
P.Q.L., Inc. 6 LAMPS

LumCAT: 6 LAMPS	Luminaire: 4000K
Report No: /	Voltage(V):
Test No:	Current(A):
LampCAT: LED SMD 18WT8/40K/CL	Power (W): 107.600
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): 13064.36
Lumens(lm)/Power(W): 121.42
Central intensity(cd): 4287.369
Maximum intensity(cd): 4322.038
Angle of maximum intensity: C=30.0 γ =0.0
Beam Angle(50%Imax): [H]Left=52.5 Right=56.5
 [V]Left=51.0 Right=55.8
Field angle(10%Imax): [H]Left=81.2 Right=85.9
 [V]Left=82.2 Right=85.8
Maximum s/h: C0_180=1.16 C90_270=1.26
Up flux rate of LUM(%): 8.11%
Down flux rate of LUM(%): 91.89%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 70.635%

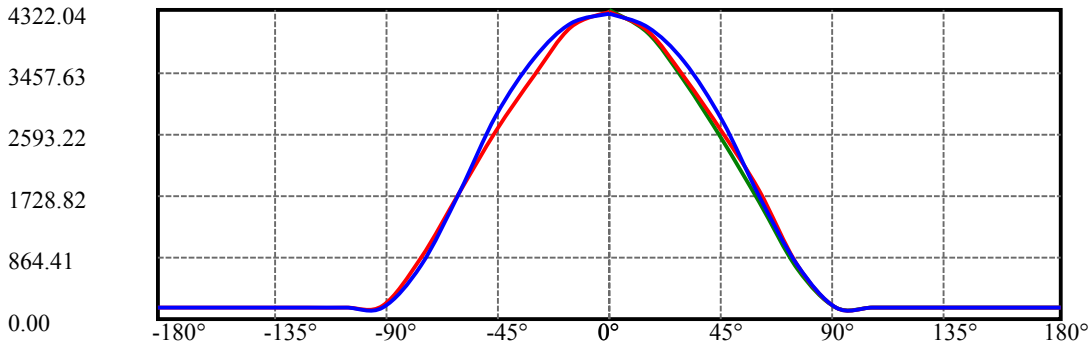
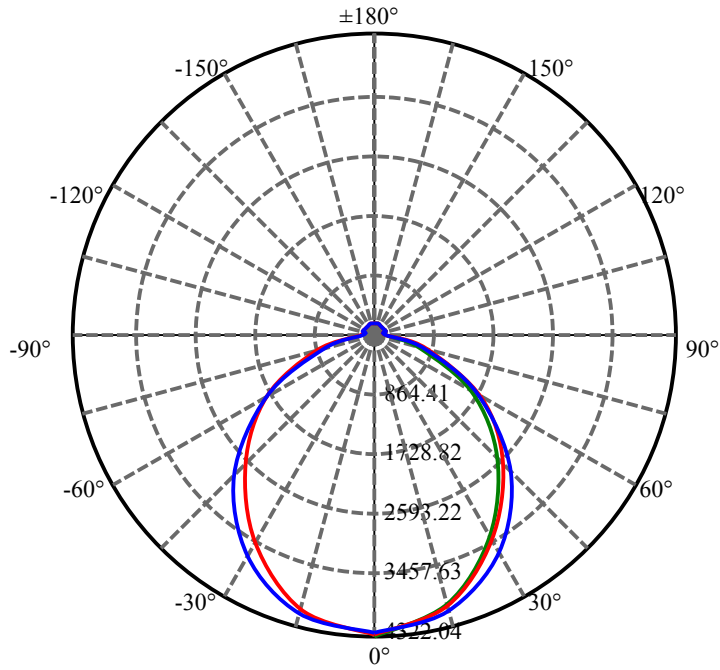
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4287.369	.000	.000	.000%	.000%
15.0	4083.208	896.047	896.047	6.859%	6.859%
30.0	3507.322	2382.261	3278.308	18.235%	25.094%
45.0	2674.309	3086.226	6364.533	23.623%	48.717%
60.0	1726.696	2863.492	9228.025	21.918%	70.635%
75.0	835.902	1941.661	11169.690	14.862%	85.497%
90.0	190.679	834.717	12004.400	6.389%	91.887%
105.0	161.788	286.592	12291.000	2.194%	94.080%
120.0	161.788	245.171	12536.170	1.877%	95.957%
135.0	165.640	213.039	12749.210	1.631%	97.588%
150.0	173.344	169.240	12918.450	1.295%	98.883%
165.0	173.344	108.807	13027.250	.833%	99.716%
180.0	173.344	37.112	13064.360	.284%	100.000%

