
PQL 91301 LED SMD 4' 14.5WT8/50K/CL

LumCAT: /

Luminaire: /

Report No: SL/BG6-173514-03

Test No: SL/BG6-173514-03

LampCAT: 14.5WT8/50K/CL

Lamp flux(lm): -1.0

Number of Lamps: 6

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 88.6000

PF:

Ballast type:

Width(mm): 475

Height(mm): 100

Photometric Results

Lumens(lm): 11926.05

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 134.61

Central intensity(cd): 4138.677

Maximum intensity(cd): 4138.677

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=108.4

[C90/270]Total=102.6

Field angle(10%Imax): [C0/180]Total=164.0

[C90/270]Total=153.4

Maximum s/h(1/2): C0_180=1.24 C90_270=1.20

Maximum s/h(1/4): C0_180=1.36 C90_270=1.30

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 7.32%

Down flux rate of LUM(%): 92.68%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 73.360%

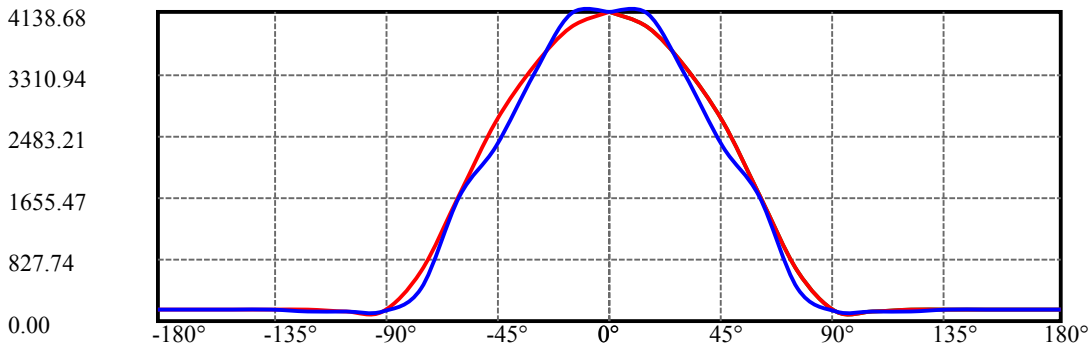
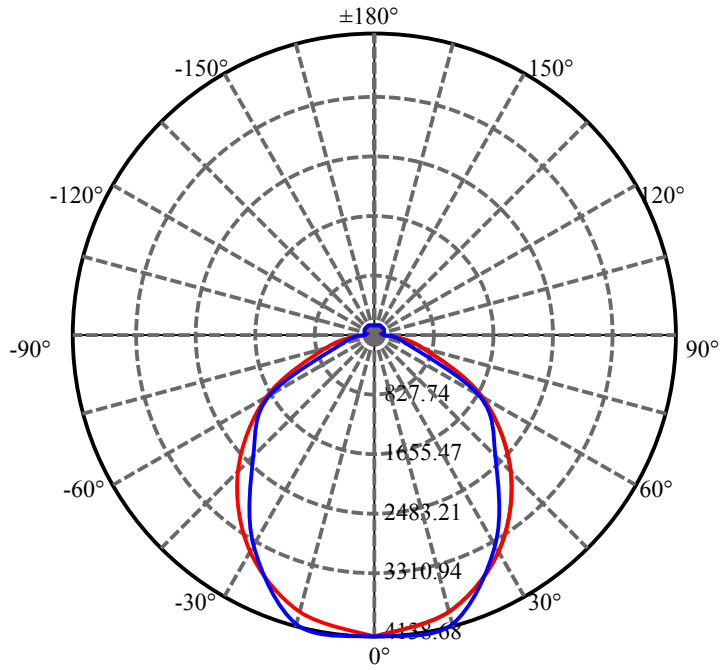
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4136.052	0.000	0	.000%	.000%
15.0	3987.746	869.630	869.63	.000%	7.292%
30.0	3388.693	2315.069	3184.699	.000%	26.704%
45.0	2450.839	2915.430	6100.129	.000%	51.150%
60.0	1620.173	2648.784	8748.913	.000%	73.360%
75.0	612.883	1691.969	10440.883	.000%	87.547%
90.0	139.417	611.698	11052.58	.000%	92.676%
105.0	134.890	223.039	11275.62	.000%	94.546%
120.0	138.553	207.186	11482.805	.000%	96.283%
135.0	141.844	182.439	11665.244	.000%	97.813%
150.0	141.843	141.633	11806.877	.000%	99.001%
165.0	141.414	88.899	11895.776	.000%	99.746%
180.0	141.412	30.276	11926.052	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3184.70	N.A.	26.70%
0-40	3184.70	N.A.	26.70%
0-60	8748.91	N.A.	73.36%
0-90	11052.58	N.A.	92.68%
0-120	11482.81	N.A.	96.28%
0-180	11926.05	N.A.	100.00%
60-90	4952.45	N.A.	41.53%
90-120	1041.92	N.A.	8.74%
90-130	1041.92	N.A.	8.74%
90-150	1365.99	N.A.	11.45%
90-180	1454.89	N.A.	12.20%
0-67.02	9540.84	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	869.63
20-30	2315.07
30-40	0.00
40-50	2915.43
50-60	2648.78
60-70	0.00
70-80	1691.97
80-90	611.70
90-100	0.00
100-110	223.04
110-120	207.19
120-130	0.00
130-140	182.44
140-150	141.63
150-160	0.00
160-170	88.90
170-180	0.00



