

---

P.Q.L., Inc. 6 LAMPS

---

LumCAT: 6 LAMPS	Luminaire: 5000K
Report No: /	Voltage(V):
Test No:	Current(A):
LampCAT: LED SMD 18WT8/50K/CL	Power (W): 107.300
Lamp flux(lm)	PF:
Number of Lamps: 6	Ballast type:
Length(mm): 1200	Width(mm): 500
Phm Type: C	Height(mm): 150

---

Photometric Results

---

Lumens(lm): 13741.57  
Lumens(lm)/Power(W): 128.07  
Central intensity(cd): 4634.056  
Maximum intensity(cd): 4634.056  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [H]Left=53.9 Right=53.3  
[V]Left=52.6 Right=53.9  
Field angle(10%Imax): [H]Left=82.8 Right=82.8  
[V]Left=84.4 Right=82.8  
Maximum s/h: C0\_180=1.12 C90\_270=1.24  
Up flux rate of LUM(%): 7.75%  
Down flux rate of LUM(%): 92.25%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 70.887%

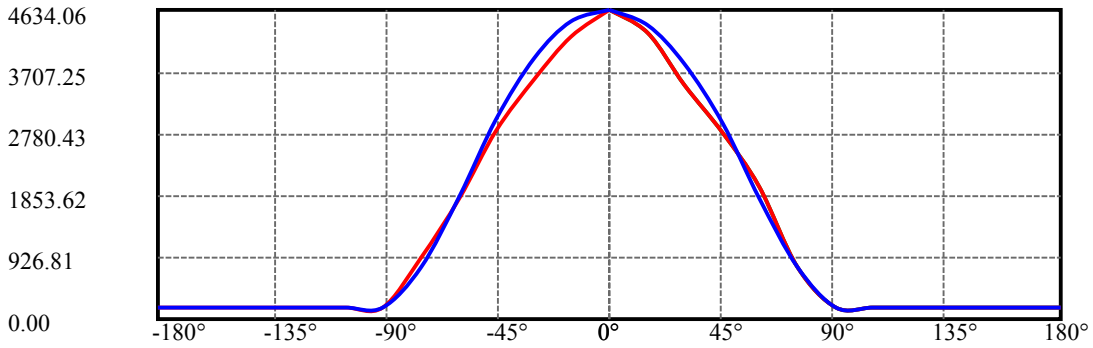
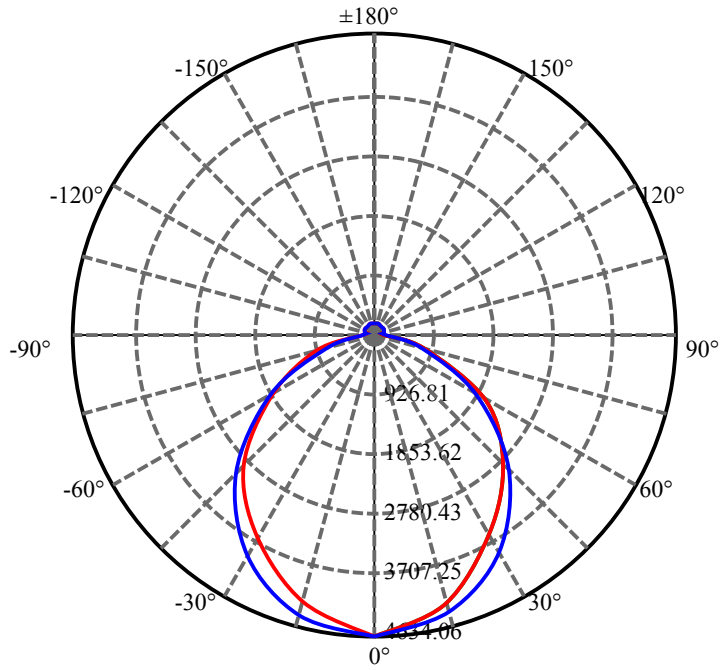
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4628.278	.000	.000	.000%	.000%
15.0	4323.964	958.312	958.312	6.974%	6.974%
30.0	3666.220	2507.690	3466.003	18.249%	25.223%
45.0	2821.651	3239.119	6705.121	23.572%	48.794%
60.0	1844.185	3035.803	9740.925	22.092%	70.887%
75.0	878.275	2062.787	11803.710	15.011%	85.898%
90.0	194.531	872.303	12676.010	6.348%	92.246%
105.0	161.788	289.724	12965.740	2.108%	94.354%
120.0	162.751	245.901	13211.640	1.789%	96.144%
135.0	166.603	214.293	13425.930	1.559%	97.703%
150.0	173.344	169.721	13595.650	1.235%	98.938%
165.0	173.344	108.807	13704.460	.792%	99.730%
180.0	173.344	37.112	13741.570	.270%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	3466.00	25.22%
0-40	3466.00	25.22%
0-60	9740.93	70.89%
0-90	12676.01	92.25%
90-120	535.62	3.90%
90-130	535.62	3.90%
90-150	919.64	6.69%
90-180	1028.45	7.48%
0-180	13741.57	100.00%

