
Nata

LumCAT: 1549-E
Luminaire: 92.76.330.00
Report No: NT2017030207
Test No: GC2017030207
LampCAT: PHILIPS SLM 1203 G5 L9
Lamp flux(lm): 1120.0
Number of Lamps: 1
Length(mm): 47.6
Phm Type: C

Voltage(V): 36.0000
Current(A): 0.3000
Power (W): 10.8000
PF: 0.0000
Ballast type: DC
Width(mm): 47.6
Height(mm): 0

Photometric Results

Lumens(lm): 1034.09
Efficiency(%): 92.33%
Lumens(lm)/Power(W): 95.75
Central intensity(cd): 6220.602
Maximum intensity(cd): 6220.602
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=14.1
[C90/270]Total=14.1
Field angle(10%Imax): [C0/180]Total=31.2
[C90/270]Total=31.2
Maximum s/h(1/2): C0_180=0.24 C90_270=0.24
Maximum s/h(1/4): C0_180=0.24 C90_270=0.24
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.33%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.400%

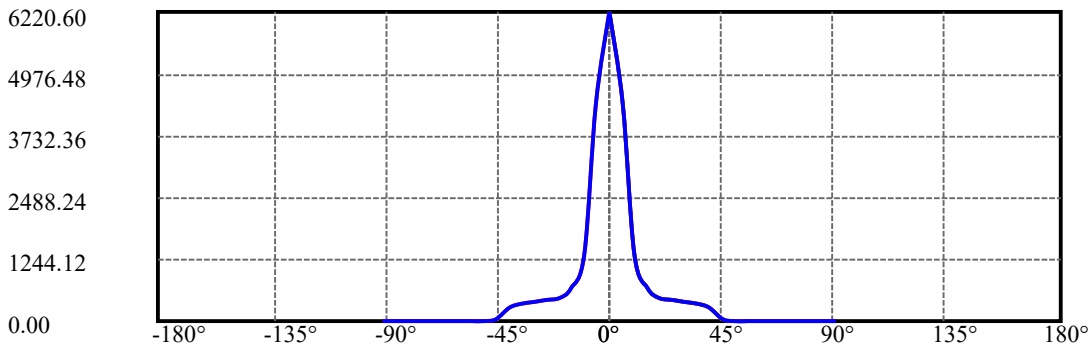
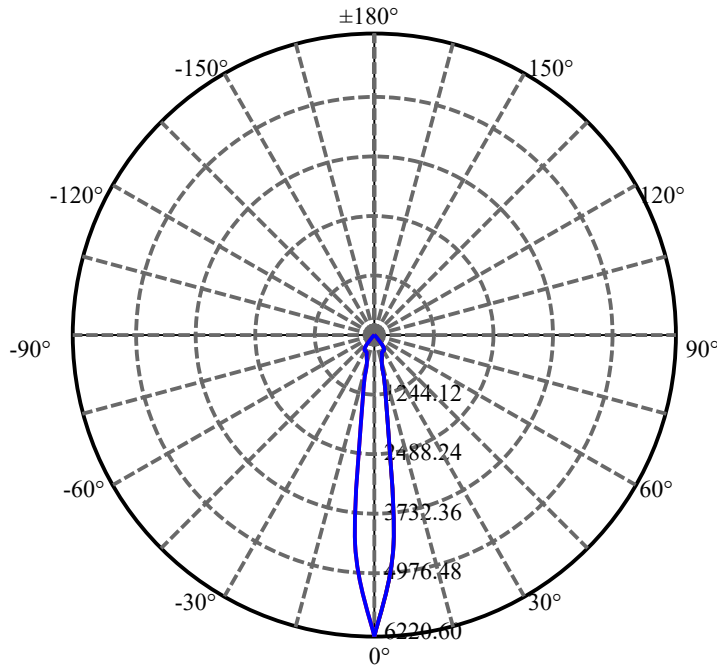
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6220.602	0.000	0	.000%	.000%
5.0	4348.024	126.345	126.345	11.281%	12.218%
10.0	1338.146	203.412	329.757	18.162%	31.889%
15.0	643.444	117.547	447.304	10.495%	43.256%
20.0	471.888	91.919	539.223	8.207%	52.145%
25.0	410.170	92.512	631.734	8.260%	61.091%
30.0	377.467	99.676	731.411	8.900%	70.730%
35.0	350.709	107.229	838.64	9.574%	81.099%
40.0	251.828	100.529	939.168	8.976%	90.821%
45.0	54.451	56.710	995.878	5.063%	96.305%
50.0	16.627	14.362	1010.241	1.282%	97.693%
55.0	5.726	4.860	1015.101	.434%	98.163%
60.0	4.845	2.443	1017.544	.218%	98.400%
65.0	4.735	2.329	1019.873	.208%	98.625%
70.0	5.506	2.593	1022.466	.232%	98.876%
75.0	8.148	3.569	1026.035	.319%	99.221%
80.0	4.570	3.403	1029.438	.304%	99.550%
85.0	4.349	2.424	1031.862	.216%	99.784%
90.0	3.799	2.231	1034.093	.199%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	731.41	65.30%	70.73%
0-40	939.17	83.85%	90.82%
0-60	1017.54	90.85%	98.40%
0-90	1031.86	92.13%	99.78%
0-120	1031.86	92.13%	99.78%
0-180	1034.09	92.33%	100.00%
60-90	16.76	1.50%	1.62%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-34.47	827.27	73.86%	80.00%

