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Nata

LumCAT: 2-1537-A	
Luminaire: 92.76.323.00	
Report No: NT2017030703	Voltage(V): 34.7000
Test No: GC2017030703	Current(A): 0.6200
LampCAT: PHILIPS SLM 1208 G6	Power (W): 21.5140
Lamp flux(lm): 2560.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2331.01
Efficiency(%): 91.06%
Lumens(lm)/Power(W): 108.35
Central intensity(cd): 5093.681
Maximum intensity(cd): 5093.681
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.4
 [C90/270]Total=35.4
Field angle(10%Imax): [C0/180]Total=71.1
 [C90/270]Total=71.1
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.59 C90_270=0.59
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.16%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.520%

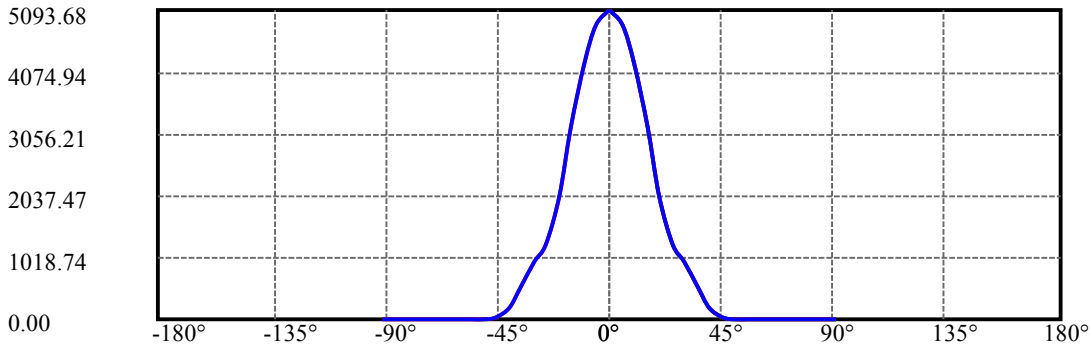
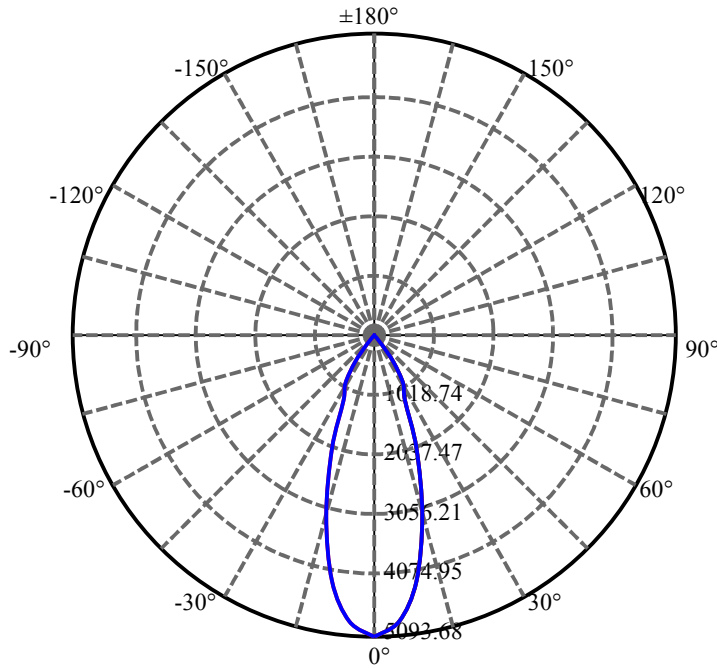
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5093.680	30.461	30.461	1.190%	1.307%
5.0	4855.906	231.983	262.444	9.062%	11.259%
10.0	4202.455	400.003	662.446	15.625%	28.419%
15.0	3151.153	447.049	1109.496	17.463%	47.597%
20.0	2040.184	382.481	1491.977	14.941%	64.006%
25.0	1222.245	283.137	1775.114	11.060%	76.152%
30.0	950.191	260.418	2035.531	10.173%	87.324%
35.0	547.240	172.052	2207.583	6.721%	94.705%
40.0	193.998	68.353	2275.935	2.670%	97.637%
45.0	21.589	8.368	2284.303	.327%	97.996%
50.0	13.207	5.545	2289.848	.217%	98.234%
55.0	12.140	5.451	2295.299	.213%	98.468%
60.0	11.479	5.449	2300.748	.213%	98.702%
65.0	11.066	5.498	2306.246	.215%	98.937%
70.0	10.653	5.487	2311.733	.214%	99.173%
75.0	10.392	5.502	2317.235	.215%	99.409%
80.0	10.227	5.520	2322.756	.216%	99.646%
85.0	10.123	5.528	2328.284	.216%	99.883%
90.0	9.958	2.729	2331.013	.107%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2035.53	79.51%	87.32%
0-40	2275.94	88.90%	97.64%
0-60	2300.75	89.87%	98.70%
0-90	2328.28	90.95%	99.88%
0-120	2328.28	90.95%	99.88%
0-180	2331.01	91.06%	100.00%
60-90	32.98	1.29%	1.42%
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%
0-26.72	1864.81	72.84%	80.00%

