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PQL 91319 LED SMD 45.8" 25.5WT5/50K/SC/V5

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LumCAT: /

Luminaire: /

Report No: SL/BG6-172568-03

Test No:

LampCAT: 25.5WT5/50K/SC/V5

Lamp flux(lm): -1.0

Number of Lamps: 6

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 182.2000

PF:

Ballast type:

Width(mm): 470

Height(mm): 100

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Photometric Results

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Lumens(lm): 19566.61

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 107.39

Central intensity(cd): 6202.956

Maximum intensity(cd): 7747.375

Angle of maximum intensity: C=90.0  $\gamma$ =15.0

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

[C90/270]Total=84.8

Field angle(10%Imax): [C0/180]Total=167.0

[C90/270]Total=157.2

Maximum s/h(1/2): C0\_180=1.23 C90\_270=1.27

Maximum s/h(1/4): C0\_180=1.36 C90\_270=1.33

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 5.66%

Down flux rate of LUM(%): 94.34%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 74.268%

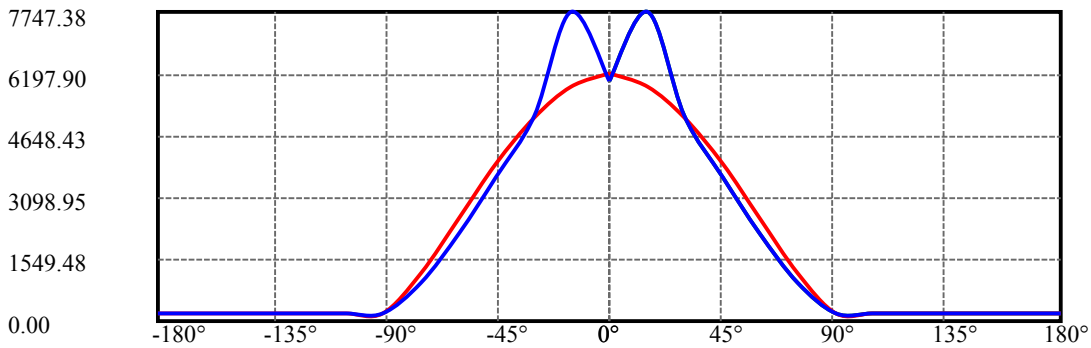
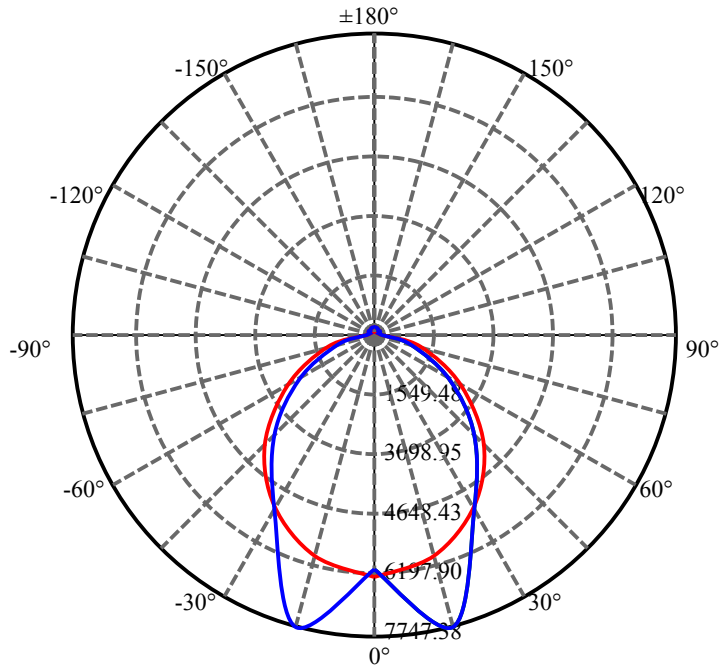
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6139.778	0.000	0	.000%	.000%
15.0	6678.616	1372.173	1372.173	.000%	7.013%
30.0	5775.454	3908.665	5280.838	.000%	26.989%
45.0	4104.954	4932.868	10213.707	.000%	52.200%
60.0	2531.649	4318.074	14531.78	.000%	74.268%
75.0	1187.419	2817.909	17349.69	.000%	88.670%
90.0	177.991	1110.220	18459.91	.000%	94.344%
105.0	173.790	286.035	18745.945	.000%	95.806%
120.0	173.966	263.492	19009.437	.000%	97.152%
135.0	175.354	227.283	19236.721	.000%	98.314%
150.0	178.641	176.735	19413.455	.000%	99.217%
165.0	183.978	113.807	19527.262	.000%	99.799%
180.0	183.605	39.349	19566.611	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	5280.84	N.A.	26.99%
0-40	5280.84	N.A.	26.99%
0-60	14531.78	N.A.	74.27%
0-90	18459.91	N.A.	94.34%
0-120	19009.44	N.A.	97.15%
0-180	19566.61	N.A.	100.00%
60-90	8246.20	N.A.	42.14%
90-120	1659.75	N.A.	8.48%
90-130	1659.75	N.A.	8.48%
90-150	2063.77	N.A.	10.55%
90-180	2177.57	N.A.	11.13%
0-65.97	15653.29	N.A.	80.00%

