

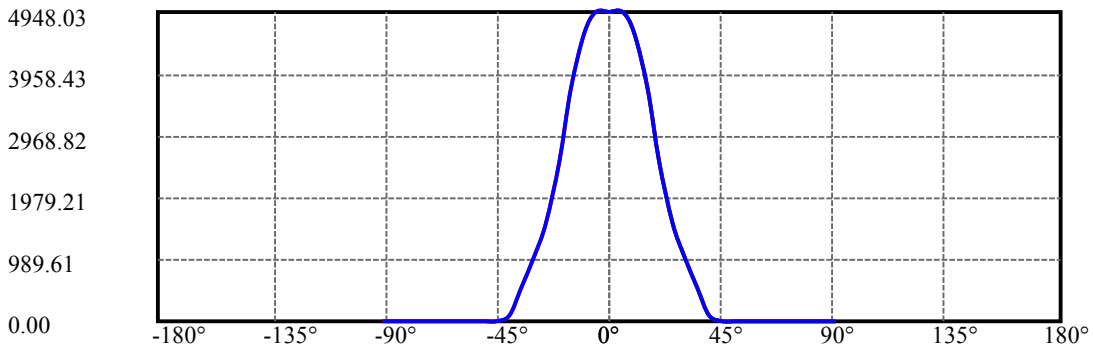
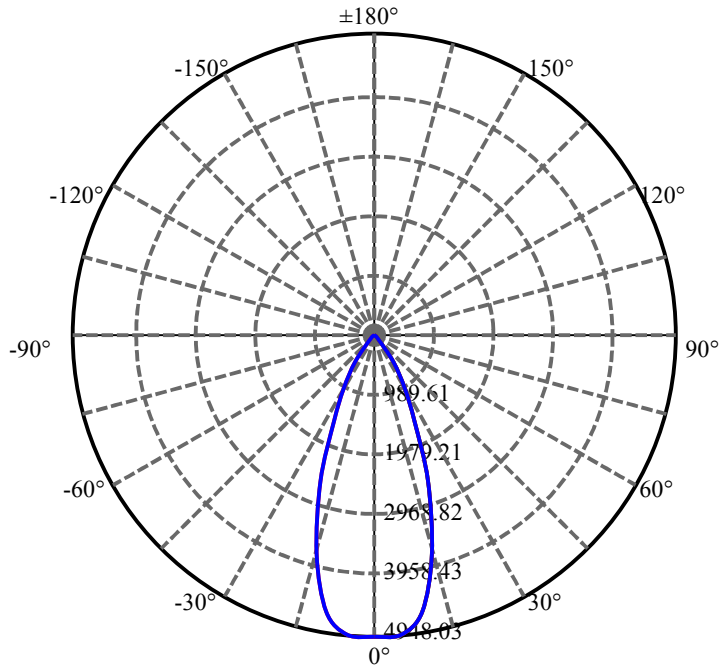
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4948.031	29.590	29.59	1.029%	1.134%
5.0	4947.117	236.340	265.93	8.221%	10.187%
10.0	4597.945	437.646	703.577	15.222%	26.952%
15.0	3707.859	526.028	1229.605	18.297%	47.102%
20.0	2548.969	477.865	1707.47	16.621%	65.407%
25.0	1573.664	364.544	2072.014	12.680%	79.372%
30.0	1033.727	283.312	2355.327	9.854%	90.225%
35.0	533.904	167.859	2523.185	5.839%	96.655%
40.0	90.345	31.832	2555.017	1.107%	97.874%
45.0	14.906	5.778	2560.794	.201%	98.095%
50.0	13.416	5.633	2566.428	.196%	98.311%
55.0	12.642	5.676	2572.104	.197%	98.529%
60.0	12.129	5.758	2577.862	.200%	98.749%
65.0	11.721	5.823	2583.684	.203%	98.972%
70.0	11.461	5.903	2589.588	.205%	99.198%
75.0	11.236	5.949	2595.537	.207%	99.426%
80.0	11.109	5.997	2601.534	.209%	99.656%
85.0	10.983	5.997	2607.531	.209%	99.886%
90.0	10.884	2.983	2610.514	.104%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2355.33	81.92%	90.22%
0-40	2555.02	88.87%	97.87%
0-60	2577.86	89.66%	98.75%
0-90	2607.53	90.70%	99.89%
0-120	2607.53	90.70%	99.89%
0-180	2610.51	90.80%	100.00%
60-90	35.43	1.23%	1.36%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.29	2088.41	72.64%	80.00%

