
P.Q.L., Inc. 6 LAMPS

LumCAT: 6 LAMPS	Luminaire: 4000K
Report No: /	Voltage(V): 276.600
Test No:	Current(A): 0.358
LampCAT: LEDSM4'15WT8/40K/FR/V4	Power (W): 91.700
Lamp flux(lm)	PF: 0.925
Number of Lamps: 6	Ballast type:
Length(mm): 1200	Width(mm): 500
Phm Type: C	Height(mm): 150

Photometric Results

Lumens(lm): 10954.95
Lumens(lm)/Power(W): 119.47
Central intensity(cd): 3733.824
Maximum intensity(cd): 3748.847
Angle of maximum intensity: C=30.0 γ =0.0
Beam Angle(50%Imax): [H]Left=50.9 Right=57.8
[V]Left=48.1 Right=65.0
Field angle(10%Imax): [H]Left=79.1 Right=86.0
[V]Left=79.7 Right=90.1
Maximum s/h: C0_180=1.16 C90_270=1.25
Up flux rate of LUM(%): 1.94%
Down flux rate of LUM(%): 98.06%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 73.985%

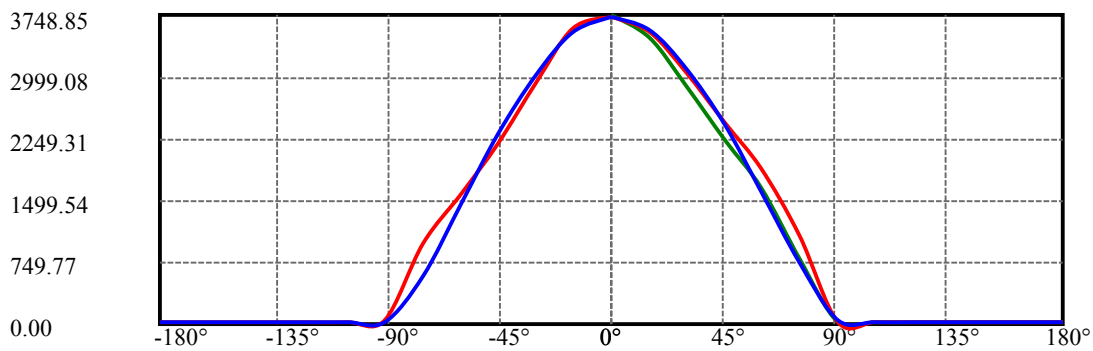
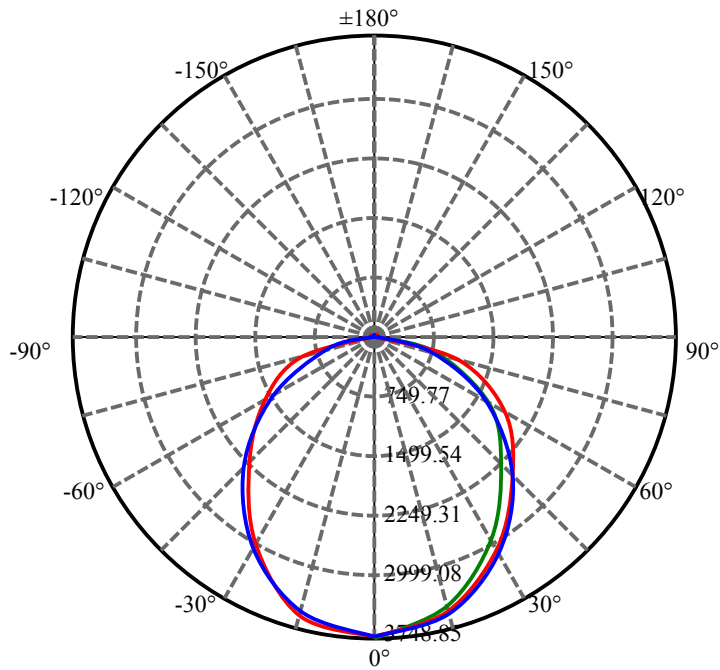
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3724.387	.000	.000	.000%	.000%
15.0	3554.896	779.227	779.227	7.113%	7.113%
30.0	3051.717	2073.461	2852.688	18.927%	26.040%
45.0	2331.897	2687.810	5540.498	24.535%	50.575%
60.0	1609.641	2564.542	8105.041	23.410%	73.985%
75.0	856.164	1868.322	9973.362	17.055%	91.040%
90.0	89.927	769.270	10742.630	7.022%	98.062%
105.0	23.238	92.015	10834.650	.840%	98.902%
120.0	23.652	35.528	10870.170	.324%	99.226%
135.0	25.751	32.144	10902.320	.293%	99.520%
150.0	28.544	27.107	10929.430	.247%	99.767%
165.0	31.192	18.748	10948.170	.171%	99.938%
180.0	32.165	6.782	10954.960	.062%	100.000%