ZONAL LUMEN SUMMARY

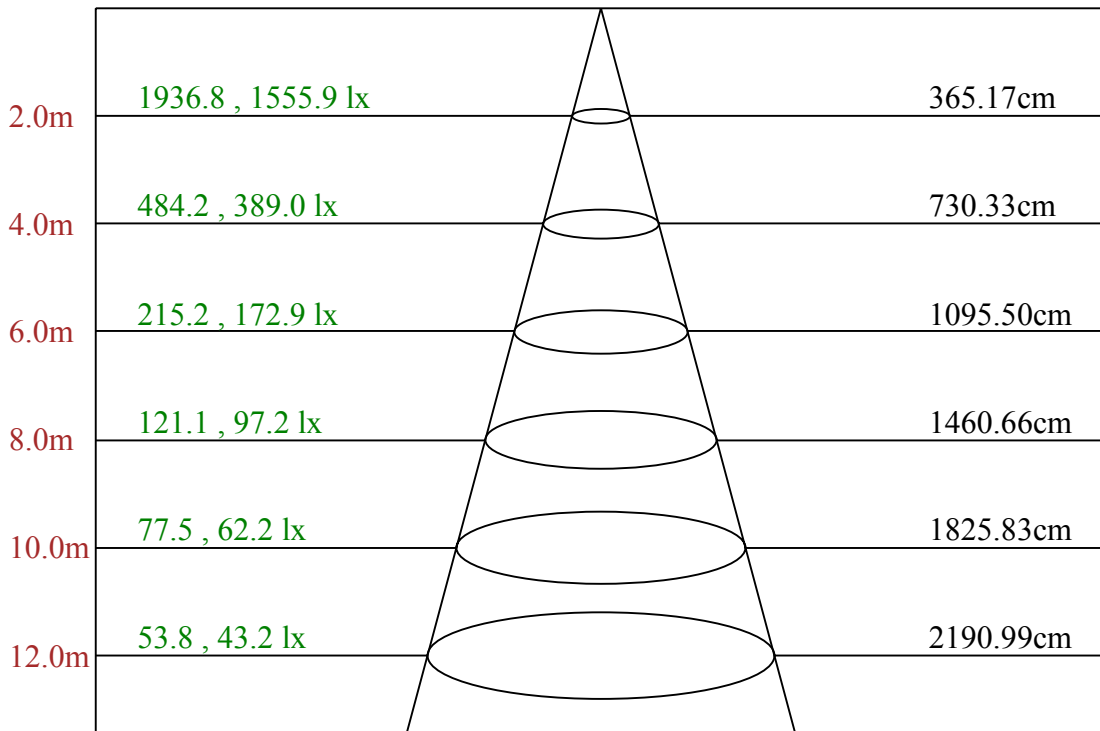
0-10	0.00
10-20	1372.17
20-30	3908.67
30-40	0.00
40-50	4932.87
50-60	4318.07
60-70	0.00
70-80	2817.91
80-90	1110.22
90-100	0.00
100-110	286.04
110-120	263.49
120-130	0.00
130-140	227.28
140-150	176.73
150-160	0.00
160-170	113.81
170-180	0.00