ZONAL LUMEN SUMMARY

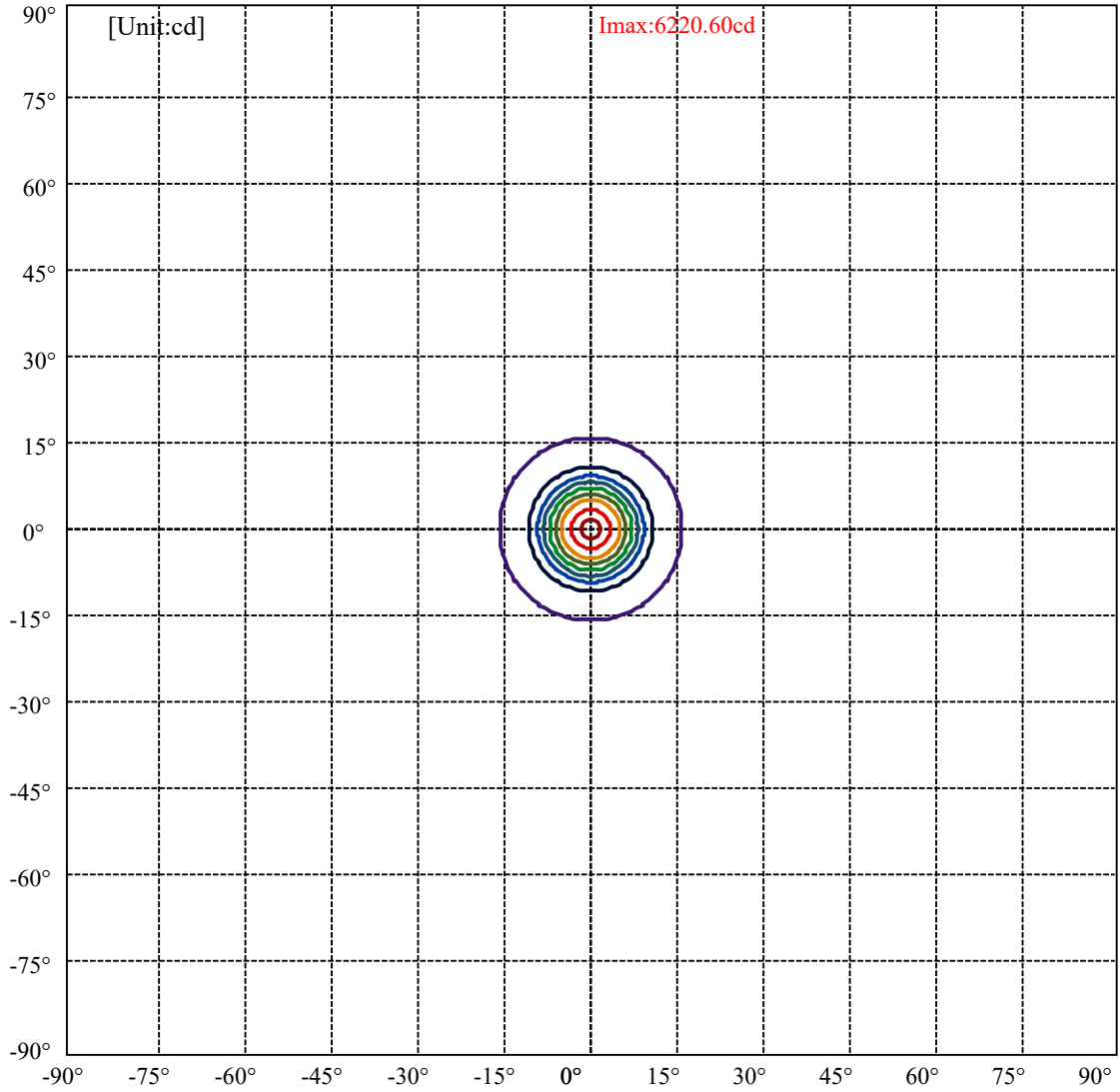
0-10	329.76
10-20	209.47
20-30	192.19
30-40	207.76
40-50	71.07
50-60	7.30
60-70	4.92
70-80	6.97
80-90	2.42
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