ZONAL LUMEN SUMMARY

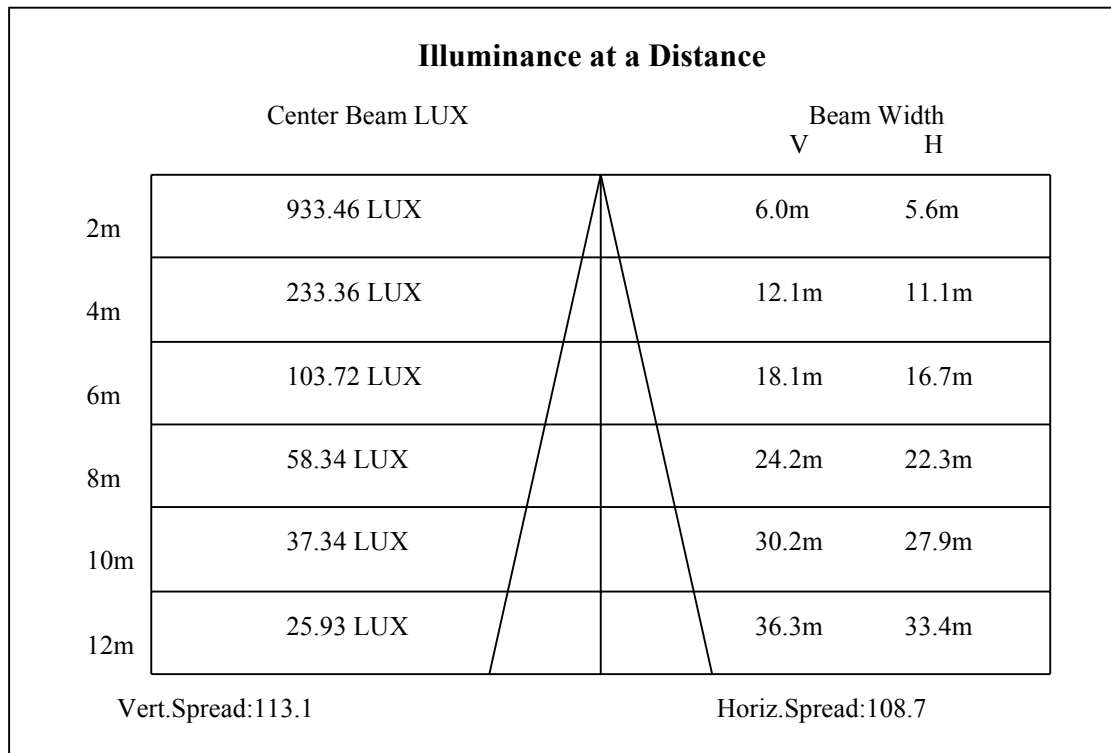
Zone	Lumens	%Fixt
0-30	2852.69	26.04%
0-40	2852.69	26.04%
0-60	8105.04	73.99%
0-90	10742.63	98.06%
90-120	127.54	1.16%
90-130	127.54	1.16%
90-150	186.79	1.71%
90-180	205.54	1.88%
0-180	10954.96	100.00%