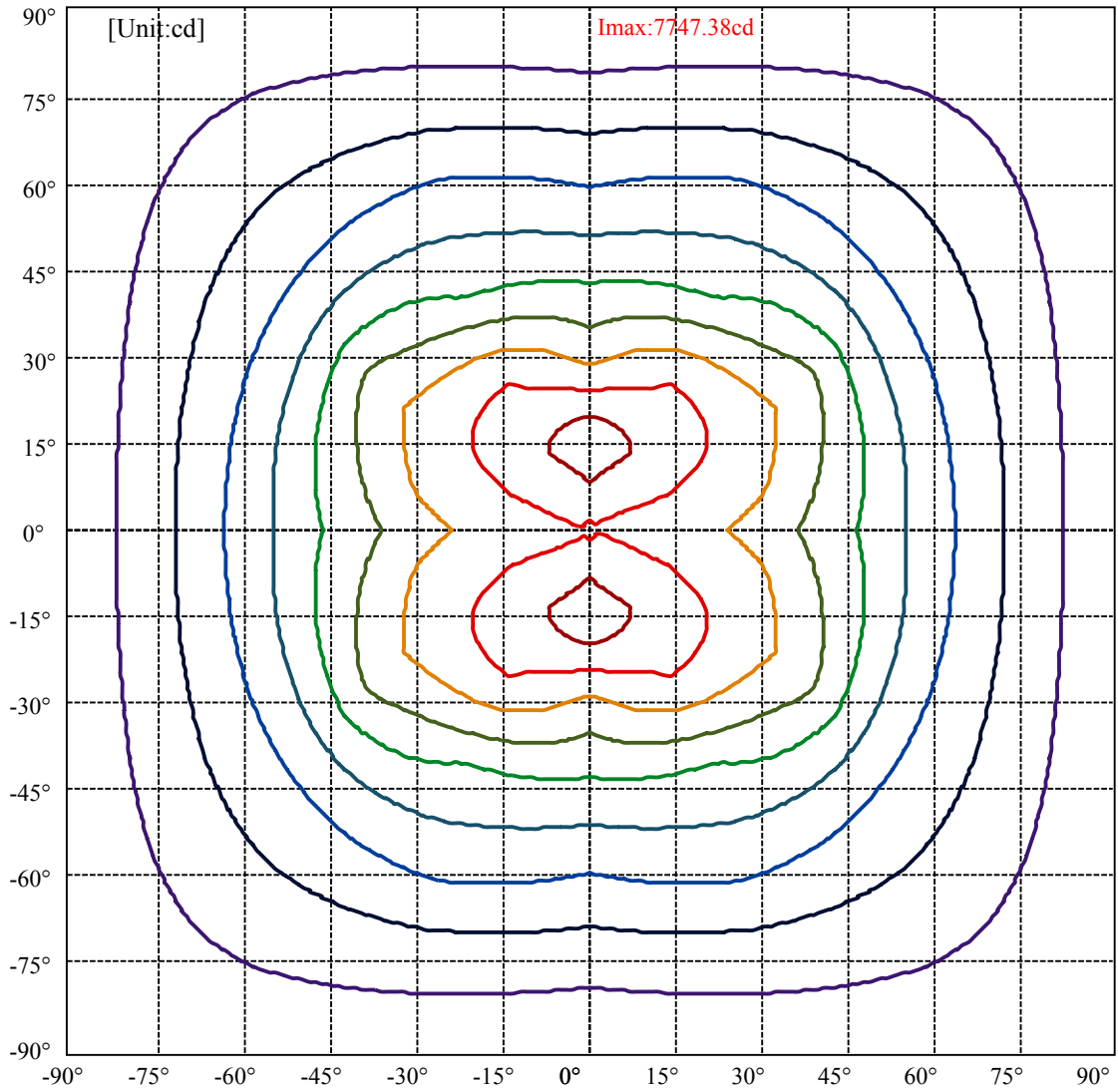
C90(Max): ———  
 C0/C180: ———  
 C90/C270: ———

Field angle(10%Imax):C0/180Left:83.5 Right:83.5  
 :C90/270Left:93.6 Right:63.6

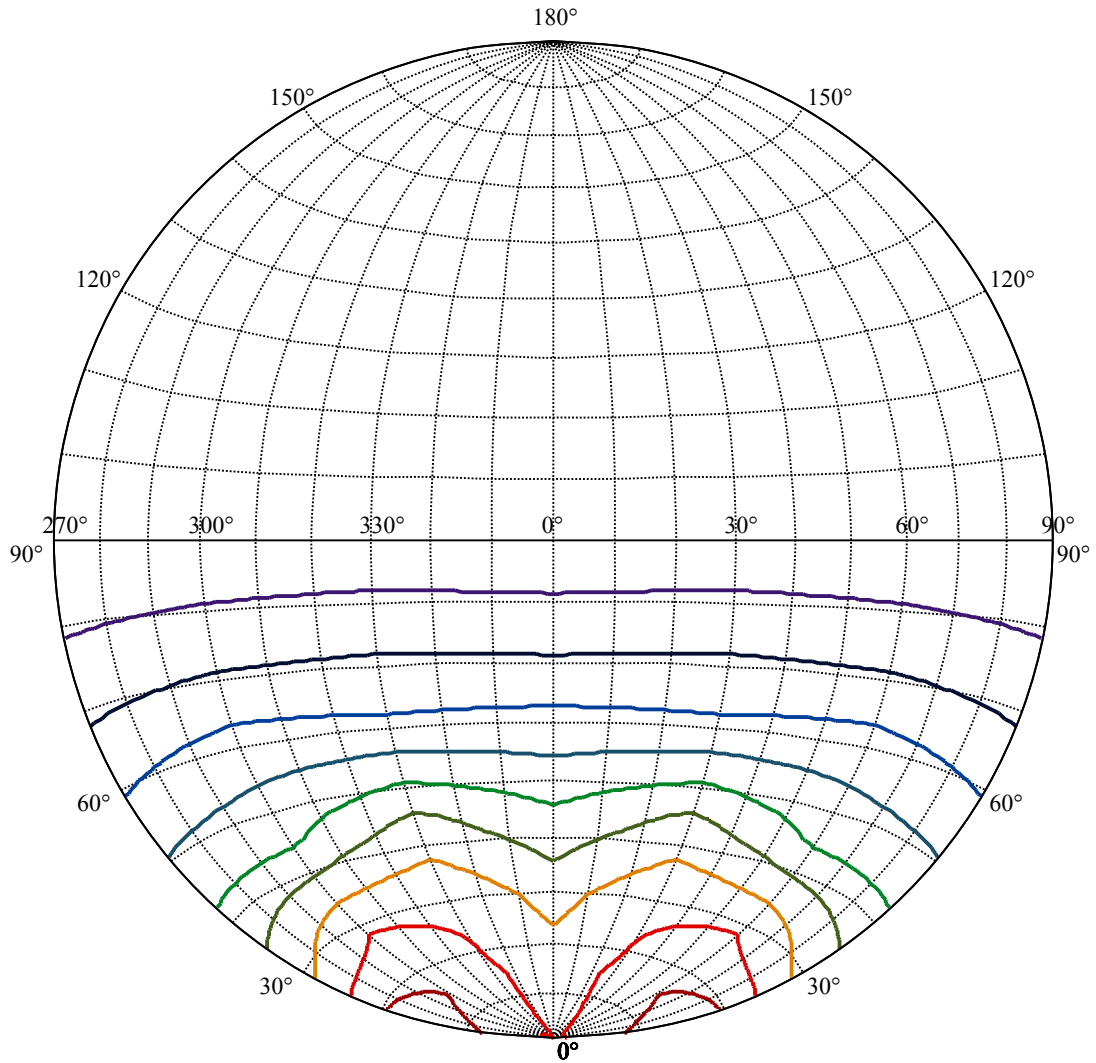
Beam Angle(50%Imax):C0/180Left:54.2 Right:54.2  
 :C90/270Left:57.4 Right:27.4



