
P.Q.L., Inc. 6 LAMPS

LumCAT: 6 LAMPS	Luminaire: 5000
Report No: /	Voltage(V):
Test No:	Current(A):
LampCAT: LED 45.8" 30WT5/50K/FR	Power (W): 185.900
Lamp flux(lm): 3505.1	PF:
Number of Lamps: 6	Ballast type:
Length(mm): 1200	Width(mm): 500
Phm Type: C	Height(mm): 150

Photometric Results

Lumens(lm): 21030.76
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 113.13
Central intensity(cd): 9034.030
Maximum intensity(cd): 9034.030
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [H]Left=54.4 Right=52.4
[V]Left=35.7 Right=39.6
Field angle(10%Imax): [H]Left=83.1 Right=81.2
[V]Left=75.4 Right=81.5
Maximum s/h: C0_180=0.88 C90_270=1.24
Up flux rate of lamp(%): 5.72%
Down flux rate of lamp(%): 94.28%
Up flux rate of LUM(%): 5.72%
Down flux rate of LUM(%): 94.28%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 74.188%

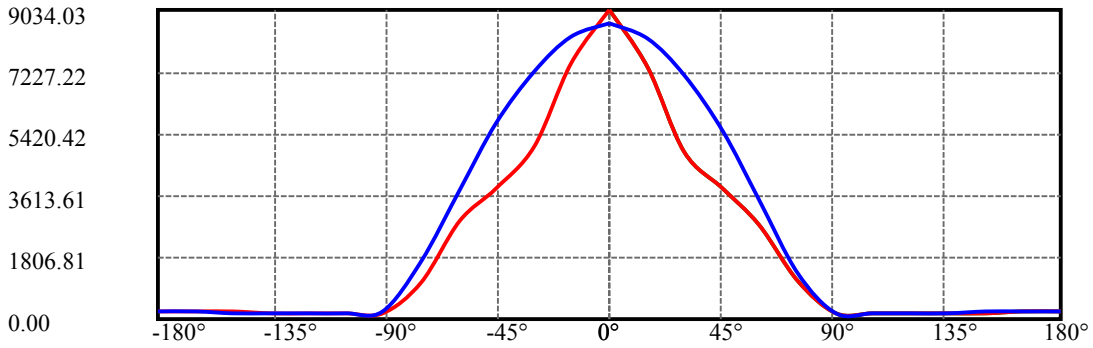
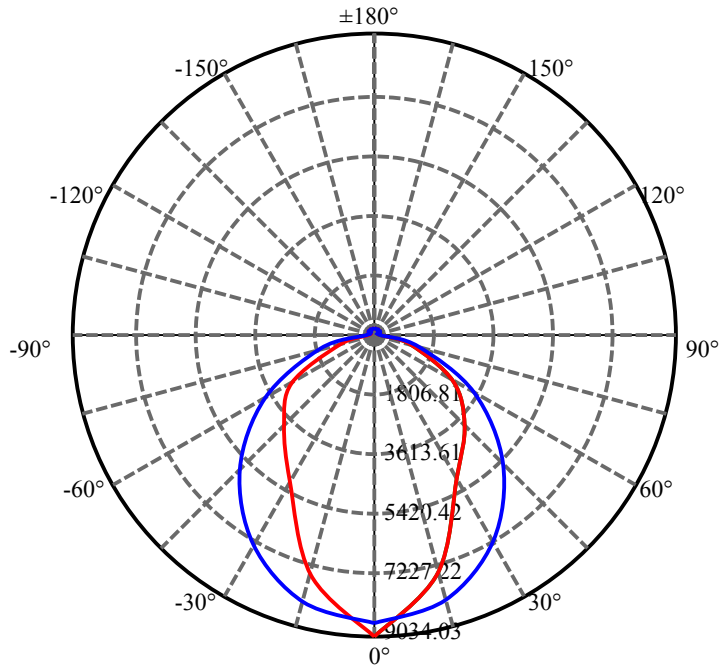
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8784.031	.000	.000	.000%	.000%
15.0	7803.925	1775.694	1775.694	8.443%	8.443%
30.0	5873.066	4292.475	6068.169	20.410%	28.854%
45.0	4183.684	5020.908	11089.080	23.874%	52.728%
60.0	2752.822	4513.204	15602.280	21.460%	74.188%
75.0	1250.939	3033.619	18635.900	14.425%	88.613%
90.0	214.014	1191.159	19827.060	5.664%	94.276%
105.0	181.817	321.852	20148.910	1.530%	95.807%
120.0	182.764	276.240	20425.150	1.314%	97.120%
135.0	189.393	242.142	20667.290	1.151%	98.272%
150.0	197.916	193.367	20860.660	.919%	99.191%
165.0	204.544	126.311	20986.970	.601%	99.792%
180.0	204.544	43.792	21030.760	.208%	100.000%