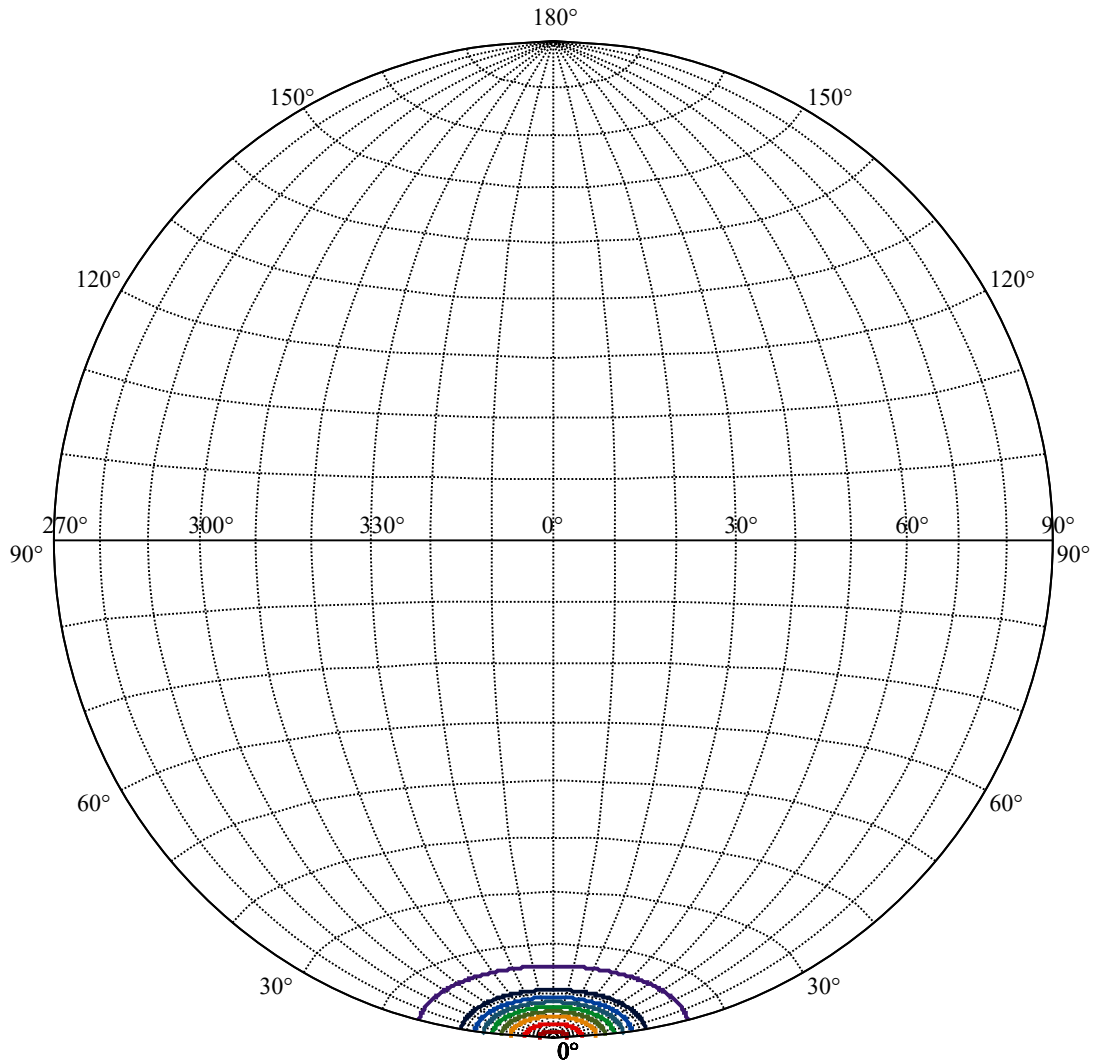
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:15.6 Right:15.6
:C90/270Left:15.6 Right:15.6