Max , Ave      Beam angle of C90 plane 84.79



(10%Imax) 774.737	—
(20%Imax) 1549.47	—
(30%Imax) 2324.21	—
(40%Imax) 3098.95	—
(50%Imax) 3873.69	—
(60%Imax) 4648.42	—
(70%Imax) 5423.16	—
(80%Imax) 6197.9	—
(90%Imax) 6972.64	—



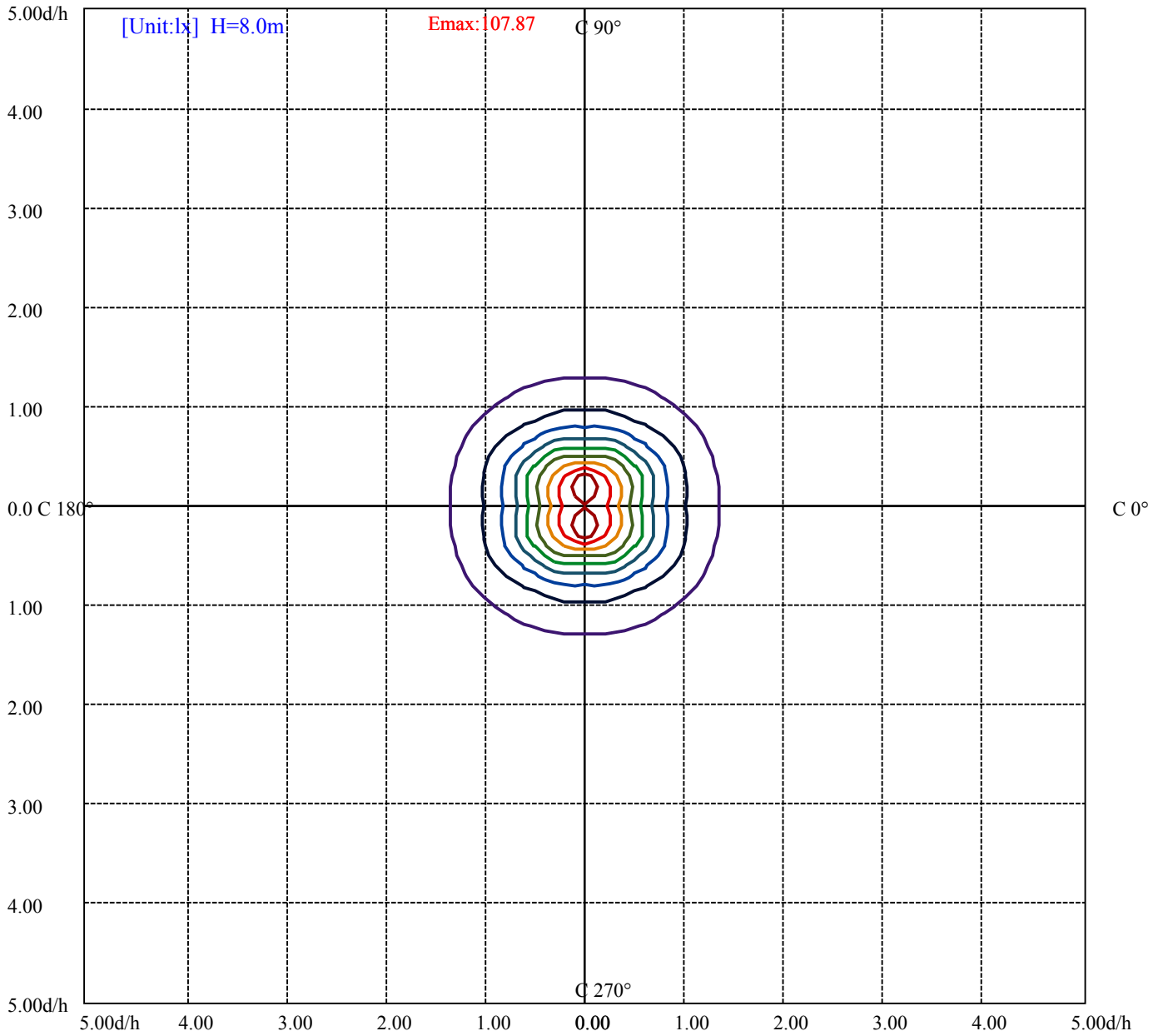
House

[Unit:cd]