ZONAL LUMEN SUMMARY

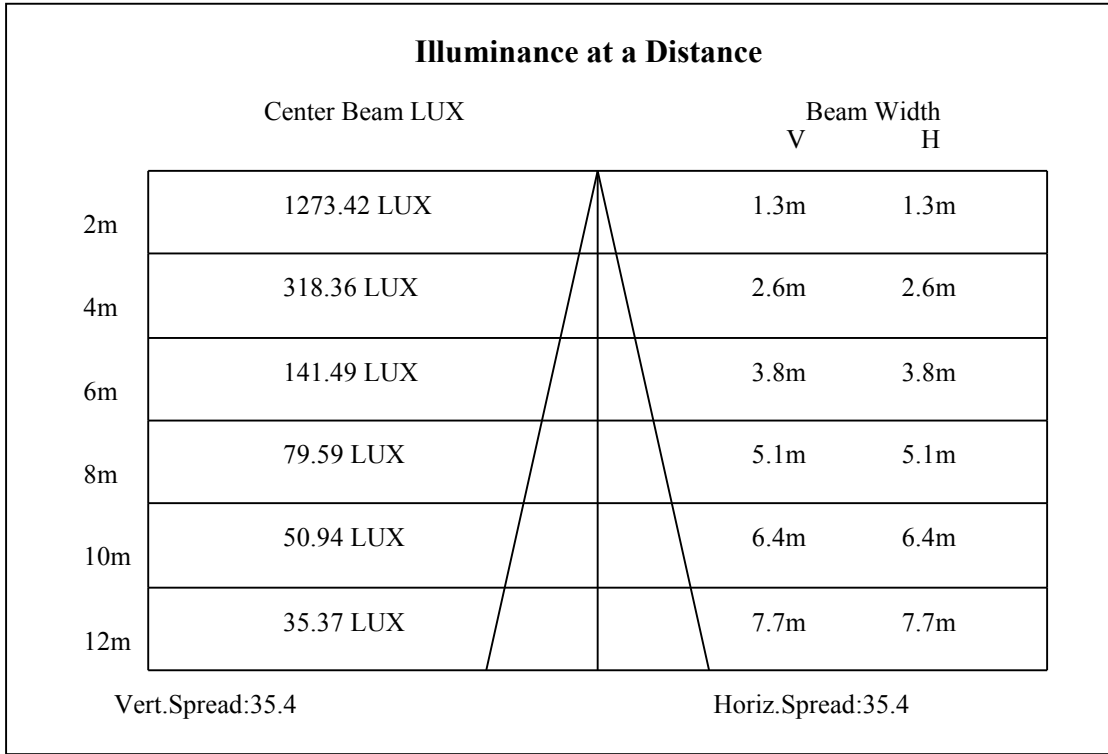
0-10	662.45
10-20	829.53
20-30	543.55
30-40	240.40
40-50	13.91
50-60	10.90
60-70	10.98
70-80	11.02
80-90	5.53
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