ZONAL LUMEN SUMMARY

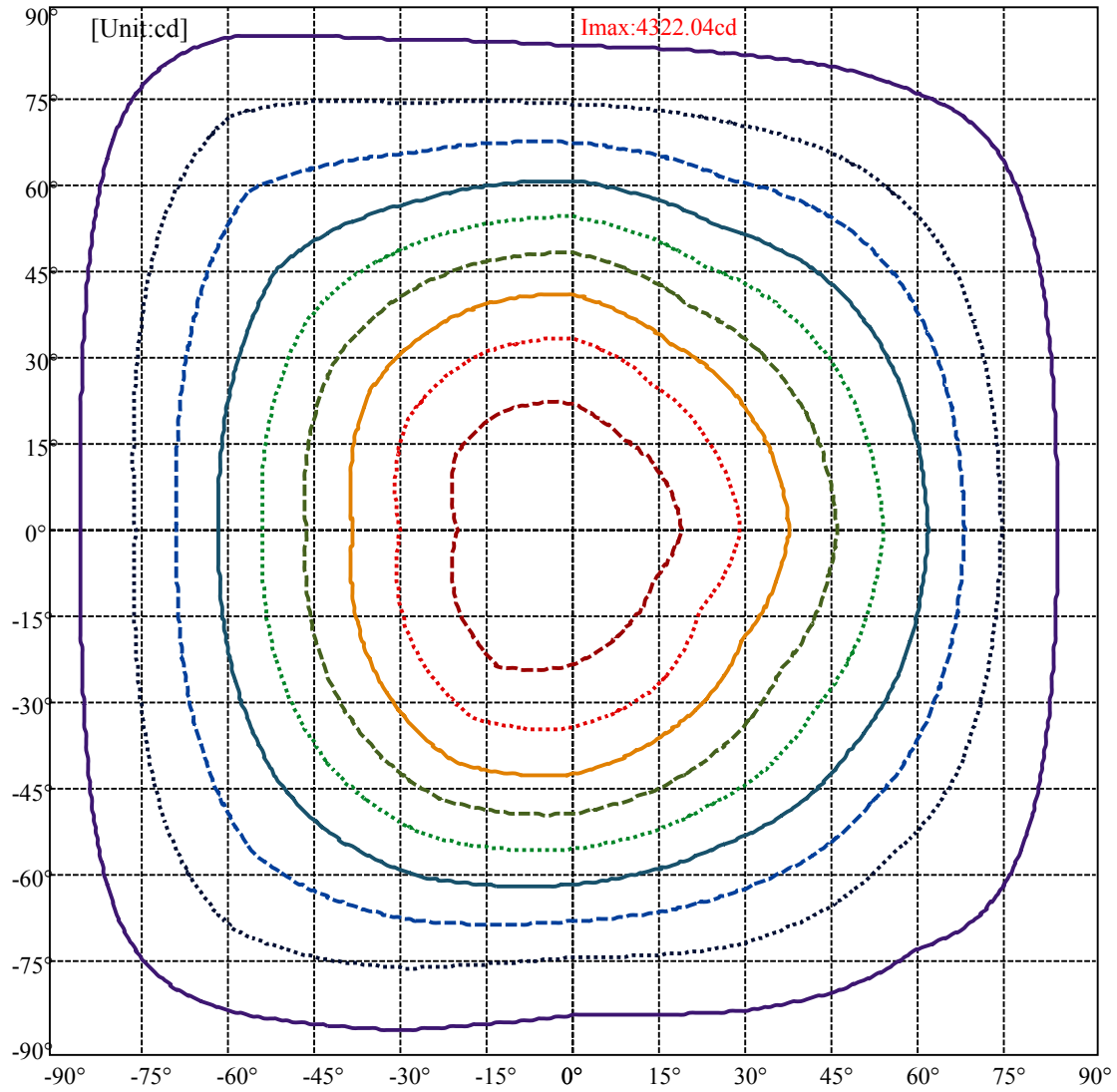
Zone	Lumens	%Fixt
0-30	3278.31	25.09%
0-40	3278.31	25.09%
0-60	9228.03	70.64%
0-90	12004.40	91.89%
90-120	531.76	4.07%
90-130	531.76	4.07%
90-150	914.04	7.00%
90-180	1022.85	7.83%
0-180	13064.36	100.00%

