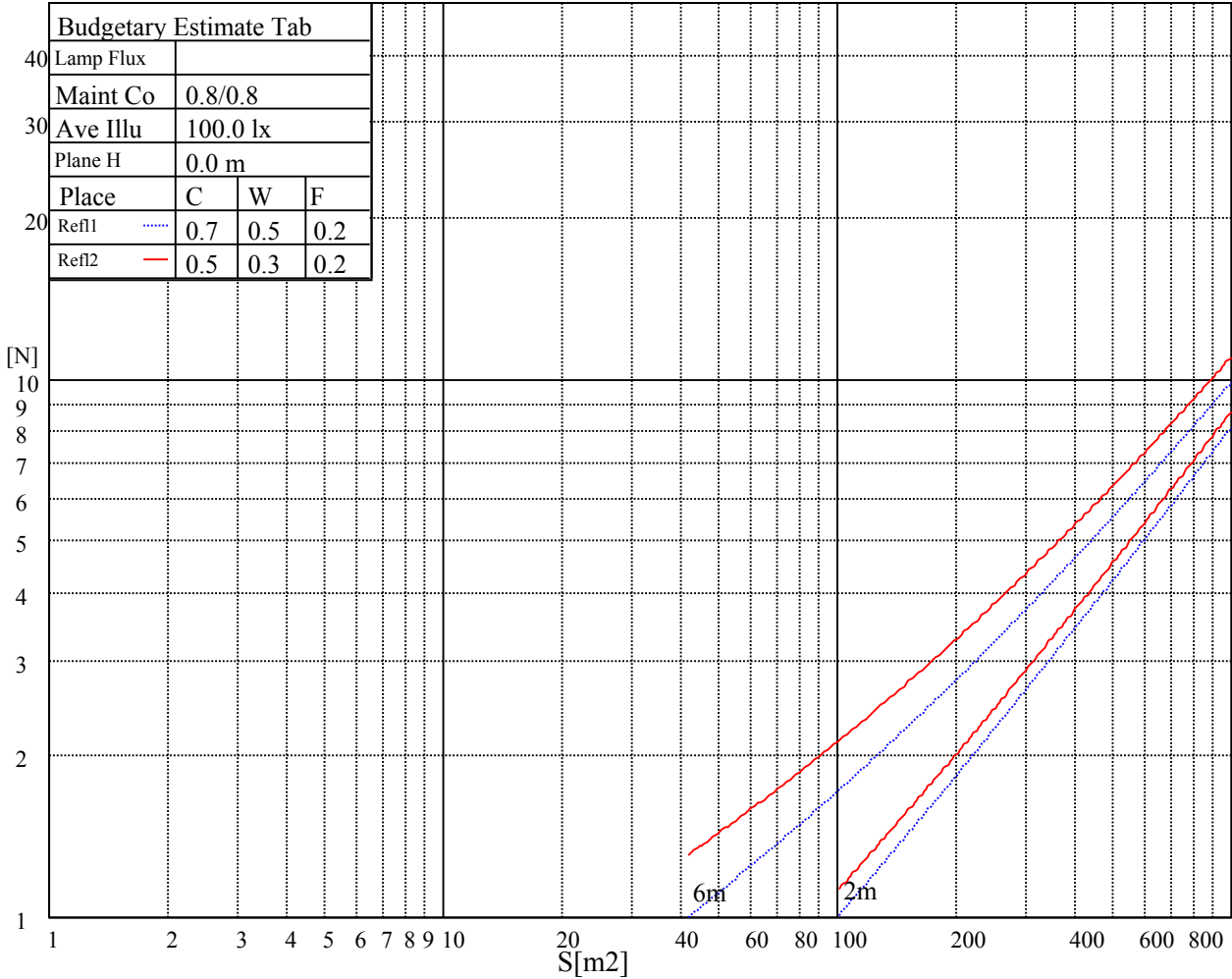
L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

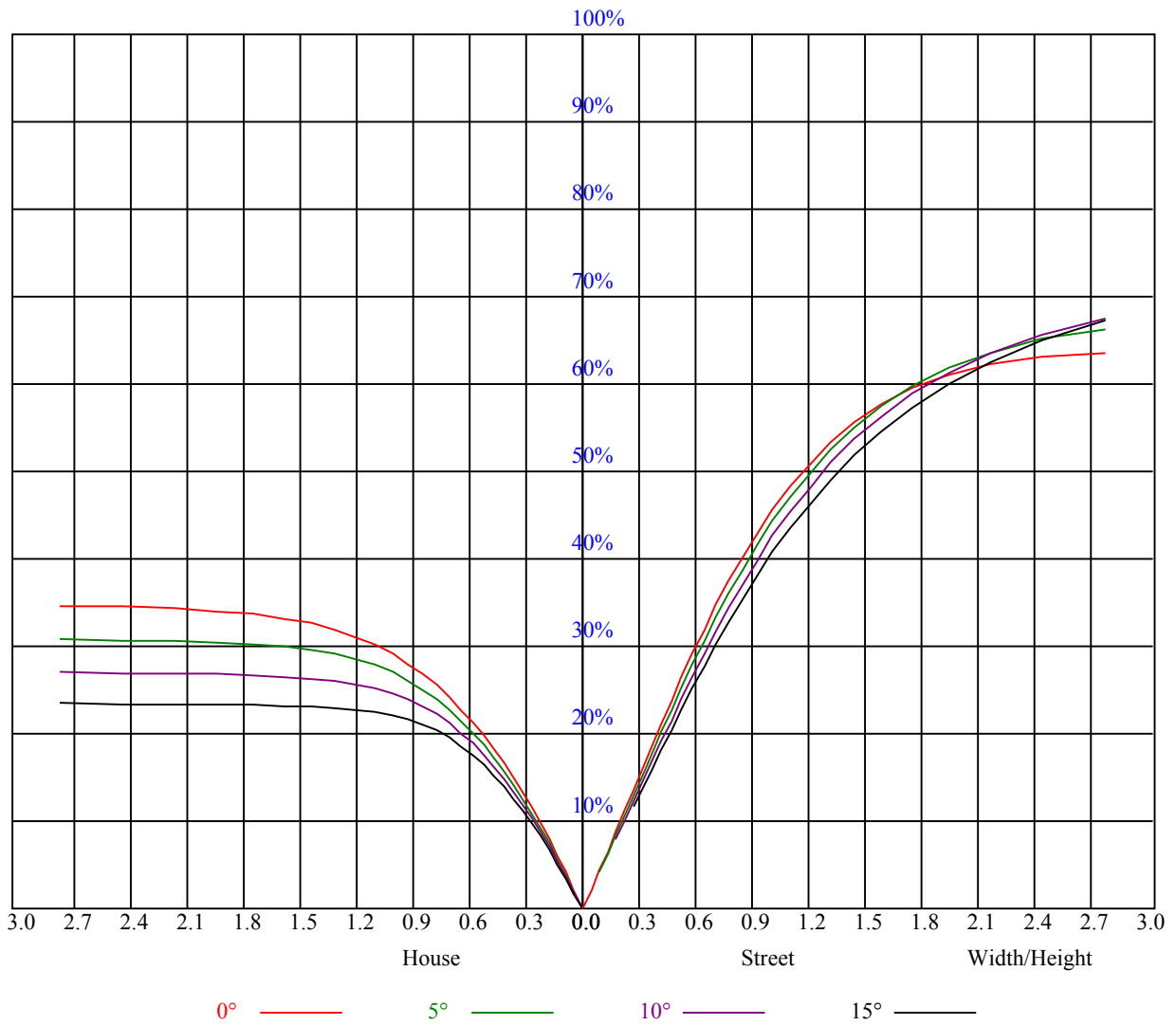
Luminance Limiting Curve





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	1.04	1.00	0.96	1.02	0.98	0.94	0.97	0.94	0.91	0.94	0.91	0.89	0.90	0.88	0.86	0.84
2	0.90	0.83	0.77	0.88	0.82	0.76	0.85	0.79	0.75	0.81	0.77	0.73	0.78	0.74	0.71	0.69
3	0.78	0.70	0.63	0.77	0.69	0.62	0.74	0.67	0.61	0.71	0.65	0.60	0.68	0.63	0.59	0.57
4	0.68	0.59	0.52	0.67	0.59	0.52	0.64	0.57	0.51	0.62	0.56	0.50	0.60	0.54	0.50	0.47
5	0.60	0.51	0.44	0.59	0.50	0.44	0.57	0.49	0.43	0.55	0.48	0.43	0.53	0.47	0.42	0.40
6	0.54	0.44	0.38	0.53	0.44	0.37	0.51	0.43	0.37	0.49	0.42	0.37	0.47	0.41	0.36	0.34
7	0.48	0.39	0.33	0.47	0.39	0.32	0.46	0.38	0.32	0.44	0.37	0.32	0.43	0.36	0.32	0.29
8	0.44	0.35	0.29	0.43	0.34	0.28	0.41	0.34	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.26
9	0.40	0.31	0.25	0.39	0.31	0.25	0.38	0.30	0.25	0.37	0.30	0.25	0.36	0.29	0.25	0.23
10	0.36	0.28	0.23	0.36	0.28	0.22	0.35	0.27	0.22	0.34	0.27	0.22	0.33	0.27	0.22	0.20





## 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	3303.90	3424.22	3428.35	3433.57	3435.31	3435.97	3440.53	3442.93	3449.02
22.5	3303.90	3321.09	3336.54	3354.60	3374.18	3391.80	3408.77	3427.92	3446.84
45.0	3303.90	3329.79	3361.34	3387.01	3414.64	3447.71	3479.26	3511.24	3541.92
67.5	3303.90	3338.71	3375.70	3407.46	3455.33	3491.01	3530.39	3571.51	3609.36
90.0	3303.90	3357.64	3391.36	3434.88	3487.74	3526.47	3556.93	3607.84	3646.78
112.5	3303.90	3338.71	3375.70	3407.46	3455.33	3491.01	3530.39	3571.51	3609.36
135.0	3303.90	3329.79	3361.34	3387.01	3414.64	3447.71	3479.26	3511.24	3541.92
157.5	3303.90	3321.09	3336.54	3354.60	3374.18	3391.80	3408.77	3427.92	3446.84
180.0	3303.90	3424.22	3428.35	3433.57	3435.31	3435.97	3440.53	3442.93	3449.02
202.5	3303.90	3293.24	3277.58	3263.66	3252.56	3240.81	3228.41	3219.06	3211.22
225.0	3303.90	3282.37	3257.13	3233.85	3206.65	3185.12	3162.49	3140.52	3118.76
247.5	3303.90	3265.18	3232.54	3200.78	3166.41	3139.21	3108.97	3080.47	3054.58
270.0	3303.90	3284.11	3243.64	3212.31	3180.33	3137.03	3105.49	3074.81	3044.14
292.5	3303.90	3265.18	3232.54	3200.78	3166.41	3139.21	3108.97	3080.47	3054.58
315.0	3303.90	3282.37	3257.13	3233.85	3206.65	3185.12	3162.49	3140.52	3118.76
337.5	3303.90	3293.24	3277.58	3263.66	3252.56	3240.81	3228.41	3219.06	3211.22
360.0	3303.90	3424.22	3428.35	3433.57	3435.31	3435.97	3440.53	3442.93	3449.02
C/ $\gamma$ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3455.55	3464.25	3473.17	3484.26	3491.66	3502.32	3512.76	3523.64	3537.13
22.5	3468.60	3490.14	3514.94	3534.52	3561.06	3586.30	3615.45	3645.70	3677.46
45.0	3573.25	3606.53	3646.13	3682.68	3719.45	3764.92	3806.91	3856.08	3903.51
67.5	3654.83	3698.35	3749.69	3801.25	3844.77	3888.49	3941.58	3993.36	4056.24
90.0	3691.60	3732.94	3779.50	3829.97	3893.28	3939.40	3992.93	4046.01	4107.15
112.5	3654.83	3698.35	3749.69	3801.25	3844.77	3888.49	3941.58	3993.36	4056.24
135.0	3573.25	3606.53	3646.13	3682.68	3719.45	3764.92	3806.91	3856.08	3903.51
