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ALR-5410模组
LED 10W 3000K CRI 90
LM:850lm
120V, 60Hz

Client:

LumCAT: ALR-5410

Luminaire:

Report No:

Ballast type:

Test No: BST24120905-9

Voltage(V): 120.090

LampCAT:

Current(A): 0.091

Lamp flux(lm)

Power (W): 10.152

Number of Lamps: 1

PF: 0.932

Length(mm): 430

Width(mm): 135

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 848.82, Luminous Efficacy(lm/W): 83.61

Central intensity(cd): 288.09, Maximum intensity(cd): 289.06

Angle of maximum intensity: C=90.0 $\gamma=1.0$

Beam Angle(50%Imax): [C0/180]Total=109.8

[C90/270]Total=112.3

Field angle(10%Imax): [C0/180]Total=155.8

[C90/270]Total=168.0

Beam angle of C90 plane : 112.55

Aveage BeamAngle(IEC 61341):111.57

Maximum s/h(1/2): C0_180=1.26 C90_270=1.24

Maximum s/h(1/4): C0_180=1.37 C90_270=1.37

Up flux rate of LUM(%): 4.11%

Down flux rate of LUM(%): 95.89%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 74.600%

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2024-12-09
Humidity(%): 59.0%

Operator: Liao
Distance(m): 11.68

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	288.090	0.000	0.000	0.000%	0.000%
1.0	288.034	0.276	0.276	0.032%	0.032%
2.0	287.653	0.826	1.102	0.097%	0.130%
3.0	286.926	1.374	2.476	0.162%	0.292%
4.0	286.089	1.918	4.394	0.226%	0.518%
5.0	284.784	2.456	6.850	0.289%	0.807%
6.0	283.253	2.985	9.835	0.352%	1.159%
7.0	281.652	3.506	13.342	0.413%	1.572%
8.0	279.777	4.018	17.360	0.473%	2.045%
9.0	277.777	4.519	21.878	0.532%	2.577%
10.0	275.659	5.008	26.887	0.590%	3.168%
11.0	273.675	5.489	32.376	0.647%	3.814%
12.0	271.702	5.962	38.337	0.702%	4.517%
13.0	269.621	6.424	44.762	0.757%	5.273%
14.0	267.713	6.878	51.639	0.810%	6.084%
15.0	266.177	7.329	58.969	0.863%	6.947%
16.0	264.618	7.778	66.747	0.916%	7.863%
17.0	262.776	8.213	74.959	0.968%	8.831%
18.0	261.236	8.640	83.599	1.018%	9.849%
19.0	259.921	9.067	92.666	1.068%	10.917%
20.0	258.432	9.487	102.154	1.118%	12.035%
21.0	257.024	9.898	112.051	1.166%	13.201%
22.0	255.581	10.301	122.353	1.214%	14.414%
23.0	254.359	10.700	133.052	1.261%	15.675%
24.0	252.907	11.091	144.143	1.307%	16.982%
25.0	251.233	11.463	155.606	1.350%	18.332%
26.0	249.198	11.813	167.419	1.392%	19.724%
27.0	247.119	12.142	179.561	1.431%	21.154%
28.0	245.062	12.461	192.022	1.468%	22.622%
29.0	242.802	12.764	204.786	1.504%	24.126%
30.0	240.180	13.040	217.827	1.536%	25.662%
31.0	237.248	13.286	231.113	1.565%	27.228%
32.0	234.499	13.515	244.628	1.592%	28.820%
33.0	231.234	13.721	258.348	1.616%	30.436%
34.0	227.659	13.887	272.236	1.636%	32.072%
35.0	223.986	14.026	286.262	1.652%	33.725%
36.0	219.503	14.121	300.383	1.664%	35.388%
37.0	215.579	14.190	314.573	1.672%	37.060%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	211.719	14.263	328.836	1.680%	38.740%
39.0	207.799	14.319	343.155	1.687%	40.427%
40.0	204.193	14.369	357.524	1.693%	42.120%
41.0	200.636	14.416	371.940	1.698%	43.818%
42.0	197.160	14.453	386.392	1.703%	45.521%
43.0	193.704	14.479	400.871	1.706%	47.227%
44.0	190.249	14.491	415.362	1.707%	48.934%
45.0	187.021	14.499	429.861	1.708%	50.642%
46.0	183.753	14.500	444.362	1.708%	52.351%
47.0	180.600	14.491	458.853	1.707%	54.058%
48.0	176.949	14.454	473.307	1.703%	55.761%
49.0	173.326	14.384	487.691	1.695%	57.455%
50.0	169.335	14.287	501.978	1.683%	59.138%
51.0	164.996	14.145	516.123	1.666%	60.805%
52.0	160.348	13.961	530.084	1.645%	62.449%
53.0	156.096	13.765	543.849	1.622%	64.071%
54.0	151.757	13.569	557.418	1.599%	65.670%
55.0	147.536	13.360	570.778	1.574%	67.244%
56.0	143.109	13.133	583.911	1.547%	68.791%
57.0	138.283	12.866	596.777	1.516%	70.307%
58.0	132.813	12.536	609.313	1.477%	71.784%
59.0	127.132	12.153	621.466	1.432%	73.215%
60.0	121.679	11.755	633.221	1.385%	74.600%
61.0	116.192	11.352	644.572	1.337%	75.937%
62.0	111.381	10.966	655.538	1.292%	77.229%
63.0	107.012	10.622	666.160	1.251%	78.481%
64.0	102.661	10.289	676.448	1.212%	79.693%
65.0	98.130	9.937	686.385	1.171%	80.863%
66.0	93.633	9.568	695.953	1.127%	81.991%
67.0	88.740	9.170	705.123	1.080%	83.071%
68.0	84.339	8.768	713.891	1.033%	84.104%
69.0	80.273	8.398	722.289	0.989%	85.093%
70.0	76.516	8.052	730.341	0.949%	86.042%
71.0	71.943	7.673	738.014	0.904%	86.946%
72.0	67.270	7.239	745.253	0.853%	87.799%
73.0	63.063	6.815	752.068	0.803%	88.602%
74.0	59.199	6.428	758.496	0.757%	89.359%
75.0	55.482	6.059	764.555	0.714%	90.073%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	51.469	5.677	770.233	0.669%	90.742%
77.0	47.605	5.282	775.515	0.622%	91.364%
78.0	43.697	4.887	780.402	0.576%	91.940%
79.0	39.896	4.491	784.894	0.529%	92.469%
80.0	35.743	4.078	788.972	0.480%	92.949%
81.0	32.210	3.675	792.646	0.433%	93.382%
82.0	29.354	3.338	795.985	0.393%	93.775%
83.0	26.928	3.060	799.045	0.360%	94.136%
84.0	24.638	2.809	801.854	0.331%	94.467%
85.0	21.784	2.534	804.387	0.298%	94.765%
86.0	19.564	2.260	806.648	0.266%	95.032%
87.0	17.845	2.047	808.695	0.241%	95.273%
88.0	16.643	1.889	810.584	0.223%	95.495%
89.0	15.188	1.745	812.329	0.206%	95.701%
90.0	13.712	1.585	813.913	0.187%	95.888%
91.0	12.684	1.447	815.361	0.170%	96.058%
92.0	11.896	1.347	816.708	0.159%	96.217%
93.0	11.191	1.265	817.972	0.149%	96.366%
94.0	10.575	1.191	819.164	0.140%	96.506%
95.0	10.054	1.128	820.291	0.133%	96.639%
96.0	9.725	1.080	821.371	0.127%	96.766%
97.0	9.294	1.036	822.407	0.122%	96.888%
98.0	8.710	0.979	823.386	0.115%	97.004%
99.0	7.897	0.901	824.286	0.106%	97.110%
100.0	7.105	0.811	825.098	0.096%	97.205%
101.0	6.515	0.734	825.832	0.087%	97.292%
102.0	5.737	0.658	826.490	0.078%	97.369%
103.0	4.619	0.554	827.044	0.065%	97.435%
104.0	4.147	0.467	827.512	0.055%	97.490%
105.0	4.302	0.449	827.960	0.053%	97.543%
106.0	4.580	0.469	828.430	0.055%	97.598%
107.0	4.959	0.501	828.931	0.059%	97.657%
108.0	5.048	0.523	829.454	0.062%	97.719%
109.0	4.611	0.502	829.957	0.059%	97.778%
110.0	4.222	0.457	830.413	0.054%	97.831%
111.0	4.109	0.428	830.841	0.050%	97.882%
112.0	4.013	0.414	831.255	0.049%	97.931%
113.0	4.060	0.409	831.664	0.048%	97.979%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	4.173	0.414	832.078	0.049%	98.028%
115.0	4.302	0.423	832.501	0.050%	98.077%
116.0	4.376	0.429	832.931	0.051%	98.128%
117.0	4.433	0.432	833.363	0.051%	98.179%
118.0	4.472	0.433	833.796	0.051%	98.230%
119.0	4.476	0.431	834.227	0.051%	98.281%
120.0	4.459	0.426	834.654	0.050%	98.331%
121.0	4.446	0.421	835.074	0.050%	98.381%
122.0	4.423	0.415	835.489	0.049%	98.429%
123.0	4.416	0.409	835.898	0.048%	98.478%
124.0	4.436	0.405	836.303	0.048%	98.525%
125.0	4.432	0.401	836.703	0.047%	98.573%
126.0	4.421	0.395	837.098	0.047%	98.619%
127.0	4.406	0.389	837.487	0.046%	98.665%
128.0	4.392	0.383	837.870	0.045%	98.710%
129.0	4.386	0.377	838.247	0.044%	98.754%
130.0	4.370	0.370	838.617	0.044%	98.798%
131.0	4.330	0.363	838.980	0.043%	98.841%
132.0	4.314	0.355	839.335	0.042%	98.883%
133.0	4.288	0.348	839.683	0.041%	98.924%
134.0	4.274	0.341	840.023	0.040%	98.964%
135.0	4.276	0.334	840.358	0.039%	99.003%
136.0	4.288	0.329	840.687	0.039%	99.042%
137.0	4.303	0.324	841.011	0.038%	99.080%
138.0	4.318	0.319	841.331	0.038%	99.118%
139.0	4.335	0.314	841.645	0.037%	99.155%
140.0	4.354	0.309	841.954	0.036%	99.191%
141.0	4.372	0.304	842.259	0.036%	99.227%
142.0	4.394	0.299	842.558	0.035%	99.262%
143.0	4.417	0.294	842.852	0.035%	99.297%
144.0	4.440	0.289	843.141	0.034%	99.331%
145.0	4.464	0.284	843.424	0.033%	99.364%
146.0	4.484	0.278	843.702	0.033%	99.397%
147.0	4.502	0.272	843.974	0.032%	99.429%
148.0	4.522	0.266	844.240	0.031%	99.460%
149.0	4.541	0.260	844.500	0.031%	99.491%
150.0	4.565	0.253	844.753	0.030%	99.521%
151.0	4.595	0.247	845.000	0.029%	99.550%