ZONAL LUMEN SUMMARY

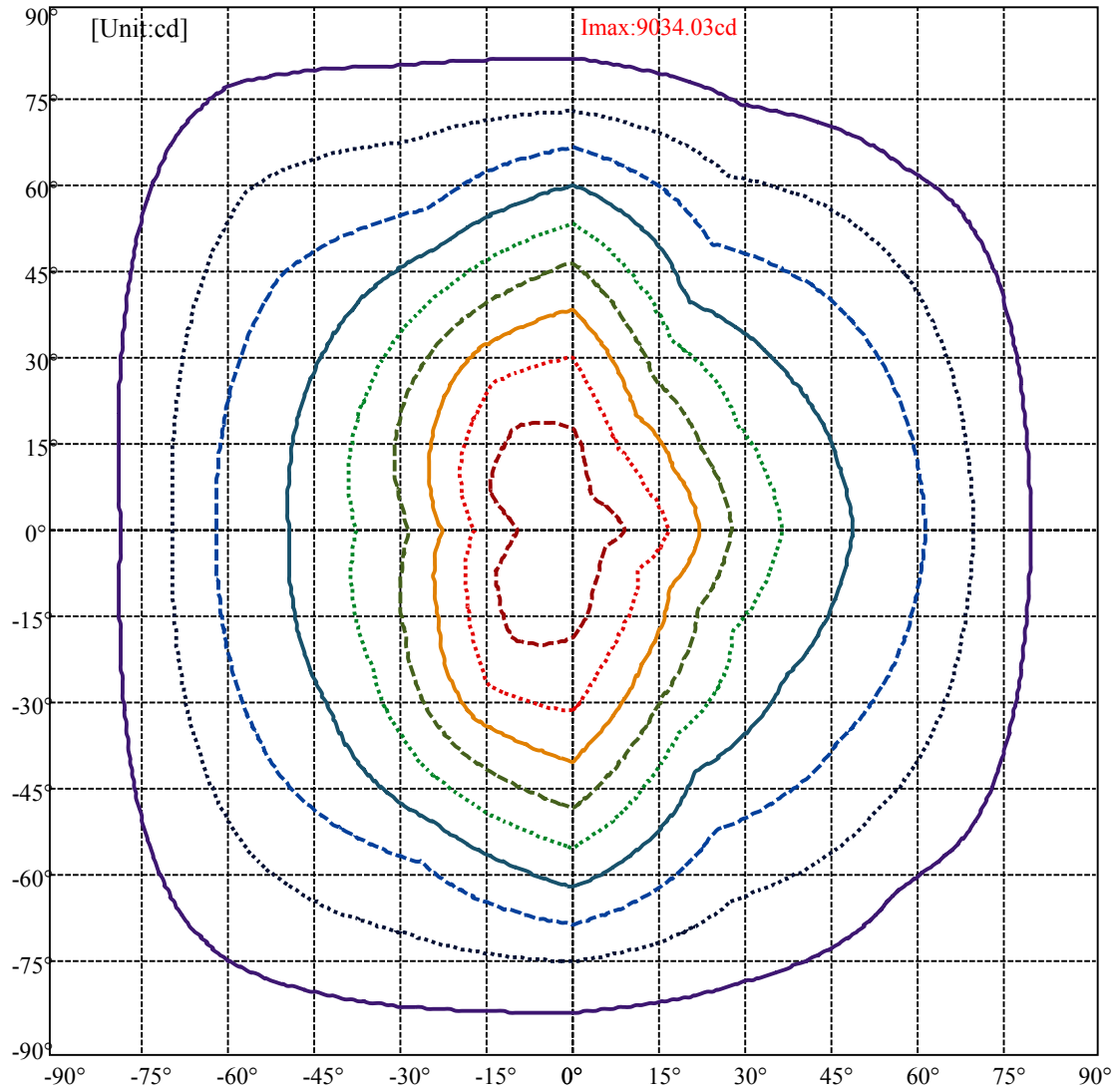
Zone	Lumens	%Lamp	%Fixt
0-30	6068.17	28.85%	28.85%
0-40	6068.17	28.85%	28.85%
0-60	15602.28	74.19%	74.19%
0-90	19827.06	94.28%	94.28%
90-120	598.09	2.84%	2.84%
90-130	598.09	2.84%	2.84%
90-150	1033.60	4.91%	4.91%
90-180	1159.91	5.52%	5.52%
0-180	21030.76	100.00%	100.00%