157.5	3468.60	3490.14	3514.94	3534.52	3561.06	3586.30	3615.45	3645.70	3677.46
180.0	3455.55	3464.25	3473.17	3484.26	3491.66	3502.32	3512.76	3523.64	3537.13
202.5	3202.09	3194.91	3189.03	3183.38	3178.15	3172.71	3169.45	3164.88	3161.62
225.0	3100.92	3080.25	3063.72	3043.26	3031.73	3012.37	2994.10	2977.34	2960.16
247.5	3026.73	3002.58	2977.56	2951.02	2933.18	2907.07	2885.75	2863.99	2842.67
270.0	3013.68	2986.70	2960.59	2936.66	2909.46	2882.27	2858.55	2828.31	2800.68
292.5	3026.73	3002.58	2977.56	2951.02	2933.18	2907.07	2885.75	2863.99	2842.67
315.0	3100.92	3080.25	3063.72	3043.26	3031.73	3012.37	2994.10	2977.34	2960.16
337.5	3202.09	3194.91	3189.03	3183.38	3178.15	3172.71	3169.45	3164.88	3161.62
360.0	3455.55	3464.25	3473.17	3484.26	3491.66	3502.32	3512.76	3523.64	3537.13
C/ $\gamma$ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3552.14	3566.28	3584.56	3600.01	3617.41	3635.69	3655.27	3674.20	3692.69
22.5	3711.40	3746.43	3787.55	3835.41	3879.36	3929.18	3981.39	4026.21	4075.38
45.0	3959.20	4011.85	4076.47	4133.69	4200.92	4254.00	4295.99	4392.37	4434.79
67.5	4108.02	4167.41	4240.08	4299.69	4328.62	4397.81	4489.84	4560.55	4617.98
90.0	4173.28	4231.81	4295.99	4348.64	4446.98	4512.46	4575.77	4636.91	4711.10
112.5	4108.02	4167.41	4240.08	4299.69	4328.62	4397.81	4489.84	4560.55	4617.98
135.0	3959.20	4011.85	4076.47	4133.69	4200.92	4254.00	4295.99	4392.37	4434.79
157.5	3711.40	3746.43	3787.55	3835.41	3879.36	3929.18	3981.39	4026.21	4075.38
180.0	3552.14	3566.28	3584.56	3600.01	3617.41	3635.69	3655.27	3674.20	3692.69
202.5	3157.27	3153.57	3149.65	3146.39	3143.34	3140.30	3137.90	3134.21	3132.68
225.0	2944.06	2927.74	2911.20	2892.28	2876.18	2860.51	2846.15	2831.58	2819.83
247.5	2813.08	2794.16	2773.70	2753.69	2726.49	2709.09	2692.55	2674.93	2660.35
270.0	2777.19	2752.38	2731.93	2710.61	2689.51	2672.32	2657.96	2646.21	2631.20
292.5	2813.08	2794.16	2773.70	2753.69	2726.49	2709.09	2692.55	2674.93	2660.35
315.0	2944.06	2927.74	2911.20	2892.28	2876.18	2860.51	2846.15	2831.58	2819.83
337.5	3157.27	3153.57	3149.65	3146.39	3143.34	3140.30	3137.90	3134.21	3132.68
360.0	3552.14	3566.28	3584.56	3600.01	3617.41	3635.69	3655.27	3674.20	3692.69

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	3717.06	3737.07	3762.74	3784.28	3806.91	3828.88	3855.43	3881.53	3901.55
22.5	4141.30	4188.30	4213.32	4296.64	4360.17	4409.34	4459.38	4489.40	4557.28
45.0	4517.90	4578.60	4654.75	4706.75	4758.96	4807.91	4862.09	4915.39	4955.64
67.5	4678.90	4736.55	4813.79	4860.56	4911.47	4959.34	5010.46	5051.80	5090.96
90.0	4765.71	4824.67	4887.98	4929.53	4970.87	5012.42	5060.50	5099.67	5128.17
112.5	4678.90	4736.55	4813.79	4860.56	4911.47	4959.34	5010.46	5051.80	5090.96
135.0	4517.90	4578.60	4654.75	4706.75	4758.96	4807.91	4862.09	4915.39	4955.64
157.5	4141.30	4188.30	4213.32	4296.64	4360.17	4409.34	4459.38	4489.40	4557.28
180.0	3717.06	3737.07	3762.74	3784.28	3806.91	3828.88	3855.43	3881.53	3901.55
202.5	3130.51	3129.42	3129.20	3130.07	3130.29	3132.47	3134.21	3134.42	3133.34