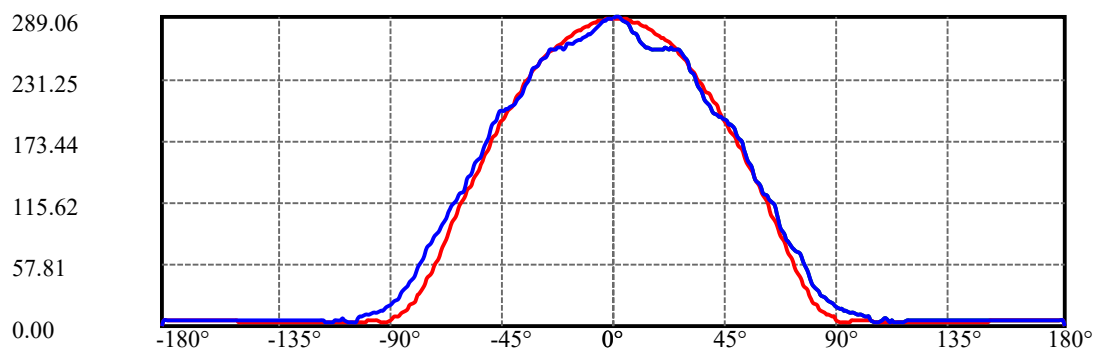
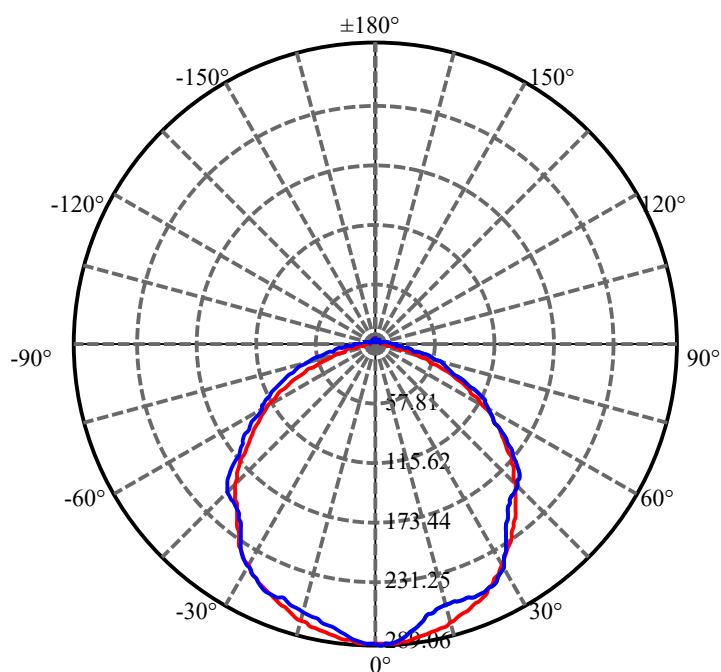
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	4.624	0.241	845.242	0.028%	99.578%
153.0	4.654	0.235	845.476	0.028%	99.606%
154.0	4.679	0.228	845.705	0.027%	99.633%
155.0	4.702	0.221	845.926	0.026%	99.659%
156.0	4.728	0.214	846.141	0.025%	99.684%
157.0	4.756	0.207	846.348	0.024%	99.709%
158.0	4.785	0.200	846.548	0.024%	99.732%
159.0	4.817	0.193	846.741	0.023%	99.755%
160.0	4.844	0.186	846.927	0.022%	99.777%
161.0	4.873	0.178	847.105	0.021%	99.798%
162.0	4.899	0.170	847.275	0.020%	99.818%
163.0	4.926	0.162	847.437	0.019%	99.837%
164.0	4.952	0.154	847.590	0.018%	99.855%
165.0	4.976	0.145	847.736	0.017%	99.872%
166.0	5.000	0.137	847.873	0.016%	99.888%
167.0	5.024	0.128	848.001	0.015%	99.904%
168.0	5.043	0.119	848.121	0.014%	99.918%
169.0	5.065	0.110	848.231	0.013%	99.931%
170.0	5.082	0.101	848.332	0.012%	99.943%
171.0	5.102	0.092	848.425	0.011%	99.953%
172.0	5.116	0.083	848.507	0.010%	99.963%
173.0	5.132	0.073	848.581	0.009%	99.972%
174.0	5.145	0.064	848.645	0.008%	99.979%
175.0	5.158	0.054	848.699	0.006%	99.986%
176.0	5.171	0.044	848.743	0.005%	99.991%
177.0	5.177	0.035	848.778	0.004%	99.995%
178.0	5.184	0.025	848.803	0.003%	99.998%
179.0	5.189	0.015	848.817	0.002%	100.000%
180.0	0.000	0.002	848.820	0.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	217.83	25.66%
0-40	357.52	42.12%
0-60	633.22	74.60%
0-90	813.91	95.89%
0-120	834.65	98.33%
0-180	848.82	100.00%
60-90	180.69	21.29%
90-120	20.74	2.44%
90-130	24.70	2.91%
90-150	30.84	3.63%
90-180	34.90	4.11%
0-64.26	679.06	80.00%

ZONAL LUMEN SUMMARY

0-10	26.89
10-20	75.27
20-30	115.67
30-40	139.70
40-50	144.45
50-60	131.24
60-70	97.12
70-80	58.63
80-90	24.94
90-100	11.18
100-110	5.32
110-120	4.24
120-130	3.96
130-140	3.34
140-150	2.80
150-160	2.17
160-170	1.41
170-180	0.48



C90(Max):

C0/C180:

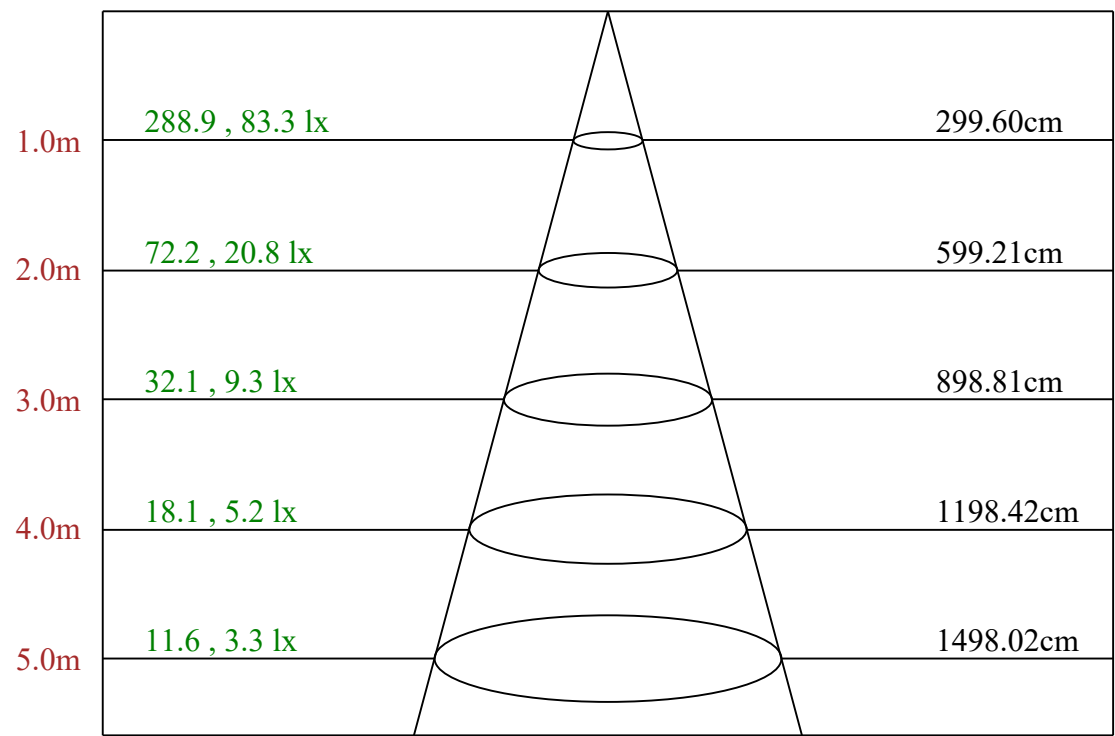
C90/C270:

Field angle(10%Imax):C0/180Left:78.8 Right:77.0

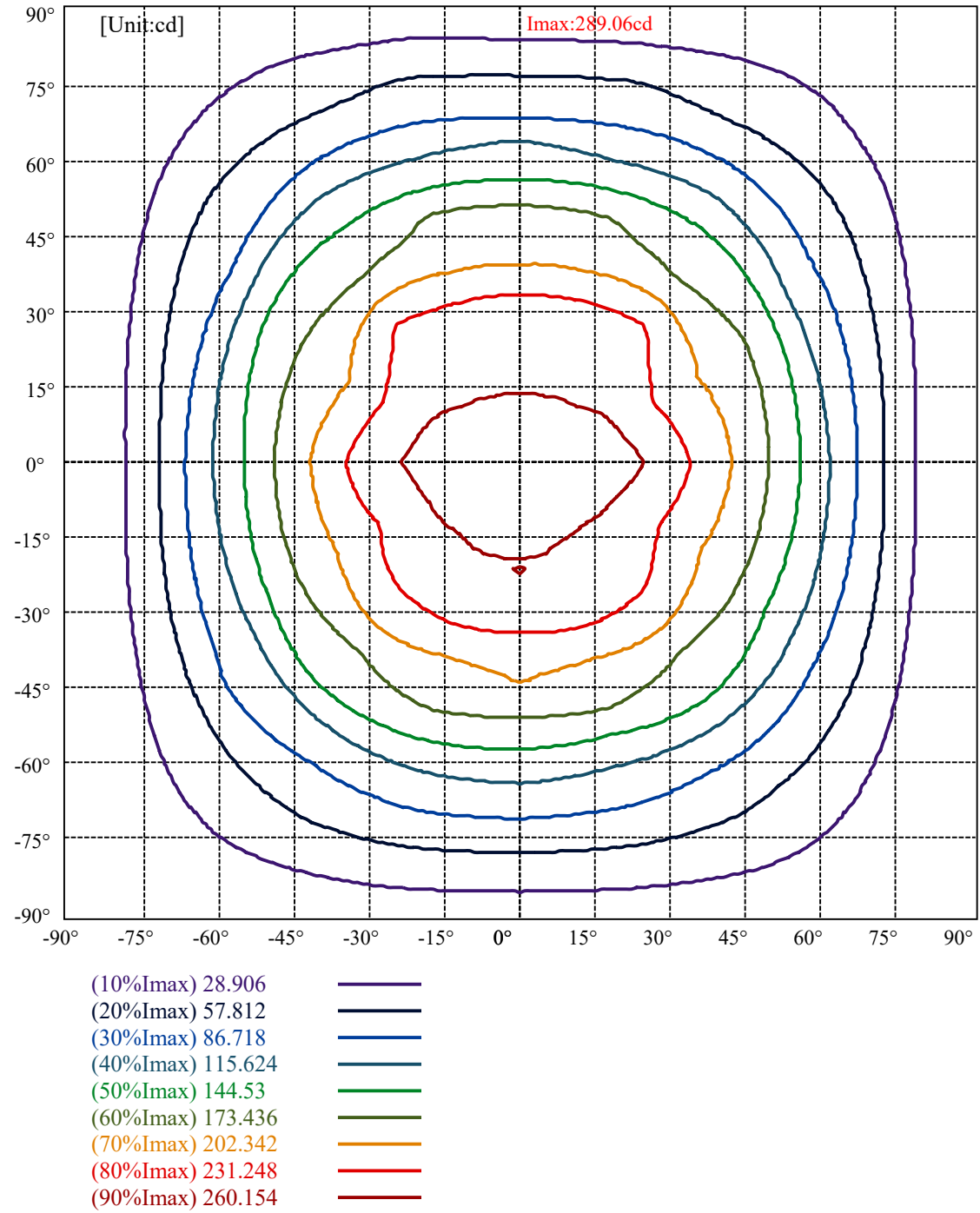
:C90/270Left:85.7 Right:82.3

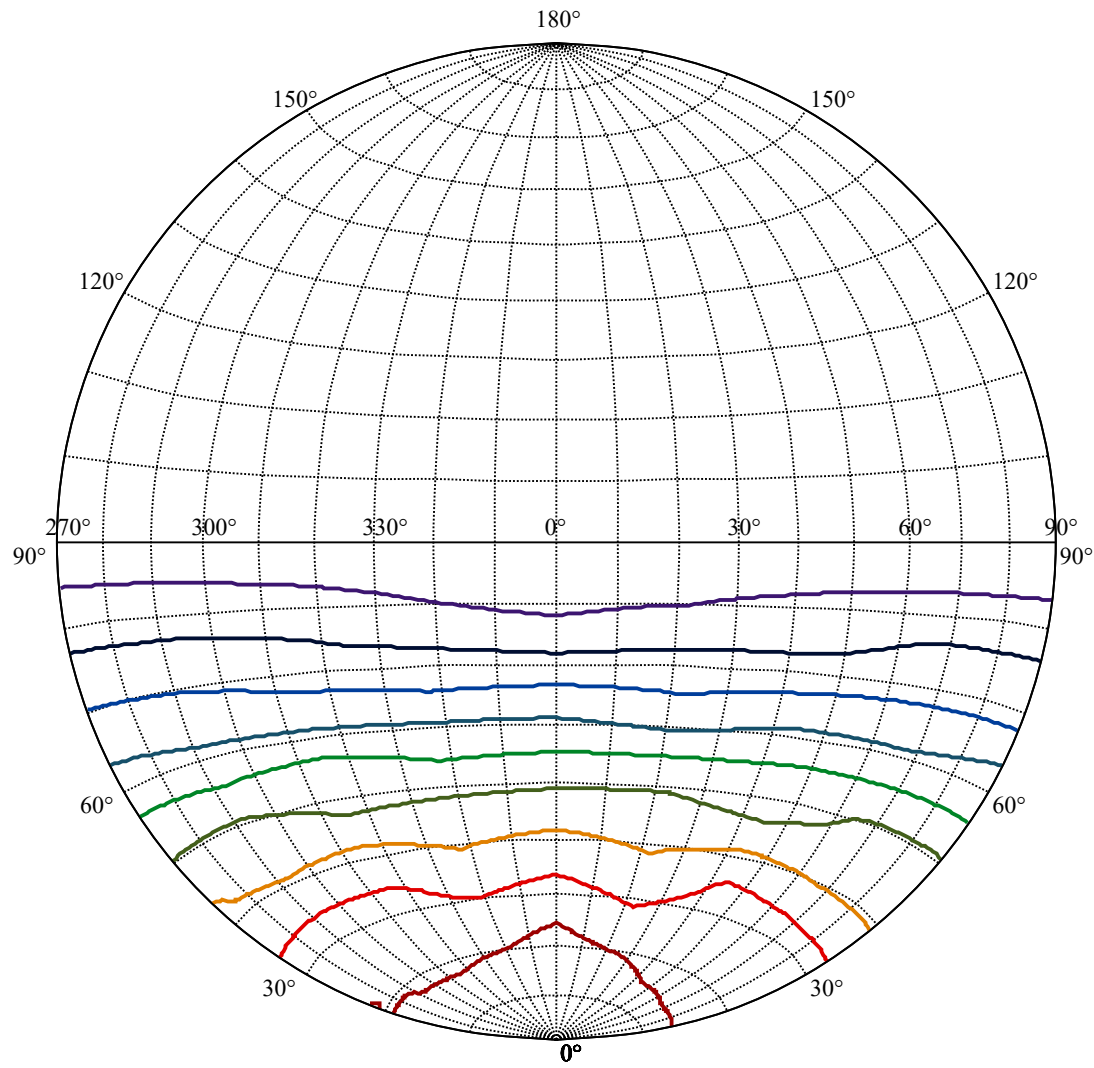
Beam Angle(50%Imax):C0/180Left:55.3 Right:54.5

:C90/270Left:57.6 Right:54.7



Max , Ave Beam angle of C90 plane 112.55





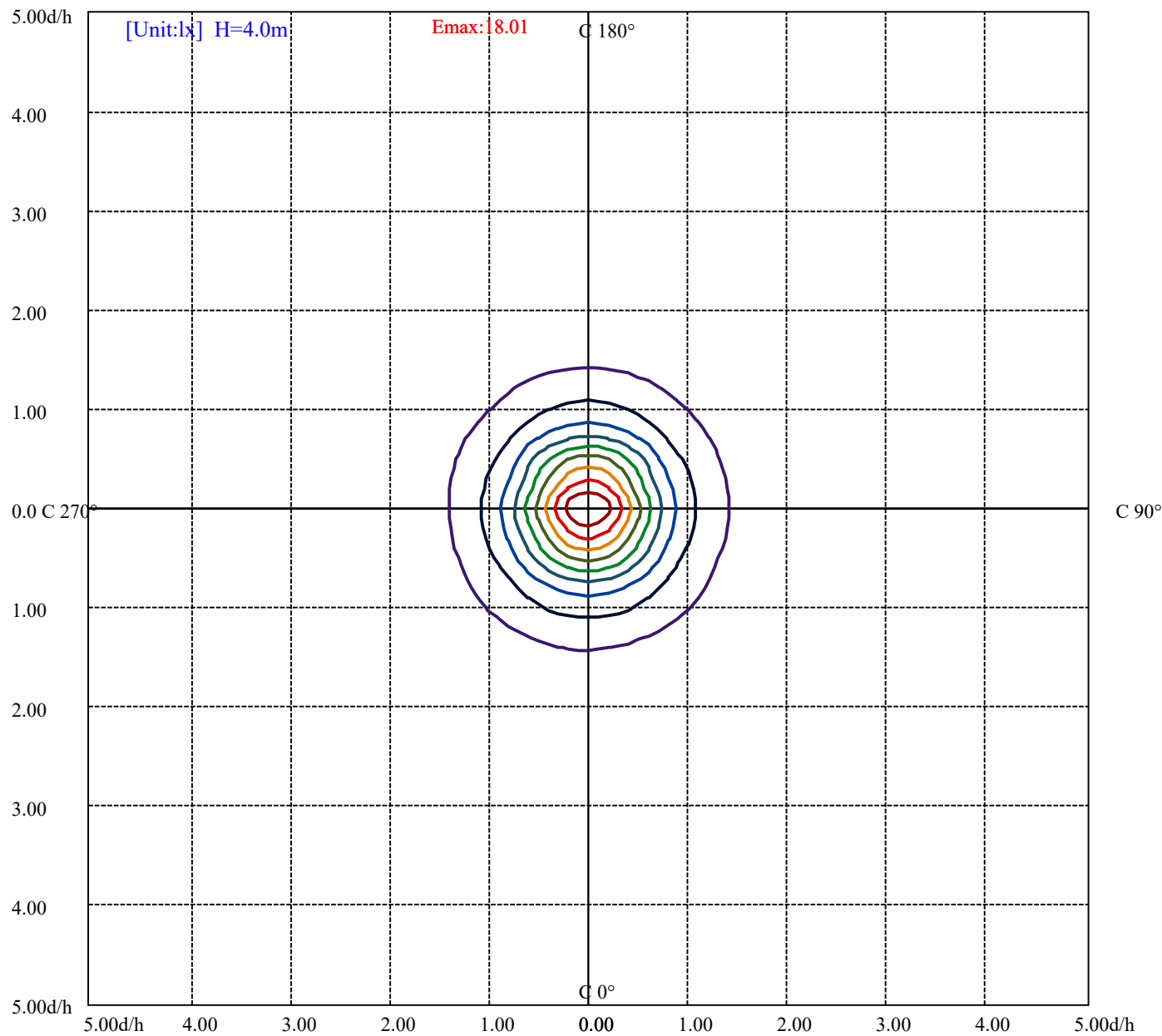
House

[Unit:cd]