ZONAL LUMEN SUMMARY

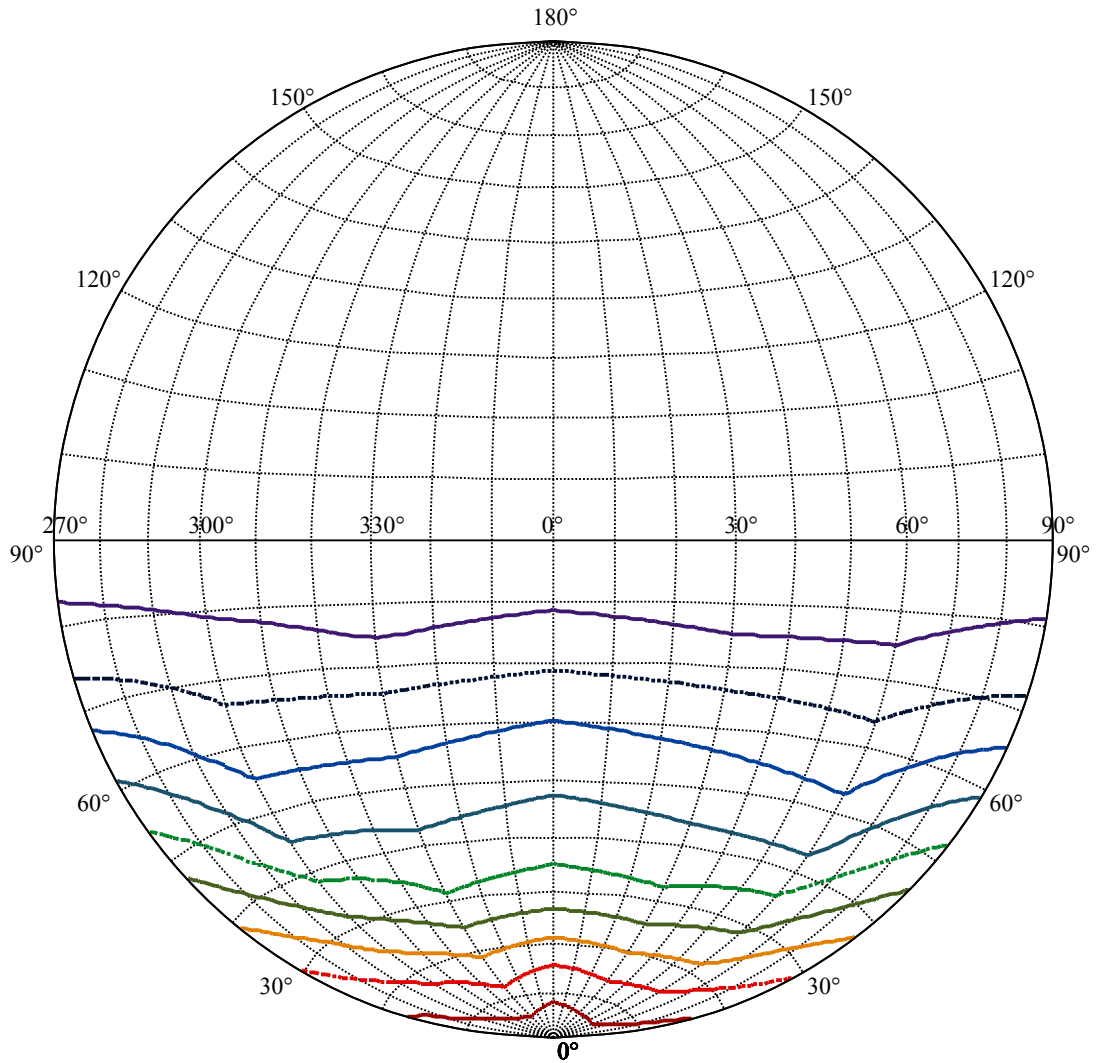
0-10	0.00
10-20	1775.69
20-30	4292.48
30-40	0.00
40-50	5020.91
50-60	4513.20
60-70	0.00
70-80	3033.62
80-90	1191.16
90-100	0.00
100-110	321.85
110-120	276.24
120-130	0.00
130-140	242.14
140-150	193.37
150-160	0.00
160-170	126.31
170-180	0.00



C0(Max): —
C0/C180: —
C90/C270: —



- (10%Imax) 892.797
- (20%Imax) 1785.59
- (30%Imax) 2678.39
- (40%Imax) 3571.19
- (50%Imax) 4463.99
- (60%Imax) 5356.78
- (70%Imax) 6249.58
- (80%Imax) 7142.38
- (90%Imax) 8035.17