C0(Max): ———

C0/C180: ———

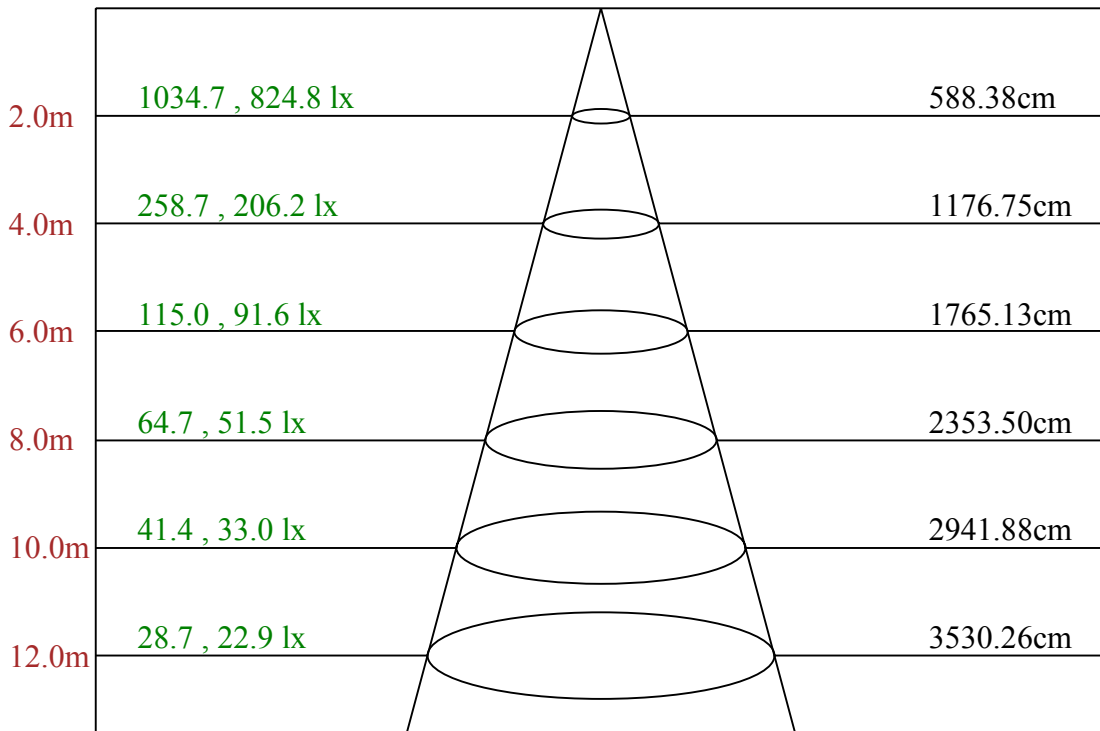
C90/C270: ———

Field angle(10%Imax):C0/180Left:82.0 Right:82.0

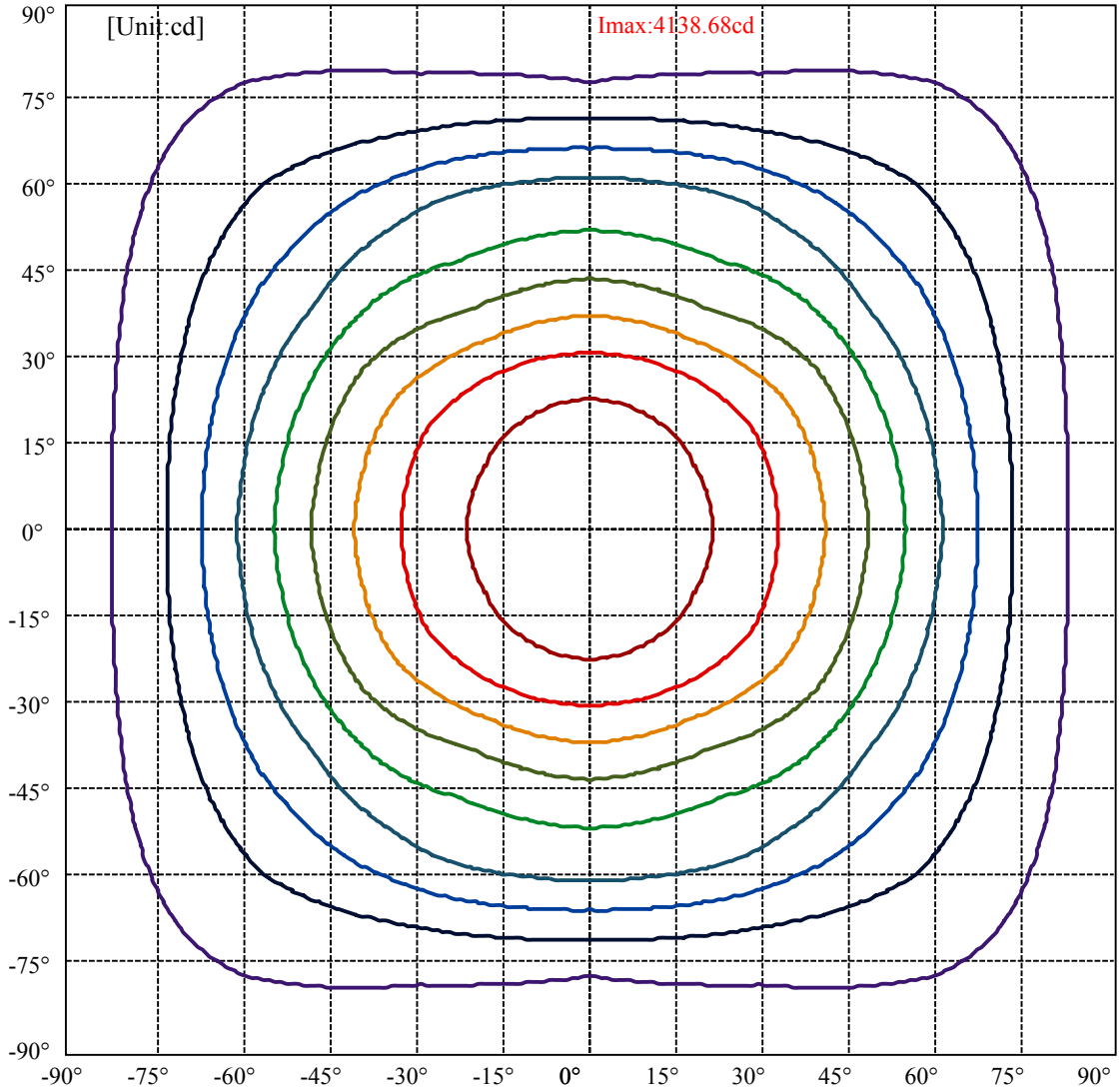
:C90/270Left:76.7 Right:76.7

Beam Angle(50%Imax):C0/180Left:54.2 Right:54.2

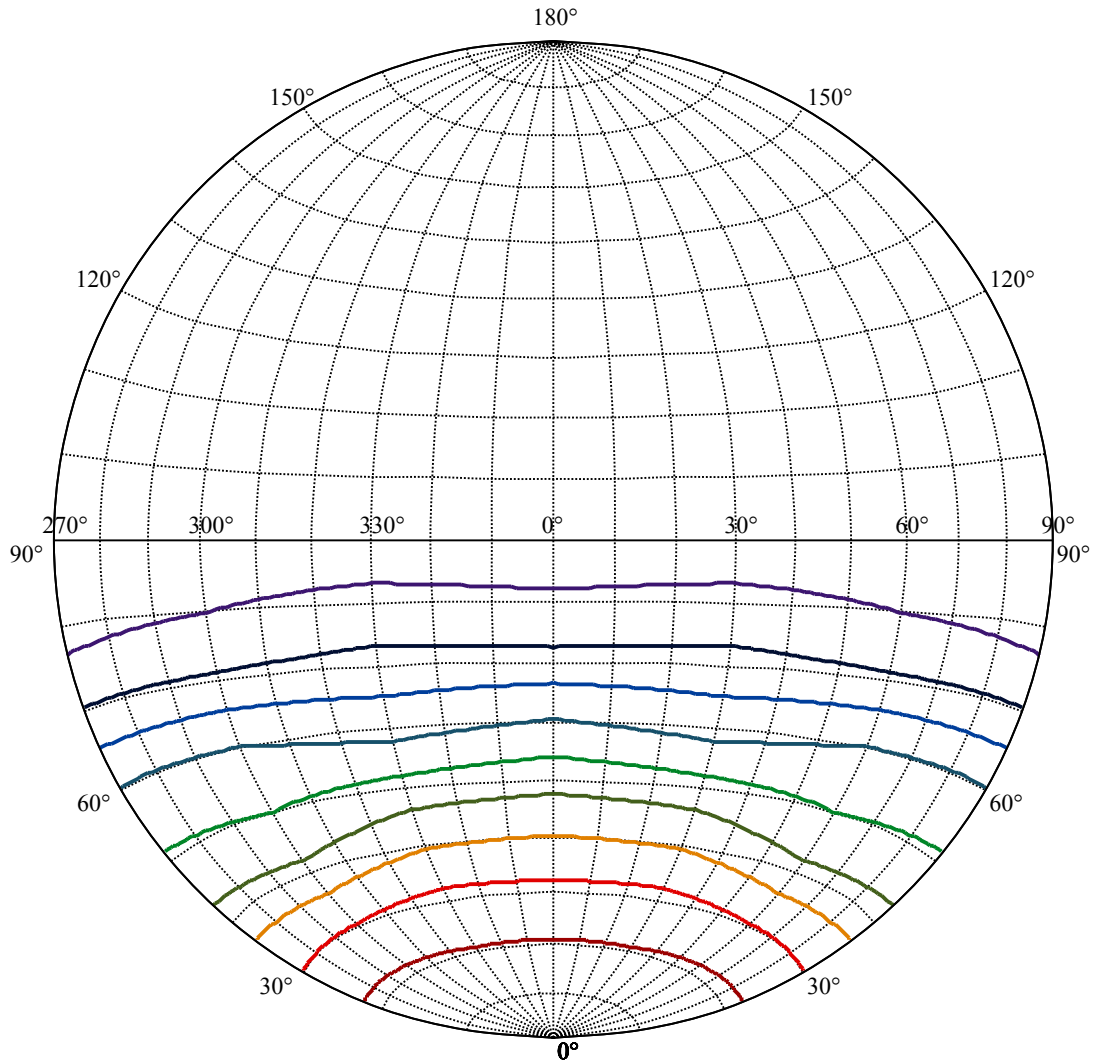
:C90/270Left:51.3 Right:51.3



Max , Ave Beam angle of C0 plane 111.58



(10%Imax) 413.868	—
(20%Imax) 827.735	—
(30%Imax) 1241.6	—
(40%Imax) 1655.47	—
(50%Imax) 2069.34	—
(60%Imax) 2483.21	—
(70%Imax) 2897.07	—
(80%Imax) 3310.94	—
(90%Imax) 3724.81	—