225.0	2803.29	2798.51	2788.72	2777.19	2763.26	2749.77	2735.85	2718.66	2693.86
247.5	2645.13	2633.16	2612.06	2596.83	2582.03	2564.19	2543.31	2519.59	2495.88
270.0	2618.15	2600.09	2583.34	2566.15	2548.09	2520.68	2499.79	2480.21	2458.46
292.5	2645.13	2633.16	2612.06	2596.83	2582.03	2564.19	2543.31	2519.59	2495.88
315.0	2803.29	2798.51	2788.72	2777.19	2763.26	2749.77	2735.85	2718.66	2693.86
337.5	3130.51	3129.42	3129.20	3130.07	3130.29	3132.47	3134.21	3134.42	3133.34
360.0	3717.06	3737.07	3762.74	3784.28	3806.91	3828.88	3855.43	3881.53	3901.55
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	3927.22	3953.55	3980.74	4002.93	4027.08	4049.71	4069.94	4094.09	4113.89
22.5	4598.40	4638.65	4673.24	4706.97	4739.60	4769.84	4794.86	4818.79	4839.46
45.0	4994.58	5030.48	5059.85	5088.13	5116.20	5139.04	5164.06	5179.29	5193.44
67.5	5118.16	5141.00	5168.20	5185.39	5196.26	5200.61	5207.14	5213.67	5208.23
90.0	5160.80	5193.65	5215.41	5230.64	5252.61	5270.02	5272.19	5267.84	5254.79
112.5	5118.16	5141.00	5168.20	5185.39	5196.26	5200.61	5207.14	5213.67	5208.23
135.0	4994.58	5030.48	5059.85	5088.13	5116.20	5139.04	5164.06	5179.29	5193.44
157.5	4598.40	4638.65	4673.24	4706.97	4739.60	4769.84	4794.86	4818.79	4839.46
180.0	3927.22	3953.55	3980.74	4002.93	4027.08	4049.71	4069.94	4094.09	4113.89
202.5	3132.03	3129.42	3125.07	3119.63	3114.41	3108.97	3102.01	3095.70	3088.74
225.0	2666.88	2641.64	2612.49	2579.42	2557.23	2537.21	2515.24	2491.09	2466.07
247.5	2469.55	2438.88	2407.55	2372.30	2344.02	2307.47	2228.28	2186.07	2119.49
270.0	2434.96	2414.29	2391.23	2353.81	2287.67	2228.49	2166.92	2110.36	2059.88
292.5	2469.55	2438.88	2407.55	2372.30	2344.02	2307.47	2228.28	2186.07	2119.49
315.0	2666.88	2641.64	2612.49	2579.42	2557.23	2537.21	2515.24	2491.09	2466.07
337.5	3132.03	3129.42	3125.07	3119.63	3114.41	3108.97	3102.01	3095.70	3088.74
360.0	3927.22	3953.55	3980.74	4002.93	4027.08	4049.71	4069.94	4094.09	4113.89
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	4133.47	4145.87	4160.23	4172.41	4175.46	4181.77	4183.95	4179.81	4170.67
22.5	4864.26	4880.58	4899.07	4909.95	4920.83	4925.18	4927.36	4926.27	4921.05
45.0	5206.49	5213.02	5217.37	5220.63	5222.81	5219.54	5217.37	5206.49	5189.08
67.5	5198.44	5181.03	5148.62	5110.54	5067.03	4995.24	4916.04	4826.84	4743.08
90.0	5213.23	5165.15	5108.37	5036.35	4951.29	4842.07	4735.25	4628.21	4468.73
112.5	5198.44	5181.03	5148.62	5110.54	5067.03	4995.24	4916.04	4826.84	4743.08
135.0	5206.49	5213.02	5217.37	5220.63	5222.81	5219.54	5217.37	5206.49	5189.08
157.5	4864.26	4880.58	4899.07	4909.95	4920.83	4925.18	4927.36	4926.27	4921.05
180.0	4133.47	4145.87	4160.23	4172.41	4175.46	4181.77	4183.95	4179.81	4170.67
202.5	3078.51	3067.63	3055.88	3042.39	3026.51	3005.41	2974.95	2942.75	2920.78
225.0	2435.83	2409.51	2379.05	2347.50	2285.71	2217.40	2144.73	2078.16	2022.03
247.5	2076.20	2028.55	1975.90	1926.73	1886.48	1842.54	1795.11	1699.82	1601.04
270.0	2012.67	1958.72	1900.84	1852.33	1799.68	1710.69	1615.62	1534.47	1445.92