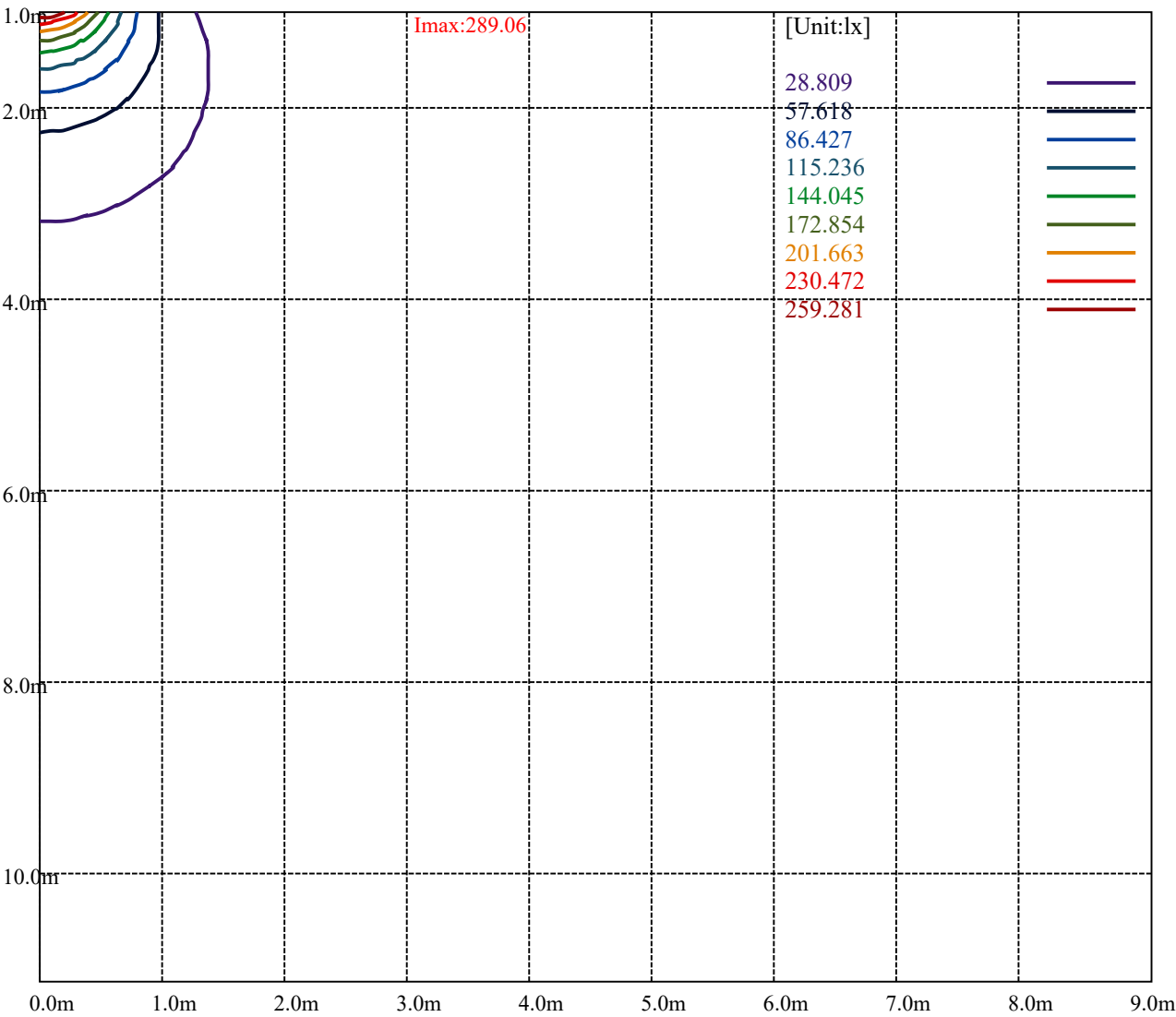
Road

I_{max} :289.06

(10% I_{max})	28.906	
(20% I_{max})	57.812	
(30% I_{max})	86.718	
(40% I_{max})	115.624	
(50% I_{max})	144.53	
(60% I_{max})	173.436	
(70% I_{max})	202.342	
(80% I_{max})	231.248	
(90% I_{max})	260.154	



(10%Emax)	1.800563	
(20%Emax)	3.601125	
(30%Emax)	5.401688	
(40%Emax)	7.20225	
(50%Emax)	9.002812	
(60%Emax)	10.80338	
(70%Emax)	12.60394	
(80%Emax)	14.4045	
(90%Emax)	16.20506	



Luminance Table

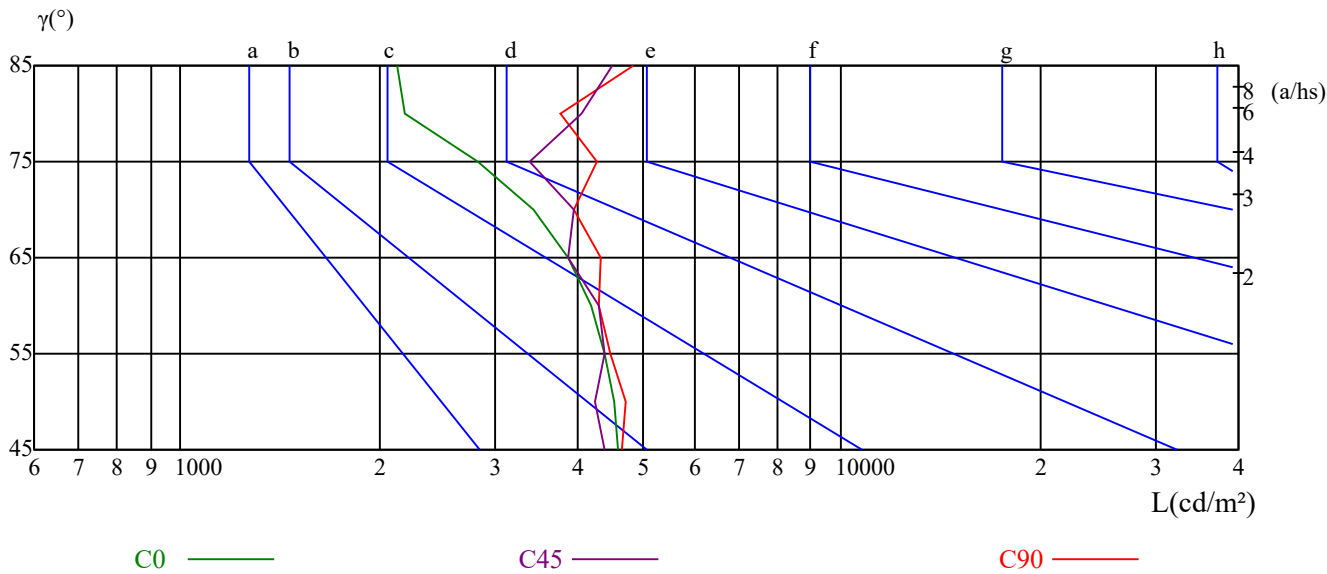
γ	45	50	55	60	65	70	75	80	85
C0	4606	4545	4380	4191	3873	3430	2818	2189	2122
C45	4399	4245	4384	4309	3875	3941	3380	4044	4517
C90	4669	4708	4464	4291	4338	3948	4274	3759	4864

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3808	4387	3988	2707	4423	3675	2192	5187	4732