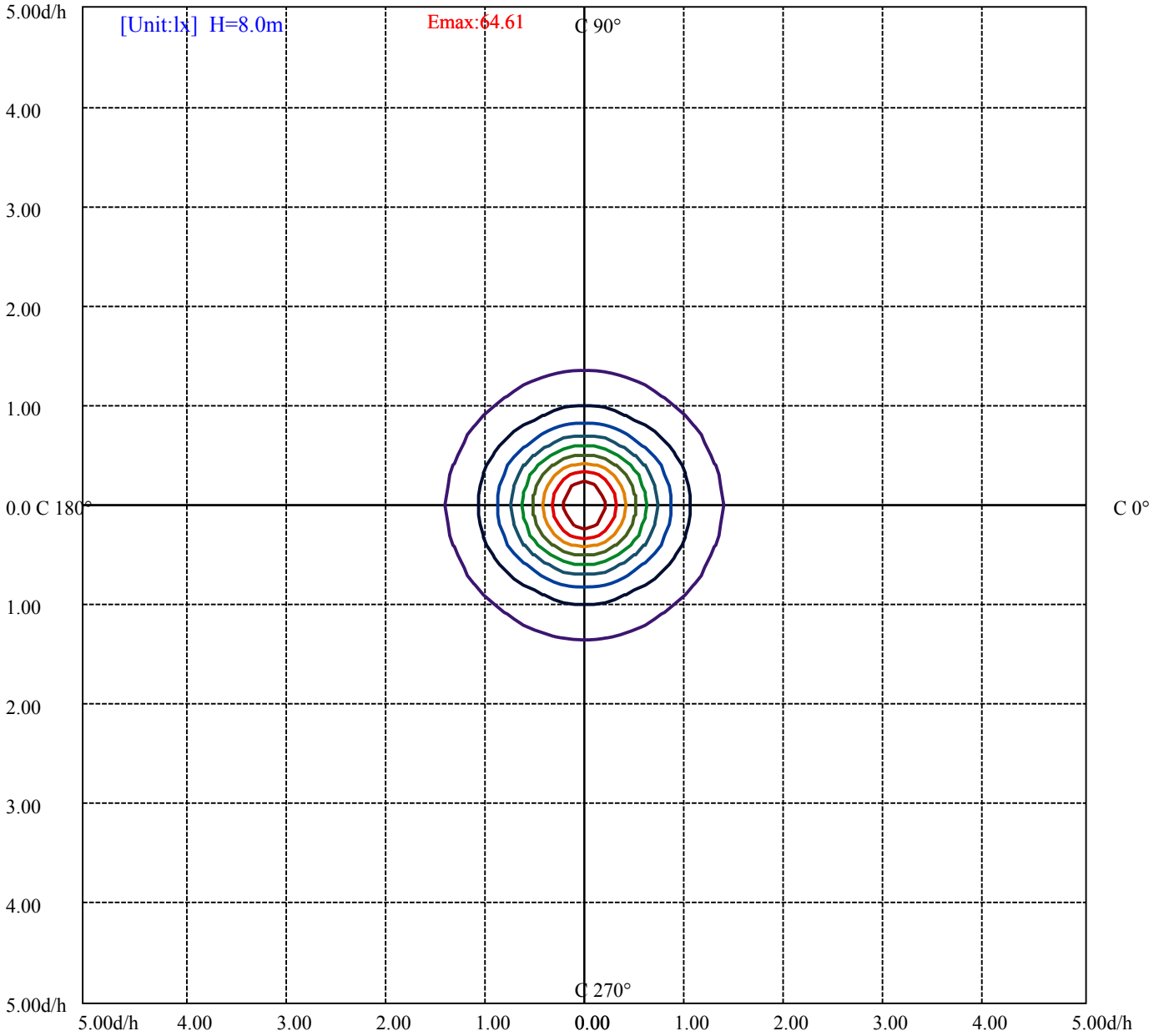
House

[Unit:cd]