292.5	2076.20	2028.55	1975.90	1926.73	1886.48	1842.54	1795.11	1699.82	1601.04
315.0	2435.83	2409.51	2379.05	2347.50	2285.71	2217.40	2144.73	2078.16	2022.03
337.5	3078.51	3067.63	3055.88	3042.39	3026.51	3005.41	2974.95	2942.75	2920.78
360.0	4133.47	4145.87	4160.23	4172.41	4175.46	4181.77	4183.95	4179.81	4170.67

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	4157.40	4133.91	4105.41	4059.50	3999.67	3920.48	3800.60	3631.55	3454.68
22.5	4911.26	4899.51	4879.93	4852.95	4818.36	4769.84	4708.27	4630.38	4511.16
45.0	5171.68	5146.88	5107.72	5049.19	4993.71	4921.05	4835.11	4742.86	4663.67
67.5	4645.40	4543.14	4408.25	4293.16	4157.18	3999.67	3803.86	3591.96	3327.84
90.0	4366.26	4228.76	4041.01	3851.07	3606.53	3370.70	3100.05	2770.44	2477.82
112.5	4645.40	4543.14	4408.25	4293.16	4157.18	3999.67	3803.86	3591.96	3327.84
135.0	5171.68	5146.88	5107.72	5049.19	4993.71	4921.05	4835.11	4742.86	4663.67
157.5	4911.26	4899.51	4879.93	4852.95	4818.36	4769.84	4708.27	4630.38	4511.16
180.0	4157.40	4133.91	4105.41	4059.50	3999.67	3920.48	3800.60	3631.55	3454.68
202.5	2891.41	2844.20	2793.29	2749.34	2699.30	2631.42	2556.36	2483.69	2403.85
225.0	1958.72	1894.32	1823.17	1755.29	1672.62	1573.41	1487.26	1381.30	1296.46
247.5	1515.11	1440.48	1339.75	1235.32	1130.67	991.00	869.81	778.22	707.51
270.0	1314.08	1204.21	1078.46	930.51	805.85	714.04	642.90	591.12	533.25
292.5	1515.11	1440.48	1339.75	1235.32	1130.67	991.00	869.81	778.22	707.51
315.0	1958.72	1894.32	1823.17	1755.29	1672.62	1573.41	1487.26	1381.30	1296.46
337.5	2891.41	2844.20	2793.29	2749.34	2699.30	2631.42	2556.36	2483.69	2403.85
360.0	4157.40	4133.91	4105.41	4059.50	3999.67	3920.48	3800.60	3631.55	3454.68
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3246.47	3019.99	2732.59	2510.89	2321.39	2156.04	2004.19	1841.01	1663.48
22.5	4313.39	4112.15	3872.83	3608.49	3331.97	2994.53	2773.92	2602.27	2516.11
45.0	4576.86	4457.42	4329.28	4160.01	3884.58	3579.56	3152.48	2742.16	2309.86
67.5	3011.50	2729.97	2451.71	2126.67	1853.63	1579.72	1348.24	1161.13	1128.50
90.0	2159.09	1836.01	1502.05	1283.62	1139.59	848.71	620.05	460.80	386.39
112.5	3011.50	2729.97	2451.71	2126.67	1853.63	1579.72	1348.24	1161.13	1128.50
135.0	4576.86	4457.42	4329.28	4160.01	3884.58	3579.56	3152.48	2742.16	2309.86
157.5	4313.39	4112.15	3872.83	3608.49	3331.97	2994.53	2773.92	2602.27	2516.11
180.0	3246.47	3019.99	2732.59	2510.89	2321.39	2156.04	2004.19	1841.01	1663.48
202.5	2305.08	2201.08	2073.15	1934.13	1755.51	1541.21	1348.24	1164.40	985.78
225.0	1205.51	1113.70	1019.72	932.04	851.32	772.13	671.62	586.11	501.48
247.5	645.73	576.54	499.52	444.48	388.78	328.74	284.14	244.98	206.25
270.0	454.49	369.20	305.46	260.64	225.83	179.05	147.94	128.36	110.96
292.5	645.73	576.54	499.52	444.48	388.78	328.74	284.14	244.98	206.25
315.0	1205.51	1113.70	1019.72	932.04	851.32	772.13	671.62	586.11	501.48
337.5	2305.08	2201.08	2073.15	1934.13	1755.51	1541.21	1348.24	1164.40	985.78
360.0	3246.47	3019.99	2732.59	2510.89	2321.39	2156.04	2004.19	1841.01	1663.48