ZONAL LUMEN SUMMARY

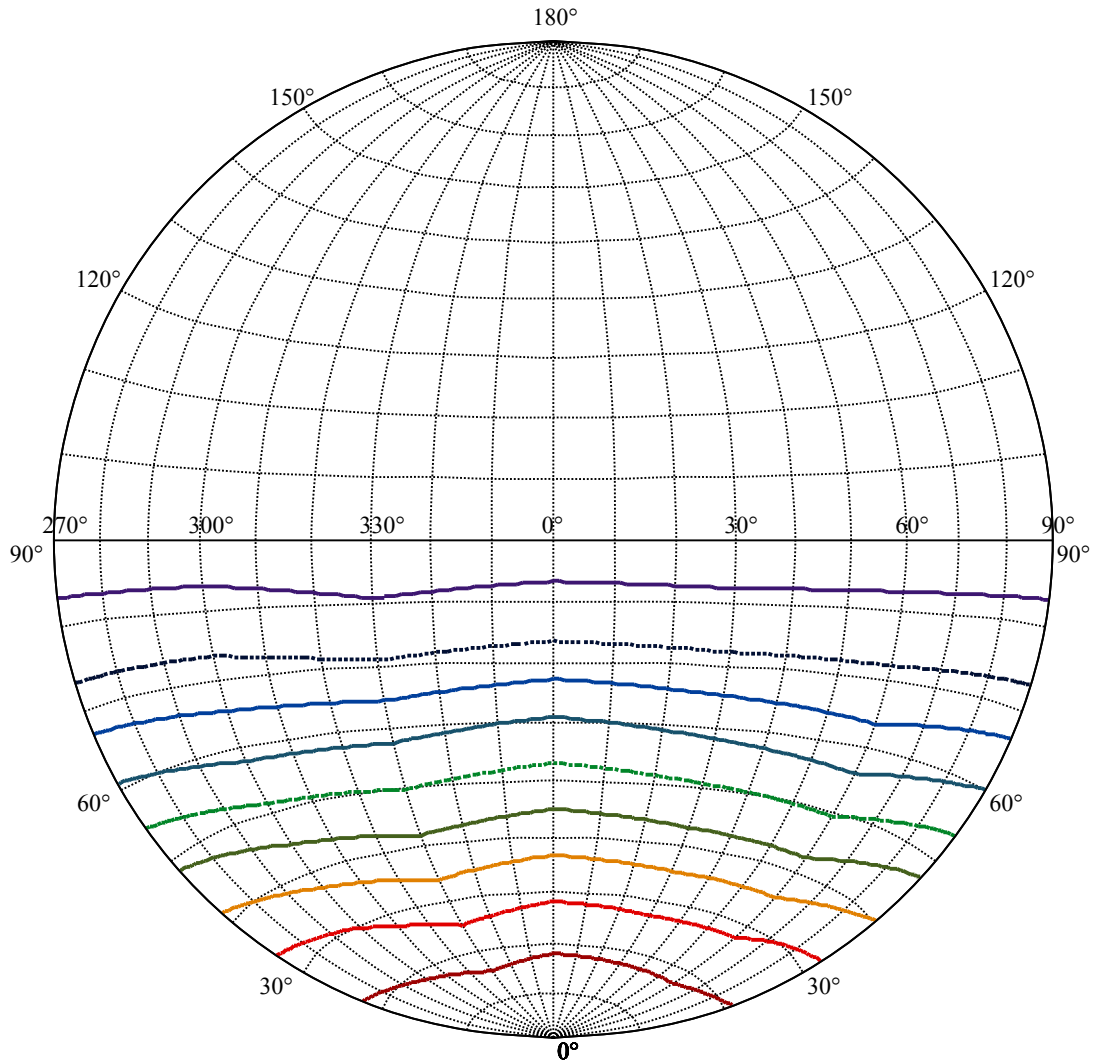
0-10	0.00
10-20	896.05
20-30	2382.26
30-40	0.00
40-50	3086.23
50-60	2863.49
60-70	0.00
70-80	1941.66
80-90	834.72
90-100	0.00
100-110	286.59
110-120	245.17
120-130	0.00
130-140	213.04
140-150	169.24
150-160	0.00
160-170	108.81
170-180	0.00



C30(Max): —
C0/C180: —
C90/C270: —



(10%Imax) 429.925	—————
(20%Imax) 859.849
(30%Imax) 1289.77	- - - - -
(40%Imax) 1719.7	—————
(50%Imax) 2149.62
(60%Imax) 2579.55	- - - - -
(70%Imax) 3009.47	—————
(80%Imax) 3439.4
(90%Imax) 3869.32	- - - - -