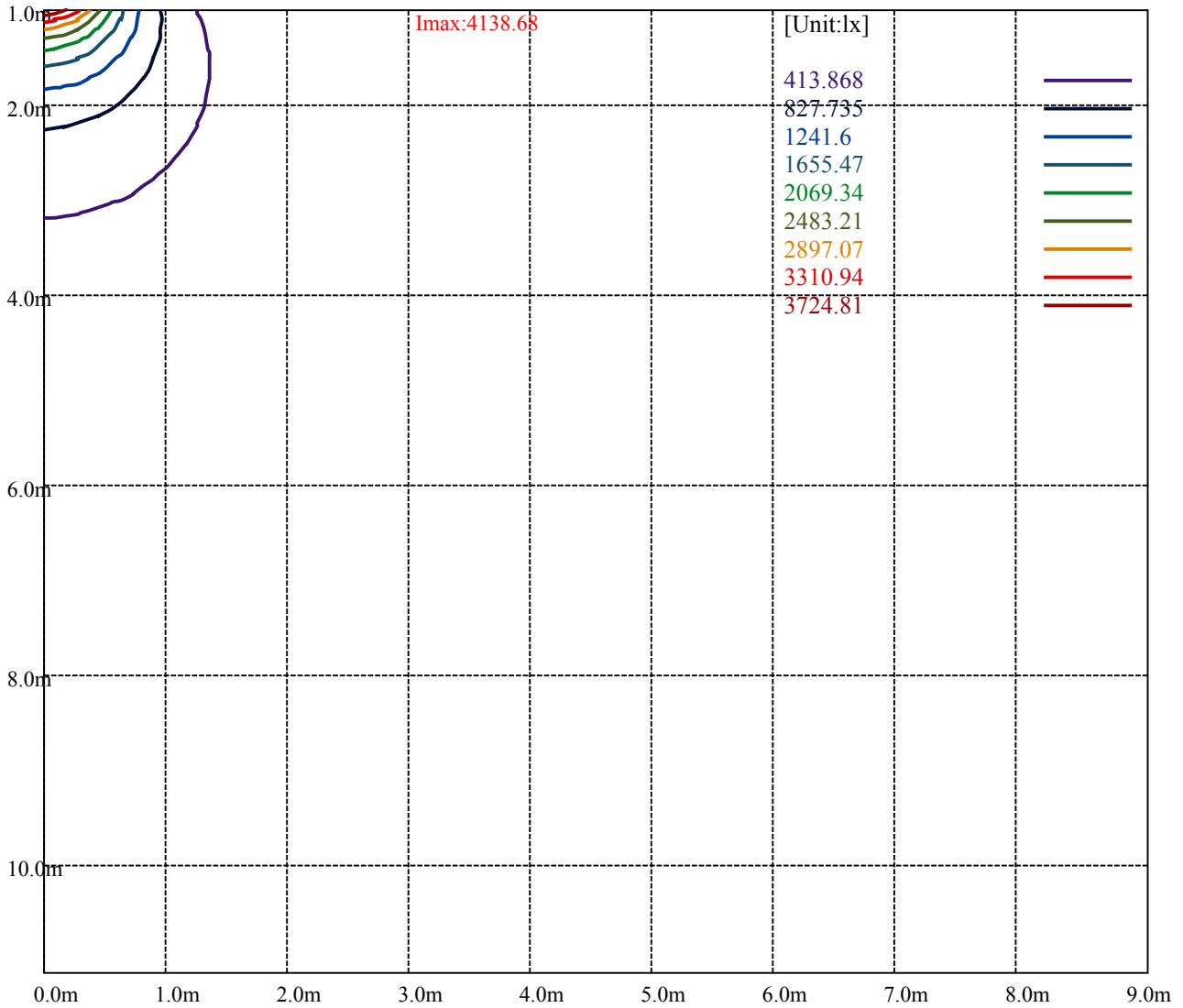
Road

I_{max}:4138.68

(10%I _{max})	414.108	
(20%I _{max})	828.217	
(30%I _{max})	1242.33	
(40%I _{max})	1656.43	
(50%I _{max})	2070.54	
(60%I _{max})	2484.65	
(70%I _{max})	2898.76	
(80%I _{max})	3312.87	
(90%I _{max})	3726.98	



(10%Emax) 6.461187	—
(20%Emax) 12.92239	—