Beam Angle(50%Imax):C0/180Left:7.1 Right:7.1
:C90/270Left:7.1 Right:7.1



(10%I _{max}) 622.06	—
(20%I _{max}) 1244.12	—
(30%I _{max}) 1866.18	—
(40%I _{max}) 2488.24	—
(50%I _{max}) 3110.3	—
(60%I _{max}) 3732.36	—
(70%I _{max}) 4354.42	—
(80%I _{max}) 4976.48	—
(90%I _{max}) 5598.54	—



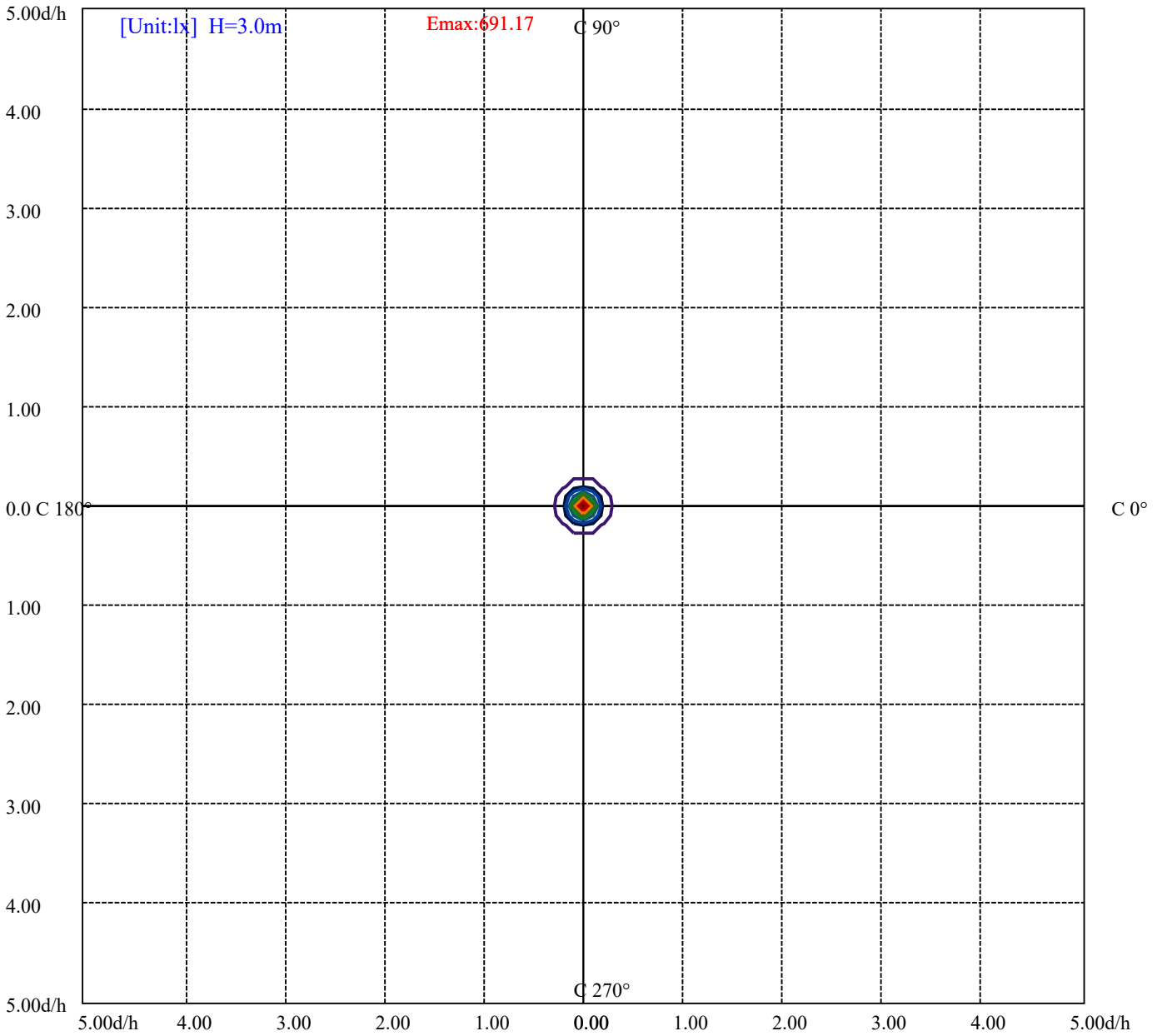
House

[Unit:cd]