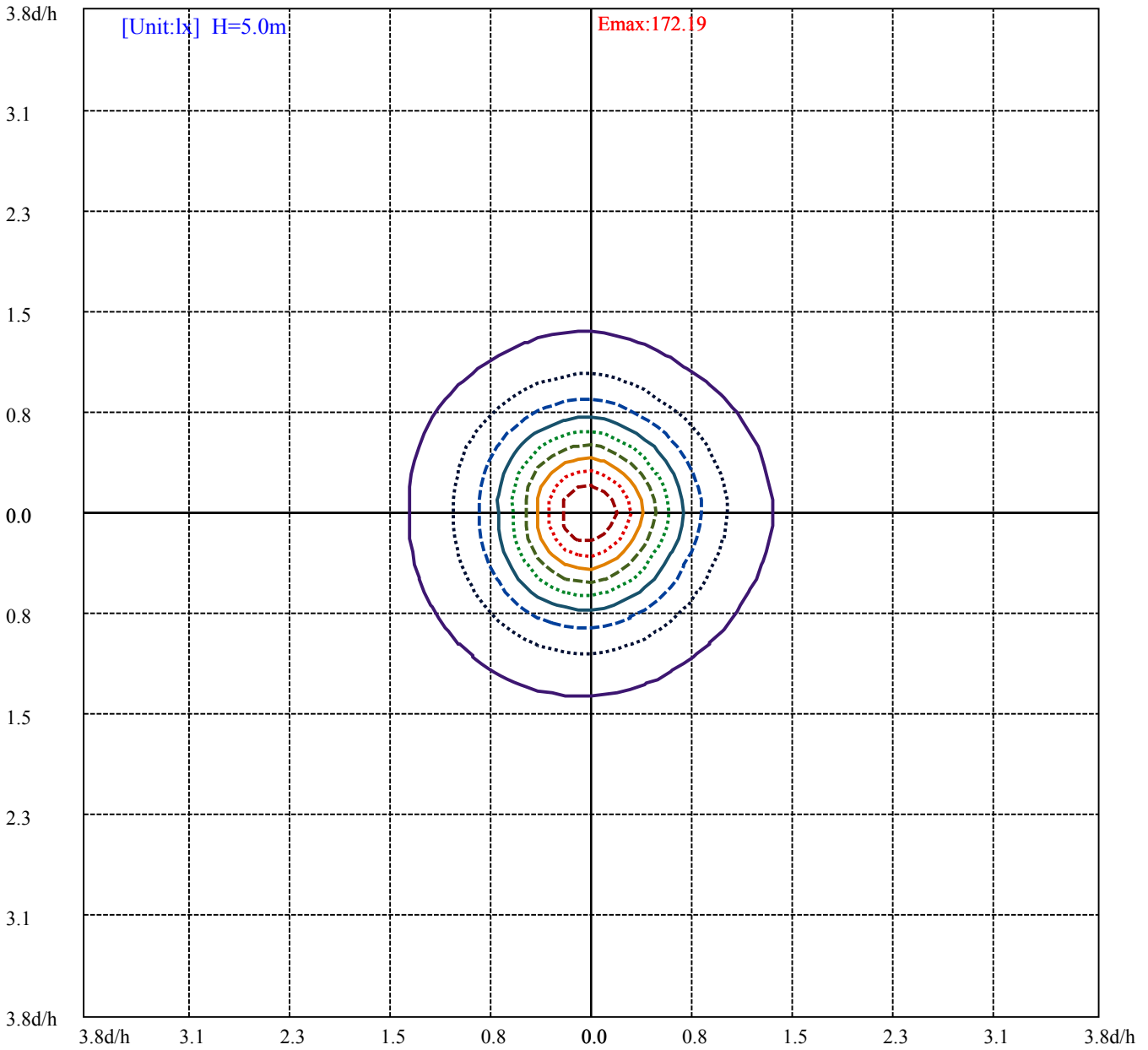


House

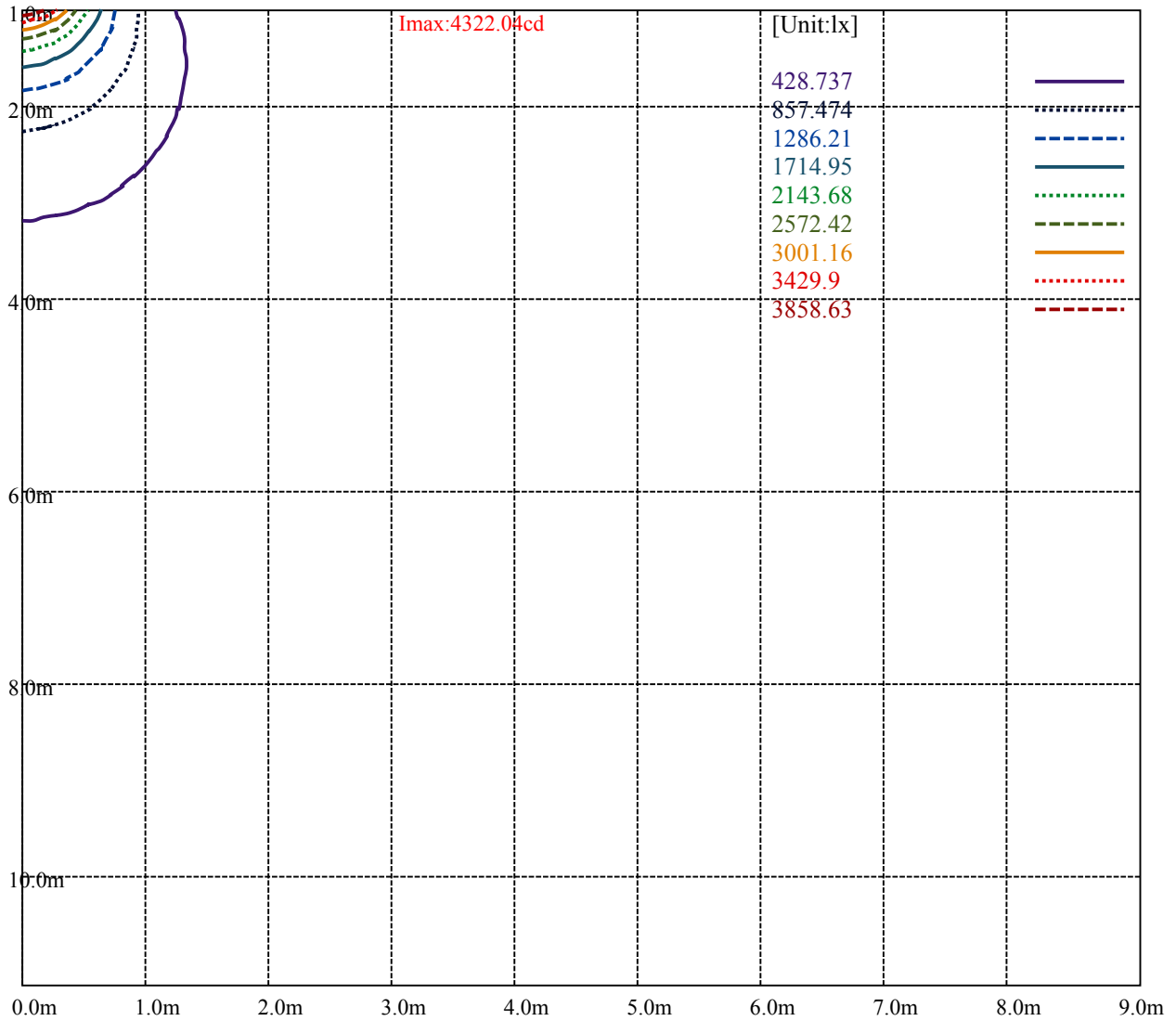
Road

Imax:4322.04cd

(10%Imax) 432.204	—
(20%Imax) 864.408	⋯
(30%Imax) 1296.61	- - -
(40%Imax) 1728.82	—
(50%Imax) 2161.02	⋯
(60%Imax) 2593.22	- - -
(70%Imax) 3025.43	—
(80%Imax) 3457.63	⋯
(90%Imax) 3889.83	- - -



- (10%Emax) 17.2188 —————
- (20%Emax) 34.43756 ······
- (30%Emax) 51.6564 - - - - -
- (40%Emax) 68.8752 ————
- (50%Emax) 86.094 ······
- (60%Emax) 103.3128 - - - - -
- (70%Emax) 120.5316 ————
- (80%Emax) 137.7504 ······
- (90%Emax) 154.9692 - - - - -