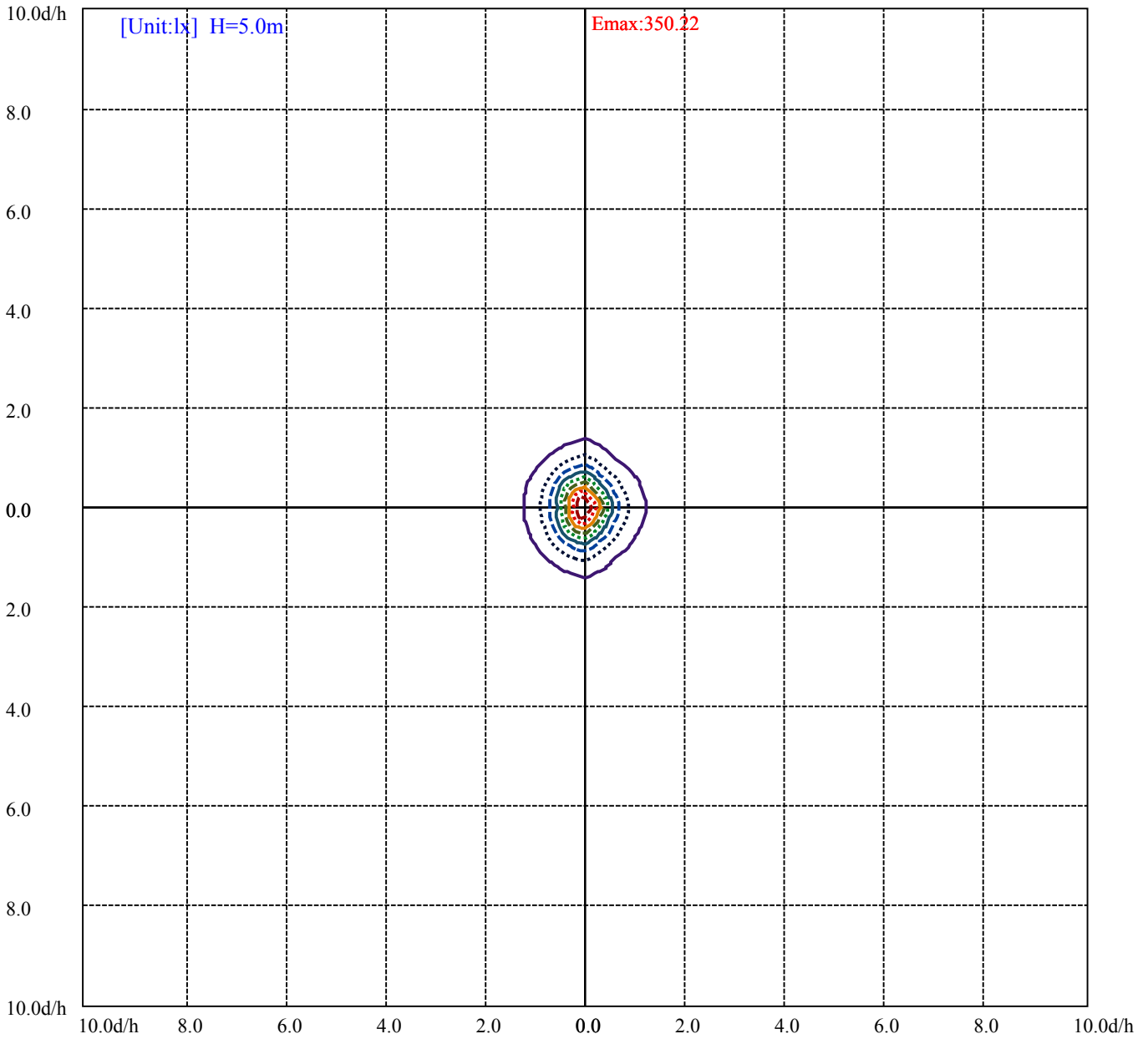


House

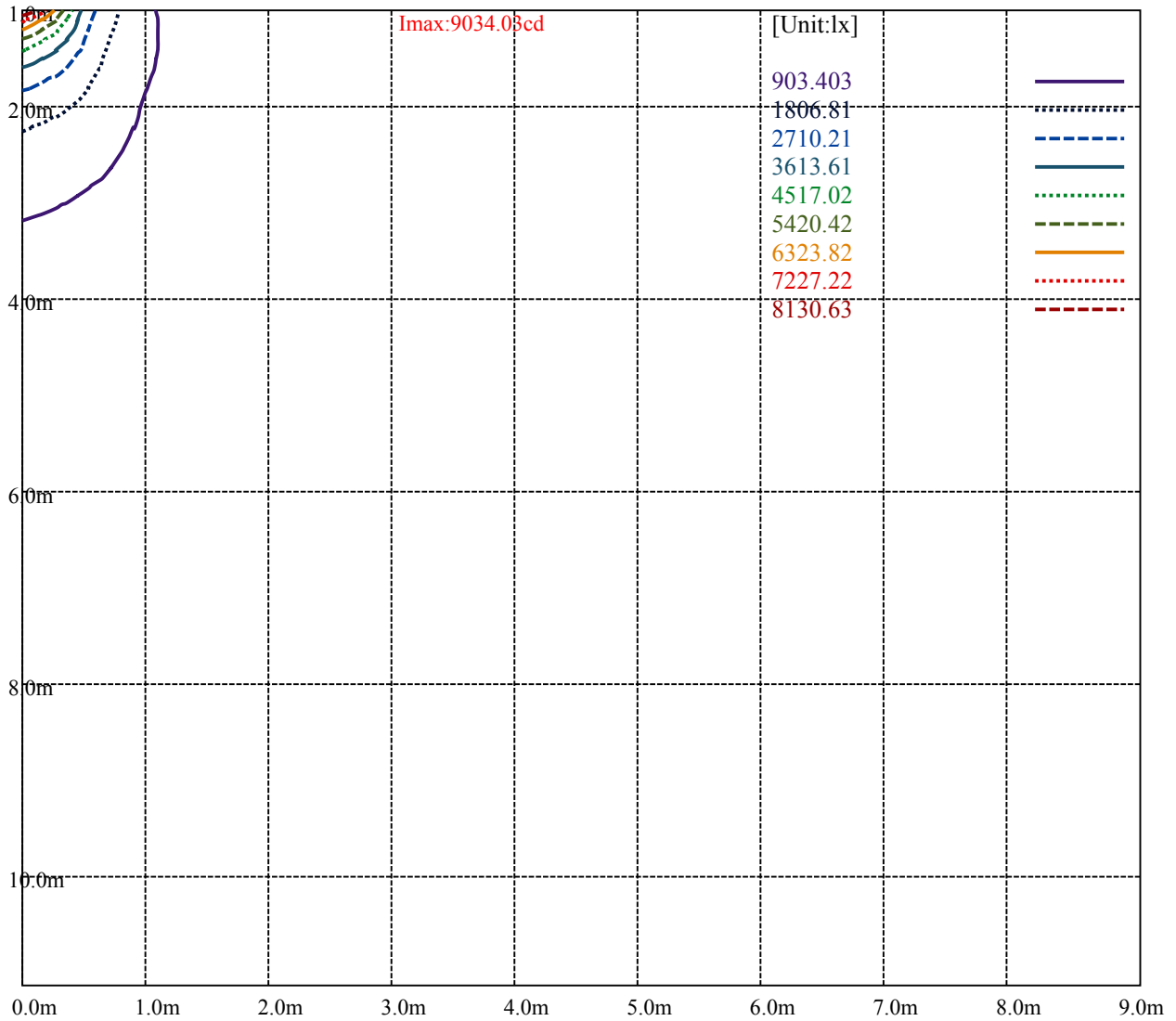
Road

I_{max}:9034.03cd

(10%I _{max}) 903.403	—
(20%I _{max}) 1806.81	⋯
(30%I _{max}) 2710.21	- - -
(40%I _{max}) 3613.61	—
(50%I _{max}) 4517.02	⋯
(60%I _{max}) 5420.42	- - -
(70%I _{max}) 6323.82	—
(80%I _{max}) 7227.22	⋯
(90%I _{max}) 8130.63	- - -



- (10%Emax) 35.02228 ————
- (20%Emax) 70.0444 ······