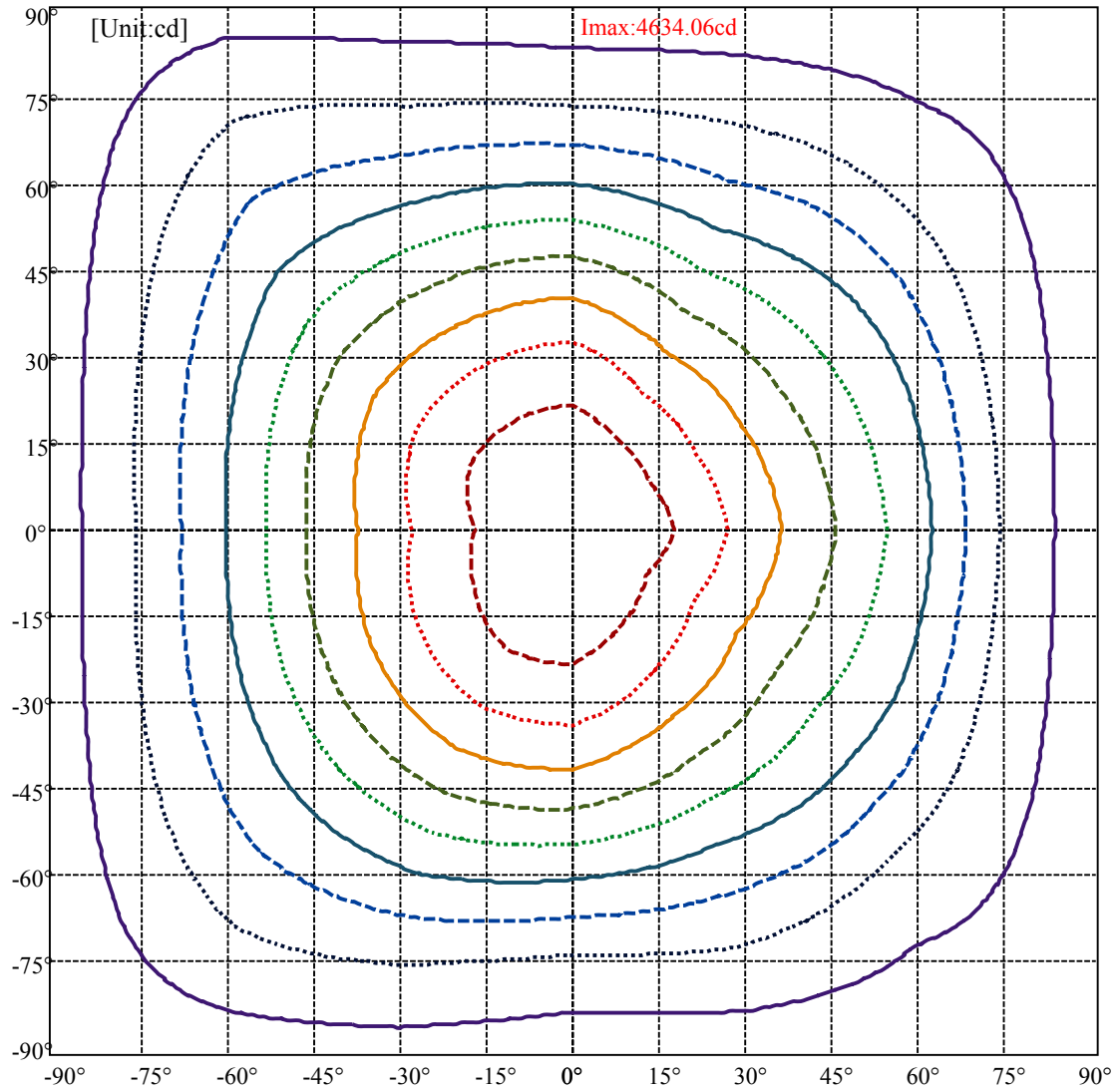
## ZONAL LUMEN SUMMARY

0-10	0.00
10-20	958.31
20-30	2507.69
30-40	0.00
40-50	3239.12
50-60	3035.80
60-70	0.00
70-80	2062.79
80-90	872.30
90-100	0.00
100-110	289.72
110-120	245.90
120-130	0.00
130-140	214.29
140-150	169.72
150-160	0.00
160-170	108.81
170-180	0.00