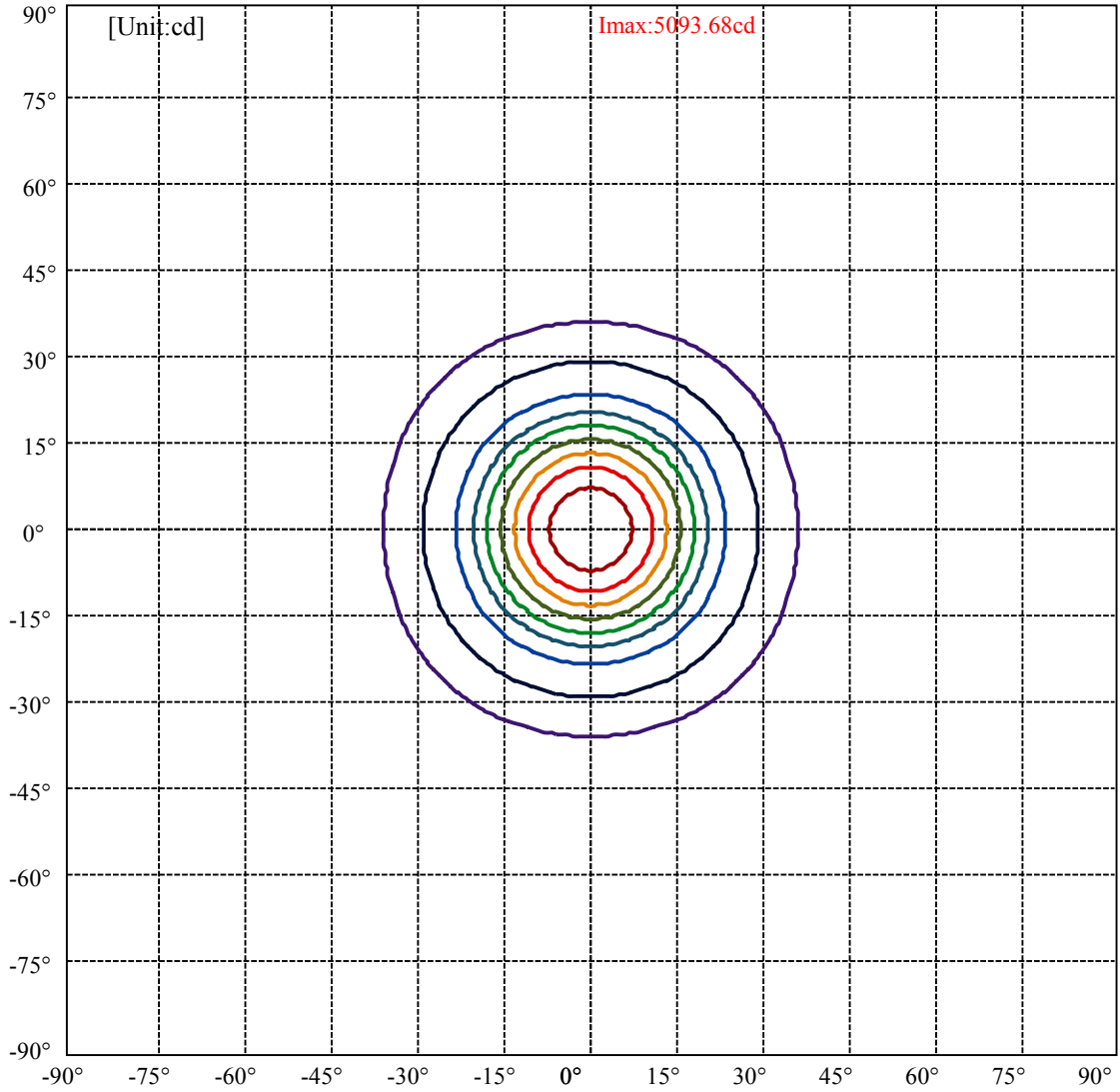


C0(Max): —————
C0/C180: —————
C90/C270: —————