- (30%Emax) 105.0668 - - - -
- (40%Emax) 140.0892 ————
- (50%Emax) 175.1116 ······
- (60%Emax) 210.1336 - - - -
- (70%Emax) 245.156 ————
- (80%Emax) 280.1784 ······
- (90%Emax) 315.2008 - - - -



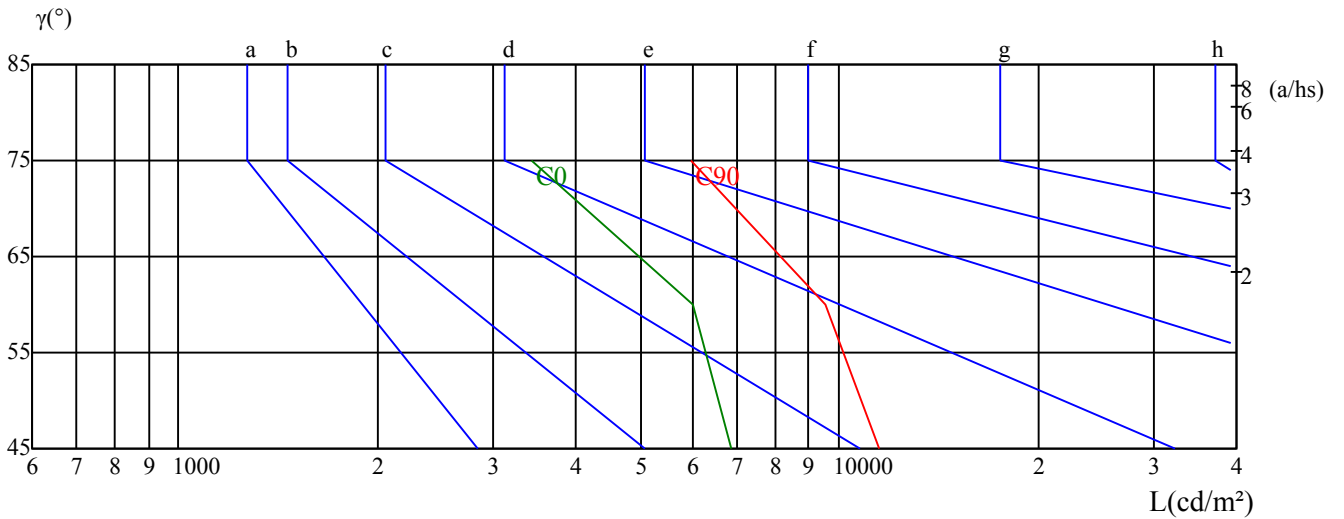
Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	6881	0	0	6007	0	0	3418	0	0
C45	0	0	0	0	0	0	0	0	0
C90	11476	0	0	9528	0	0	5988	0	0