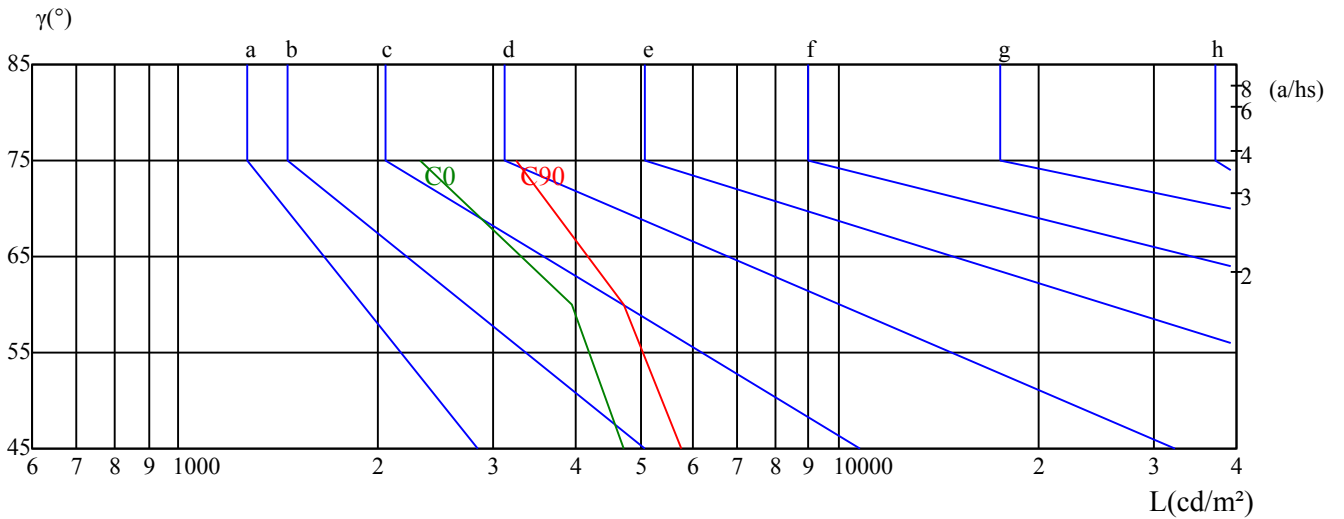
Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	4714	0	0	3929	0	0	2317	0	0
C45	0	0	0	0	0	0	0	0	0
C90	5787	0	0	4718	0	0	3248	0	0

Glare Table

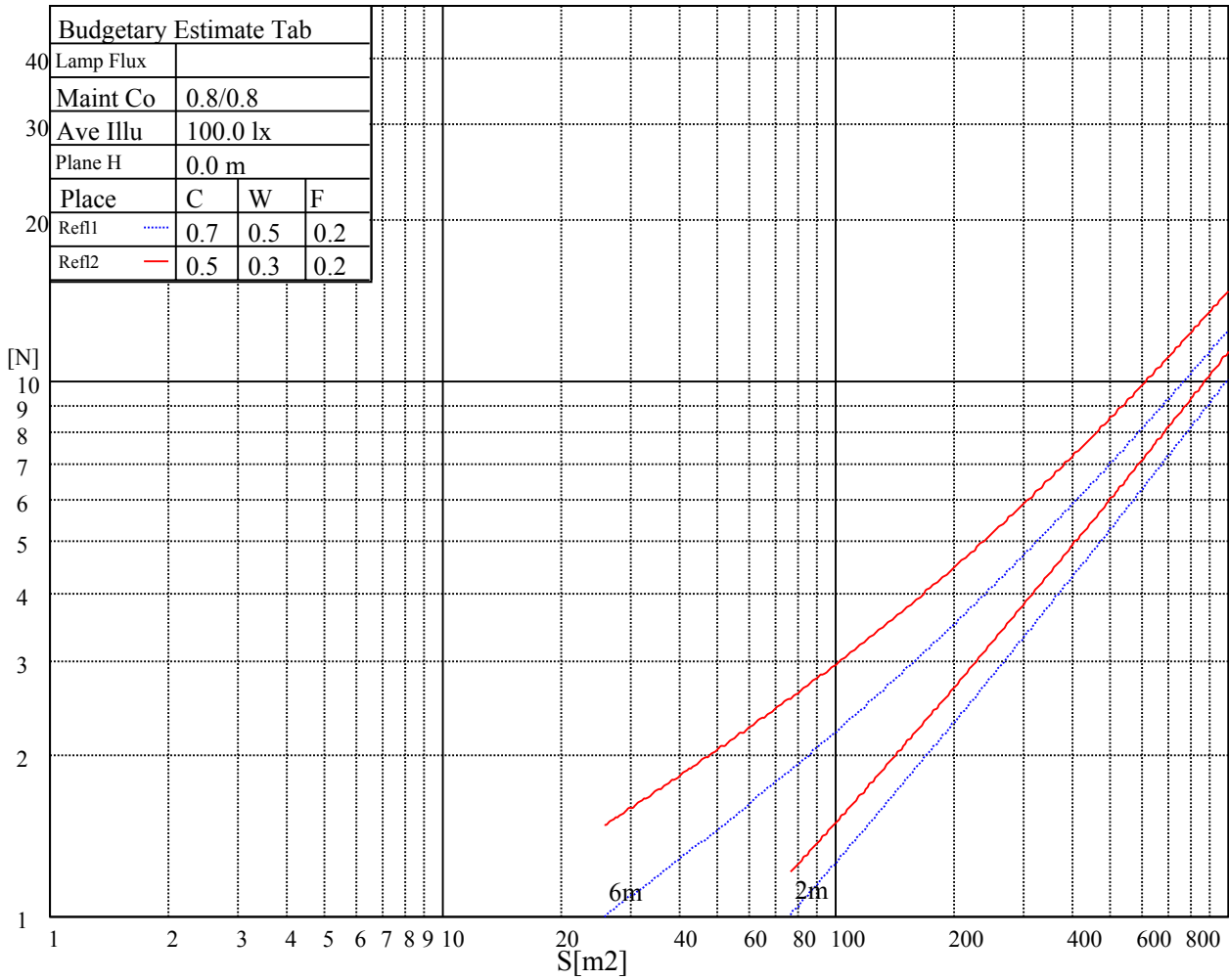
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