C0(Max): —  
C0/C180: —  
C90/C270: —



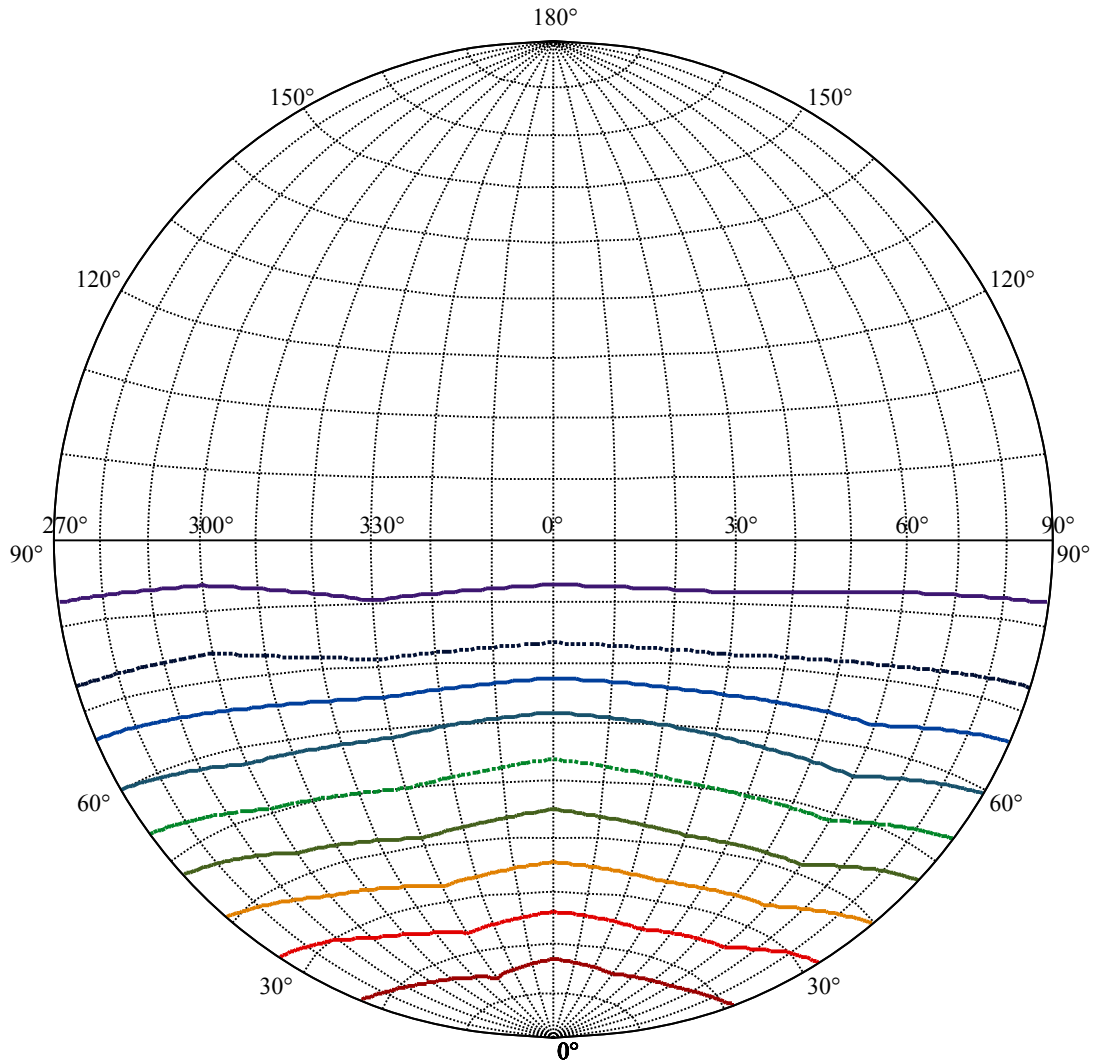


- (10%Imax) 462.25
- (20%Imax) 924.5
- (30%Imax) 1386.75
- (40%Imax) 1849
- (50%Imax) 2311.25
- (60%Imax) 2773.5
- (70%Imax) 3235.75
- (80%Imax) 3698
- (90%Imax) 4160.25