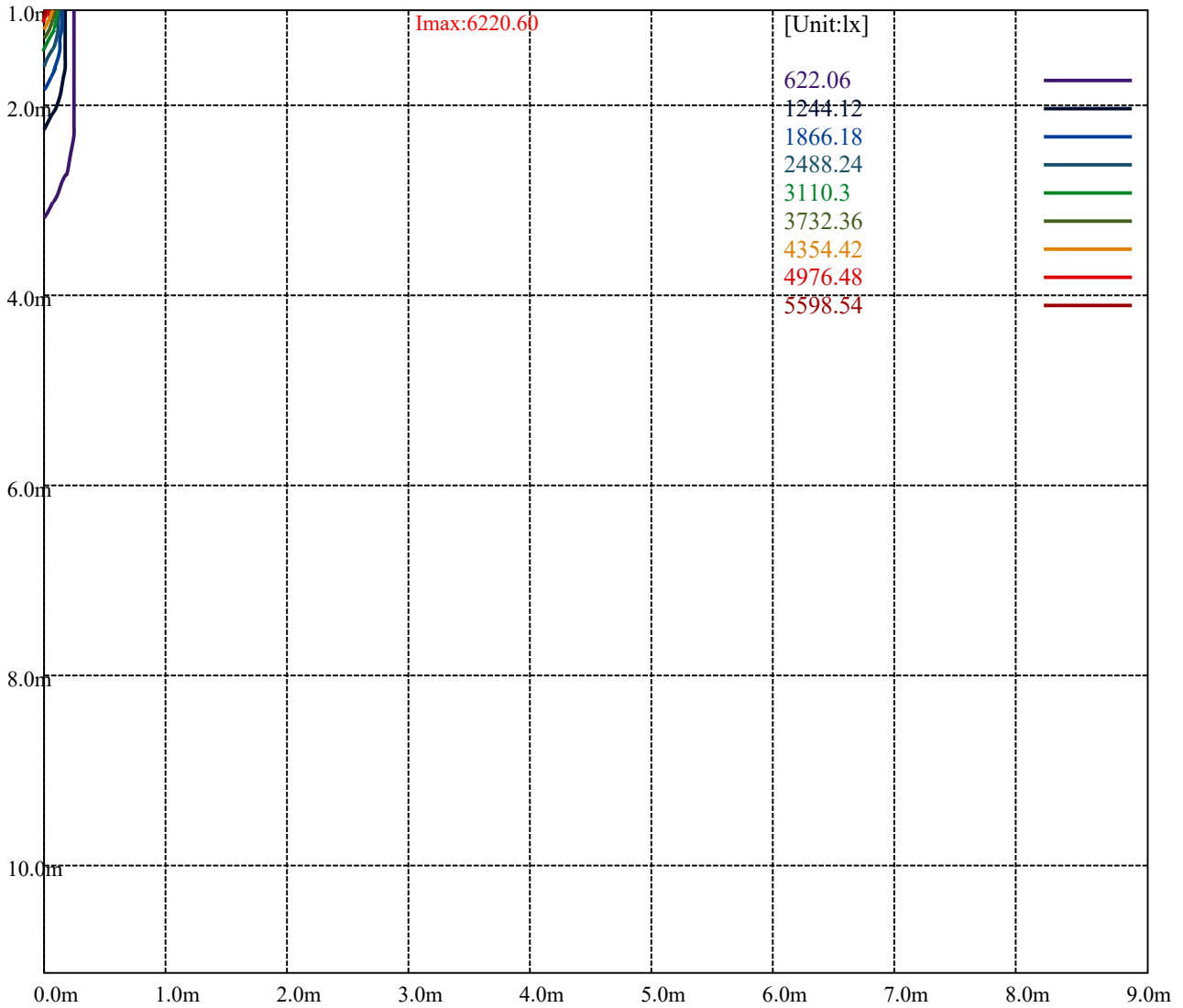
Road

Imax:6220.60

(10%Imax)	622.06	—
(20%Imax)	1244.12	—
(30%Imax)	1866.18	—
(40%Imax)	2488.24	—
(50%Imax)	3110.3	—
(60%Imax)	3732.36	—
(70%Imax)	4354.42	—
(80%Imax)	4976.48	—
(90%Imax)	5598.54	—