ZONAL LUMEN SUMMARY

0-10	703.58
10-20	1003.89
20-30	647.86
30-40	199.69
40-50	11.41
50-60	11.43
60-70	11.73
70-80	11.95
80-90	6.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0(Max): —————

C0/C180: —————

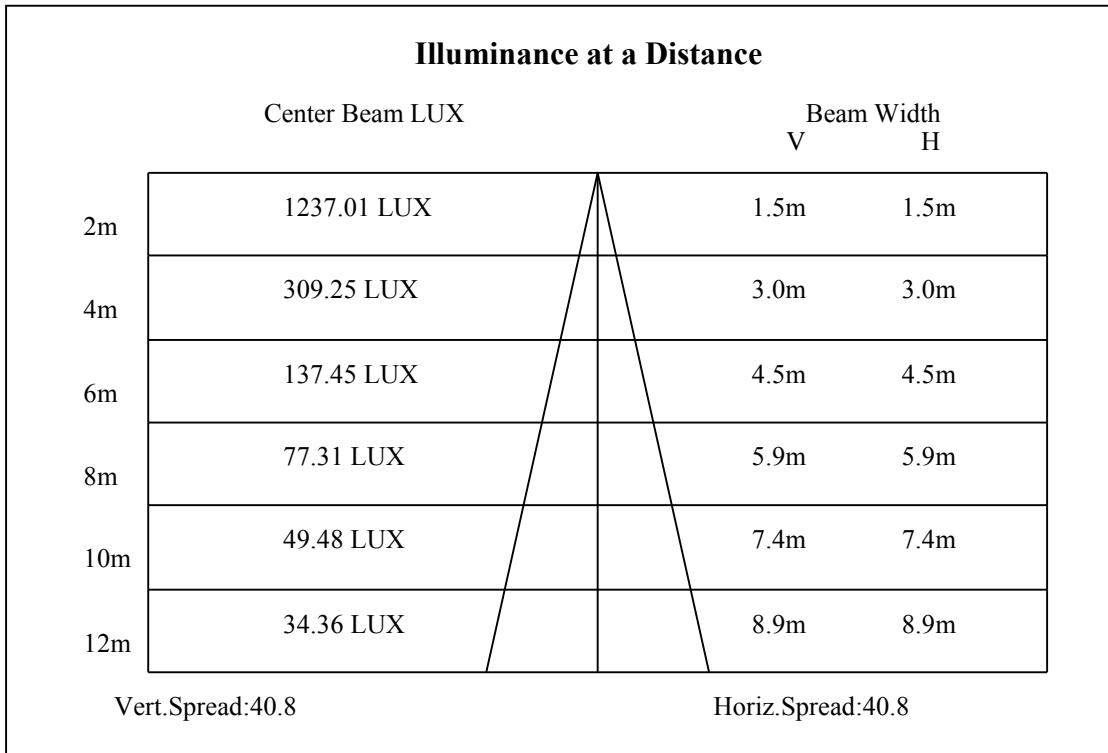
C90/C270: —————

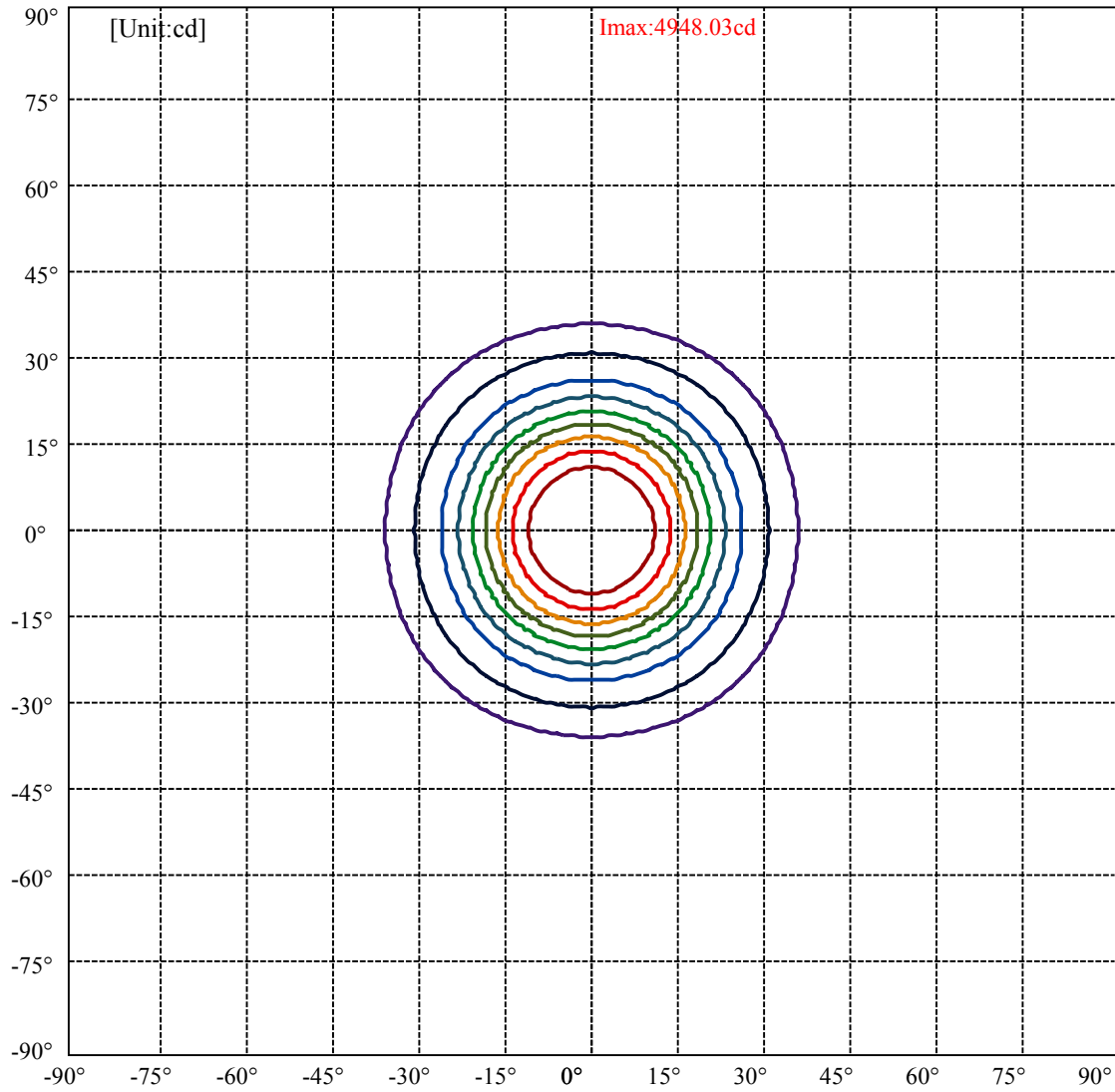
Field angle(10%Imax):C0/180Left:35.4 Right:35.4