Equipment: 123  
Temperature(°C): 345

Date: 2016-1-13  
Humidity(%): 456%

Operator: 234  
Distance(m): 567

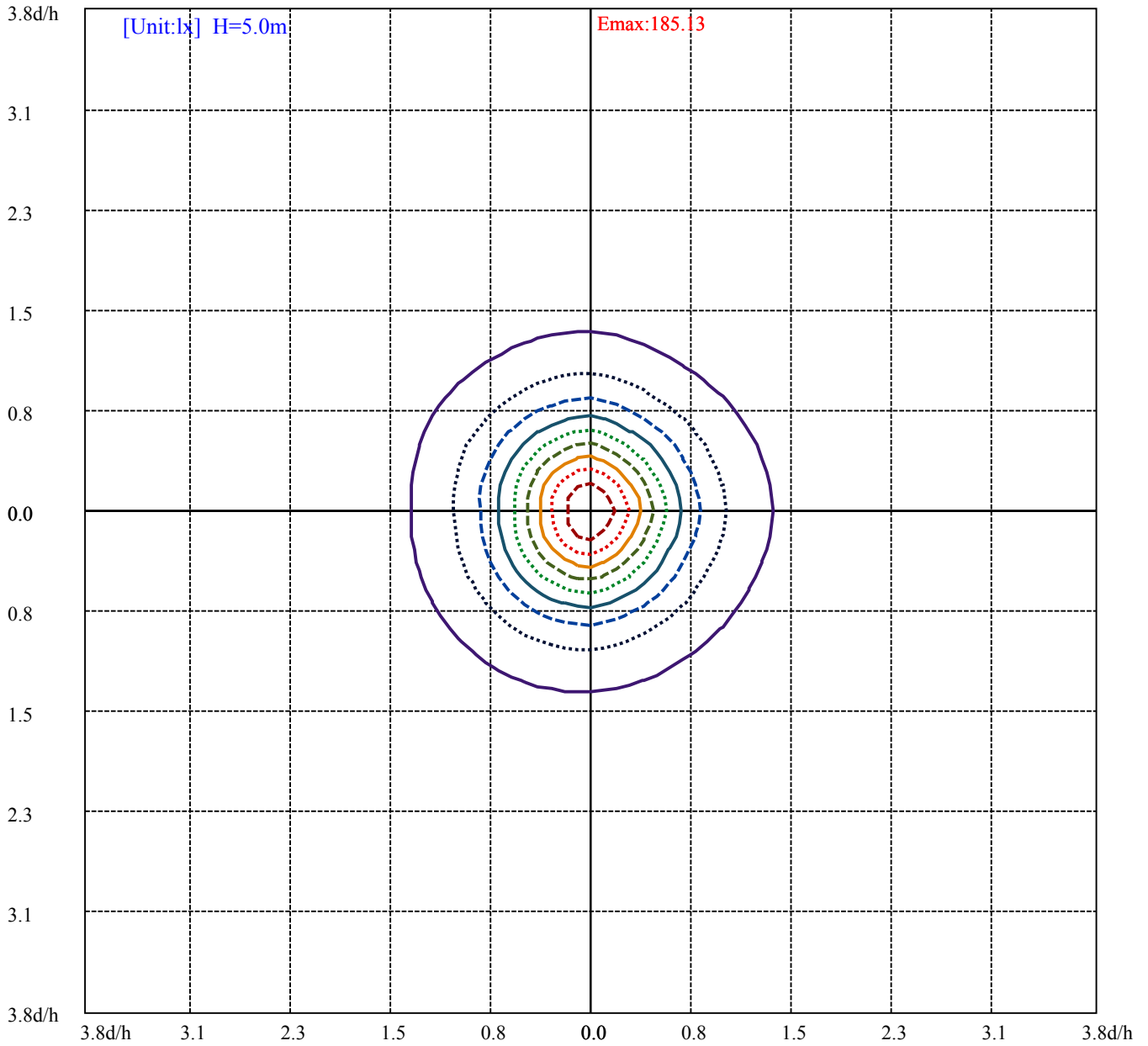


House

Road

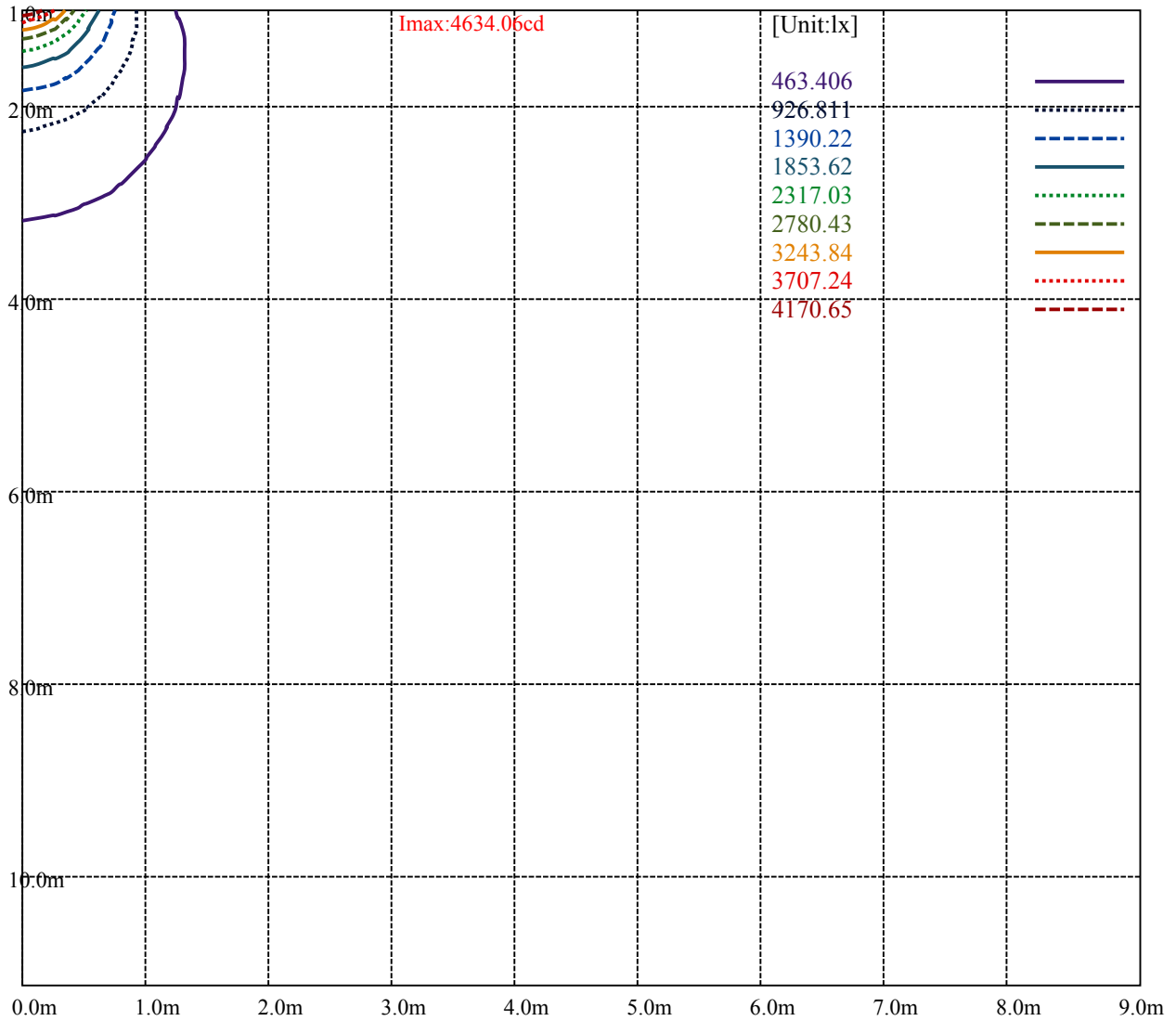
Imax:4634.06cd

- (10%Imax) 463.406
- (20%Imax) 926.811
- (30%Imax) 1390.22
- (40%Imax) 1853.62
- (50%Imax) 2317.03
- (60%Imax) 2780.43
- (70%Imax) 3243.84
- (80%Imax) 3707.24
- (90%Imax) 4170.65



- (10%Emax) 18.51308 ————