Glare Table

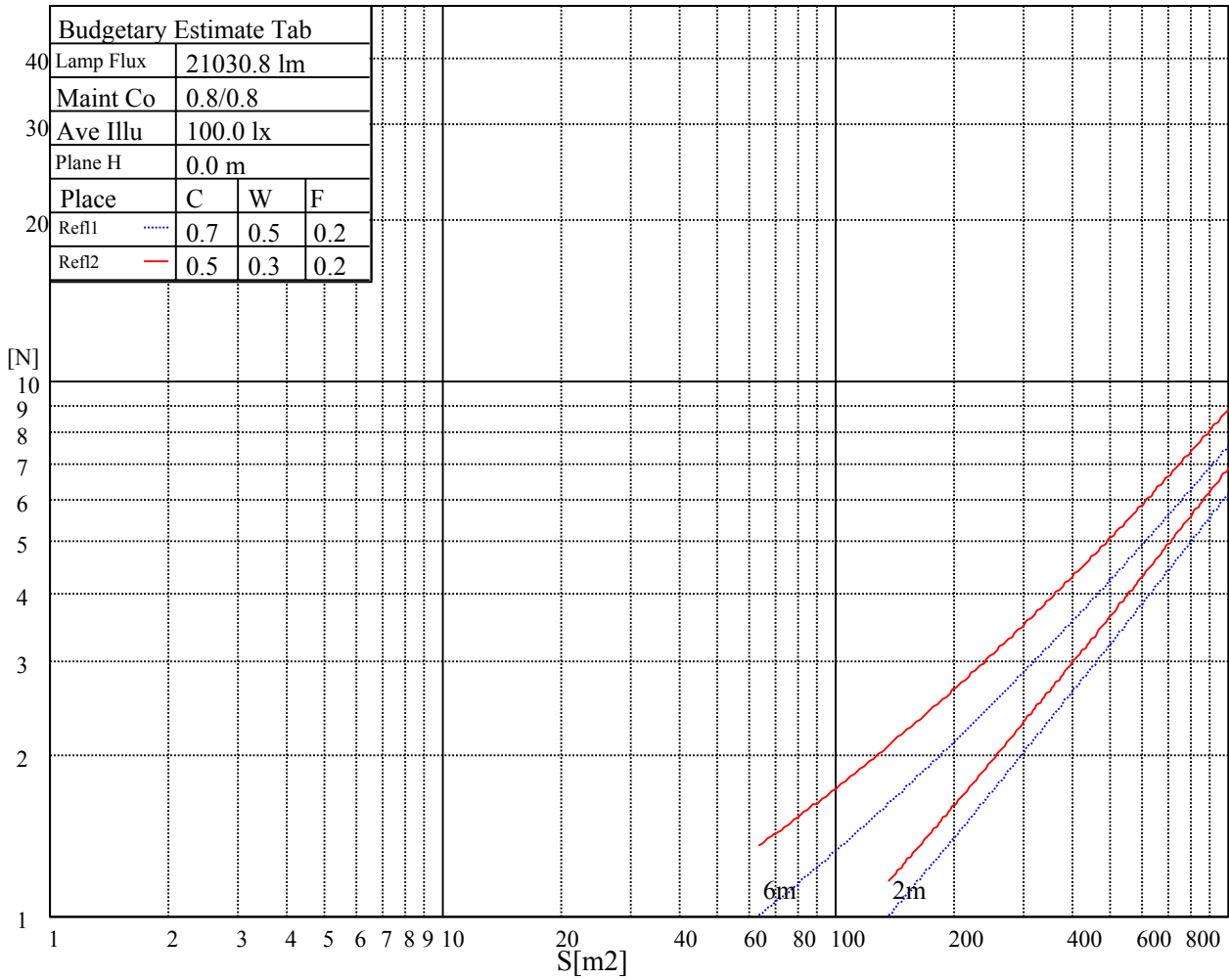
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