:C90/270Left:35.4 Right:35.4

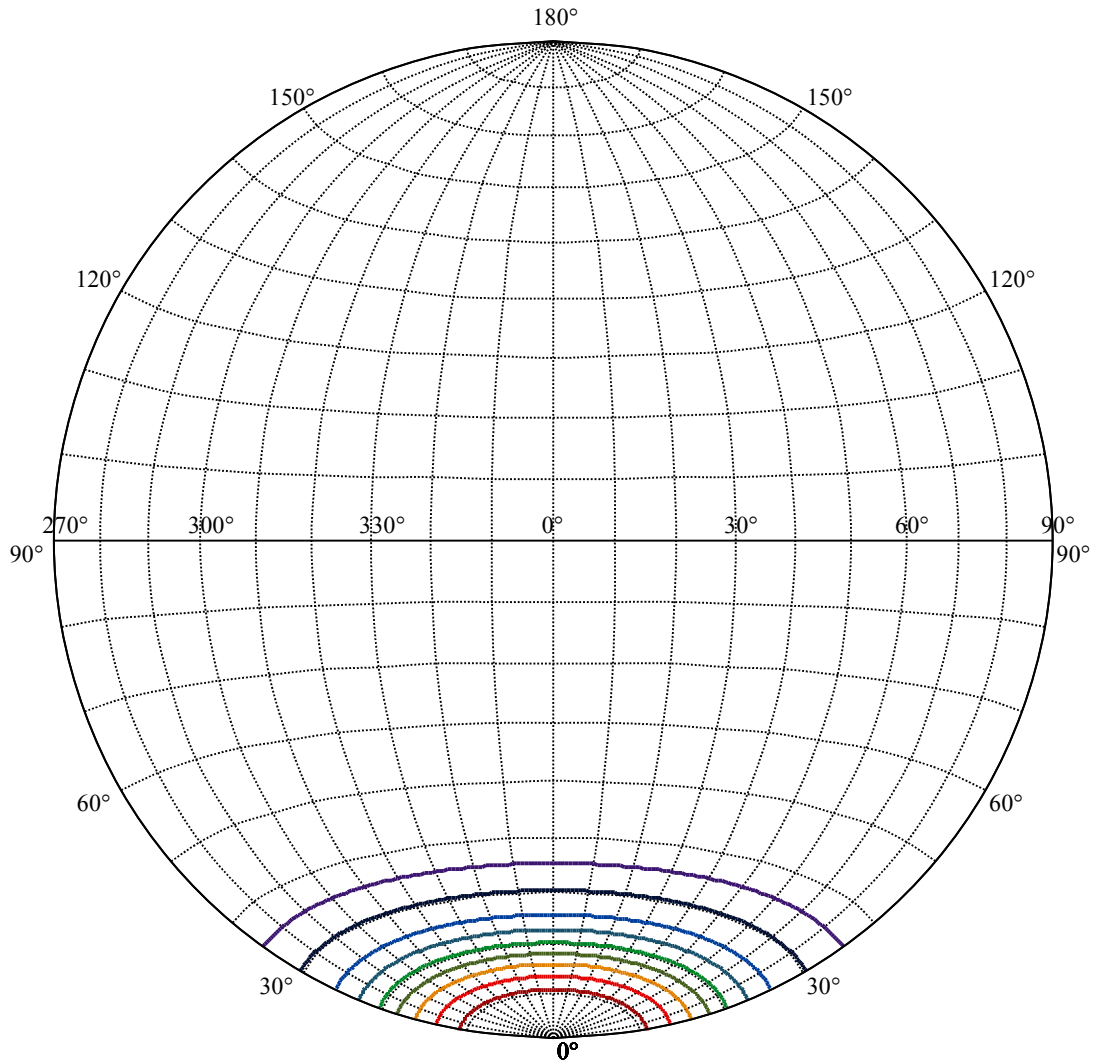
Beam Angle(50%Imax):C0/180Left:20.4 Right:20.4