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1441.35	1228.14	1016.45	838.92	615.05	465.58	339.18	247.59	187.32
22.5	2425.39	2288.76	2028.34	1583.64	1206.17	844.14	382.47	250.63	182.53
45.0	1834.27	1351.93	1132.85	884.83	454.49	316.34	255.20	217.78	205.81
67.5	724.92	563.70	451.44	360.07	261.95	200.16	175.36	158.82	144.68
90.0	338.96	279.79	241.71	213.21	187.54	166.00	151.64	141.20	134.02
112.5	724.92	563.70	451.44	360.07	261.95	200.16	175.36	158.82	144.68
135.0	1834.27	1351.93	1132.85	884.83	454.49	316.34	255.20	217.78	205.81
157.5	2425.39	2288.76	2028.34	1583.64	1206.17	844.14	382.47	250.63	182.53
180.0	1441.35	1228.14	1016.45	838.92	615.05	465.58	339.18	247.59	187.32
202.5	855.89	763.21	682.06	567.62	455.79	365.29	292.40	248.02	236.27
225.0	417.50	366.16	325.69	289.58	251.28	218.87	187.10	167.96	148.81
247.5	177.53	150.12	130.54	119.22	107.48	95.51	87.03	79.41	71.80
270.0	88.98	74.41	43.95	27.85	16.10	8.05	2.61	0.44	134.02
292.5	177.53	150.12	130.54	119.22	107.48	95.51	87.03	79.41	71.80
315.0	417.50	366.16	325.69	289.58	251.28	218.87	187.10	167.96	148.81
337.5	855.89	763.21	682.06	567.62	455.79	365.29	292.40	248.02	236.27
360.0	1441.35	1228.14	1016.45	838.92	615.05	465.58	339.18	247.59	187.32

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	147.72	122.27	103.99	86.15	72.67	60.26	46.34	34.37	26.11
22.5	155.77	135.32	122.71	114.00	106.61	100.08	95.29	88.98	74.84
45.0	202.55	198.63	190.15	177.10	163.39	142.07	122.92	105.08	79.85
67.5	131.84	120.96	117.27	113.57	106.82	96.60	84.20	69.18	55.04
90.0	127.93	119.88	110.74	98.99	86.15	75.71	64.83	57.44	49.17
112.5	131.84	120.96	117.27	113.57	106.82	96.60	84.20	69.18	55.04
135.0	202.55	198.63	190.15	177.10	163.39	142.07	122.92	105.08	79.85
157.5	155.77	135.32	122.71	114.00	106.61	100.08	95.29	88.98	74.84
180.0	147.72	122.27	103.99	86.15	72.67	60.26	46.34	34.37	26.11
202.5	219.74	194.28	157.95	129.67	105.52	86.81	73.32	61.57	50.47
225.0	132.28	118.79	106.39	92.68	81.37	70.27	61.14	52.43	41.55
247.5	63.53	57.00	50.47	41.99	36.33	30.68	25.24	21.32	16.10
270.0	127.93	119.88	110.74	98.99	86.15	75.71	64.83	57.44	49.17
292.5	63.53	57.00	50.47	41.99	36.33	30.68	25.24	21.32	16.10
315.0	132.28	118.79	106.39	92.68	81.37	70.27	61.14	52.43	41.55
337.5	219.74	194.28	157.95	129.67	105.52	86.81	73.32	61.57	50.47
360.0	147.72	122.27	103.99	86.15	72.67	60.26	46.34	34.37	26.11
C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	20.89	18.28	16.10	14.36	13.27	12.18	11.53	10.88	10.66
22.5	67.23	61.14	53.74	46.12	40.47	34.81	29.37	25.67	23.93
45.0	62.01	50.26	39.38	32.20	26.54	23.06	20.45	18.06	16.53
67.5	48.30	39.81	31.11	27.41	24.37	21.97	18.71	15.88	13.05
90.0	43.51	34.16	20.45	13.27	10.01	7.61	4.13	3.26	2.61
112.5	48.30	39.81	31.11	27.41	24.37	21.97	18.71	15.88	13.05
135.0	62.01	50.26	39.38	32.20	26.54	23.06	20.45	18.06	16.53
157.5	67.23	61.14	53.74	46.12	40.47	34.81	29.37	25.67	23.93
180.0	20.89	18.28	16.10	14.36	13.27	12.18	11.53	10.88	10.66
202.5	40.68	33.50	28.28	22.41	18.49	16.10	14.36	13.27	12.62