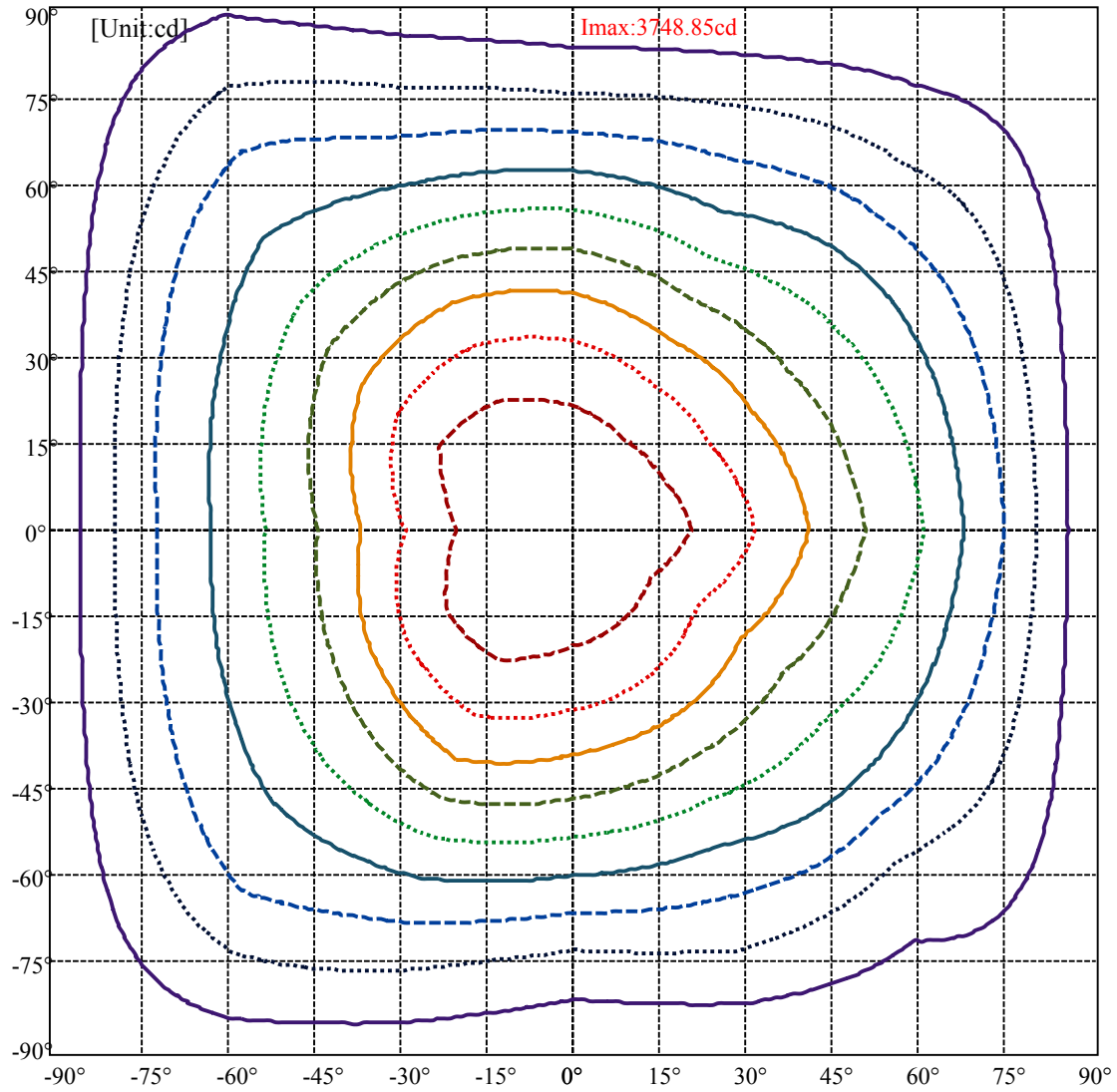
ZONAL LUMEN SUMMARY

0-10	0.00
10-20	779.23
20-30	2073.46
30-40	0.00
40-50	2687.81
50-60	2564.54
60-70	0.00
70-80	1868.32
80-90	769.27
90-100	0.00
100-110	92.01
110-120	35.53
120-130	0.00
130-140	32.14
140-150	27.11
150-160	0.00
160-170	18.75
170-180	0.00