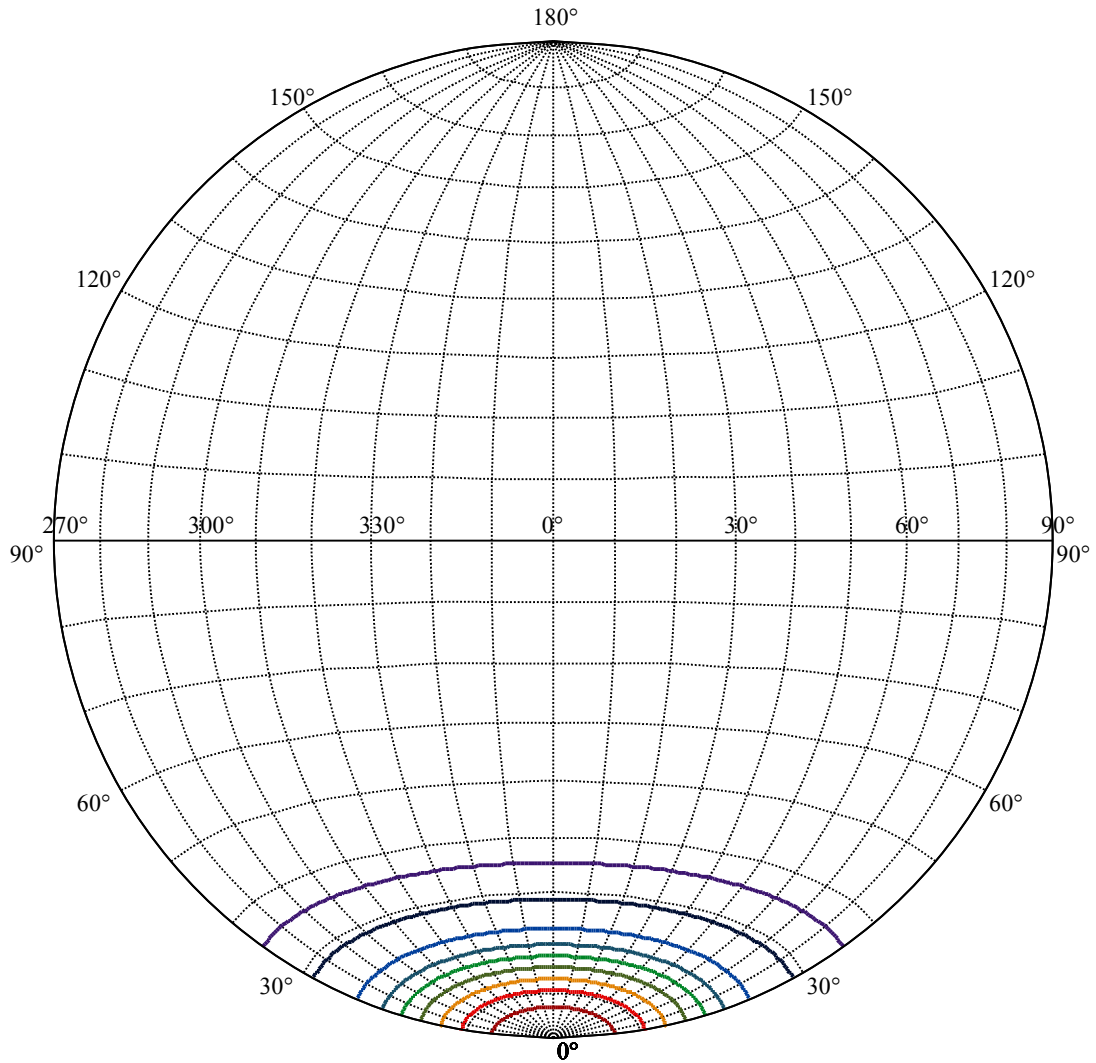
Field angle(10%Imax):C0/180Left:35.5 Right:35.5
:C90/270Left:35.5 Right:35.5