:C90/270Left:20.4 Right:20.4





(10%Imax) 494.803	—
(20%Imax) 989.606	—
(30%Imax) 1484.41	—
(40%Imax) 1979.21	—
(50%Imax) 2474.02	—
(60%Imax) 2968.82	—
(70%Imax) 3463.62	—
(80%Imax) 3958.43	—
(90%Imax) 4453.23	—



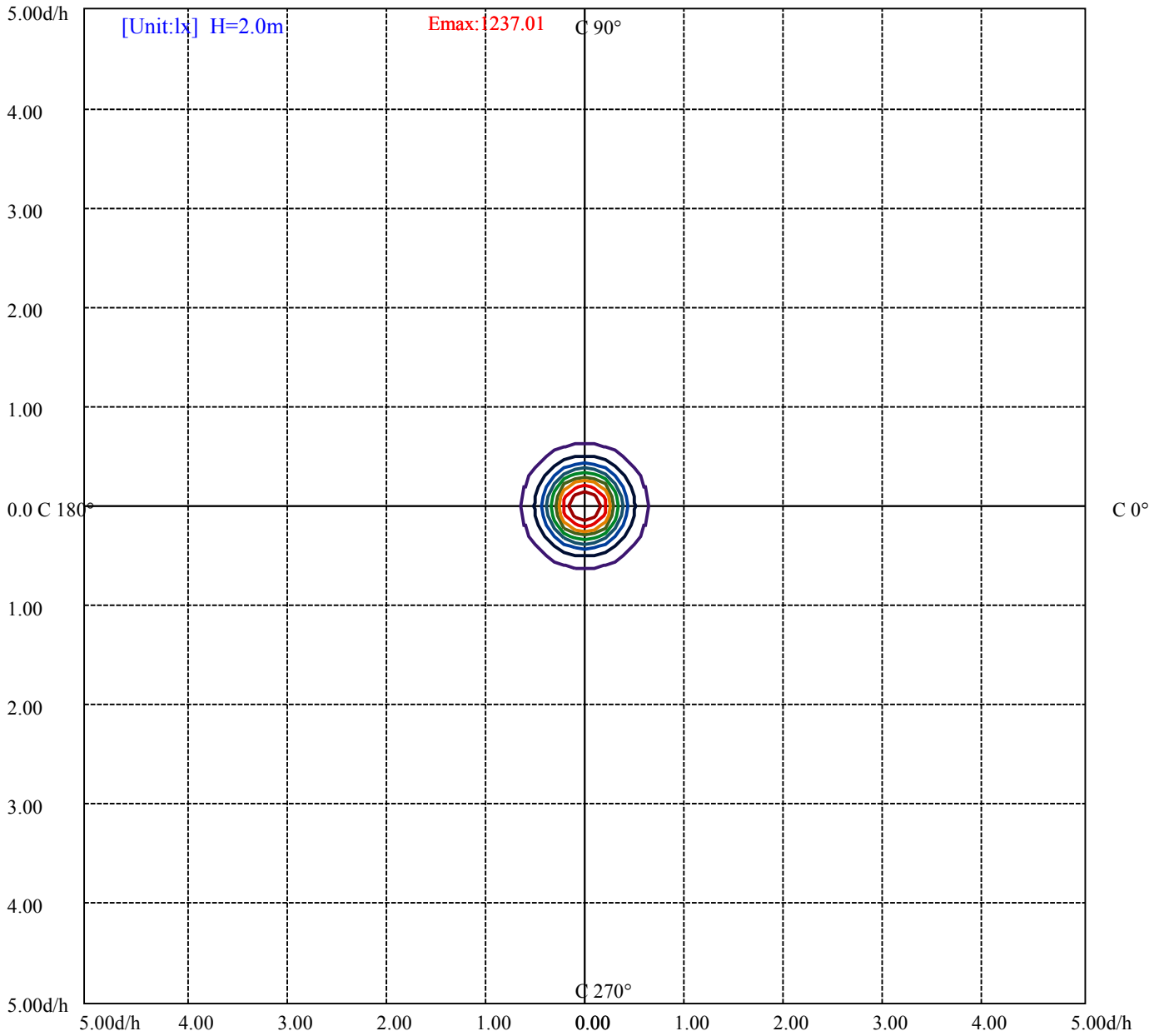
House

[Unit:cd]