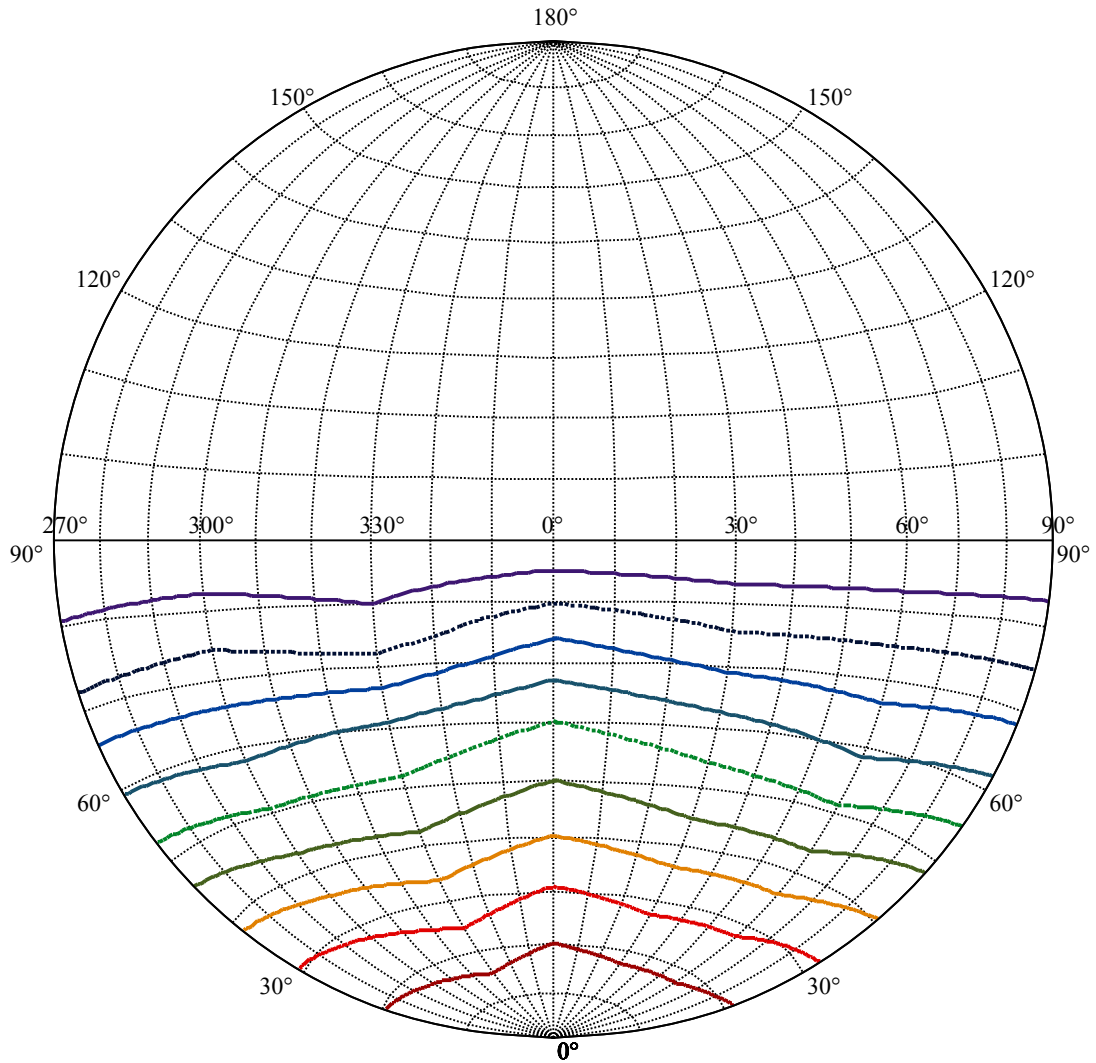


C30(Max): —
C0/C180: —
C90/C270: —





(10%Imax) 373.966	———
(20%Imax) 747.933
(30%Imax) 1121.9	- - - - -
(40%Imax) 1495.87	———
(50%Imax) 1869.83
(60%Imax) 2243.8	- - - - -
(70%Imax) 2617.77	———
(80%Imax) 2991.73
(90%Imax) 3365.7	- - - - -