225.0	35.68	30.68	24.37	20.45	17.84	15.88	13.49	11.75	10.44
247.5	13.49	11.31	8.27	5.87	4.35	3.05	2.39	1.96	1.74
270.0	43.51	34.16	20.45	0.22	0.22	7.61	0.22	0.44	0.65
292.5	13.49	11.31	8.27	5.87	4.35	3.05	2.39	1.96	1.74
315.0	35.68	30.68	24.37	20.45	17.84	15.88	13.49	11.75	10.44
337.5	40.68	33.50	28.28	22.41	18.49	16.10	14.36	13.27	12.62
360.0	20.89	18.28	16.10	14.36	13.27	12.18	11.53	10.88	10.66
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	10.44	10.01	10.01	10.01	10.44	10.66	11.10	11.31	10.88
22.5	22.41	21.10	19.15	16.97	15.45	13.92	12.62	11.53	10.44
45.0	14.36	13.05	12.18	11.10	10.01	9.14	8.05	6.74	6.09
67.5	11.10	9.36	7.83	6.53	5.22	4.13	3.48	3.05	2.61
90.0	2.39	2.39	2.18	1.96	2.18	2.39	2.61	2.61	3.05
112.5	11.10	9.36	7.83	6.53	5.22	4.13	3.48	3.05	2.61
135.0	14.36	13.05	12.18	11.10	10.01	9.14	8.05	6.74	6.09
157.5	22.41	21.10	19.15	16.97	15.45	13.92	12.62	11.53	10.44
180.0	10.44	10.01	10.01	10.01	10.44	10.66	11.10	11.31	10.88
202.5	11.97	11.10	10.66	10.23	9.36	8.70	8.27	7.61	7.18
225.0	9.36	7.61	6.96	6.31	6.09	5.66	5.22	5.00	5.00
247.5	1.74	1.74	1.74	1.96	1.96	2.18	2.61	2.83	3.05
270.0	0.65	0.87	1.09	1.31	1.52	1.74	1.96	2.18	2.18
292.5	1.74	1.74	1.74	1.96	1.96	2.18	2.61	2.83	3.05
315.0	9.36	7.61	6.96	6.31	6.09	5.66	5.22	5.00	5.00
337.5	11.97	11.10	10.66	10.23	9.36	8.70	8.27	7.61	7.18
360.0	10.44	10.01	10.01	10.01	10.44	10.66	11.10	11.31	10.88

## 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	9.79	9.36	9.36	9.36	9.14	8.70	8.05	7.61	6.96
22.5	9.36	8.27	7.18	6.09	5.44	5.00	4.79	5.00	4.79
45.0	5.22	4.79	4.35	4.13	3.92	3.70	3.26	3.26	3.26
67.5	2.61	2.39	2.39	2.39	2.61	2.83	2.83	2.83	2.61
90.0	3.48	3.70	4.35	4.79	4.57	4.13	3.48	2.83	2.18
112.5	2.61	2.39	2.39	2.39	2.61	2.83	2.83	2.83	2.61
135.0	5.22	4.79	4.35	4.13	3.92	3.70	3.26	3.26	3.26
157.5	9.36	8.27	7.18	6.09	5.44	5.00	4.79	5.00	4.79
180.0	9.79	9.36	9.36	9.36	9.14	8.70	8.05	7.61	6.96
202.5	7.18	6.74	6.74	6.74	6.53	6.53	6.74	6.74	6.74
225.0	5.22	5.44	5.44	5.66	5.66	5.87	6.31	6.53	6.74
247.5	3.26	3.70	3.92	4.13	4.35	4.79	5.22	5.44	5.66
270.0	2.61	2.83	3.05	3.48	3.92	4.13	4.35	4.57	5.22
292.5	3.26	3.70	3.92	4.13	4.35	4.79	5.22	5.44	5.66
315.0	5.22	5.44	5.44	5.66	5.66	5.87	6.31	6.53	6.74
337.5	7.18	6.74	6.74	6.74	6.53	6.53	6.74	6.74	6.74
360.0	9.79	9.36	9.36	9.36	9.14	8.70	8.05	7.61	6.96
C/ $\gamma$ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	6.53	6.53	6.31	6.09	6.09	6.31	6.31	6.31	6.53
22.5	4.79	4.79	4.79	5.00	5.00	5.00	5.22	5.22	5.44
45.0	3.05	3.26	3.26	3.26	3.48	3.48	3.70	3.70	3.92
67.5	2.61	2.61	2.39	2.39	2.39	2.61	2.61	2.83	2.83
90.0	2.18	2.39	2.61	2.39	2.39	2.61	2.18	2.39	2.61
112.5	2.61	2.61	2.39	2.39	2.39	2.61	2.61	2.83	2.83
135.0	3.05	3.26	3.26	3.26	3.48	3.48	3.70	3.70	3.92
157.5	4.79	4.79	4.79	5.00	5.00	5.00	5.22	5.22	5.44
180.0	6.53	6.53	6.31	6.09	6.09	6.31	6.31	6.31	6.53
202.5	6.96	7.18	7.18	7.40	7.40	7.61	7.83	7.83	7.83
225.0	6.96	7.18	7.40	7.40	7.61	7.83	8.05	8.27	8.27
247.5	5.87	6.53	6.53	6.96	7.18	7.40	7.61	7.83	8.05
270.0	5.22	5.66	5.87	6.31	6.53	6.96	6.96	7.40	7.61