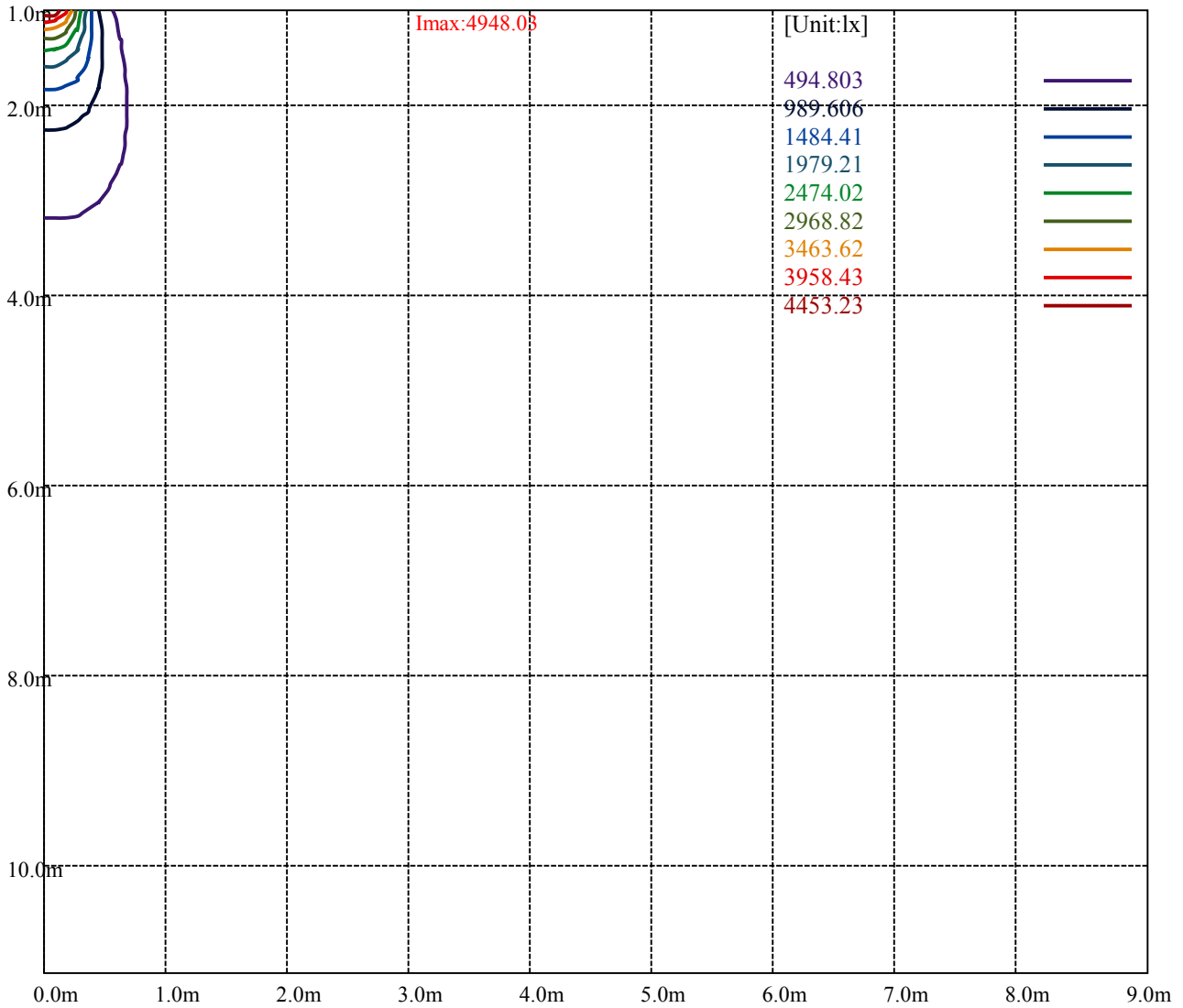
Road

Imax:4948.03

(10%Imax) 494.803	—
(20%Imax) 989.606	—
(30%Imax) 1484.41	—
(40%Imax) 1979.21	—
(50%Imax) 2474.02	—
(60%Imax) 2968.82	—
(70%Imax) 3463.62	—
(80%Imax) 3958.43	—
(90%Imax) 4453.23	—



(10%Emax) 123.7008	—
(20%Emax) 247.4015	—
(30%Emax) 371.1025	—
(40%Emax) 494.8025	—
(50%Emax) 618.505	—
(60%Emax) 742.205	—
(70%Emax) 865.905	—