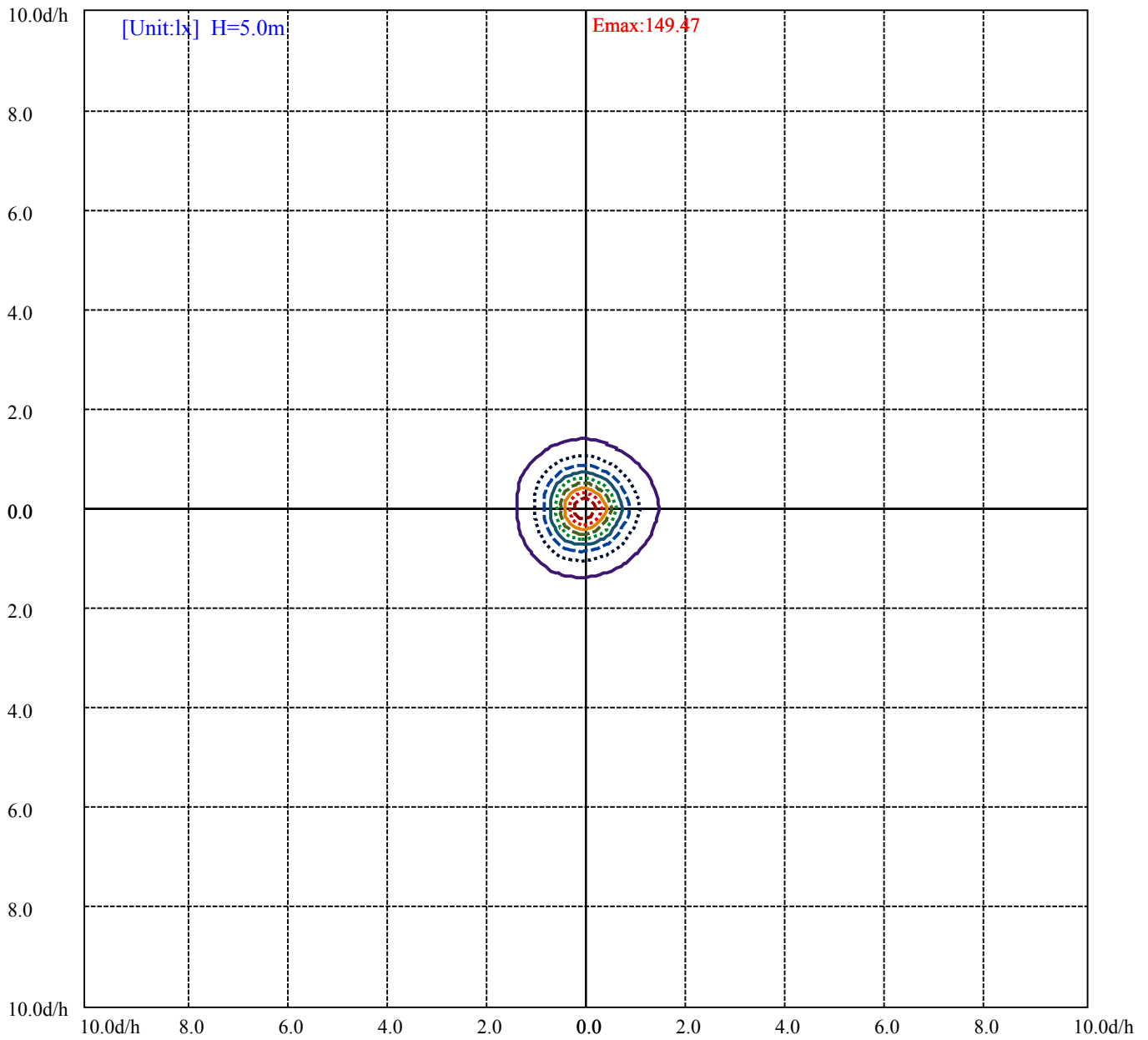


House

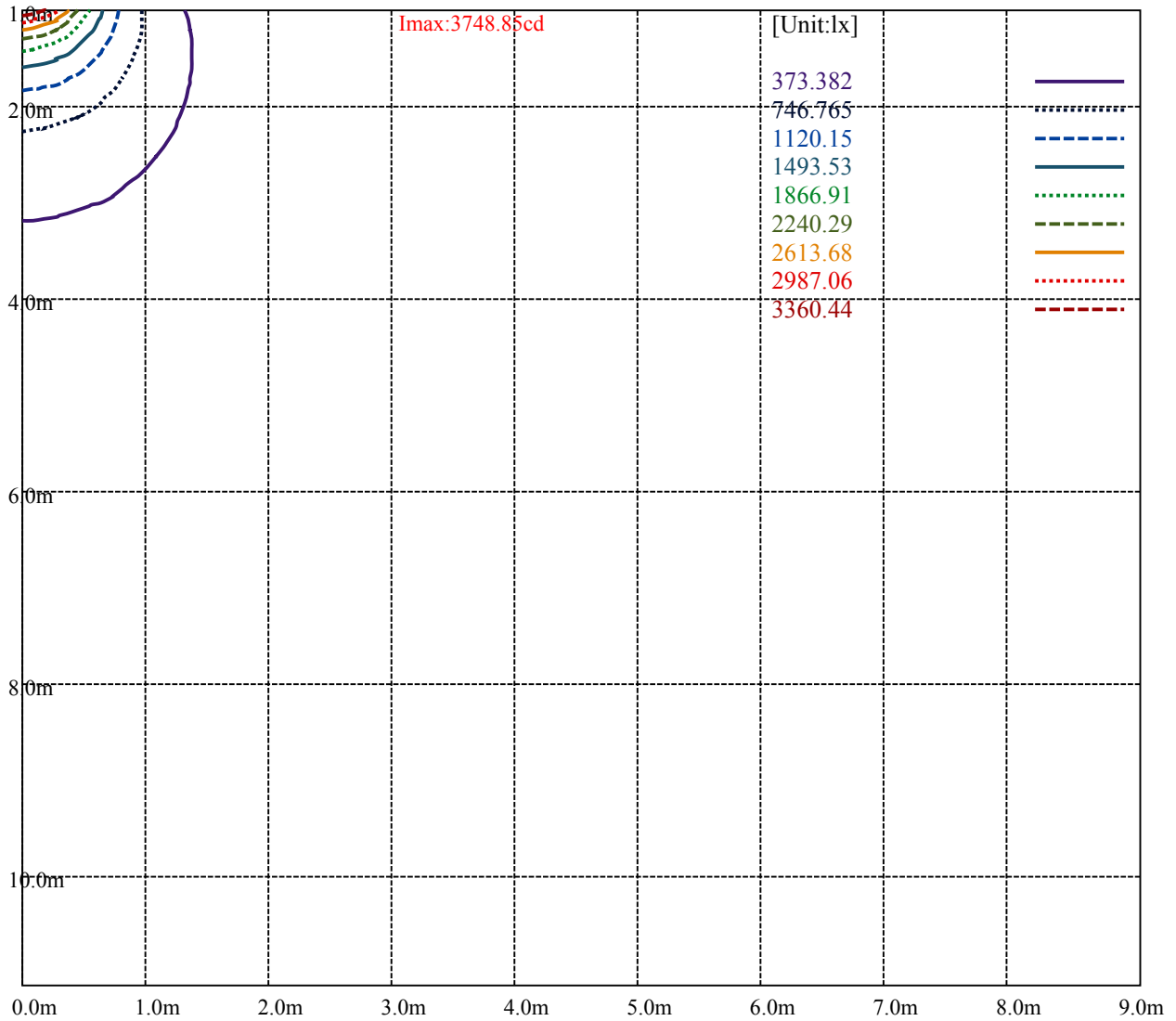
Road

I_{max}:3748.85cd

(10%I _{max}) 374.885	—
(20%I _{max}) 749.769	⋯
(30%I _{max}) 1124.65	- - -
(40%I _{max}) 1499.54	—
(50%I _{max}) 1874.42	⋯
(60%I _{max}) 2249.31	- - -
(70%I _{max}) 2624.19	—
(80%I _{max}) 2999.08	⋯
(90%I _{max}) 3373.96	- - -



- (10%Emax) 14.94684 ————
- (20%Emax) 29.89368 ······
- (30%Emax) 44.8404 - - - - -
- (40%Emax) 59.7872 ————
- (50%Emax) 74.734 ······
- (60%Emax) 89.6808 - - - - -
- (70%Emax) 104.628 ————
- (80%Emax) 119.5748 ······
- (90%Emax) 134.5216 - - - - -