(30%Emax) 19.38359	—
(40%Emax) 25.84484	—
(50%Emax) 32.30594	—
(60%Emax) 38.76719	—
(70%Emax) 45.22828	—
(80%Emax) 51.68953	—
(90%Emax) 58.15078	—



Luminance Table

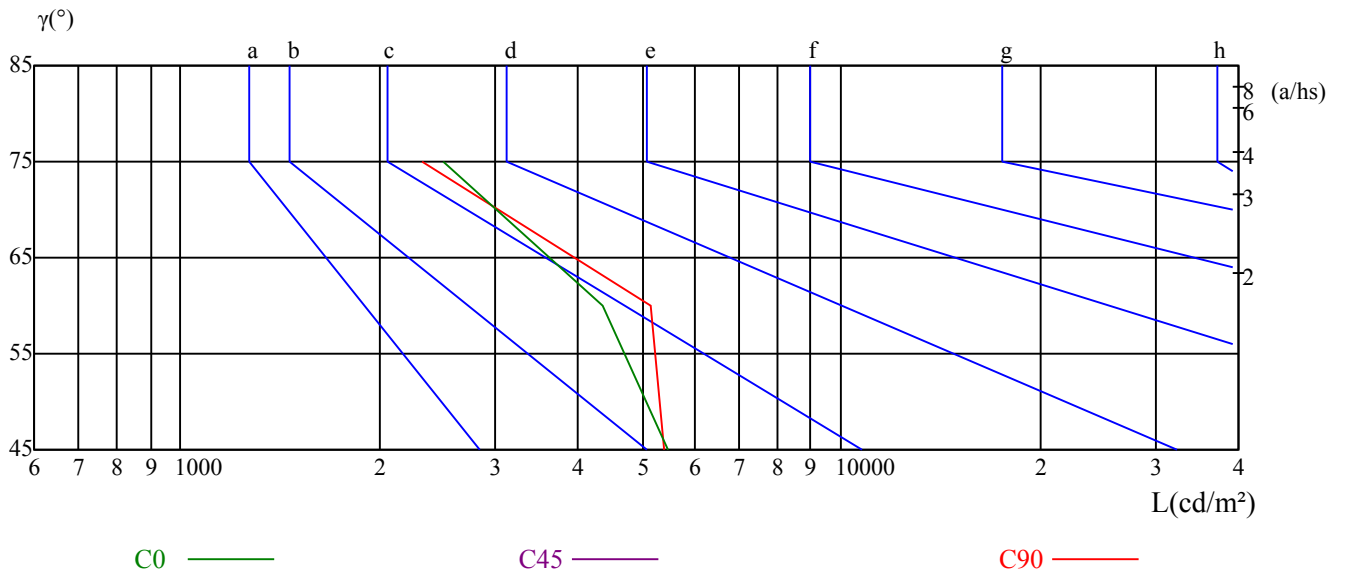
γ	45	50	55	60	65	70	75	80	85
C0	5459	0	0	4352	0	0	2497	0	0
C45	17	0	0	15	0	0	10	0	0
C90	5384	0	0	5142	0	0	2320	0	0