Road

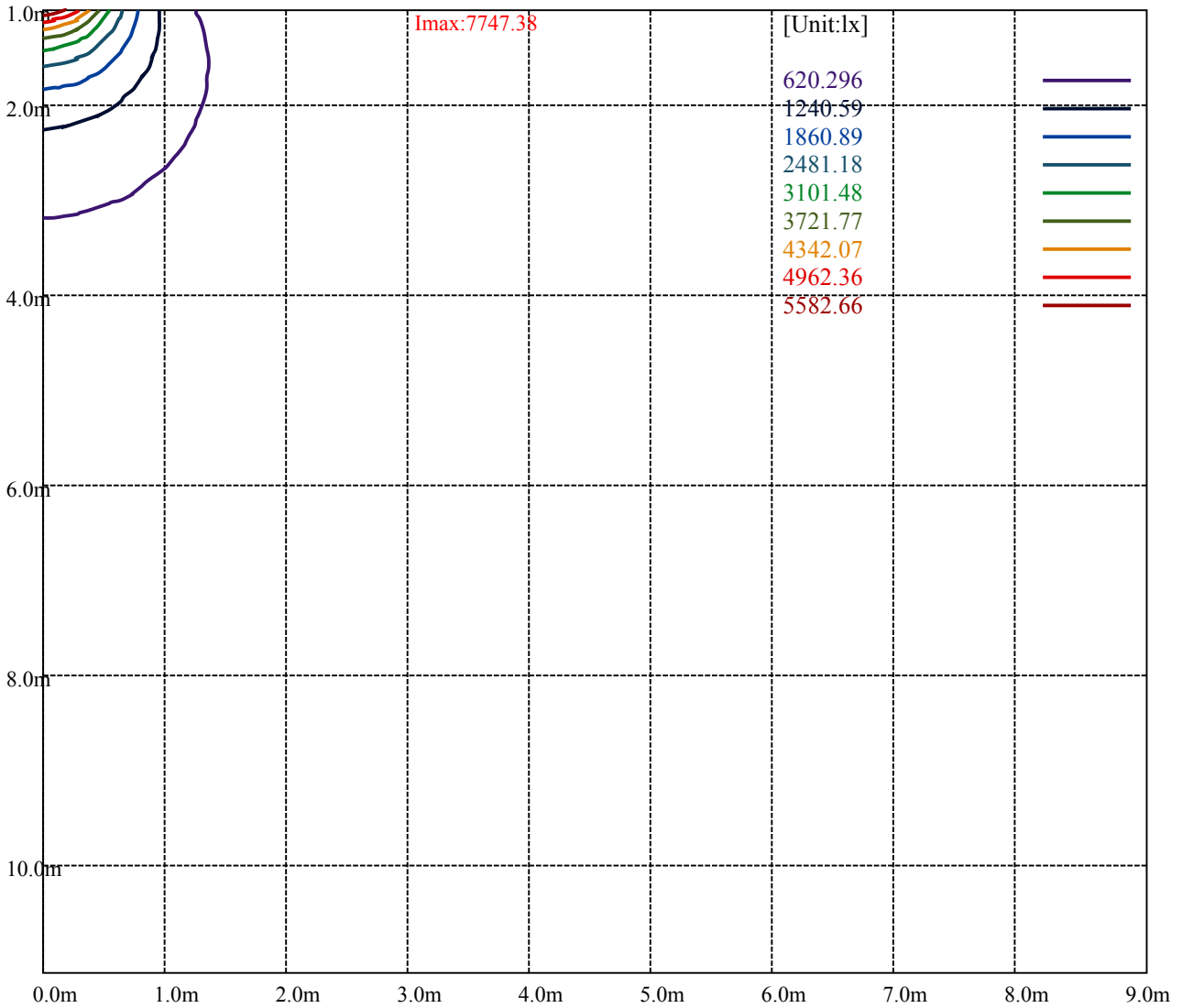
**Imax:7747.38**

(10%Imax) 774.737	—
(20%Imax) 1549.47	—
(30%Imax) 2324.21	—
(40%Imax) 3098.95	—
(50%Imax) 3873.69	—
(60%Imax) 4648.42	—
(70%Imax) 5423.16	—
(80%Imax) 6197.9	—
(90%Imax) 6972.64	—



(10%Emax) 10.78734	—
(20%Emax) 21.57469	—
(30%Emax) 32.36203	—
(40%Emax) 43.14938	—
(50%Emax) 53.93672	—
(60%Emax) 64.72406	—
(70%Emax) 75.51141	—
(80%Emax) 86.29875	—
(90%Emax) 97.08609	—