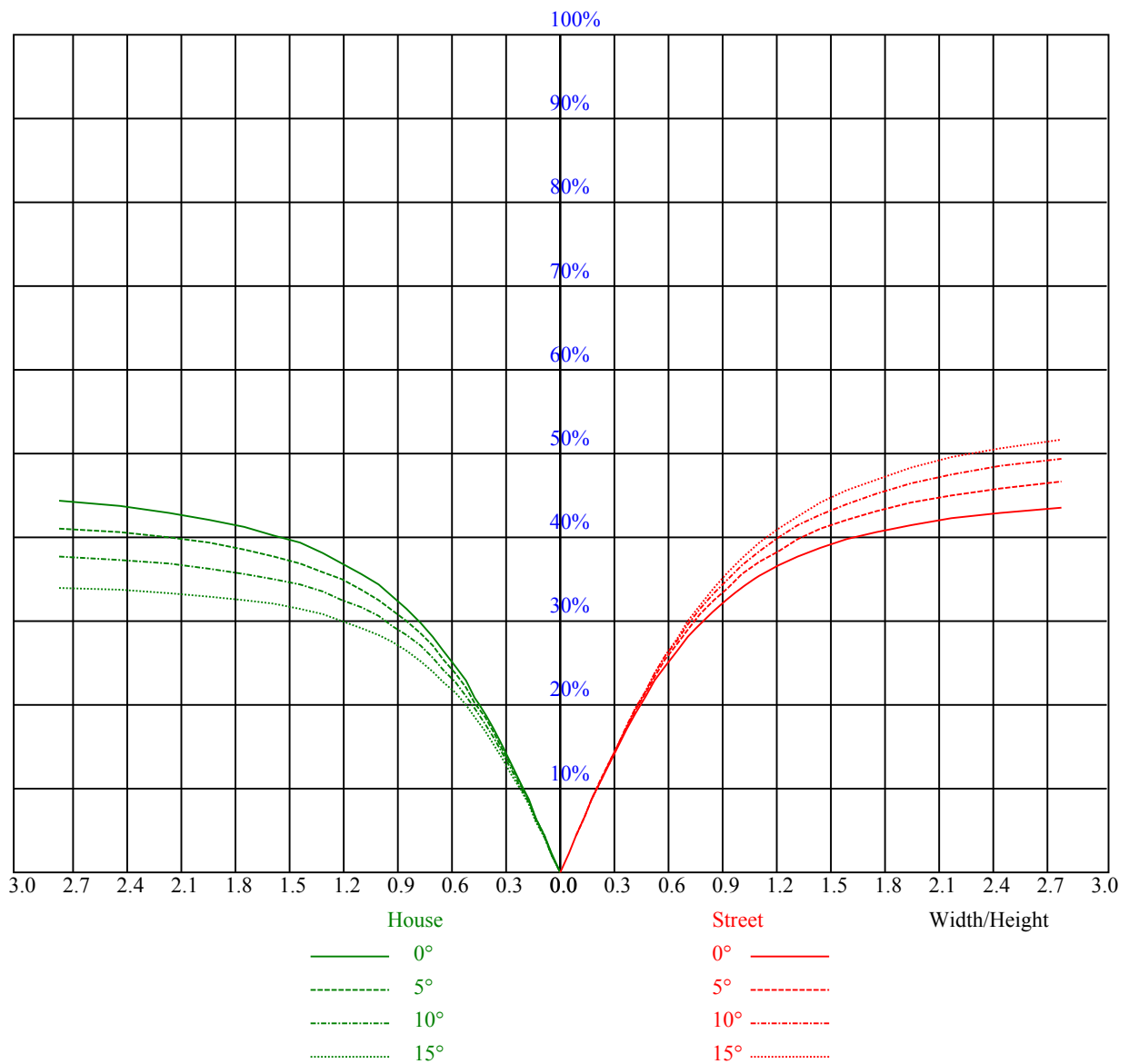


Illuminatin assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	7.0	8.5	7.4	8.9	9.2	7.9	9.4	8.3	9.8	10.2
	3H	8.5	9.8	8.9	10.2	10.6	9.6	10.9	10.0	11.3	11.7
	4H	8.8	10.0	9.3	10.4	10.9	10.0	11.2	10.5	11.6	12.1
	6H	9.3	10.4	9.7	10.9	11.4	10.6	11.8	11.1	12.2	12.7
	8H	9.5	10.6	9.9	11.1	11.6	10.9	12.0	11.3	12.5	12.9
	12H	9.4	10.3	9.9	10.8	11.4	10.8	11.8	11.4	12.3	12.8
4H	2H	7.3	8.4	7.7	8.9	9.4	8.0	9.2	8.5	9.6	10.1
	3H	8.9	9.8	9.4	10.3	10.8	9.7	10.7	10.3	11.2	11.7
	4H	9.5	10.5	10.0	11.0	11.5	10.5	11.4	11.0	11.9	12.5
	6H	10.1	11.1	10.6	11.6	12.1	11.2	12.2	11.8	12.7	13.2
	8H	10.2	10.8	10.8	11.4	12.0	11.4	12.0	12.0	12.6	13.2
	12H	10.4	11.0	11.0	11.6	12.2	11.7	12.3	12.2	12.9	13.5
8H	4H	9.6	10.2	10.2	10.8	11.4	10.5	11.1	11.1	11.7	12.4
	6H	10.3	10.9	10.9	11.5	12.2	11.3	12.0	11.9	12.6	13.2
	8H	10.7	11.3	11.2	11.9	12.5	11.8	12.4	12.4	13.0	13.6
	12H	11.0	11.6	11.5	12.2	12.8	12.2	12.8	12.7	13.4	14.0
12H	4H	9.6	10.3	10.2	10.9	11.5	10.6	11.2	11.1	11.8	12.4
	6H	10.4	11.0	11.0	11.6	12.2	11.4	12.0	12.0	12.6	13.3
	8H	10.8	11.4	11.4	12.0	12.6	11.9	12.5	12.4	13.1	13.7
Variation with the observer position at spacings:											
S = 1.0H	0.3/-0.5					0.2/-0.4					
S = 1.5H	0.7/-0.6					0.7/-0.7					
S = 2.0H	0.9/-0.8					1.3/-1.0					
Standard tables:	BK3					BK3					
Uncorrected UGR	-7.5					-6.4					
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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	0.97	0.97	0.97	0.94
1	0.94	0.88	0.82	0.91	0.85	0.80	0.86	0.81	0.76	0.81	0.77	0.73	0.76	0.73	0.70	0.67
2	0.81	0.73	0.65	0.79	0.71	0.64	0.74	0.67	0.62	0.70	0.64	0.59	0.66	0.61	0.57	0.54
3	0.71	0.61	0.53	0.69	0.60	0.52	0.65	0.57	0.51	0.61	0.54	0.49	0.57	0.52	0.47	0.45
4	0.62	0.52	0.44	0.60	0.50	0.43	0.56	0.48	0.42	0.53	0.46	0.41	0.50	0.44	0.40	0.37
5	0.54	0.44	0.37	0.53	0.43	0.36	0.50	0.41	0.35	0.47	0.40	0.34	0.45	0.38	0.33	0.31
6	0.48	0.38	0.31	0.47	0.37	0.31	0.44	0.36	0.30	0.42	0.35	0.29	0.40	0.33	0.28	0.26