- (20%Emax) 37.0262      ······
- (30%Emax) 55.5392      - - - -
- (40%Emax) 74.0524      ————
- (50%Emax) 92.5656      ······
- (60%Emax) 111.0784    - - - -
- (70%Emax) 129.5916    ————
- (80%Emax) 148.1048    ······
- (90%Emax) 166.618     - - - -





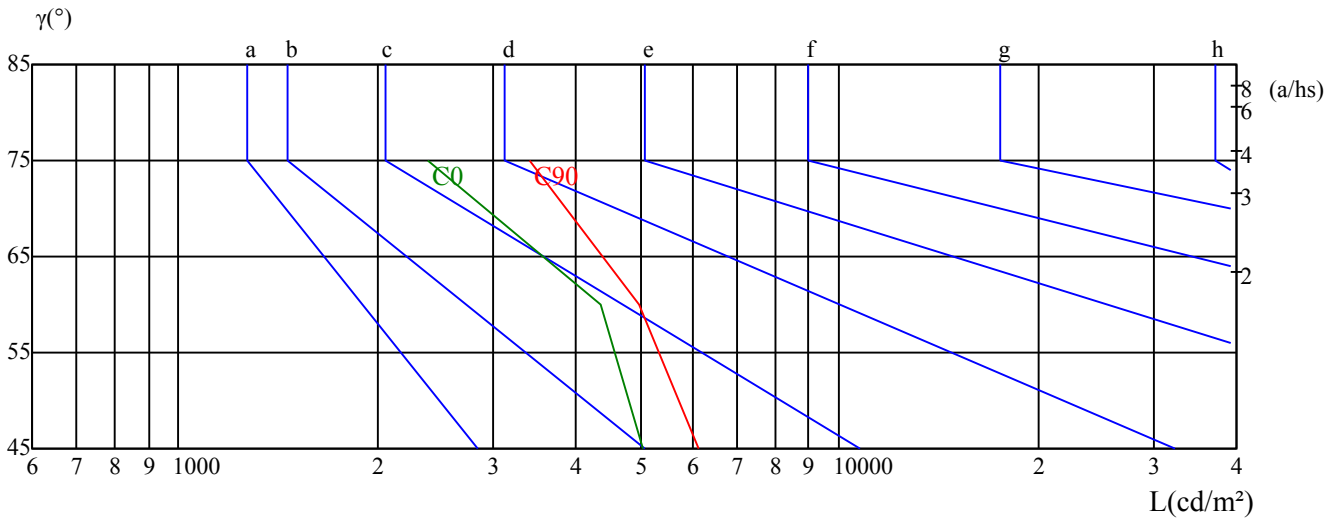
Luminance Table

$\gamma$	45	50	55	60	65	70	75	80	85
C0	5050	0	0	4360	0	0	2387	0	0
C45	0	0	0	0	0	0	0	0	0
C90	6126	0	0	4971	0	0	3400	0	0