(10%Emax) 69.11722	—
(20%Emax) 138.2344	—
(30%Emax) 207.3511	—
(40%Emax) 276.4689	—
(50%Emax) 345.5856	—
(60%Emax) 414.7033	—
(70%Emax) 483.82	—
(80%Emax) 552.9377	—
(90%Emax) 622.0544	—



Luminance Table

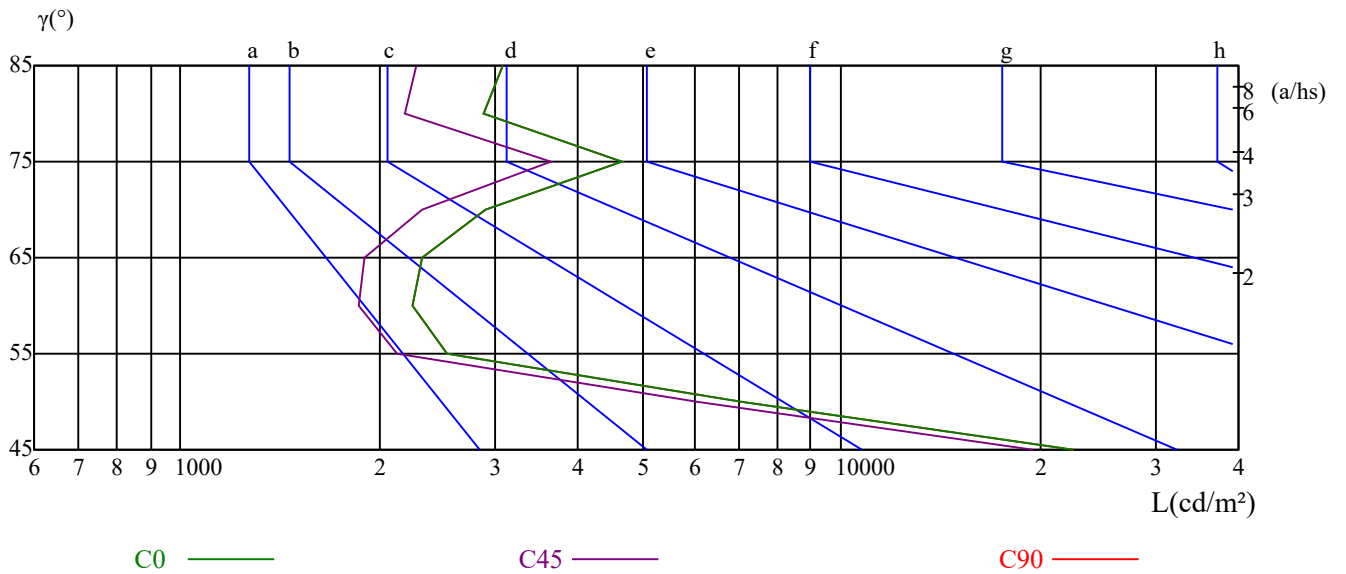
γ	45	50	55	60	65	70	75	80	85
C0	22444	7057	2525	2240	2320	2892	4651	2879	3085
C45	19558	6060	2134	1863	1894	2314	3636	2191	2272
C90	22444	7057	2525	2240	2320	2892	4651	2879	3085