Glare Table

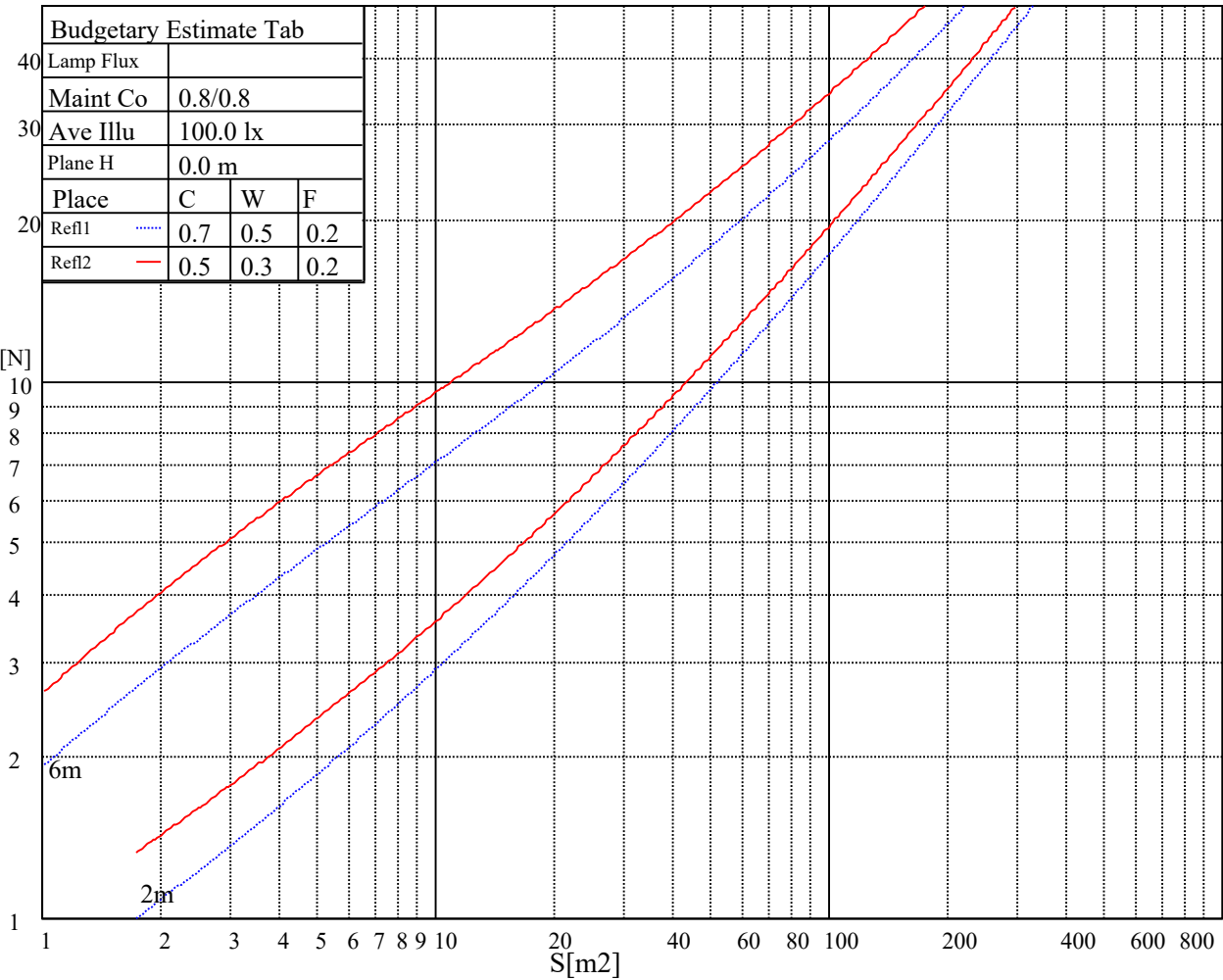
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	17.01	18.56	17.43	18.96	19.38	17.32	18.87	17.74	19.27	19.69
	3H	18.55	19.96	18.99	20.38	20.82	19.01	20.42	19.46	20.85	21.29
	4H	19.04	20.37	19.50	20.80	21.26	19.79	21.12	20.25	21.56	22.02
	6H	19.36	20.60	19.83	21.05	21.54	20.41	21.65	20.88	22.09	22.58
	8H	19.43	20.62	19.90	21.08	21.58	20.63	21.83	21.10	22.28	22.78
	12H	19.48	20.63	19.96	21.09	21.60	20.85	22.01	21.33	22.47	22.97
4H	2H	17.73	19.06	18.19	19.50	19.96	17.98	19.31	18.44	19.75	20.21
	3H	19.44	20.58	19.92	21.04	21.55	19.82	20.96	20.30	21.43	21.93
	4H	20.10	21.11	20.59	21.60	22.13	20.81	21.83	21.31	22.32	22.85
	6H	20.51	21.42	21.03	21.93	22.46	21.53	22.44	22.05	22.95	23.49
	8H	20.65	21.51	21.19	22.02	22.58	21.84	22.70	22.38	23.21	23.77
	12H	20.79	21.58	21.33	22.09	22.68	22.17	22.97	22.71	23.48	24.07
8H	4H	20.44	21.29	20.97	21.81	22.36	21.08	21.94	21.62	22.45	23.01
	6H	21.03	21.74	21.58	22.28	22.87	21.96	22.68	22.51	23.21	23.80
	8H	21.33	21.96	21.90	22.53	23.11	22.44	23.07	23.01	23.64	24.22
	12H	21.58	22.12	22.16	22.69	23.29	22.90	23.44	23.48	24.02	24.61
12H	4H	20.50	21.29	21.04	21.80	22.39	21.11	21.91	21.65	22.42	23.01
	6H	21.20	21.83	21.77	22.40	22.98	22.09	22.72	22.66	23.29	23.87
	8H	21.52	22.06	22.10	22.64	23.23	22.57	23.11	23.15	23.69	24.28
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.8					0.3/-0.6				
S = 1.5H		0.7/-0.5					0.5/-0.7				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BKBF					BK4				
Uncorrected UGR		7.1					3.3				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	0.98	0.98	0.98	0.96
1	1.02	0.98	0.94	1.00	0.96	0.92	0.95	0.91	0.88	0.90	0.87	0.85	0.86	0.84	0.82	0.79
2	0.89	0.82	0.76	0.87	0.80	0.75	0.83	0.77	0.73	0.79	0.74	0.70	0.75	0.71	0.68	0.66
3	0.78	0.70	0.63	0.76	0.69	0.62	0.73	0.66	0.61	0.69	0.64	0.59	0.66	0.62	0.58	0.55
4	0.69	0.60	0.53	0.68	0.59	0.53	0.64	0.57	0.52	0.62	0.56	0.51	0.59	0.54	0.49	0.47
5	0.62	0.53	0.46	0.60	0.52	0.46	0.58	0.50	0.45	0.55	0.49	0.44	0.53	0.47	0.43	0.41
6	0.56	0.47	0.40	0.54	0.46	0.40	0.52	0.45	0.39	0.50	0.43	0.38	0.48	0.42	0.38	0.36
7	0.50	0.41	0.35	0.49	0.41	0.35	0.47	0.40	0.34	0.46	0.39	0.34	0.44	0.38	0.33	0.31
8	0.46	0.37	0.31	0.45	0.37	0.31	0.43	0.36	0.31	0.42	0.35	0.30	0.40	0.34	0.30	0.28
9	0.42	0.34	0.28	0.41	0.33	0.28	0.40	0.33	0.28	0.38	0.32	0.27	0.37	0.31	0.27	0.25
10	0.39	0.31	0.26	0.38	0.31	0.25	0.37	0.30	0.25	0.36	0.29	0.25	0.34	0.29	0.25	0.23

Intensity data(cd)

Appendix Page: 18 Total:24

C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	288.09	288.16	287.94	287.49	287.29	286.82	286.23	285.01	284.02
22.5	288.09	288.70	288.57	288.57	288.24	287.58	286.71	285.64	283.97
45.0	288.09	288.70	288.62	287.90	286.93	285.68	283.65	282.37	280.09
67.5	288.09	288.92	288.28	287.13	285.36	283.59	281.24	278.19	275.04
90.0	288.09	289.06	288.25	287.15	285.60	284.04	281.78	278.28	275.50
112.5	288.09	289.00	288.52	287.40	286.36	285.04	283.14	280.57	277.64
135.0	288.09	288.98	289.04	287.90	287.17	286.39	284.79	283.46	281.66
157.5	288.09	288.79	288.77	288.39	287.65	287.08	286.43	286.15	285.25
180.0	288.09	288.02	287.79	286.89	286.15	285.08	284.62	283.84	283.03
202.5	288.09	287.47	286.95	286.22	284.94	283.36	282.23	281.65	281.28
225.0	288.09	286.98	286.30	284.97	284.17	283.27	281.69	280.19	278.60
247.5	288.09	286.93	286.27	285.15	284.44	281.97	280.06	278.42	276.68
270.0	288.09	287.19	286.74	285.98	285.01	282.25	280.02	278.46	275.76
292.5	288.09	287.14	286.58	286.20	285.35	283.04	280.76	279.46	277.15
315.0	288.09	287.11	287.02	286.47	286.12	285.15	283.49	280.86	278.69
337.5	288.09	287.39	286.81	287.00	286.64	286.20	285.21	283.88	282.07
360.0	288.09	288.16	287.94	287.49	287.29	286.82	286.23	285.01	284.02
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	283.29	282.89	282.01	280.94	279.71	278.39	276.80	274.95	273.04
22.5	282.55	280.60	279.33	278.04	276.53	274.43	272.32	269.54	267.27
45.0	277.74	274.94	272.67	269.34	266.44	263.19	261.06	258.90	256.51
67.5	272.53	269.30	266.65	264.23	261.90	259.82	258.73	258.12	257.10
90.0	272.04	268.45	265.35	262.86	260.68	259.54	258.63	257.80	257.95
112.5	275.22	272.21	268.34	265.39	262.51	259.68	257.54	256.49	255.61
135.0	279.43	276.53	273.74	270.87	267.77	264.52	261.69	258.63	255.92
157.5	284.01	282.23	280.50	278.75	277.19	275.42	273.16	270.90	268.08
180.0	281.62	280.65	279.70	278.79	277.34	275.89	274.66	273.41	271.60
202.5	280.25	278.95	276.98	275.53	273.93	272.47	270.73	269.06	266.78
225.0	276.73	274.65	272.70	271.20	269.15	267.79	265.83	264.42	261.53
247.5	274.27	272.66	271.37	270.10	267.49	265.21	264.60	263.94	261.66
270.0	273.59	272.28	271.16	269.37	267.42	266.85	266.24	264.55	263.84
292.5	274.58	272.03	270.62	268.84	266.74	264.34	263.91	262.98	260.98
315.0	276.42	274.19	271.65	269.22	266.93	265.28	263.90	263.19	261.33
337.5	280.16	277.99	276.03	273.76	272.21	270.59	269.03	267.01	265.22
360.0	283.29	282.89	282.01	280.94	279.71	278.39	276.80	274.95	273.04
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	271.17	269.95	268.60	267.21	265.58	263.92	261.42	258.64	255.20
22.5	264.83	262.44	259.04	255.47	252.17	248.96	245.56	242.32	238.91
45.0	254.46	252.66	251.32	249.96	248.60	248.21	247.96	247.26	245.71
67.5	257.00	257.64	257.38	257.32	257.36	257.08	256.22	256.07	254.96
90.0	258.67	258.69	259.14	259.59	259.36	259.53	259.02	257.87	257.77
112.5	255.48	255.83	256.79	256.36	256.47	256.06	255.08	254.92	254.33
135.0	252.87	250.48	248.29	247.08	245.31	244.29	243.75	243.84	243.27
157.5	264.92	261.45	258.84	256.42	253.90	251.36	248.83	245.69	242.59
180.0	269.57	267.70	265.79	264.12	262.25	260.66	258.66	256.69	254.49
202.5	264.51	261.81	259.02	256.36	253.83	251.26	249.15	246.59	243.93
225.0	260.29	259.64	258.65	256.01	253.41	251.87	250.66	247.09	244.14
247.5	260.73	260.93	258.96	257.14	257.27	257.85	256.57	255.55	255.44
270.0	263.14	260.25	258.67	260.78	260.19	259.28	259.05	258.10	254.12
292.5	259.71	259.92	257.70	255.50	255.03	255.68	254.86	253.97	253.33
315.0	258.87	257.65	257.37	256.45	254.36	252.02	250.74	248.92	245.65
337.5	263.56	261.70	259.35	256.62	254.21	251.72	248.98	246.20	243.32
360.0	271.17	269.95	268.60	267.21	265.58	263.92	261.42	258.64	255.20