Glare Table

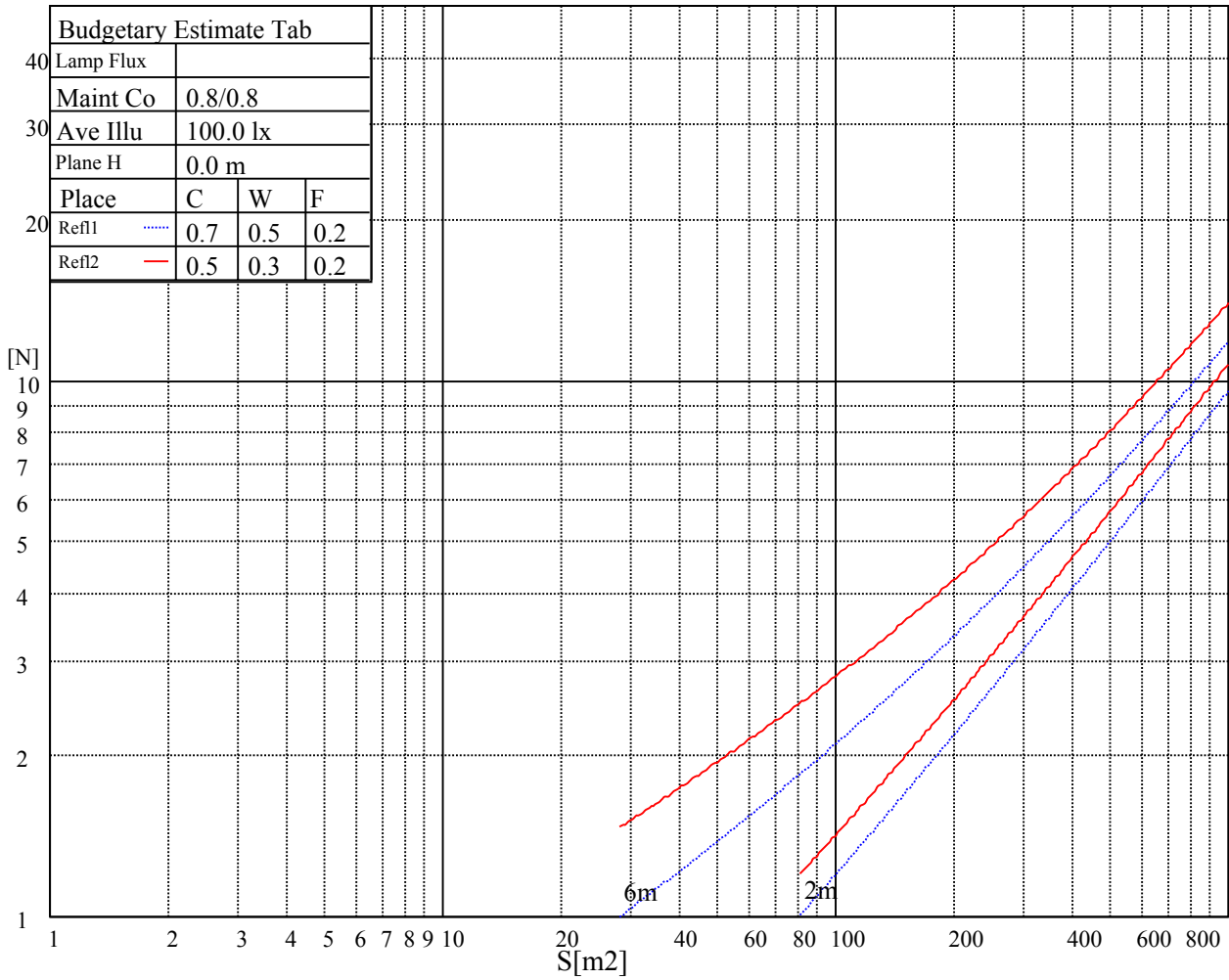
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