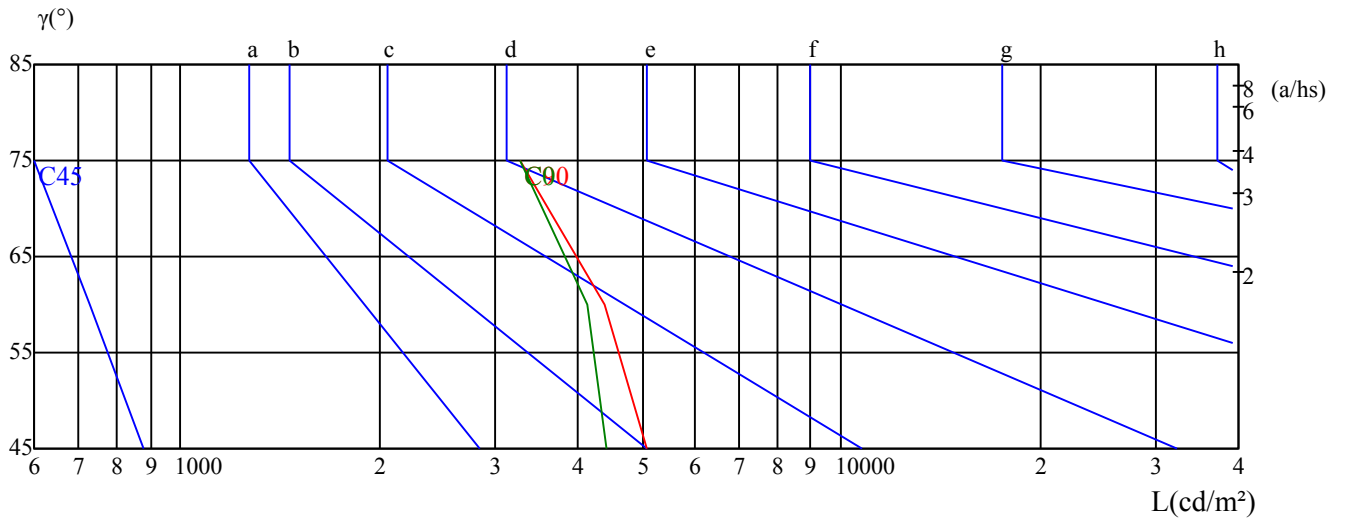
Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	4425	0	0	4127	0	0	3269	0	0
C45	877	0	0	726	0	0	509	0	0
C90	5077	0	0	4376	0	0	3268	0	0

Glare Table

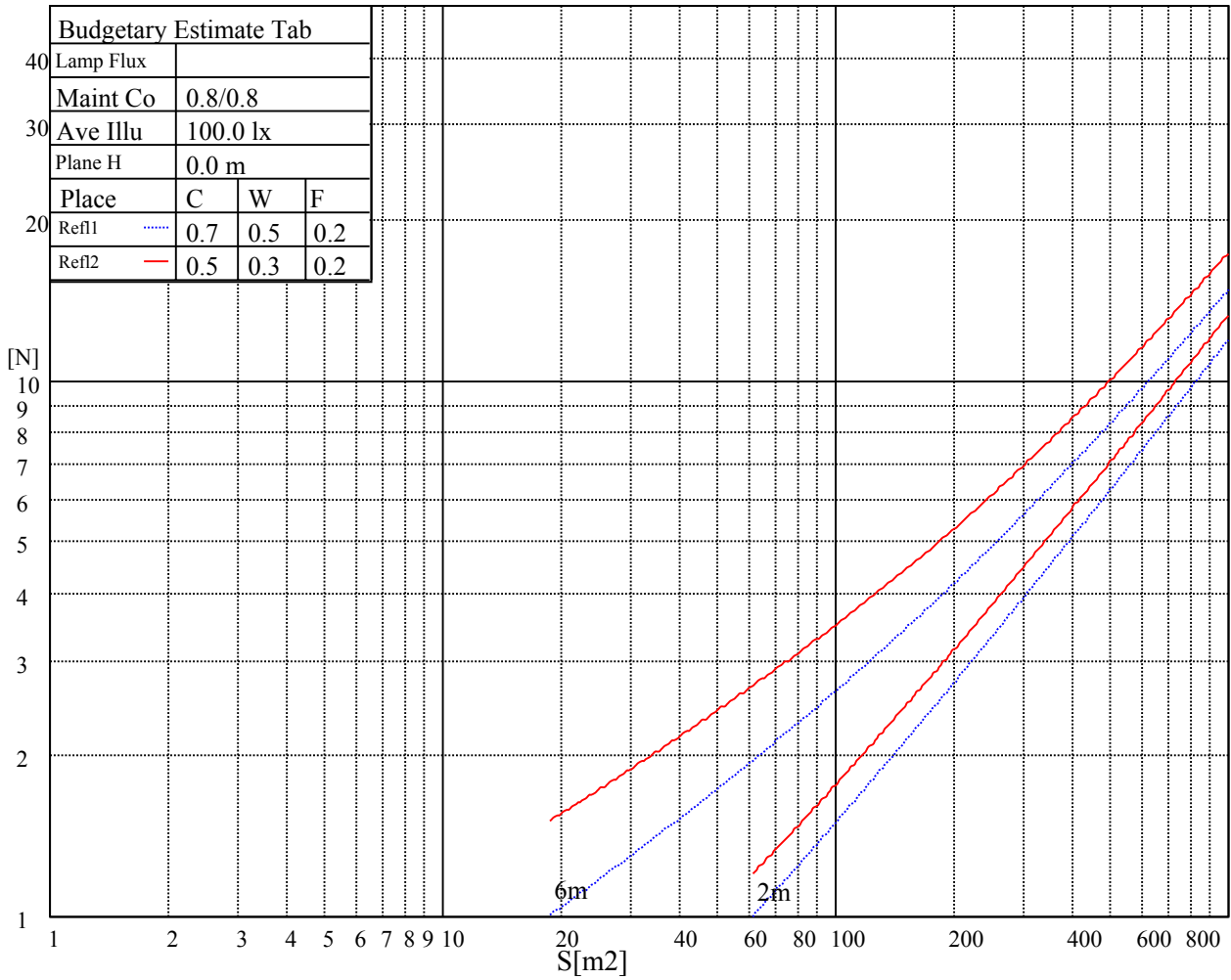
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