292.5	5.87	6.53	6.53	6.96	7.18	7.40	7.61	7.83	8.05
315.0	6.96	7.18	7.40	7.40	7.61	7.83	8.05	8.27	8.27
337.5	6.96	7.18	7.18	7.40	7.40	7.61	7.83	7.83	7.83
360.0	6.53	6.53	6.31	6.09	6.09	6.31	6.31	6.31	6.53
C/ $\gamma$ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	6.53	6.53	6.74	6.74	6.96	6.74	7.18	6.96	7.18
22.5	5.44	5.44	5.66	5.66	5.66	5.87	5.87	5.87	6.09
45.0	3.92	4.13	4.13	4.35	4.35	4.35	4.57	4.79	4.57
67.5	2.83	3.26	3.26	3.48	3.48	3.70	3.70	3.70	4.13
90.0	2.83	2.83	3.05	3.05	3.26	3.48	3.48	3.48	3.70
112.5	2.83	3.26	3.26	3.48	3.48	3.70	3.70	3.70	4.13
135.0	3.92	4.13	4.13	4.35	4.35	4.35	4.57	4.79	4.57
157.5	5.44	5.44	5.66	5.66	5.66	5.87	5.87	5.87	6.09
180.0	6.53	6.53	6.74	6.74	6.96	6.74	7.18	6.96	7.18
202.5	8.05	8.05	8.27	8.27	8.27	8.27	8.27	8.27	8.27
225.0	8.48	8.70	8.70	8.92	8.92	8.92	9.14	9.36	9.14
247.5	8.05	8.27	8.48	8.70	8.70	8.92	8.92	9.14	9.14
270.0	7.83	8.05	8.27	8.48	8.70	8.70	8.92	8.92	9.14
292.5	8.05	8.27	8.48	8.70	8.70	8.92	8.92	9.14	9.14
315.0	8.48	8.70	8.70	8.92	8.92	8.92	9.14	9.36	9.14
337.5	8.05	8.05	8.27	8.27	8.27	8.27	8.27	8.27	8.27
360.0	6.53	6.53	6.74	6.74	6.96	6.74	7.18	6.96	7.18

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	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
22.5	5.87	6.09	6.09	6.09	6.09	6.31	6.09	6.09	6.09
45.0	5.00	5.00	5.00	5.00	5.00	5.22	5.22	5.44	5.44
67.5	4.13	4.13	4.35	4.35	4.57	4.57	4.57	4.57	4.57
90.0	3.70	3.92	3.92	3.92	4.35	4.57	4.35	4.57	4.57
112.5	4.13	4.13	4.35	4.35	4.57	4.57	4.57	4.57	4.57
135.0	5.00	5.00	5.00	5.00	5.00	5.22	5.22	5.44	5.44
157.5	5.87	6.09	6.09	6.09	6.09	6.31	6.09	6.09	6.09
180.0	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
202.5	8.27	8.27	8.27	8.27	8.27	8.05	8.05	8.05	8.05
225.0	9.14	9.14	9.14	9.14	8.92	8.92	8.92	8.92	8.70
247.5	9.14	9.14	9.14	9.36	9.36	9.14	9.14	9.14	9.14
270.0	9.14	9.36	9.36	9.36	9.14	9.36	9.36	9.36	9.57
292.5	9.14	9.14	9.14	9.36	9.36	9.14	9.14	9.14	9.14
315.0	9.14	9.14	9.14	9.14	8.92	8.92	8.92	8.92	8.70
337.5	8.27	8.27	8.27	8.27	8.27	8.05	8.05	8.05	8.05
360.0	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.53
22.5	6.09	6.09	6.09	6.09	6.09	6.09	6.09	6.09	6.09
45.0	5.44	5.44	5.44	5.44	5.44	5.66	5.44	5.66	5.66
67.5	4.79	4.79	5.00	5.00	5.22	5.00	5.00	5.22	5.22
90.0	4.57	4.79	5.00	5.00	5.00	5.00	5.22	5.22	5.44
112.5	4.79	4.79	5.00	5.00	5.22	5.00	5.00	5.22	5.22
135.0	5.44	5.44	5.44	5.44	5.44	5.66	5.44	5.66	5.66
157.5	6.09	6.09	6.09	6.09	6.09	6.09	6.09	6.09	6.09
180.0	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.53
202.5	8.05	7.83	7.61	7.83	7.61	7.61	7.61	7.61	7.61
225.0	8.92	8.70	8.70	8.70	8.70	8.48	8.48	8.48	8.48
247.5	9.14	9.14	9.14	8.92	8.92	8.92	8.92	8.92	8.70
270.0	9.36	9.36	9.36	9.14	9.36	9.14	9.14	9.14	8.92
292.5	9.14	9.14	9.14	8.92	8.92	8.92	8.92	8.92	8.70
315.0	8.92	8.70	8.70	8.70	8.70	8.48	8.48	8.48	8.48
337.5	8.05	7.83	7.61	7.83	7.61	7.61	7.61	7.61	7.61
360.0	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.53
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	6.74	6.53	6.53	6.53	6.53	6.31	6.31	6.31	6.31