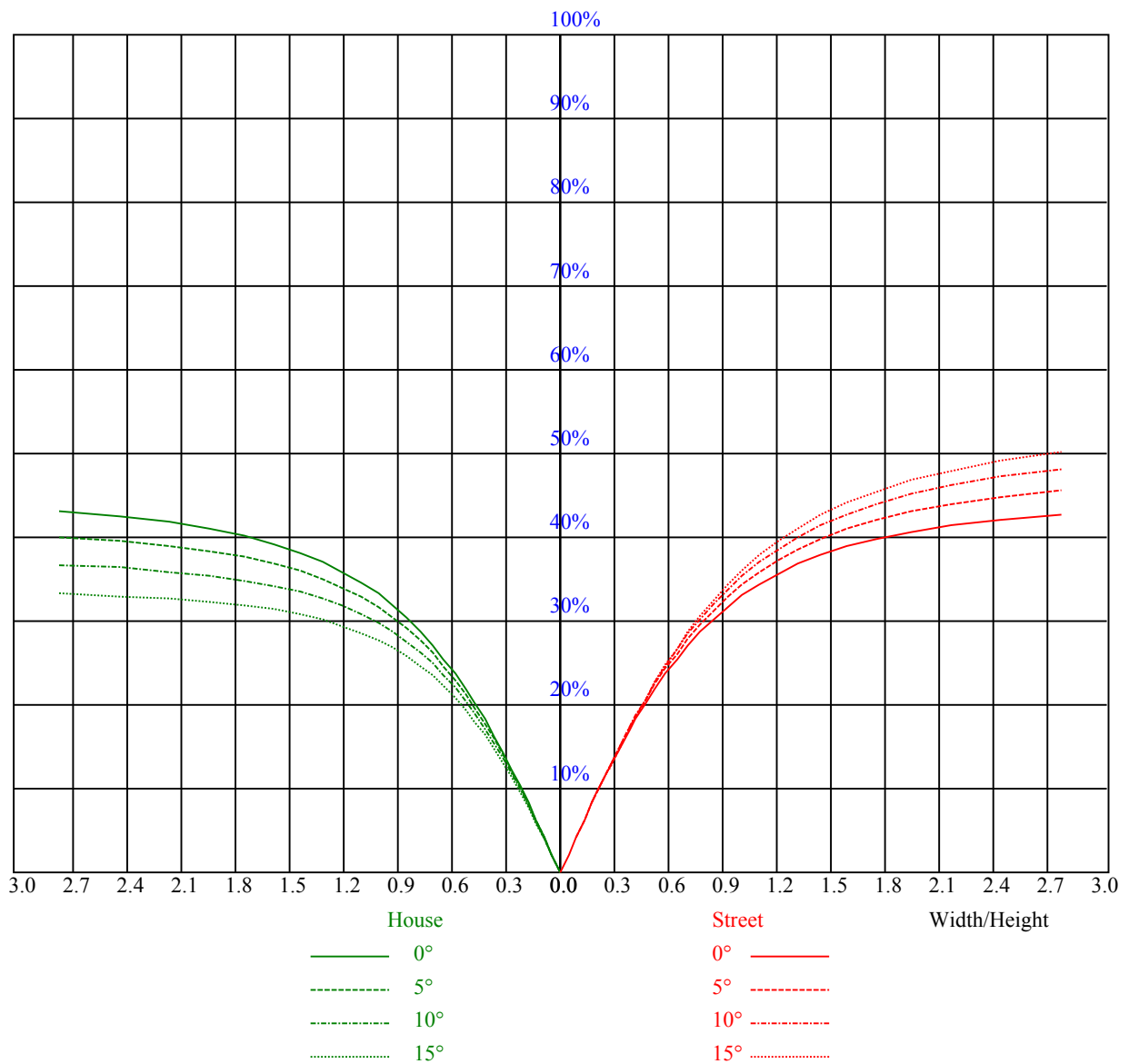


Illuminatin assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	7.7	9.2	8.2	9.6	10.0	7.5	9.0	8.0	9.4	9.9
	3H	9.2	10.5	9.6	10.9	11.4	9.1	10.4	9.5	10.8	11.3
	4H	9.5	10.6	10.0	11.1	11.6	9.5	10.6	10.0	11.1	11.6
	6H	9.9	11.1	10.4	11.6	12.1	10.1	11.2	10.6	11.7	12.2
	8H	10.1	11.3	10.6	11.8	12.3	10.4	11.5	10.9	12.0	12.5
	12H	10.1	11.0	10.6	11.5	12.1	10.4	11.3	10.9	11.8	12.4
4H	2H	8.0	9.2	8.5	9.6	10.2	7.8	9.0	8.3	9.5	10.0
	3H	9.6	10.5	10.1	11.0	11.6	9.5	10.4	10.1	11.0	11.6
	4H	10.2	11.2	10.8	11.7	12.3	10.3	11.3	10.9	11.8	12.4
	6H	10.8	11.8	11.4	12.3	12.9	11.1	12.0	11.6	12.5	13.1
	8H	10.9	11.5	11.5	12.1	12.8	11.2	11.8	11.8	12.4	13.1
	12H	11.1	11.7	11.7	12.3	13.0	11.5	12.1	12.1	12.7	13.4
8H	4H	10.3	11.0	11.0	11.6	12.3	10.4	11.1	11.0	11.7	12.3
	6H	11.1	11.7	11.7	12.3	13.0	11.3	12.0	11.9	12.6	13.2
	8H	11.4	12.0	12.0	12.7	13.3	11.8	12.4	12.4	13.0	13.7
	12H	11.7	12.4	12.3	13.0	13.6	12.2	12.8	12.8	13.4	14.1
12H	4H	10.4	11.0	11.0	11.6	12.3	10.5	11.1	11.1	11.7	12.4
	6H	11.2	11.8	11.8	12.4	13.1	11.4	12.1	12.0	12.7	13.3
	8H	11.6	12.2	12.2	12.8	13.5	11.9	12.5	12.5	13.1	13.8
Variation with the observer position at spacings:											
S = 1.0H	0.3/-0.5					0.3/-0.6					
S = 1.5H	0.7/-0.6					0.6/-0.6					
S = 2.0H	0.9/-0.7					0.7/-0.7					
Standard tables:	BK3					BK3					
Uncorrected UGR	-6.7					-6.5					
According 1000lm											