Beam Angle(50%Imax):C0/180Left:17.7 Right:17.7
:C90/270Left:17.7 Right:17.7





(10%Imax) 509.368	—
(20%Imax) 1018.74	—
(30%Imax) 1528.1	—
(40%Imax) 2037.47	—
(50%Imax) 2546.84	—
(60%Imax) 3056.21	—
(70%Imax) 3565.58	—
(80%Imax) 4074.94	—
(90%Imax) 4584.31	—



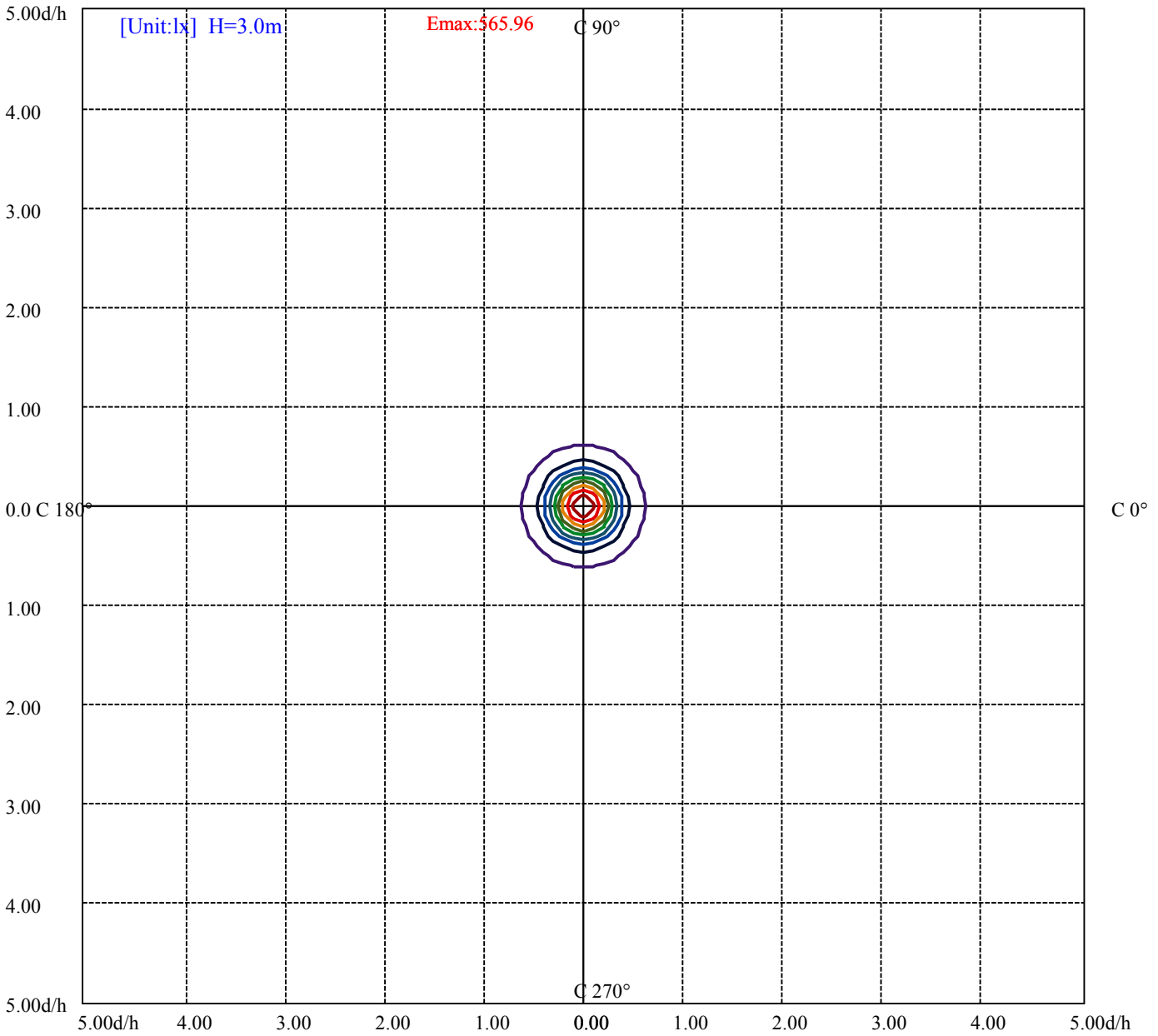
House

[Unit:cd]