(80%Emax) 989.6075	—
(90%Emax) 1113.307	—



Luminance Table

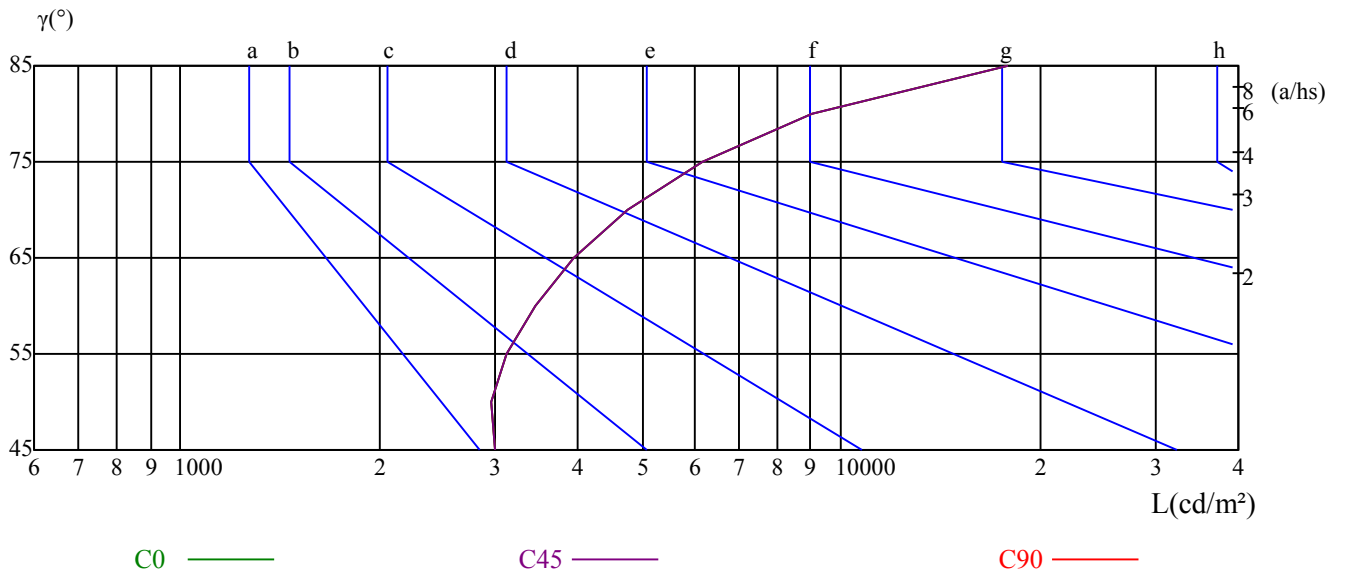
γ	45	50	55	60	65	70	75	80	85
C0	2988	2958	3124	3438	3931	4749	6153	9067	17859
C45	2988	2958	3124	3438	3931	4749	6153	9067	17859
C90	2988	2958	3124	3438	3931	4749	6153	9067	17859

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3931	3931	3931	6153	6153	6153	17859	17859	17859