五、灯具的概算曲线



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	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	0.95	0.95	0.95	0.92
1	0.93	0.86	0.80	0.90	0.84	0.78	0.84	0.79	0.74	0.78	0.74	0.70	0.73	0.70	0.67	0.64
2	0.80	0.71	0.64	0.77	0.69	0.62	0.72	0.65	0.59	0.68	0.62	0.57	0.63	0.59	0.54	0.51
3	0.69	0.59	0.51	0.67	0.58	0.50	0.63	0.55	0.48	0.59	0.52	0.47	0.55	0.49	0.45	0.42
4	0.60	0.50	0.42	0.58	0.49	0.41	0.55	0.46	0.40	0.51	0.44	0.38	0.48	0.42	0.37	0.34
5	0.53	0.42	0.35	0.51	0.41	0.34	0.48	0.40	0.33	0.45	0.38	0.32	0.42	0.36	0.31	0.28
6	0.47	0.36	0.29	0.45	0.36	0.29	0.42	0.34	0.28	0.40	0.33	0.27	0.38	0.31	0.26	0.24
7	0.41	0.32	0.25	0.40	0.31	0.25	0.38	0.30	0.24	0.36	0.28	0.23	0.34	0.27	0.22	0.20
8	0.37	0.28	0.21	0.36	0.27	0.21	0.34	0.26	0.21	0.32	0.25	0.20	0.30	0.24	0.19	0.17
9	0.34	0.25	0.19	0.33	0.24	0.19	0.31	0.23	0.18	0.29	0.22	0.17	0.28	0.22	0.17	0.15
10	0.31	0.22	0.17	0.30	0.22	0.16	0.28	0.21	0.16	0.27	0.20	0.15	0.26	0.19	0.15	0.13



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	4634.06	4275.81	3524.66	2785.06	1987.68	785.83	161.79	161.79	161.79
30.0	4634.06	4183.36	3432.21	2611.71	1791.22	704.93	161.79	161.79	173.34
60.0	4622.50	4264.26	3489.99	2553.93	1571.65	774.27	161.79	161.79	161.79
90.0	4622.50	4402.93	3836.68	2923.73	1814.33	774.27	173.34	161.79	161.79
120.0	4622.50	4414.49	3802.01	2923.73	1872.11	924.50	208.01	161.79	161.79
150.0	4634.06	4391.38	3778.89	2993.07	2010.79	1224.96	288.91	161.79	161.79
180.0	4634.06	4241.14	3593.99	2819.73	1814.33	924.50	184.90	161.79	161.79
210.0	4634.06	4345.15	3744.23	2935.29	1929.89	1144.07	231.13	161.79	161.79
240.0	4622.50	4472.27	3906.01	3050.85	2022.34	1005.39	265.79	161.79	161.79
270.0	4622.50	4449.16	3906.01	2993.07	1849.00	774.27	173.34	161.79	161.79
300.0	4622.50	4298.93	3593.99	2681.05	1698.77	866.72	161.79	161.79	161.79
330.0	4634.06	4148.69	3385.98	2588.60	1768.11	635.59	161.79	161.79	161.79
360.0	4634.06	4275.81	3524.66	2785.06	1987.68	785.83	161.79	161.79	161.79
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	161.79	173.34	173.34	173.34					
30.0	173.34	173.34	173.34	173.34					
60.0	173.34	173.34	173.34	173.34					
90.0	173.34	173.34	173.34	173.34					
120.0	161.79	173.34	173.34	173.34					
150.0	173.34	173.34	173.34	173.34					
180.0	173.34	173.34	173.34	173.34					
210.0	161.79	173.34	173.34	173.34					
240.0	161.79	173.34	173.34	173.34					
270.0	161.79	173.34	173.34	173.34					
300.0	161.79	173.34	173.34	173.34					
330.0	161.79	173.34	173.34	173.34					
360.0	161.79	173.34	173.34	173.34					