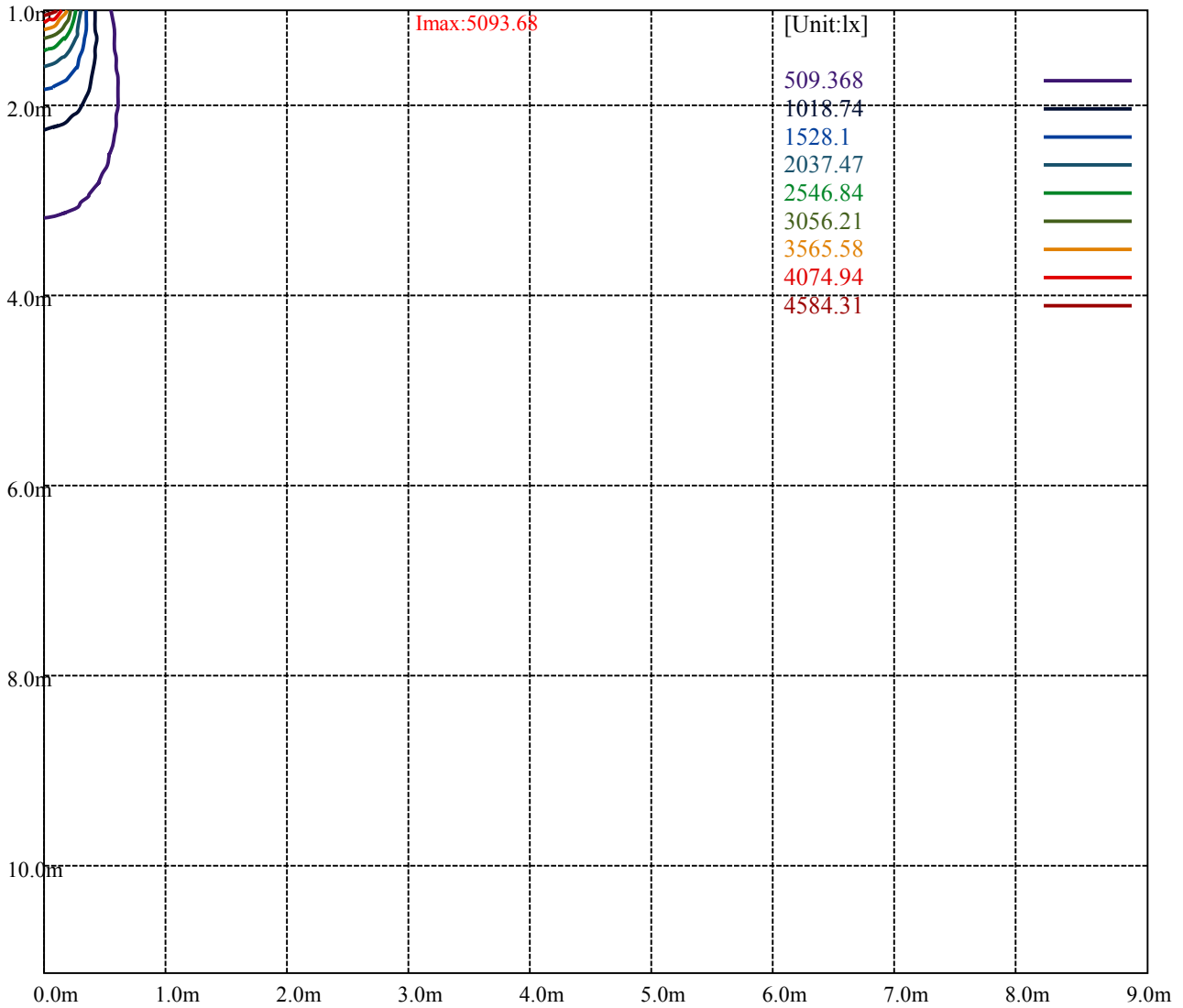
Road

Imax:5093.68

(10%Imax) 509.368	—
(20%Imax) 1018.74	—
(30%Imax) 1528.1	—
(40%Imax) 2037.47	—
(50%Imax) 2546.84	—
(60%Imax) 3056.21	—
(70%Imax) 3565.58	—
(80%Imax) 4074.94	—
(90%Imax) 4584.31	—



(10%E _{max}) 56.59633	—
(20%E _{max}) 113.1922	—
(30%E _{max}) 169.7889	—
(40%E _{max}) 226.3856	—
(50%E _{max}) 282.9822	—
(60%E _{max}) 339.5778	—
(70%E _{max}) 396.1744	—
(80%E _{max}) 452.7711	—
(90%E _{max}) 509.3678	—



Luminance Table

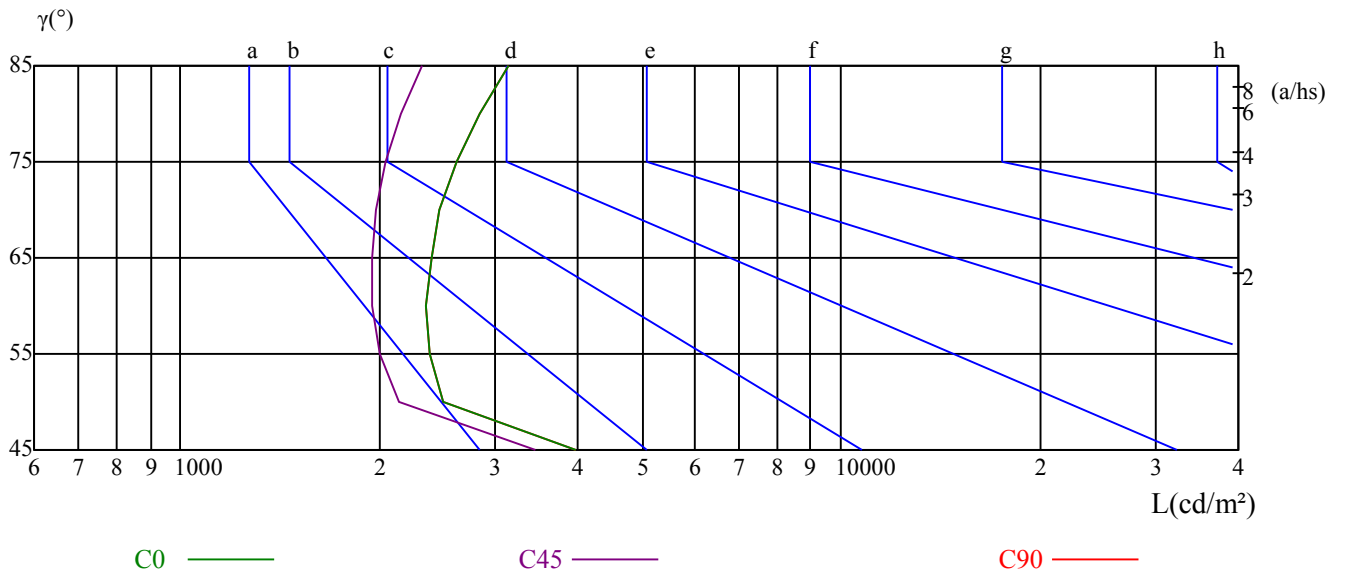
γ	45	50	55	60	65	70	75	80	85
C0	3965	2494	2378	2355	2401	2473	2616	2834	3147
C45	3446	2136	2005	1952	1955	1974	2040	2153	2316
C90	3965	2494	2378	2355	2401	2473	2616	2834	3147