Intensity data(cd)

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C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	252.50	249.88	247.24	243.89	240.50	237.03	233.77	229.86	226.32
22.5	235.89	232.97	229.69	226.50	223.19	219.93	216.96	213.85	210.03
45.0	245.03	244.41	242.98	241.85	240.47	238.63	236.84	235.87	234.39
67.5	254.51	254.70	251.86	247.66	245.00	240.08	233.81	230.73	226.03
90.0	255.93	251.98	249.18	245.83	238.91	234.64	230.63	223.78	219.84
112.5	252.97	252.40	250.92	247.24	243.65	240.44	233.57	228.07	224.60
135.0	242.88	242.37	242.01	241.07	240.07	238.71	236.89	235.24	233.96
157.5	239.32	235.86	231.89	227.78	223.83	220.17	216.24	212.51	208.72
180.0	252.26	249.60	247.36	244.87	242.21	238.87	235.64	232.29	228.44
202.5	241.19	237.71	234.05	231.23	229.05	226.79	224.04	220.72	217.15
225.0	242.41	242.98	241.59	240.48	239.22	238.44	235.12	230.96	227.68
247.5	252.35	248.43	246.23	243.57	239.59	237.34	235.09	232.15	227.60
270.0	252.04	250.32	247.32	244.92	243.04	240.25	235.80	229.06	223.60
292.5	251.10	247.46	245.39	243.85	240.48	238.27	236.55	234.06	229.46
315.0	243.27	242.19	242.30	240.60	238.80	237.35	236.91	234.01	229.41
337.5	240.25	237.73	234.82	231.54	227.96	225.05	221.89	219.38	216.55
360.0	252.50	249.88	247.24	243.89	240.50	237.03	233.77	229.86	226.32
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	222.98	219.74	216.53	213.46	209.65	205.87	201.53	197.37	193.44
22.5	207.10	204.71	203.08	200.61	197.72	195.07	193.15	190.87	188.31
45.0	230.15	225.73	222.03	215.80	209.01	203.56	199.22	191.86	186.62
67.5	218.86	215.18	208.91	204.61	200.43	195.92	192.58	188.98	187.18
90.0	214.43	210.04	205.81	202.09	199.39	197.00	195.28	195.31	193.35
112.5	217.77	213.06	209.40	204.22	200.62	196.71	192.89	190.16	187.51
135.0	230.85	225.80	221.04	216.60	210.41	203.64	198.05	192.46	186.25
157.5	205.28	201.35	197.42	194.63	192.48	190.79	188.66	185.81	182.49
180.0	223.68	219.61	215.44	211.16	207.11	203.41	200.45	197.83	194.44
202.5	213.50	210.78	208.16	205.09	200.95	197.49	193.65	190.16	187.44
225.0	224.85	221.35	217.17	214.47	211.72	207.78	202.45	194.83	188.04
247.5	220.81	215.64	210.90	207.04	204.28	200.47	197.54	196.75	195.67
270.0	218.83	214.97	212.41	208.96	206.44	205.52	203.52	202.99	201.85
292.5	223.54	217.51	213.23	208.78	205.67	202.21	198.91	197.89	195.78
315.0	226.03	224.02	219.98	214.75	211.19	207.76	203.27	196.96	190.21
337.5	213.39	209.77	205.99	202.52	200.02	196.98	193.41	189.04	185.41
360.0	222.98	219.74	216.53	213.46	209.65	205.87	201.53	197.37	193.44
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	189.07	185.24	181.55	177.37	173.70	169.60	164.43	159.51	154.49
22.5	184.68	181.72	179.22	176.67	173.83	171.40	168.03	161.97	155.01
45.0	180.57	174.87	170.45	165.49	161.61	158.40	155.86	152.49	151.45
67.5	186.60	184.37	182.31	178.72	178.05	176.02	170.51	164.88	159.80
90.0	191.66	188.46	187.86	185.03	180.21	175.69	171.73	164.97	159.52
112.5	184.85	183.46	181.15	178.26	177.76	177.61	174.02	168.41	162.93
135.0	181.62	176.35	170.59	166.10	161.45	156.65	153.29	151.27	149.56
157.5	180.05	178.21	175.93	172.40	169.71	166.18	162.14	158.12	155.40
180.0	190.21	185.26	180.23	175.32	169.72	164.49	159.22	154.44	150.23
202.5	185.15	181.59	177.26	173.98	171.07	165.98	159.96	155.60	152.06
225.0	182.36	177.89	175.23	171.62	167.54	165.16	163.46	162.08	160.85
247.5	195.03	193.89	192.25	188.75	184.35	179.11	173.88	167.21	160.39
270.0	200.45	197.13	192.73	188.14	182.81	175.32	168.27	162.57	158.56
292.5	193.74	192.40	190.65	187.73	182.96	177.81	172.48	165.99	158.62
315.0	184.48	179.86	175.03	171.44	168.17	163.15	160.53	159.25	157.96
337.5	181.82	179.35	177.16	174.16	170.28	166.79	162.13	156.80	150.70
360.0	189.07	185.24	181.55	177.37	173.70	169.60	164.43	159.51	154.49

Intensity data(cd)

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C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	149.98	145.84	142.33	137.12	131.40	125.88	121.63	116.42	110.48
22.5	150.82	145.36	138.21	131.91	125.40	118.30	111.69	105.12	99.38
45.0	148.59	145.98	144.13	141.15	136.46	130.73	125.08	118.12	112.33
67.5	153.01	148.10	142.92	136.83	130.63	125.06	120.55	116.18	112.51
90.0	153.99	148.63	142.53	136.92	132.61	128.60	124.56	121.23	119.30
112.5	156.18	150.18	144.50	139.36	132.42	127.89	123.12	118.94	115.28
135.0	147.61	145.32	142.55	139.80	135.35	130.72	126.00	119.81	114.01
157.5	152.28	147.71	142.38	137.31	130.99	123.76	117.13	110.06	103.05
180.0	145.74	140.86	136.27	131.87	127.51	122.94	118.58	113.27	107.92
202.5	146.74	142.72	139.17	134.74	128.82	120.84	112.49	106.52	102.48
225.0	158.34	153.81	147.32	141.92	135.31	127.49	120.73	115.75	112.74
247.5	154.56	150.85	148.49	144.57	139.25	134.28	129.08	122.72	117.86
270.0	156.16	152.12	147.61	142.66	137.98	131.77	126.46	123.37	121.00
292.5	152.34	147.06	143.80	139.91	135.13	129.89	125.11	119.34	114.36
315.0	155.89	152.99	149.06	143.30	137.33	131.70	124.78	117.93	112.38
337.5	145.88	143.04	138.48	133.16	128.42	124.26	119.87	114.29	107.01
360.0	149.98	145.84	142.33	137.12	131.40	125.88	121.63	116.42	110.48
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	104.23	99.52	95.01	90.29	84.29	78.79	73.03	68.09	62.52
22.5	95.10	92.03	87.74	85.35	82.18	79.58	78.25	75.41	68.51
45.0	107.41	101.03	95.06	90.97	86.69	82.87	80.35	78.25	72.97
67.5	109.30	107.25	103.81	98.93	91.82	84.08	78.51	74.51	70.98
90.0	116.89	113.10	106.42	98.39	91.02	85.87	81.39	78.39	74.46
112.5	112.58	110.10	106.98	102.80	96.20	88.77	82.37	77.52	73.19
135.0	108.38	102.22	96.90	91.44	86.73	82.87	79.86	77.50	74.25
157.5	95.71	88.78	83.53	79.85	76.44	73.84	71.22	68.16	65.20
180.0	102.43	97.12	91.84	86.64	80.54	74.46	68.85	63.05	57.33
202.5	98.74	94.17	90.64	88.47	87.22	86.20	81.38	74.71	67.63
225.0	108.43	103.91	99.49	93.66	87.84	84.71	82.40	78.37	74.28
247.5	115.02	112.25	108.22	103.76	100.71	96.19	89.86	87.09	83.12
270.0	117.32	112.50	108.84	105.46	99.91	95.06	92.04	87.92	84.50
292.5	111.22	108.62	104.82	101.04	97.85	94.19	88.50	84.60	81.10
315.0	108.77	104.91	99.87	94.50	88.08	82.50	79.47	76.92	72.79
337.5	100.66	95.07	90.90	86.57	82.33	79.44	76.89	73.73	68.27
360.0	104.23	99.52	95.02	90.30	84.29	78.79	73.03	68.09	62.52
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	56.80	52.22	46.70	42.34	37.33	33.68	28.95	25.14	22.06
22.5	62.16	56.97	52.85	47.63	42.79	39.55	38.55	35.33	28.58
45.0	64.65	57.79	53.85	50.79	48.04	46.73	45.60	45.06	40.77
67.5	68.24	65.80	64.10	61.92	59.02	53.71	47.72	41.88	36.94
90.0	72.35	69.47	67.44	64.22	58.76	52.80	46.88	41.54	37.89
112.5	70.63	68.05	65.82	63.14	61.25	57.06	51.30	45.43	40.27
135.0	67.35	60.76	55.95	52.18	49.35	47.91	46.15	44.67	40.63
157.5	61.59	57.13	52.91	49.23	44.67	41.07	36.34	33.37	28.72
180.0	52.43	47.90	44.02	39.01	35.27	30.99	28.20	24.01	21.20
202.5	60.12	56.10	52.17	47.52	42.35	38.60	36.73	33.91	31.11
225.0	71.60	65.81	62.91	59.03	56.47	52.79	50.15	44.93	39.49
247.5	78.39	76.01	71.30	68.09	63.31	57.58	52.07	47.44	43.72
270.0	81.56	76.95	73.71	68.68	63.14	58.13	53.11	48.76	44.70
292.5	76.95	74.38	69.99	66.21	61.58	56.57	51.34	47.03	43.14
315.0	68.95	66.11	61.13	58.89	55.02	53.72	49.77	46.56	41.94
337.5	62.56	57.56	52.34	48.83	45.14	40.79	36.28	33.27	30.75
360.0	56.80	52.22	46.70	42.34	37.33	33.68	28.95	25.14	22.06