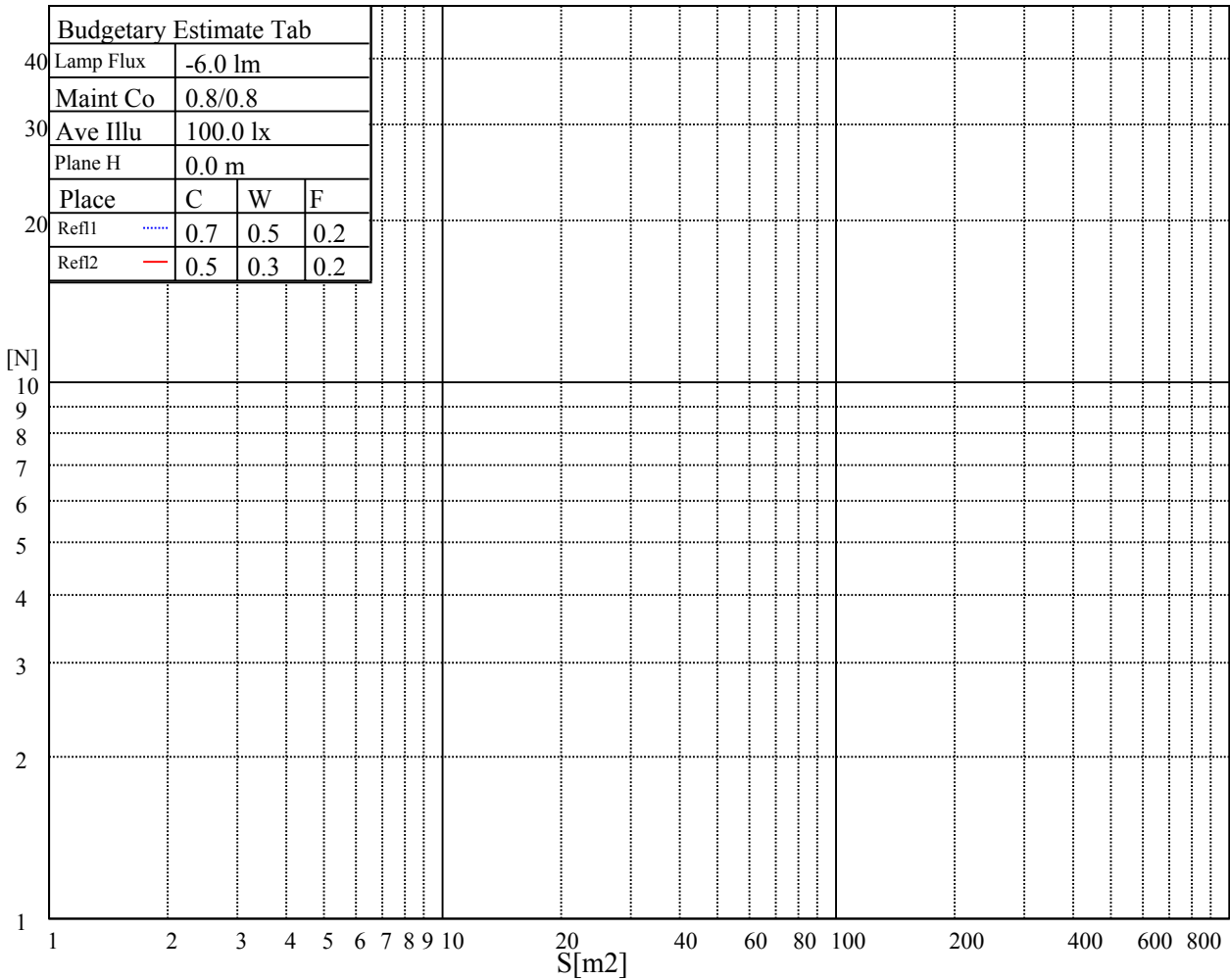
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19	19	19	4460	3042	17	17	17	17