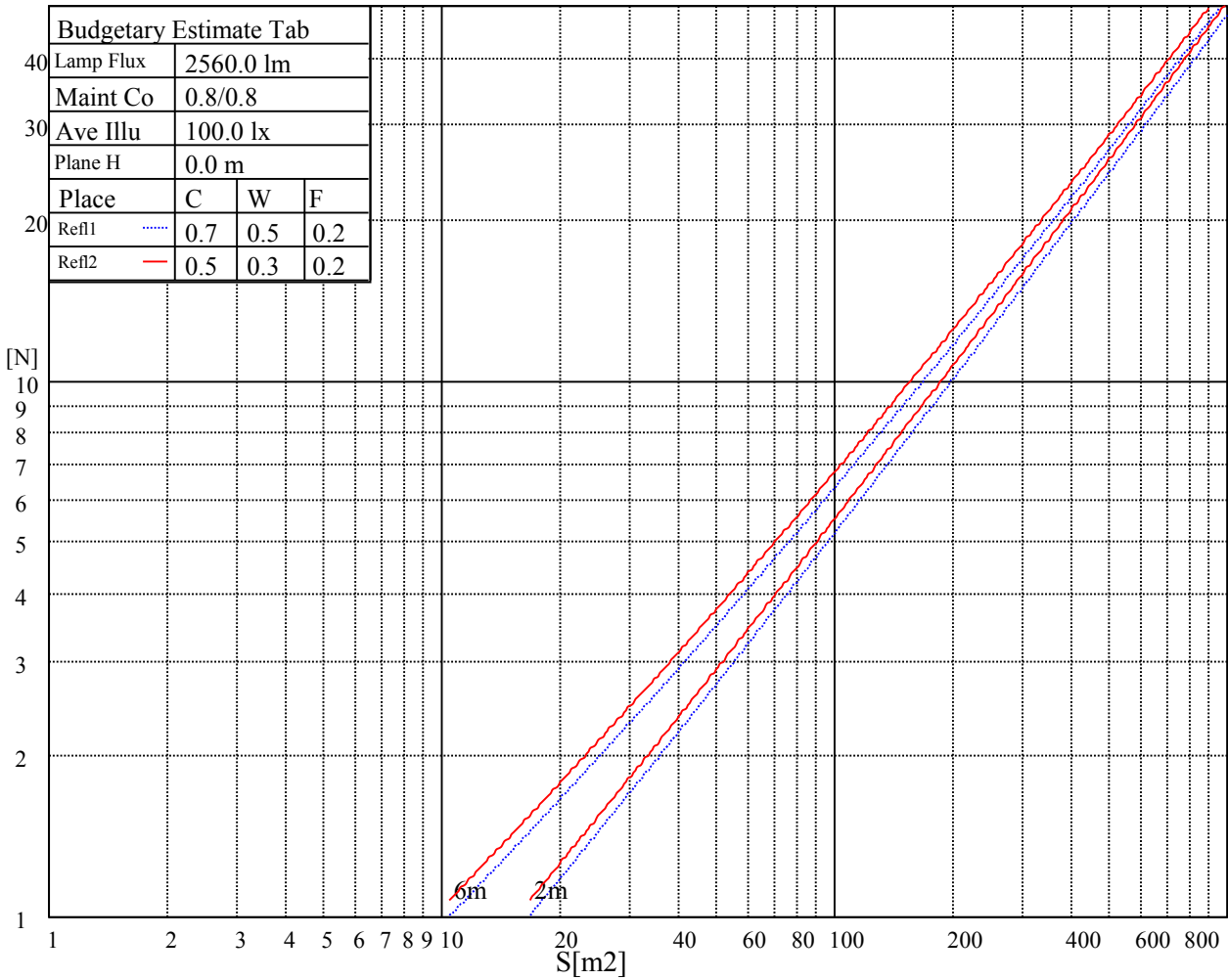
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5344	5344	5344	8194	8194	8194	23705	23705	23705