22.5	6.31	6.09	6.31	6.09	6.31	6.09	6.09	6.31	6.31
45.0	5.66	5.66	5.66	5.87	5.66	5.66	5.87	5.87	5.66
67.5	5.22	5.22	5.66	5.44	5.44	5.66	5.66	5.44	5.44
90.0	5.44	5.44	5.66	5.44	5.44	5.44	5.44	5.66	5.66
112.5	5.22	5.22	5.66	5.44	5.44	5.66	5.66	5.44	5.44
135.0	5.66	5.66	5.66	5.87	5.66	5.66	5.87	5.87	5.66
157.5	6.31	6.09	6.31	6.09	6.31	6.09	6.09	6.31	6.31
180.0	6.74	6.53	6.53	6.53	6.53	6.31	6.31	6.31	6.31
202.5	7.40	7.40	7.40	7.40	7.18	6.96	7.18	6.96	6.96
225.0	8.27	8.05	8.05	8.05	7.83	7.61	7.61	7.61	7.40
247.5	8.92	8.48	8.48	8.27	8.27	8.05	8.05	7.83	7.83
270.0	8.92	8.92	8.70	8.70	8.48	8.27	8.27	8.05	8.05
292.5	8.92	8.48	8.48	8.27	8.27	8.05	8.05	7.83	7.83
315.0	8.27	8.05	8.05	8.05	7.83	7.61	7.61	7.61	7.40
337.5	7.40	7.40	7.40	7.40	7.18	6.96	7.18	6.96	6.96
360.0	6.74	6.53	6.53	6.53	6.53	6.31	6.31	6.31	6.31

## 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	6.09	6.09	6.09	6.09	5.87	5.87	5.87	5.87	5.87
22.5	6.31	6.09	6.09	6.09	6.09	6.09	6.09	5.87	5.87
45.0	5.66	5.87	5.66	5.87	5.87	5.87	5.66	5.87	5.87
67.5	5.44	5.66	5.66	5.66	5.87	5.66	5.66	5.87	5.66
90.0	5.66	5.66	5.66	5.66	5.66	5.66	5.66	5.87	5.66
112.5	5.44	5.66	5.66	5.66	5.87	5.66	5.66	5.87	5.66
135.0	5.66	5.87	5.66	5.87	5.87	5.87	5.66	5.87	5.87
157.5	6.31	6.09	6.09	6.09	6.09	6.09	6.09	5.87	5.87
180.0	6.09	6.09	6.09	6.09	5.87	5.87	5.87	5.87	5.87
202.5	6.96	6.74	6.74	6.74	6.74	6.53	6.53	6.31	6.31
225.0	7.18	7.18	7.18	6.96	6.96	6.96	6.74	6.74	6.74
247.5	7.83	7.61	7.40	7.40	7.18	7.18	6.96	6.96	6.96
270.0	7.83	7.83	7.61	7.61	7.61	7.18	7.18	7.18	6.96
292.5	7.83	7.61	7.40	7.40	7.18	7.18	6.96	6.96	6.96
315.0	7.18	7.18	7.18	6.96	6.96	6.96	6.74	6.74	6.74
337.5	6.96	6.74	6.74	6.74	6.74	6.53	6.53	6.31	6.31
360.0	6.09	6.09	6.09	6.09	5.87	5.87	5.87	5.87	5.87
C/ $\gamma$ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	5.87	5.87	5.87	5.87	6.09	6.09	6.09	6.31	6.31
22.5	5.66	5.87	5.87	5.87	5.87	5.87	6.09	6.31	6.31
45.0	5.87	5.87	5.87	5.87	6.09	5.87	6.09	6.09	6.31
67.5	5.66	5.87	5.66	5.87	5.87	5.87	6.09	6.09	6.31
90.0	5.66	5.87	5.66	5.87	5.66	5.87	6.09	6.31	6.09
112.5	5.66	5.87	5.66	5.87	5.87	5.87	6.09	6.09	6.31
135.0	5.87	5.87	5.87	5.87	6.09	5.87	6.09	6.09	6.31
157.5	5.66	5.87	5.87	5.87	5.87	5.87	6.09	6.31	6.31
180.0	5.87	5.87	5.87	5.87	6.09	6.09	6.09	6.31	6.31
202.5	6.31	6.09	6.31	6.31	6.31	6.31	6.31	6.31	6.31
225.0	6.74	6.53	6.53	6.31	6.53	6.53	6.31	6.53	6.31
247.5	6.74	6.74	6.74	6.53	6.53	6.53	6.53	6.31	6.31
270.0	6.96	6.74	6.96	6.74	6.74	6.53	6.53	6.31	6.53
292.5	6.74	6.74	6.74	6.53	6.53	6.53	6.53	6.31	6.31
315.0	6.74	6.53	6.53	6.31	6.53	6.53	6.31	6.53	6.31
337.5	6.31	6.09	6.31	6.31	6.31	6.31	6.31	6.31	6.31
360.0	5.87	5.87	5.87	5.87	6.09	6.09	6.09	6.31	6.31
C/ $\gamma$ (°)	180.0								
0.0	6.31								
22.5	6.31								
45.0	6.31								
67.5	6.31								
90.0	6.31								
112.5	6.31								
135.0	6.31								
157.5	6.31								
180.0	6.31								
202.5	6.31								
225.0	6.31								
247.5	6.31								
270.0	6.31								
292.5	6.31								
315.0	6.31								
337.5	6.31								
360.0	6.31								