Glare Table

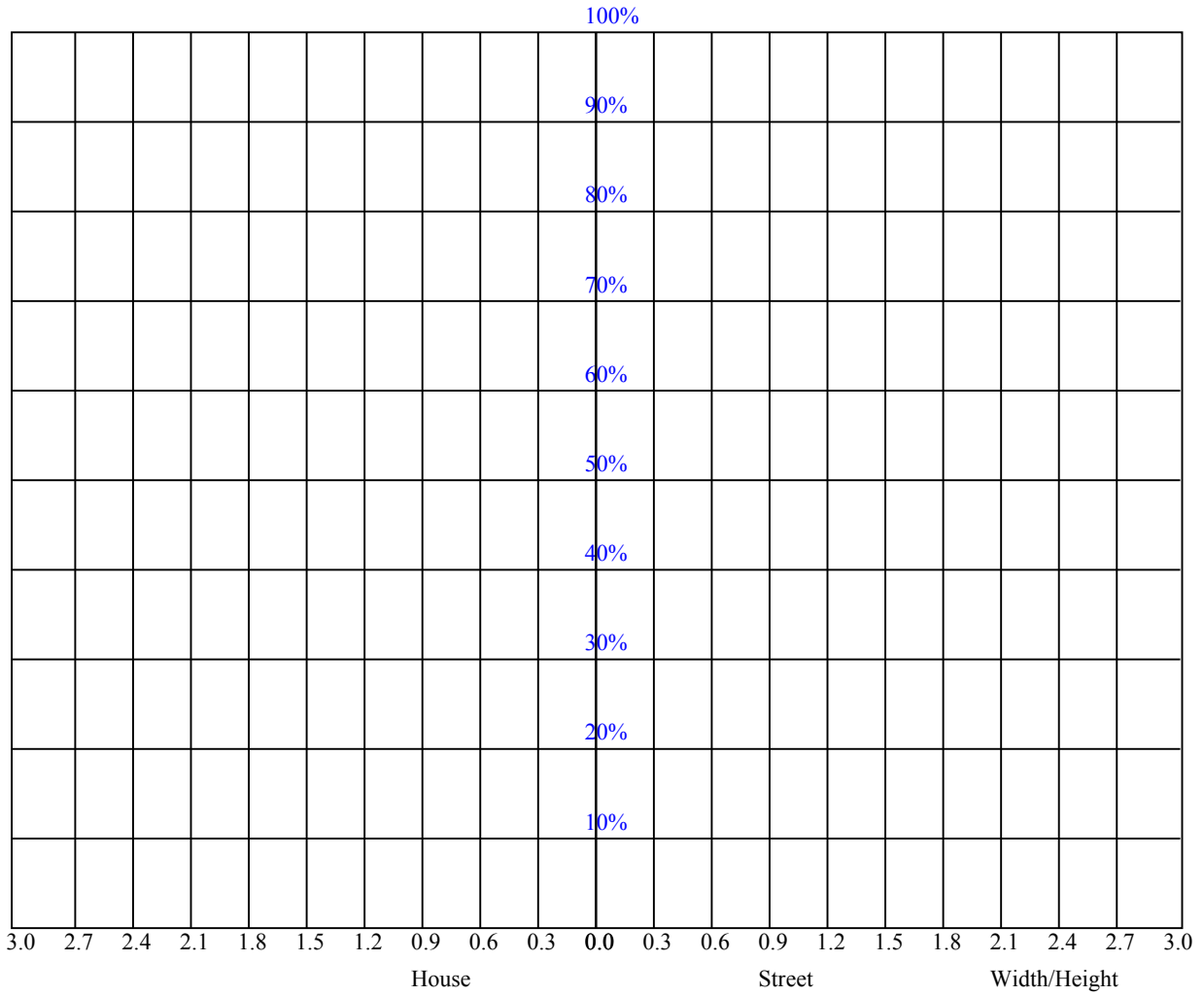
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Intensity data(cd)

C/γ(°)	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0
0.0	4138.68	3948.86	3461.18	2705.72	1758.87	723.72	140.98	132.52	141.70
30.0	4138.68	3939.48	3356.16	2470.03	1475.18	770.72	140.98	132.52	141.70
60.0	4131.66	4089.56	3271.07	2243.77	1702.13	610.93	150.38	141.99	141.70
90.0	4138.68	4117.69	3251.64	2307.07	1633.15	436.95	140.98	132.52	141.70
120.0	4132.86	4098.94	3268.56	2187.20	1635.93	507.55	140.98	132.52	132.26
150.0	4131.66	3930.10	3592.50	2517.17	1456.27	751.92	140.98	132.52	132.26
180.0	4138.68	3911.34	3386.14	2620.87	1626.48	592.14	131.58	132.52	141.70
210.0	4138.68	3864.44	3290.50	2531.98	1522.46	714.32	131.58	132.52	141.70
240.0	4131.66	3967.62	3379.27	2309.76	1654.85	460.55	131.58	132.52	132.26
270.0	4138.68	4105.97	3386.14	2394.61	1721.04	460.55	140.98	132.52	132.26
300.0	4141.08	3995.76	3475.58	2331.31	1695.46	573.34	140.98	141.99	141.70
330.0	4131.66	3883.20	3545.60	2790.57	1560.28	751.92	140.98	141.99	141.70
360.0	4138.68	3948.86	3461.18	2705.72	1758.87	723.72	140.98	132.52	141.70
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	141.84	141.84	141.41	141.41					
30.0	141.84	141.84	141.41	141.41					
60.0	141.84	141.84	141.41	141.41					
90.0	141.84	141.84	141.41	141.41					
120.0	141.84	141.84	141.41	141.41					
150.0	141.84	141.84	141.41	141.41					
180.0	141.84	141.84	141.41	141.41					
210.0	141.84	141.84	141.41	141.41					
240.0	141.84	141.84	141.41	141.41					
270.0	141.84	141.84	141.41	141.41					
300.0	141.84	141.84	141.41	141.41					
330.0	141.84	141.84	141.41	141.41					
360.0	141.84	141.84	141.41	141.41					