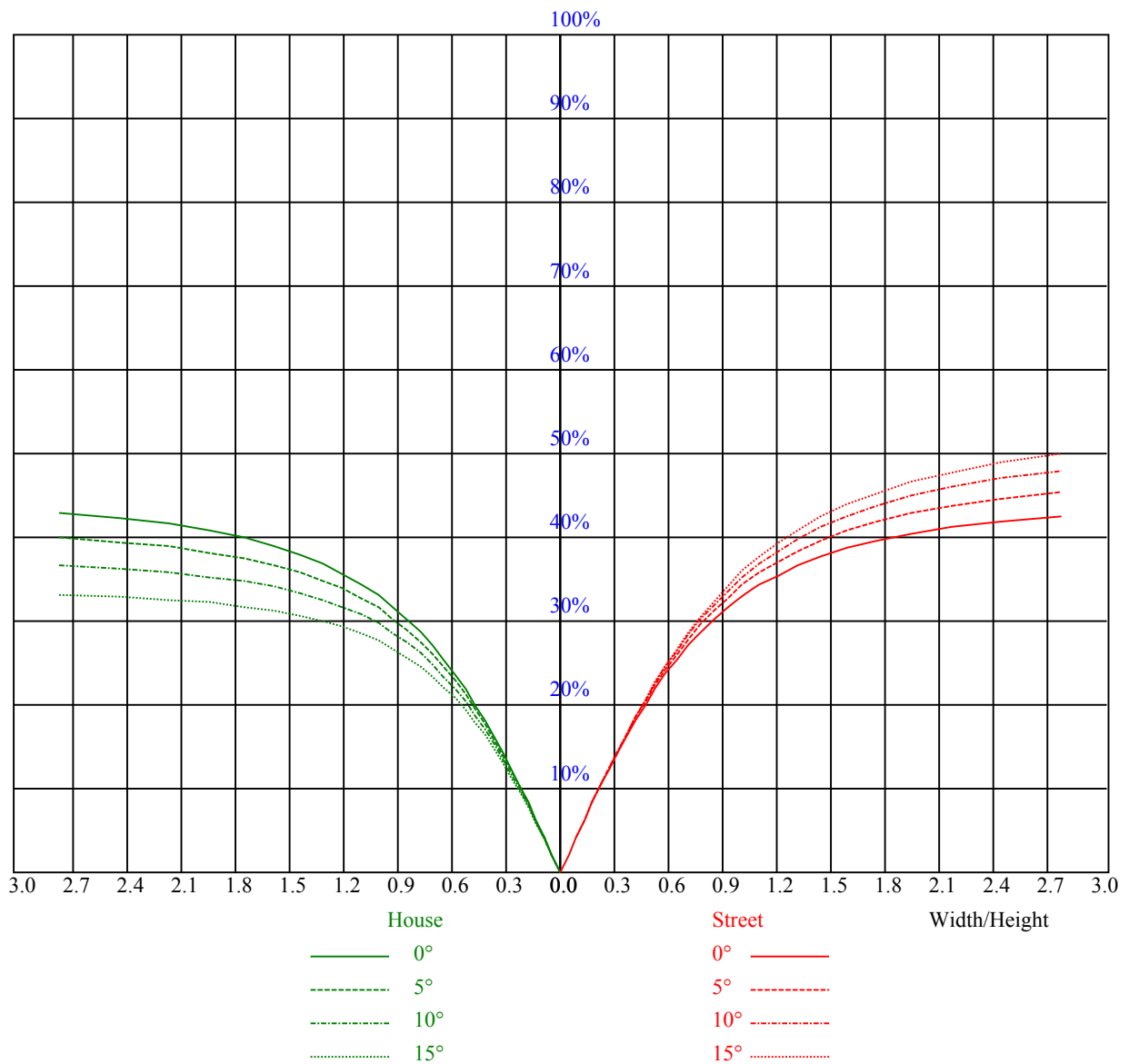


Illuminatin assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	7.5	9.0	8.0	9.4	9.8	7.5	9.0	7.9	9.4	9.8
	3H	9.0	10.3	9.4	10.7	11.2	9.0	10.4	9.5	10.8	11.3
	4H	9.3	10.5	9.8	10.9	11.5	9.4	10.6	9.9	11.1	11.6
	6H	9.8	11.0	10.3	11.5	12.0	10.0	11.2	10.6	11.7	12.2
	8H	10.0	11.2	10.5	11.7	12.2	10.3	11.5	10.8	12.0	12.5
	12H	10.0	10.9	10.5	11.4	12.0	10.3	11.3	10.9	11.8	12.4
4H	2H	7.8	9.0	8.3	9.4	10.0	7.8	8.9	8.3	9.4	10.0
	3H	9.4	10.3	10.0	10.9	11.5	9.4	10.4	10.0	10.9	11.5
	4H	10.1	11.0	10.7	11.6	12.2	10.2	11.2	10.8	11.7	12.3
	6H	10.7	11.7	11.3	12.2	12.8	11.0	11.9	11.6	12.5	13.1
	8H	10.8	11.4	11.4	12.0	12.7	11.1	11.8	11.7	12.4	13.1
	12H	11.0	11.7	11.7	12.3	13.0	11.4	12.1	12.1	12.7	13.4
8H	4H	10.2	10.9	10.8	11.5	12.2	10.4	11.0	11.0	11.6	12.3
	6H	11.0	11.6	11.6	12.2	12.9	11.3	11.9	11.9	12.5	13.2
	8H	11.4	12.0	12.0	12.6	13.3	11.7	12.3	12.3	13.0	13.6
	12H	11.7	12.3	12.3	12.9	13.6	12.1	12.8	12.8	13.4	14.1
12H	4H	10.3	10.9	10.9	11.5	12.2	10.4	11.0	11.0	11.7	12.3
	6H	11.1	11.7	11.7	12.4	13.0	11.4	12.0	12.0	12.6	13.3
	8H	11.5	12.2	12.1	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		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.8/-0.7					0.7/-0.7				
Standard tables:		BK3					BK3				
Uncorrected UGR		-6.8					-6.6				
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	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	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	0.67	0.62	0.57	0.63	0.58	0.54	0.51
3	0.69	0.59	0.51	0.67	0.58	0.50	0.62	0.55	0.48	0.58	0.52	0.46	0.55	0.49	0.45	0.42