Glare Table

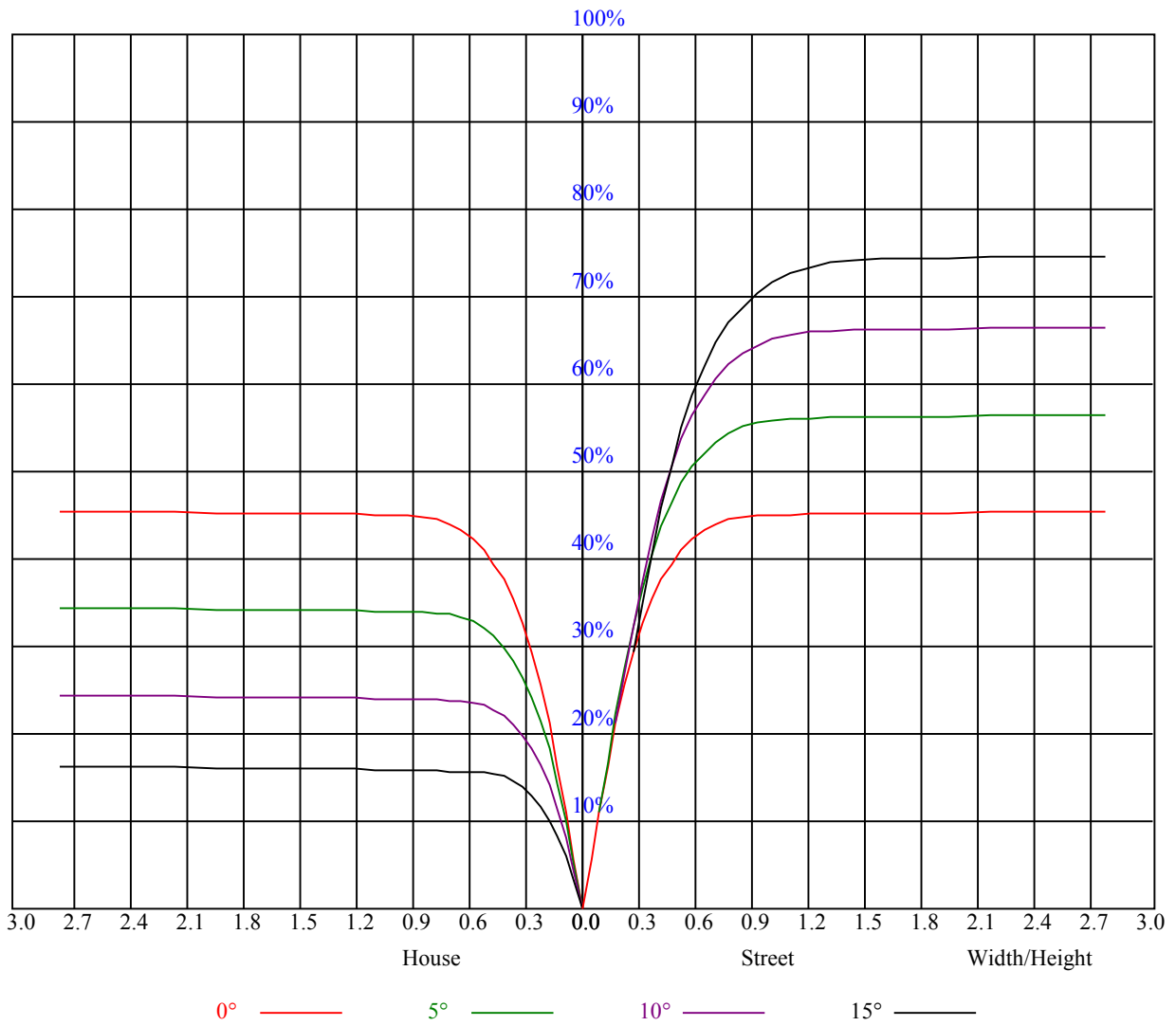
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.84	0.83	0.81
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.80	0.83	0.81	0.79	0.78
4	0.87	0.82	0.79	0.86	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.74
5	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.68
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
10	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59



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	5011.23	4881.30	4316.97	3311.09	2199.50	1331.26	970.64	629.85	281.89
45.0	5098.77	5043.72	4498.66	3433.87	2211.62	1357.14	994.87	665.63	289.05
90.0	5126.85	4873.59	4203.56	3123.35	1952.30	1093.75	931.66	533.83	117.22
135.0	5137.86	4918.19	4283.39	3214.74	2064.62	1315.30	971.19	556.07	282.44
180.0	5011.23	4665.48	3950.30	2868.99	1892.84	1082.85	910.19	470.02	84.57
225.0	5098.77	4680.34	3909.55	2852.47	1832.28	1084.89	902.21	425.64	86.55
270.0	5126.85	4913.78	4239.34	3204.83	2129.58	1316.95	975.05	563.23	286.84
315.0	5137.86	4870.84	4217.87	3199.88	2038.74	1195.83	945.70	533.66	123.44
360.0	5011.23	4881.30	4316.97	3311.09	2199.50	1331.26	970.64	629.85	281.89
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	25.49	13.49	12.17	11.45	10.90	10.57	10.35	10.19	9.97
45.0	25.71	13.38	12.22	11.56	11.07	10.79	10.41	10.19	10.08
90.0	19.27	13.05	12.11	11.40	11.18	10.57	10.30	10.13	10.08
135.0	21.86	13.38	12.28	11.62	11.12	10.79	10.52	10.30	10.19
180.0	18.22	12.83	12.00	11.45	10.96	10.63	10.41	10.24	10.13
225.0	18.44	12.66	11.84	11.29	11.23	10.46	10.19	10.08	10.02
270.0	21.97	13.32	12.17	11.51	11.07	10.74	10.57	10.46	10.41
315.0	21.75	13.54	12.33	11.56	11.01	10.68	10.41	10.24	10.13
360.0	25.49	13.49	12.17	11.45	10.90	10.57	10.35	10.19	9.97
C/ γ (°)	90.0								
0.0	9.86								
45.0	9.91								
90.0	9.97								
135.0	10.02								
180.0	10.02								
225.0	9.91								
270.0	9.97								
315.0	10.02								
360.0	9.86								