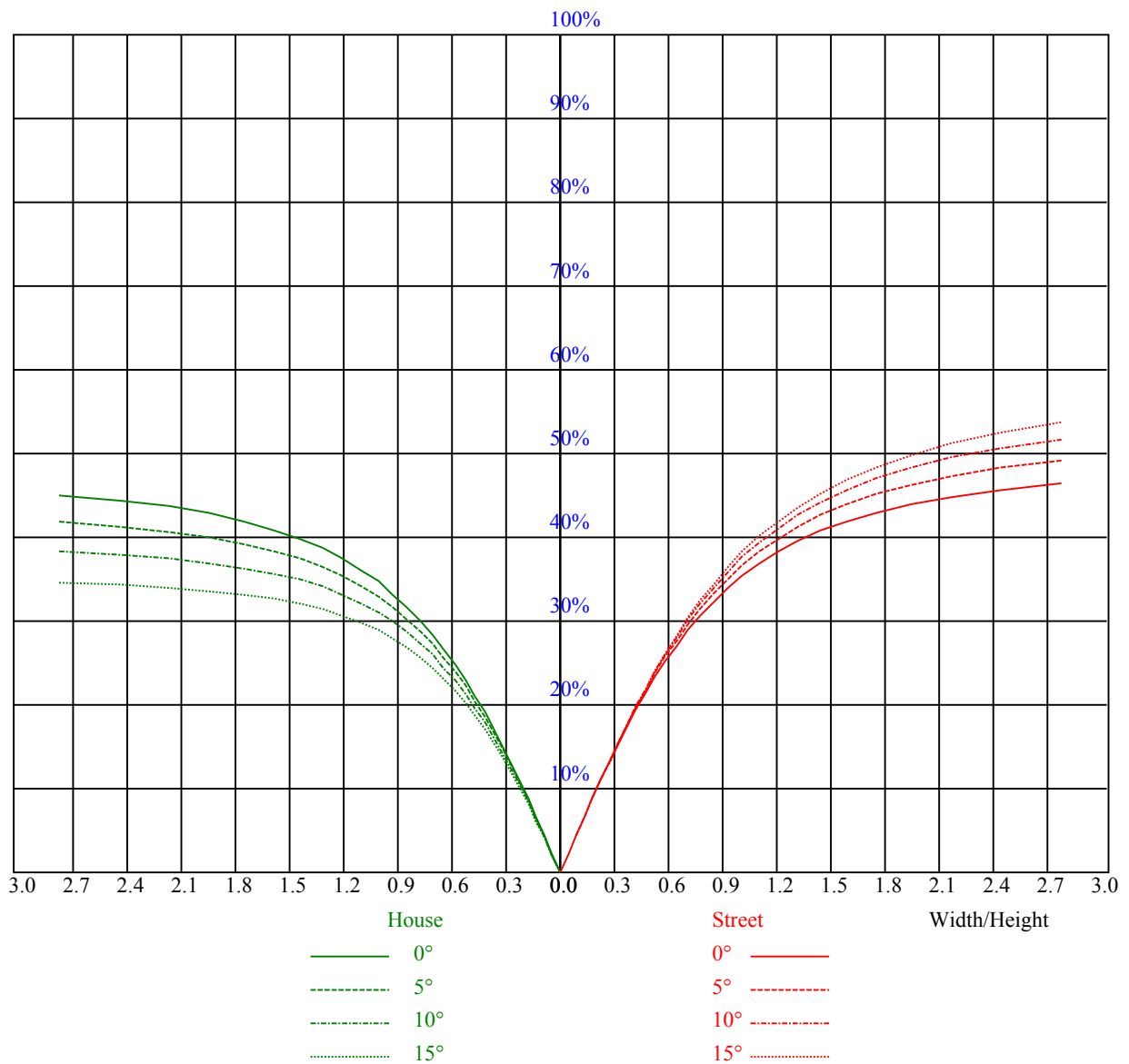


Illuminatin assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	8.8	10.4	9.1	10.7	11.0	8.3	9.9	8.6	10.2	10.5
	3H	10.6	12.1	11.0	12.4	12.8	10.0	11.4	10.3	11.8	12.1
	4H	11.3	12.6	11.7	12.9	13.3	10.5	11.8	10.9	12.1	12.5
	6H	12.0	13.3	12.4	13.6	14.0	11.1	12.4	11.5	12.8	13.2
	8H	12.2	13.5	12.7	13.9	14.3	11.4	12.6	11.8	13.0	13.4
	12H	12.2	13.2	12.6	13.7	14.1	11.3	12.4	11.8	12.8	13.3
4H	2H	9.1	10.4	9.5	10.8	11.2	8.7	10.0	9.1	10.4	10.8
	3H	11.1	12.2	11.6	12.6	13.1	10.5	11.6	11.0	12.0	12.5
	4H	12.1	13.1	12.6	13.6	14.0	11.4	12.5	11.9	12.9	13.4
	6H	12.9	13.9	13.4	14.4	14.8	12.2	13.2	12.6	13.6	14.1
	8H	13.0	13.7	13.5	14.2	14.8	12.3	13.0	12.8	13.5	14.1
	12H	13.2	13.9	13.8	14.5	15.0	12.5	13.2	13.0	13.7	14.3
8H	4H	12.2	12.9	12.8	13.5	14.0	11.6	12.3	12.2	12.9	13.4
	6H	13.1	13.9	13.7	14.4	14.9	12.5	13.2	13.0	13.7	14.3
	8H	13.5	14.2	14.0	14.8	15.3	12.9	13.6	13.4	14.1	14.7
	12H	13.8	14.5	14.3	15.0	15.6	13.2	13.9	13.7	14.4	15.0
12H	4H	12.3	13.0	12.8	13.5	14.1	11.7	12.4	12.2	12.9	13.5
	6H	13.2	13.9	13.7	14.5	15.0	12.6	13.3	13.1	13.8	14.4
	8H	13.6	14.3	14.2	14.9	15.4	13.0	13.7	13.5	14.3	14.8
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.6				
S = 1.5H		0.6/-0.5					0.6/-0.6				
S = 2.0H		0.9/-0.6					0.7/-0.6				
Standard tables:		BK3					BKBF				
Uncorrected UGR		-5.3					-2.4				
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 RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	0.93	0.86	0.80	0.90	0.84	0.78	0.85	0.80	0.75	0.81	0.76	0.72	0.77	0.73	0.70	0.67
2	0.80	0.70	0.63	0.77	0.69	0.62	0.73	0.66	0.60	0.69	0.63	0.58	0.66	0.61	0.56	0.54
3	0.69	0.59	0.51	0.67	0.58	0.50	0.64	0.55	0.49	0.60	0.53	0.47	0.57	0.51	0.46	0.44
4	0.60	0.49	0.41	0.58	0.48	0.41	0.55	0.47	0.40	0.53	0.45	0.39	0.50	0.44	0.38	0.36
5	0.52	0.42	0.34	0.51	0.41	0.34	0.49	0.40	0.33	0.46	0.39	0.33	0.44	0.37	0.32	0.29