Luminance Table

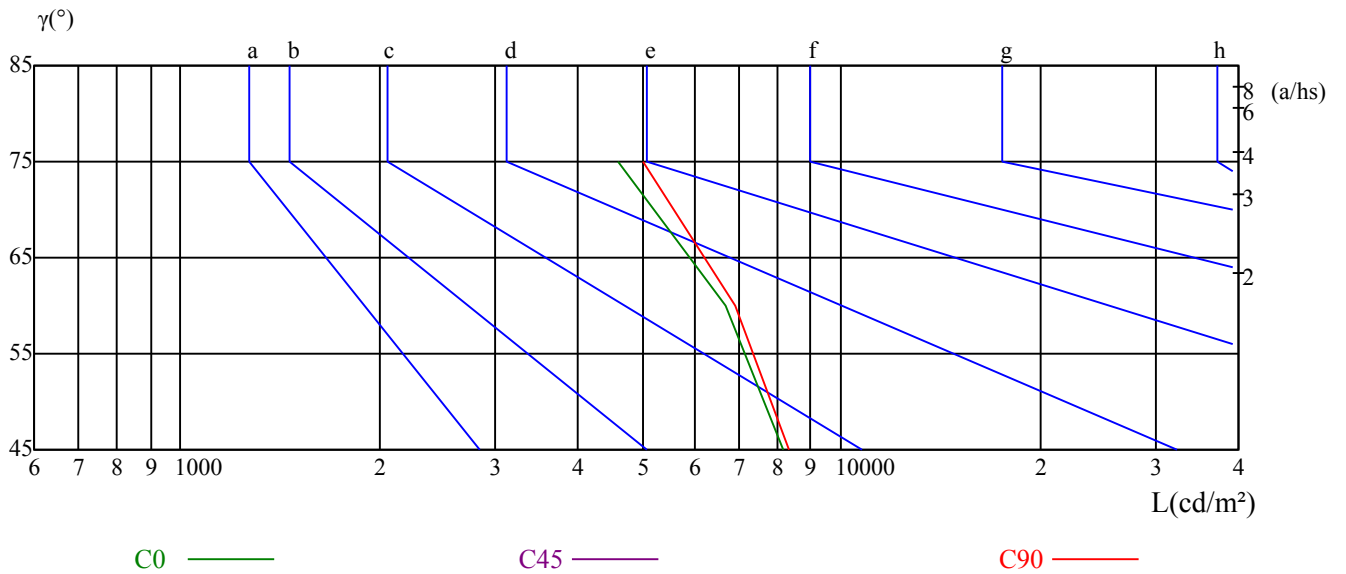
$\gamma$	45	50	55	60	65	70	75	80	85
C0	8158	0	0	6674	0	0	4601	0	0
C45	0	0	0	0	0	0	0	0	0
C90	8339	0	0	6931	0	0	5024	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	8254	6587	0	0	0	0