Intensity data(cd)

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C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	18.86	17.00	14.37	13.12	10.74	10.94	9.03	8.23	5.10
22.5	26.44	24.45	23.28	23.77	18.10	15.56	14.35	12.84	11.76
45.0	34.31	29.78	26.95	24.98	22.85	20.59	18.92	17.97	16.75
67.5	33.86	31.57	29.32	26.87	24.35	22.14	20.47	19.14	17.99
90.0	34.78	32.20	29.61	26.98	24.61	22.51	20.81	19.45	17.85
112.5	36.68	33.75	31.38	28.81	26.19	23.94	22.15	20.99	19.76
135.0	35.20	30.63	27.43	25.10	23.11	21.20	19.58	18.43	17.28
157.5	25.12	23.19	21.70	20.46	17.85	15.12	13.67	12.58	11.22
180.0	18.92	16.33	14.20	12.68	11.44	9.84	8.48	6.45	5.02
202.5	28.29	27.13	25.32	21.06	17.65	15.94	14.71	13.55	12.51
225.0	35.26	31.70	29.04	27.03	24.84	22.09	20.14	19.08	17.37
247.5	40.39	36.70	33.87	30.83	27.37	24.80	22.64	21.62	20.48
270.0	41.43	38.23	35.26	31.78	27.88	25.13	22.77	21.18	19.11
292.5	39.92	36.81	33.95	30.68	27.22	24.63	22.72	21.94	20.02
315.0	37.75	33.90	30.54	27.40	24.97	22.05	20.52	19.37	18.26
337.5	28.15	26.29	24.64	22.65	19.38	16.53	14.55	13.49	12.54
360.0	18.86	17.00	14.37	13.12	10.74	10.94	9.03	8.23	5.10
C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	3.88	3.99	4.02	4.19	4.45	4.62	5.11	5.52	5.39
22.5	11.04	10.14	9.29	8.13	7.06	6.10	6.55	7.01	6.75
45.0	15.63	14.61	13.60	12.92	12.28	11.63	10.89	10.09	9.28
67.5	16.26	14.89	14.09	13.40	12.85	12.32	11.77	11.17	10.60
90.0	16.47	15.38	14.67	14.00	13.33	12.74	12.14	11.56	10.97
112.5	17.99	16.65	15.89	14.81	14.16	13.54	12.85	12.12	11.50
135.0	15.86	14.54	13.75	13.02	12.30	11.55	10.90	10.33	9.56
157.5	10.33	9.63	8.69	7.99	7.52	7.16	7.38	7.12	6.86
180.0	3.97	3.81	4.02	4.36	4.63	4.86	5.14	5.06	4.62
202.5	11.42	10.30	9.33	8.58	7.79	7.19	7.00	6.82	6.43
225.0	16.25	14.94	14.14	13.18	12.36	11.57	10.80	10.00	9.03
247.5	17.90	16.38	15.36	14.54	13.83	13.11	12.43	11.76	11.01
270.0	17.59	16.15	15.09	14.12	13.35	12.69	12.02	11.41	10.77
292.5	17.81	16.40	15.36	14.58	13.93	13.25	12.52	11.64	10.84
315.0	16.18	15.13	14.09	13.30	12.39	11.50	10.54	9.60	8.37
337.5	10.81	10.00	8.94	7.93	6.97	7.03	7.58	7.51	7.39
360.0	3.88	3.99	4.02	4.19	4.45	4.62	5.11	5.52	5.39
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	5.53	5.43	5.19	4.79	4.74	4.39	4.08	4.01	3.81
22.5	6.11	5.34	4.91	4.82	4.67	4.40	4.15	3.96	3.92
45.0	7.91	5.89	4.95	5.18	6.35	4.40	6.16	5.17	4.81
67.5	10.02	9.52	8.80	6.50	3.99	3.03	3.18	4.84	6.52
90.0	10.41	9.85	9.31	8.35	4.60	4.09	3.16	3.33	4.91
112.5	10.96	10.51	9.81	7.53	4.60	3.44	3.56	4.68	5.84
135.0	7.98	6.40	5.98	6.17	6.55	6.27	5.62	5.23	4.97
157.5	6.44	5.72	5.58	5.21	4.83	4.64	4.65	4.45	4.49
180.0	4.28	4.11	3.90	3.86	3.85	3.85	3.85	3.84	3.77
202.5	5.74	5.16	4.67	4.30	4.25	4.19	4.06	3.97	3.95
225.0	7.41	5.71	5.53	6.04	4.30	4.19	5.57	5.27	5.17
247.5	10.21	9.44	8.10	5.57	3.31	3.17	3.86	5.24	5.70
270.0	10.10	9.42	8.75	7.10	3.31	2.95	2.99	4.15	6.28
292.5	10.14	9.45	7.33	4.43	2.98	2.96	4.45	6.12	6.29
315.0	6.36	5.38	5.43	6.30	6.42	5.61	4.89	4.64	4.67
337.5	6.73	6.34	6.01	5.63	5.14	4.78	4.59	4.36	4.23
360.0	5.53	5.43	5.19	4.79	4.74	4.39	4.08	4.01	3.81

Intensity data(cd)

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C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	3.72	3.87	3.92	3.92	3.78	3.69	3.57	3.65	3.71
22.5	3.89	3.85	3.83	3.82	3.78	3.72	3.70	3.69	3.69
45.0	4.75	4.99	4.91	5.10	5.17	5.09	5.03	5.09	5.22
67.5	6.81	5.49	4.35	3.85	3.58	4.13	4.51	4.72	5.19
90.0	6.85	7.37	4.46	4.90	4.37	4.00	3.88	4.34	4.33
112.5	5.66	4.46	3.69	3.49	3.49	4.02	4.67	5.09	5.37
135.0	5.09	5.05	4.83	4.63	4.54	4.50	4.44	4.35	4.21
157.5	4.44	4.28	3.98	3.80	3.66	3.60	3.59	3.60	3.60
180.0	3.85	3.75	3.74	3.69	3.54	3.55	3.66	3.71	3.54
202.5	3.92	3.88	3.84	3.75	3.66	3.64	3.61	3.60	3.60
225.0	5.33	5.36	5.05	4.88	4.71	4.62	4.50	4.41	4.28
247.5	5.19	3.75	3.53	3.38	3.58	3.98	4.39	4.74	4.94
270.0	7.26	4.99	5.20	4.57	4.08	3.81	4.13	4.30	4.59
292.5	4.99	3.86	3.48	3.36	3.89	4.40	4.97	5.49	5.72
315.0	4.87	4.87	4.83	4.74	4.60	4.51	4.45	4.42	4.39
337.5	4.15	3.96	3.90	3.87	3.77	3.69	3.66	3.64	3.63
360.0	3.72	3.87	3.93	3.92	3.78	3.69	3.57	3.65	3.71
C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	3.72	3.55	3.54	3.55	3.57	3.60	3.62	3.63	3.66
22.5	3.69	3.69	3.69	3.69	3.70	3.70	3.72	3.73	3.77
45.0	4.84	4.84	4.81	4.63	4.51	4.57	4.62	4.61	4.29
67.5	5.82	6.27	6.33	6.25	6.12	5.61	5.60	5.98	6.27
90.0	4.57	4.83	5.08	5.28	5.40	5.49	5.52	5.58	5.60
112.5	5.49	5.38	5.20	5.09	5.06	5.03	5.00	4.96	4.98
135.0	4.17	4.24	4.23	4.23	4.28	4.23	4.01	3.99	3.99
157.5	3.61	3.62	3.62	3.64	3.65	3.68	3.70	3.73	3.77
180.0	3.51	3.50	3.50	3.52	3.54	3.58	3.62	3.65	3.67
202.5	3.59	3.59	3.60	3.60	3.61	3.63	3.67	3.70	3.73
225.0	4.19	4.14	4.13	4.11	4.07	4.07	4.04	4.04	4.03
247.5	4.97	4.94	4.87	4.80	4.76	4.75	4.74	4.74	4.78
270.0	4.90	5.13	5.20	5.22	5.24	5.31	5.36	5.39	5.41
292.5	5.86	5.88	5.90	5.84	5.77	5.72	5.61	5.48	5.26
315.0	4.36	4.33	4.30	4.27	4.21	4.17	4.15	4.08	3.98
337.5	3.62	3.62	3.62	3.62	3.62	3.65	3.67	3.69	3.71
360.0	3.72	3.55	3.54	3.55	3.57	3.60	3.62	3.63	3.66
C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	3.70	3.71	3.74	3.78	3.81	3.85	3.88	3.91	3.95
22.5	3.79	3.81	3.83	3.86	3.87	3.89	3.94	3.98	4.01
45.0	4.18	4.25	4.24	4.21	4.20	4.21	4.24	4.30	4.30
67.5	6.27	6.06	5.72	5.51	5.27	4.93	4.84	4.77	4.68
90.0	5.57	5.59	5.63	5.61	5.53	5.49	5.48	5.08	4.83
112.5	5.02	4.96	4.92	4.90	4.74	4.50	4.37	4.37	4.38
135.0	4.01	4.02	4.04	4.07	4.10	4.12	4.13	4.16	4.20
157.5	3.80	3.84	3.86	3.90	3.93	3.95	3.98	4.02	4.05
180.0	3.71	3.74	3.78	3.81	3.85	3.88	3.92	3.95	3.98
202.5	3.76	3.80	3.82	3.86	3.89	3.91	3.93	3.96	3.99
225.0	4.03	4.06	4.08	4.08	4.09	4.10	4.11	4.13	4.15
247.5	4.70	4.53	4.49	4.50	4.48	4.40	4.34	4.33	4.34
270.0	5.45	5.50	5.50	5.40	5.37	5.31	5.13	4.94	4.80
292.5	5.12	4.99	4.92	4.87	4.85	4.72	4.60	4.56	4.51
315.0	3.92	3.94	3.96	4.06	4.16	4.20	4.23	4.25	4.26
337.5	3.71	3.72	3.75	3.77	3.79	3.83	3.90	3.91	3.94
360.0	3.70	3.71	3.74	3.78	3.81	3.85	3.88	3.91	3.95