7	0.43	0.33	0.26	0.42	0.33	0.26	0.40	0.31	0.26	0.38	0.30	0.25	0.36	0.29	0.24	0.22
8	0.39	0.29	0.23	0.38	0.29	0.23	0.36	0.28	0.22	0.34	0.27	0.22	0.32	0.26	0.21	0.19
9	0.35	0.26	0.20	0.34	0.26	0.20	0.33	0.25	0.20	0.31	0.24	0.19	0.30	0.23	0.19	0.17
10	0.32	0.24	0.18	0.31	0.23	0.18	0.30	0.22	0.17	0.29	0.22	0.17	0.27	0.21	0.17	0.15



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	9034.03	7363.59	4909.06	3795.43	2738.62	1124.99	193.18	181.82	181.82
30.0	8909.03	7068.13	4715.88	3534.07	2454.53	909.09	193.18	181.82	181.82
60.0	8602.22	7261.32	5238.60	3352.25	2124.99	909.09	193.18	181.82	193.18
90.0	8613.58	8204.49	7113.59	5477.24	3477.25	1363.63	193.18	181.82	181.82
120.0	8727.21	8602.22	6965.86	4602.24	2534.07	1363.63	215.91	181.82	181.82
150.0	8829.49	8238.58	5999.96	4022.70	2874.98	1613.63	272.73	181.82	181.82
180.0	9034.03	7443.13	5068.15	3818.16	2840.89	1045.45	181.82	181.82	181.82
210.0	8909.03	8068.13	5795.42	3954.52	2829.53	1443.17	250.00	181.82	181.82
240.0	8602.22	8693.12	7147.68	4874.97	2738.62	1545.44	306.82	181.82	181.82
270.0	8613.58	8272.67	7249.95	5704.51	3761.34	1659.08	204.54	181.82	181.82
300.0	8727.21	7534.04	5647.69	3624.98	2284.08	1170.45	181.82	181.82	181.82
330.0	8806.76	6897.68	4624.97	3443.16	2374.98	863.63	181.82	181.82	181.82
360.0	9034.03	7363.59	4909.06	3795.43	2738.62	1124.99	193.18	181.82	181.82
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	181.82	193.18	204.54	204.54					
30.0	193.18	204.54	204.54	204.54					
60.0	193.18	204.54	204.54	204.54					
90.0	193.18	204.54	204.54	204.54					
120.0	193.18	204.54	204.54	204.54					
150.0	193.18	204.54	204.54	204.54					
180.0	193.18	204.54	204.54	204.54					
210.0	181.82	193.18	204.54	204.54					
240.0	181.82	193.18	204.54	204.54					
270.0	181.82	181.82	204.54	204.54					
300.0	193.18	193.18	204.54	204.54					
330.0	193.18	193.18	204.54	204.54					
360.0	181.82	193.18	204.54	204.54					