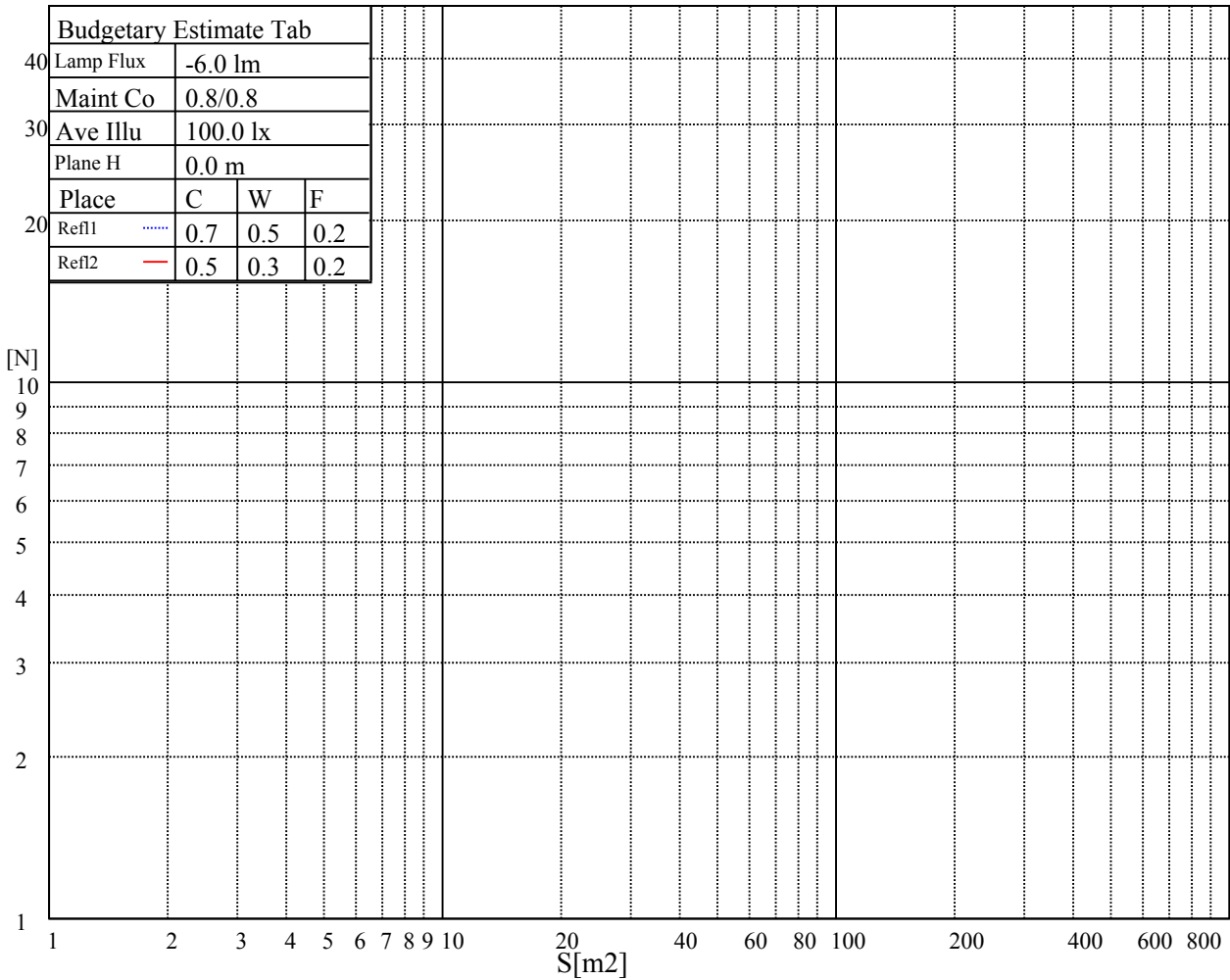
Glare Table

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

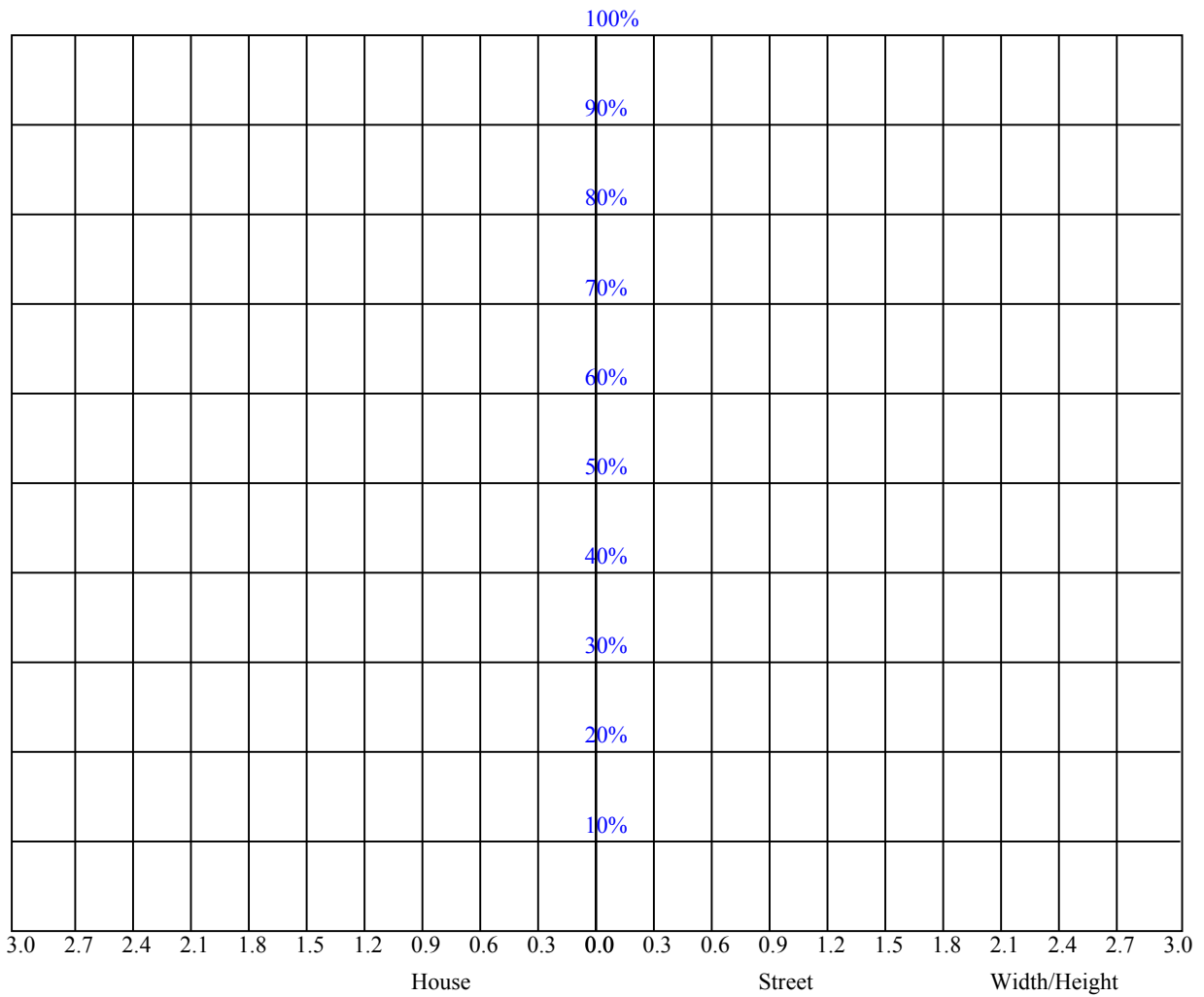
Luminance Limiting Curve



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	8.11	9.60	8.57	10.03	10.50	8.36	9.84	8.82	10.28	10.74
	3H	9.65	10.99	10.12	11.44	11.95	9.84	11.18	10.31	11.63	12.14
	4H	10.18	11.45	10.68	11.92	12.44	10.41	11.67	10.90	12.14	12.66
	6H	10.64	11.81	11.14	12.29	12.83	10.86	12.04	11.37	12.52	13.05
	8H	10.82	11.95	11.34	12.45	12.98	11.03	12.15	11.55	12.65	13.18
	12H	11.10	12.17	11.62	12.67	13.24	11.25	12.33	11.78	12.82	13.39
4H	2H	8.67	9.93	9.16	10.40	10.92	8.86	10.13	9.36	10.60	11.12
	3H	10.46	11.53	10.97	12.04	12.58	10.60	11.66	11.10	12.18	12.72
	4H	11.12	12.09	11.65	12.61	13.19	11.31	12.28	11.84	12.80	13.37
	6H	11.55	12.41	12.12	12.96	13.55	11.77	12.63	12.34	13.18	13.77
	8H	11.82	12.61	12.37	13.16	13.76	12.02	12.81	12.57	13.36	13.96
	12H	12.12	12.84	12.70	13.42	14.02	12.27	12.98	12.84	13.56	14.17
8H	4H	11.42	12.21	11.97	12.76	13.36	11.59	12.38	12.14	12.93	13.53
	6H	12.03	13.16	12.62	13.29	13.89	12.24	13.37	12.82	13.49	14.10
	8H	12.37	12.97	12.97	13.57	14.19	12.56	13.15	13.16	13.75	14.38
	12H	12.99	13.51	13.59	14.48	14.80	13.06	13.59	13.66	14.56	14.87
12H	4H	11.46	12.17	12.03	12.75	13.35	11.62	12.33	12.19	12.91	13.52
	6H	13.04	12.71	12.73	13.28	13.95	13.23	12.91	12.92	13.47	14.14
	8H	12.51	13.04	13.11	13.63	14.32	12.68	13.21	13.28	13.80	14.49
Variation with the observer position at spacings:											
S = 1.0H	0.2/-0.5					0.3/-0.6					
S = 1.5H	0.6/-0.8					0.6/-0.7					
S = 2.0H	0.7/-1.0					0.8/-0.8					