Intensity data(cd)

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C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	3.98	4.01	4.05	4.09	4.12	4.15	4.19	4.22	4.26
22.5	4.04	4.07	4.12	4.15	4.19	4.22	4.25	4.29	4.32
45.0	4.33	4.35	4.38	4.40	4.43	4.44	4.46	4.49	4.51
67.5	4.65	4.63	4.61	4.60	4.59	4.58	4.58	4.58	4.58
90.0	4.79	4.77	4.74	4.72	4.69	4.68	4.68	4.68	4.68
112.5	4.39	4.41	4.42	4.44	4.46	4.49	4.50	4.52	4.55
135.0	4.23	4.26	4.28	4.31	4.34	4.37	4.40	4.43	4.46
157.5	4.07	4.11	4.14	4.17	4.21	4.24	4.26	4.30	4.34
180.0	4.01	4.05	4.08	4.10	4.13	4.16	4.20	4.23	4.26
202.5	4.02	4.05	4.09	4.12	4.14	4.18	4.20	4.23	4.27
225.0	4.15	4.18	4.19	4.22	4.24	4.26	4.27	4.28	4.29
247.5	4.34	4.36	4.35	4.37	4.38	4.40	4.41	4.44	4.46
270.0	4.64	4.57	4.54	4.52	4.53	4.53	4.54	4.55	4.56
292.5	4.50	4.49	4.49	4.49	4.49	4.50	4.50	4.50	4.52
315.0	4.26	4.27	4.28	4.28	4.29	4.30	4.31	4.34	4.36
337.5	4.00	4.03	4.07	4.10	4.14	4.16	4.19	4.22	4.25
360.0	3.98	4.01	4.06	4.09	4.12	4.15	4.19	4.22	4.26
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	4.30	4.32	4.35	4.38	4.42	4.45	4.49	4.52	4.56
22.5	4.36	4.39	4.42	4.46	4.48	4.51	4.53	4.57	4.59
45.0	4.53	4.54	4.55	4.56	4.57	4.58	4.58	4.60	4.63
67.5	4.59	4.61	4.63	4.64	4.64	4.64	4.66	4.68	4.71
90.0	4.69	4.69	4.70	4.71	4.73	4.75	4.77	4.78	4.82
112.5	4.57	4.60	4.62	4.65	4.67	4.68	4.72	4.74	4.76
135.0	4.48	4.51	4.54	4.55	4.57	4.59	4.62	4.64	4.66
157.5	4.37	4.40	4.44	4.46	4.49	4.53	4.56	4.59	4.63
180.0	4.30	4.33	4.36	4.39	4.43	4.46	4.50	4.53	4.56
202.5	4.30	4.33	4.36	4.39	4.43	4.46	4.49	4.53	4.56
225.0	4.31	4.35	4.38	4.40	4.44	4.47	4.51	4.54	4.56
247.5	4.47	4.49	4.51	4.52	4.53	4.52	4.54	4.58	4.63
270.0	4.57	4.59	4.61	4.61	4.61	4.61	4.61	4.61	4.63
292.5	4.53	4.53	4.52	4.51	4.51	4.50	4.50	4.57	4.61
315.0	4.41	4.43	4.43	4.44	4.45	4.47	4.50	4.53	4.56
337.5	4.28	4.31	4.35	4.37	4.40	4.44	4.47	4.50	4.53
360.0	4.30	4.32	4.35	4.38	4.42	4.45	4.49	4.52	4.56
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	4.59	4.62	4.65	4.69	4.72	4.75	4.78	4.82	4.84
22.5	4.63	4.65	4.68	4.72	4.74	4.77	4.80	4.82	4.85
45.0	4.66	4.69	4.72	4.75	4.78	4.80	4.83	4.85	4.87
67.5	4.74	4.74	4.73	4.74	4.77	4.79	4.83	4.86	4.88
90.0	4.84	4.86	4.87	4.85	4.85	4.86	4.89	4.91	4.94
112.5	4.77	4.78	4.79	4.81	4.84	4.86	4.90	4.93	4.96
135.0	4.69	4.72	4.75	4.78	4.81	4.85	4.88	4.89	4.92
157.5	4.64	4.68	4.70	4.74	4.78	4.80	4.83	4.86	4.89
180.0	4.59	4.63	4.66	4.68	4.72	4.75	4.78	4.81	4.84
202.5	4.58	4.63	4.66	4.68	4.72	4.75	4.79	4.82	4.85
225.0	4.59	4.63	4.66	4.68	4.72	4.75	4.78	4.82	4.85
247.5	4.64	4.66	4.68	4.72	4.74	4.78	4.81	4.83	4.87
270.0	4.70	4.73	4.72	4.74	4.78	4.80	4.82	4.86	4.88
292.5	4.63	4.64	4.66	4.69	4.72	4.75	4.79	4.82	4.85
315.0	4.60	4.63	4.66	4.69	4.72	4.75	4.79	4.81	4.84
337.5	4.57	4.59	4.63	4.66	4.69	4.72	4.76	4.79	4.82
360.0	4.59	4.62	4.65	4.69	4.72	4.75	4.78	4.82	4.84

Intensity data(cd)

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C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	4.88	4.91	4.93	4.96	4.97	5.00	5.02	5.04	5.06
22.5	4.87	4.89	4.93	4.95	4.97	5.00	5.02	5.04	5.07
45.0	4.90	4.92	4.95	4.98	5.00	5.02	5.04	5.06	5.08
67.5	4.91	4.93	4.96	4.99	5.00	5.03	5.04	5.06	5.08
90.0	4.97	4.99	5.02	5.04	5.07	5.08	5.10	5.11	5.14
112.5	4.97	5.00	5.02	5.04	5.06	5.08	5.10	5.11	5.12
135.0	4.94	4.96	4.99	5.01	5.02	5.04	5.05	5.07	5.09
157.5	4.91	4.94	4.96	4.99	5.02	5.04	5.05	5.08	5.09
180.0	4.87	4.90	4.94	4.95	4.98	5.00	5.02	5.04	5.06
202.5	4.88	4.91	4.94	4.96	4.98	5.01	5.03	5.04	5.06
225.0	4.87	4.90	4.93	4.94	4.97	4.99	5.01	5.03	5.05
247.5	4.90	4.92	4.95	4.97	5.00	5.02	5.05	5.08	5.09
270.0	4.91	4.95	4.97	5.00	5.02	5.05	5.07	5.09	5.11
292.5	4.88	4.91	4.93	4.96	4.99	5.02	5.05	5.07	5.10
315.0	4.87	4.90	4.93	4.96	4.99	5.01	5.04	5.07	5.08
337.5	4.86	4.88	4.90	4.93	4.96	4.98	5.01	5.04	5.05
360.0	4.88	4.91	4.93	4.96	4.97	5.00	5.02	5.04	5.06
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	5.07	5.10	5.12	5.13	5.14	5.15	5.17	5.17	5.18
22.5	5.08	5.09	5.12	5.13	5.14	5.16	5.16	5.17	5.18
45.0	5.10	5.11	5.13	5.14	5.16	5.17	5.17	5.18	5.20
67.5	5.10	5.12	5.12	5.14	5.15	5.17	5.18	5.18	5.18
90.0	5.15	5.16	5.18	5.18	5.19	5.21	5.20	5.21	5.21
112.5	5.14	5.15	5.17	5.17	5.19	5.20	5.20	5.20	5.21
135.0	5.12	5.13	5.14	5.16	5.16	5.18	5.19	5.19	5.20
157.5	5.11	5.12	5.14	5.15	5.16	5.17	5.17	5.18	5.18
180.0	5.07	5.09	5.10	5.11	5.13	5.15	5.15	5.16	5.17
202.5	5.08	5.10	5.11	5.13	5.15	5.16	5.17	5.17	5.17
225.0	5.08	5.08	5.11	5.12	5.14	5.15	5.16	5.17	5.17
247.5	5.11	5.13	5.14	5.15	5.16	5.18	5.18	5.19	5.19
270.0	5.13	5.15	5.16	5.17	5.18	5.19	5.21	5.22	5.22
292.5	5.13	5.13	5.15	5.17	5.17	5.19	5.20	5.21	5.21
315.0	5.10	5.13	5.14	5.16	5.17	5.18	5.19	5.20	5.20
337.5	5.07	5.09	5.11	5.13	5.15	5.15	5.16	5.17	5.18
360.0	5.07	5.10	5.12	5.13	5.14	5.15	5.17	5.17	5.18
C/γ(°)	180.0								
0.0	0.00								
22.5	0.00								
45.0	0.00								
67.5	0.00								
90.0	0.00								
112.5	0.00								
135.0	0.00								
157.5	0.00								
180.0	0.00								
202.5	0.00								
225.0	0.00								
247.5	0.00								
270.0	0.00								
292.5	0.00								
315.0	0.00								
337.5	0.00								
360.0	0.00								