6	0.46	0.36	0.29	0.45	0.35	0.28	0.43	0.34	0.28	0.41	0.33	0.27	0.39	0.32	0.27	0.25
7	0.41	0.31	0.24	0.40	0.31	0.24	0.38	0.30	0.24	0.37	0.29	0.23	0.35	0.28	0.23	0.21
8	0.37	0.27	0.21	0.36	0.27	0.21	0.35	0.26	0.20	0.33	0.26	0.20	0.32	0.25	0.20	0.18
9	0.34	0.24	0.18	0.33	0.24	0.18	0.31	0.23	0.18	0.30	0.23	0.18	0.29	0.22	0.17	0.15
10	0.31	0.22	0.16	0.30	0.22	0.16	0.29	0.21	0.16	0.28	0.21	0.16	0.27	0.20	0.15	0.14



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	3733.82	3546.61	3043.92	2440.68	1881.36	1075.89	29.93	22.42	22.30
30.0	3748.85	3468.03	2896.00	2240.76	1652.54	780.05	26.35	24.27	25.54
60.0	3724.58	3468.03	2926.04	2181.94	1426.97	746.07	26.35	24.04	25.19
90.0	3714.18	3560.48	3101.70	2423.35	1597.07	744.22	49.35	23.69	24.27
120.0	3710.71	3614.80	3250.77	2538.91	1661.21	883.82	172.88	24.04	24.61
150.0	3714.18	3706.09	3271.57	2519.26	1762.33	1227.27	329.58	24.61	24.73
180.0	3733.82	3574.35	2937.60	2184.36	1579.62	970.96	43.10	24.27	25.42
210.0	3748.85	3713.02	3212.64	2306.63	1664.68	1130.78	172.77	23.11	22.65
240.0	3724.58	3629.82	3251.93	2542.38	1664.10	863.25	154.51	22.42	21.73
270.0	3714.18	3528.12	3031.20	2303.05	1458.28	581.05	25.77	21.73	22.07
300.0	3710.71	3458.79	2917.95	2157.55	1399.46	723.42	24.27	21.96	22.30
330.0	3714.18	3390.60	2779.28	2143.92	1568.07	547.19	24.27	22.30	23.00
360.0	3733.82	3546.61	3043.92	2440.68	1881.36	1075.89	29.93	22.42	22.30
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	24.50	27.39	30.51	32.01					
30.0	27.97	30.05	31.78	32.36					
60.0	27.50	29.70	31.90	32.36					
90.0	26.46	29.47	31.43	32.01					
120.0	26.58	29.35	31.55	32.01					
150.0	26.35	29.47	31.90	32.24					
180.0	27.50	29.82	32.13	32.01					
210.0	24.15	27.39	31.20	32.36					
240.0	23.81	27.04	30.28	32.36					
270.0	24.38	27.27	30.39	32.01					
300.0	24.50	27.39	30.51	32.01					
330.0	25.31	28.20	30.74	32.24					
360.0	24.50	27.39	30.51	32.01					