Standard tables:	BK4					BK4					
Uncorrected UGR	4.9					5.2					



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	6202.96	5926.03	5154.27	4031.92	2667.69	1296.71	184.73	172.83	173.01
30.0	6145.52	5685.79	5805.69	5640.10	2897.66	1583.59	173.18	172.83	184.54
60.0	6145.52	6292.12	7222.83	4399.50	3024.14	1572.11	184.73	172.83	173.01
90.0	6019.17	7875.57	5205.69	3648.13	2116.13	1101.63	184.73	172.83	173.01
120.0	6111.06	6475.16	6822.83	4066.38	2909.16	1285.23	173.18	172.83	173.01
150.0	6214.44	5674.35	5794.26	5571.17	2805.67	1549.16	184.73	172.83	173.01
180.0	6202.96	5857.39	5028.55	3859.62	2483.71	1113.10	173.18	172.83	173.01
210.0	6145.52	6841.25	6388.55	3985.97	2150.25	1055.73	184.73	172.83	173.01
240.0	6145.52	7470.46	5039.98	3227.84	2299.73	921.31	173.18	172.83	173.01
270.0	6019.17	7619.18	5117.12	3557.57	2357.22	821.31	173.18	172.83	173.01
300.0	6111.06	7504.78	5348.55	3354.19	2495.21	904.91	173.18	172.83	173.01
330.0	6214.44	6921.33	6377.12	3917.05	2173.24	1044.25	173.18	184.35	173.01
360.0	6202.96	5926.03	5154.27	4031.92	2667.69	1296.71	184.73	172.83	173.01
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	172.48	183.42	183.98	183.61					
30.0	183.98	171.95	183.98	183.61					
60.0	172.48	183.42	183.98	183.61					
90.0	172.48	183.42	183.98	183.61					
120.0	172.48	171.95	183.98	183.61					
150.0	172.48	171.95	183.98	183.61					
180.0	172.48	171.95	183.98	183.61					
210.0	183.98	171.95	183.98	183.61					
240.0	172.48	183.42	183.98	183.61					
270.0	172.48	183.42	183.98	183.61					
300.0	172.48	183.42	183.98	183.61					
330.0	183.98	183.42	183.98	183.61					
360.0	172.48	183.42	183.98	183.61					