4	0.60	0.50	0.42	0.58	0.49	0.41	0.54	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	0.39	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	0.32	0.27	0.37	0.31	0.26	0.24
7	0.41	0.32	0.25	0.40	0.31	0.24	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	0.20	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	0.18	0.31	0.23	0.18	0.29	0.22	0.17	0.28	0.21	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	0.25	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	4287.37	4021.58	3385.98	2600.16	1791.22	762.71	161.79	161.79	161.79
30.0	4322.04	3998.46	3328.20	2496.15	1629.43	693.38	161.79	161.79	161.79
60.0	4287.37	3986.91	3362.87	2438.37	1479.20	716.49	161.79	161.79	161.79
90.0	4275.81	4090.91	3593.99	2761.94	1721.88	739.60	173.34	161.79	161.79
120.0	4275.81	4148.69	3651.78	2796.61	1744.99	878.28	208.01	161.79	161.79
150.0	4275.81	4183.36	3640.22	2808.17	1872.11	1190.29	265.79	161.79	161.79
180.0	4287.37	4079.36	3420.65	2623.27	1768.11	866.72	184.90	161.79	161.79
210.0	4322.04	4206.48	3605.55	2773.50	1837.44	1086.29	208.01	161.79	161.79
240.0	4287.37	4206.48	3767.34	2946.84	1906.78	959.17	265.79	161.79	161.79
270.0	4275.81	4125.58	3651.78	2842.84	1779.66	751.16	173.34	161.79	161.79
300.0	4275.81	4021.58	3443.76	2577.04	1594.76	785.83	161.79	161.79	161.79
330.0	4275.81	3929.13	3235.75	2426.81	1594.76	600.93	161.79	161.79	161.79
360.0	4287.37	4021.58	3385.98	2600.16	1791.22	762.71	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	161.79	173.34	173.34	173.34					
90.0	173.34	173.34	173.34	173.34					
120.0	173.34	173.34	173.34	173.34					
150.0	161.79	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					