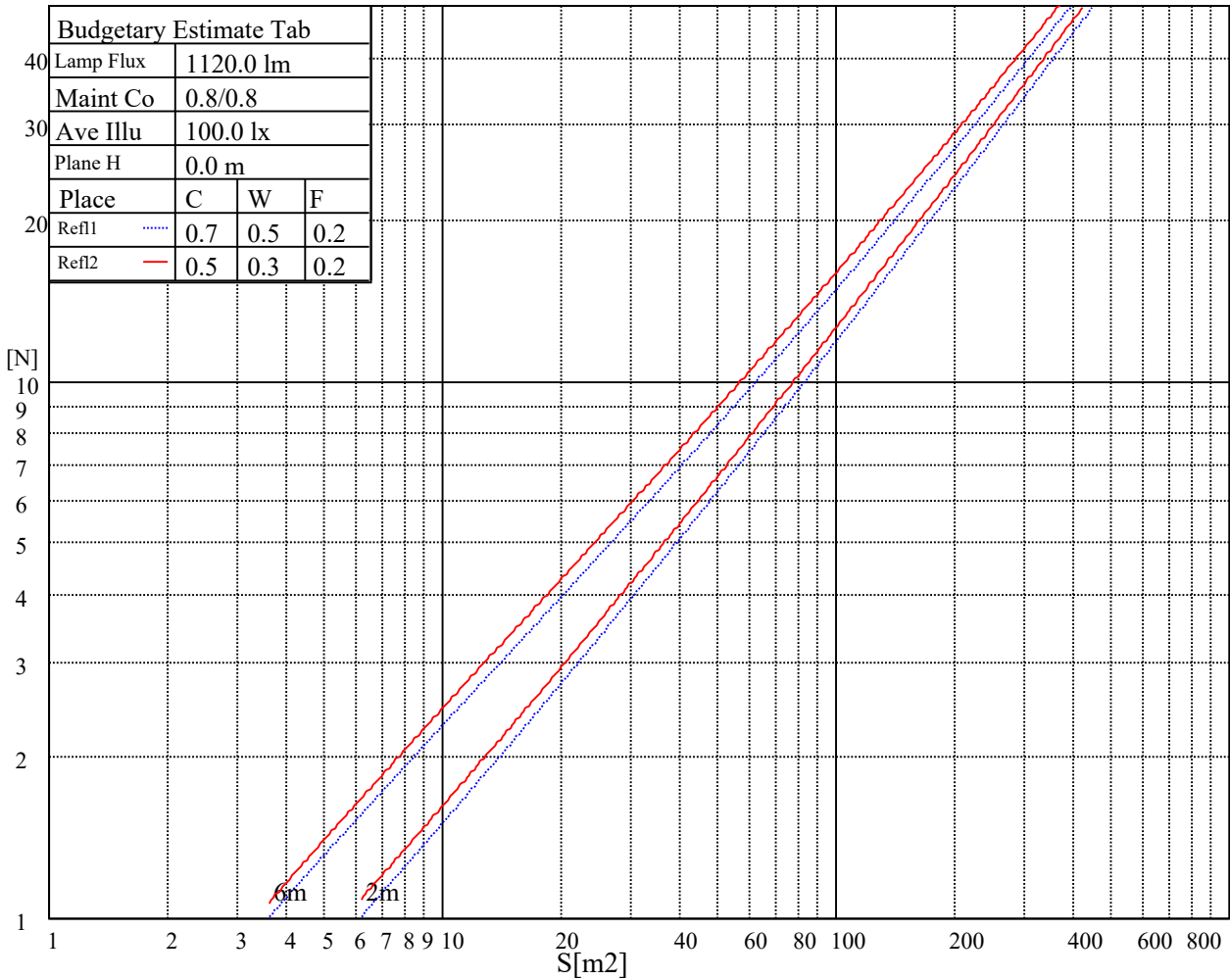
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5072	5072	5072	14252	14252	14252	22591	22591	22591

Glare Table

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

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.10	1.10	1.10	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.89	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.91	0.86	0.83	0.89	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.78	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.69
6	0.77	0.72	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
7	0.74	0.69	0.65	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
8	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.60
9	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
22.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
45.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
67.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
90.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
112.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
135.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
157.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
180.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
202.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
225.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
247.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
270.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
292.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
315.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
337.5	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83
360.0	6220.60	4348.02	1338.15	643.44	471.89	410.17	377.47	350.71	251.83

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
22.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
45.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
67.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
90.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
112.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
135.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
157.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
180.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
202.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
225.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
247.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
270.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
292.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
315.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
337.5	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35
360.0	54.45	16.63	5.73	4.84	4.73	5.51	8.15	4.57	4.35

C/γ(°)	90.0
0.0	3.80
22.5	3.80
45.0	3.80
67.5	3.80
90.0	3.80
112.5	3.80
135.0	3.80
157.5	3.80
180.0	3.80
202.5	3.80
225.0	3.80
247.5	3.80
270.0	3.80
292.5	3.80
315.0	3.80
337.5	3.80
360.0	3.80