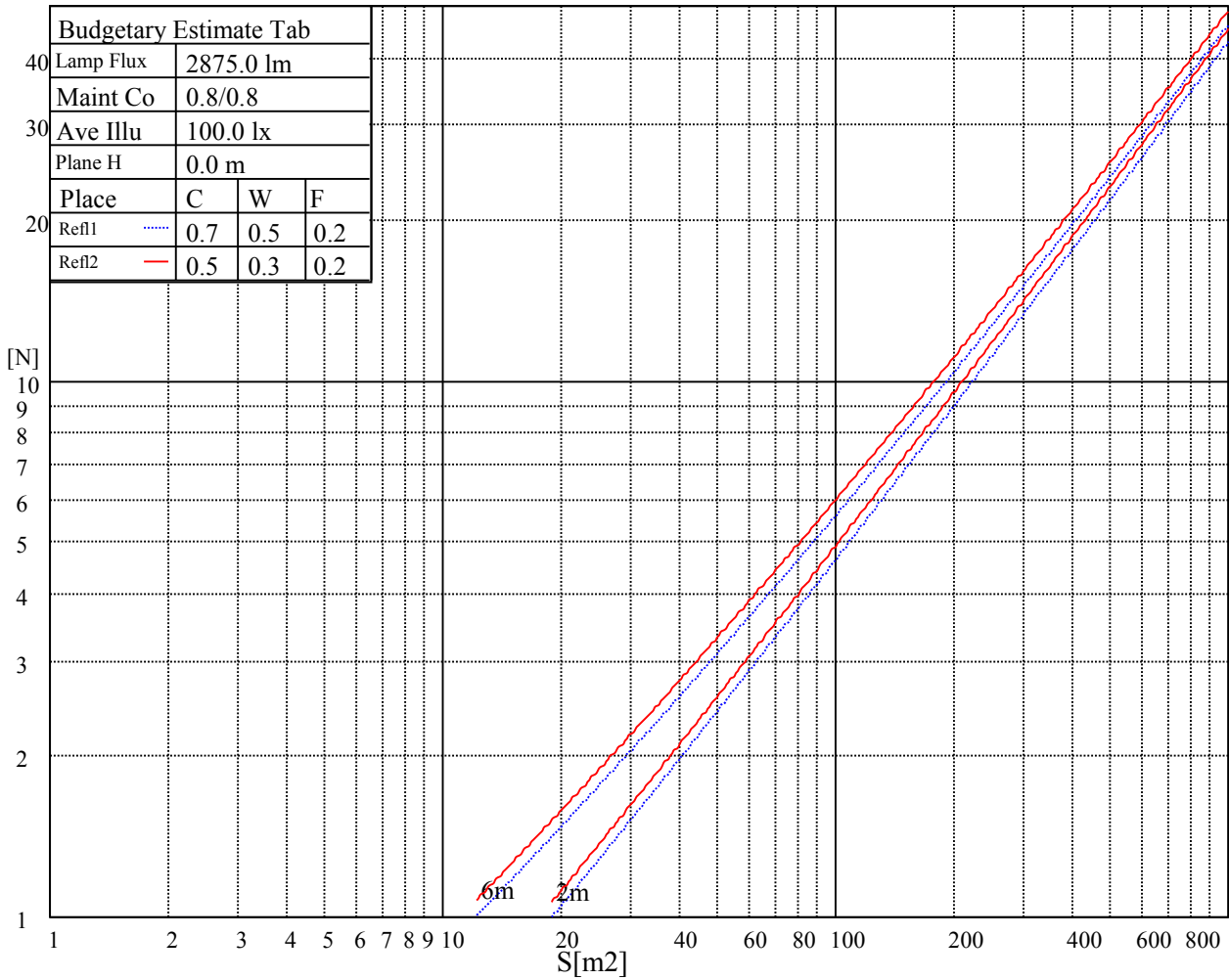
Glare Table

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

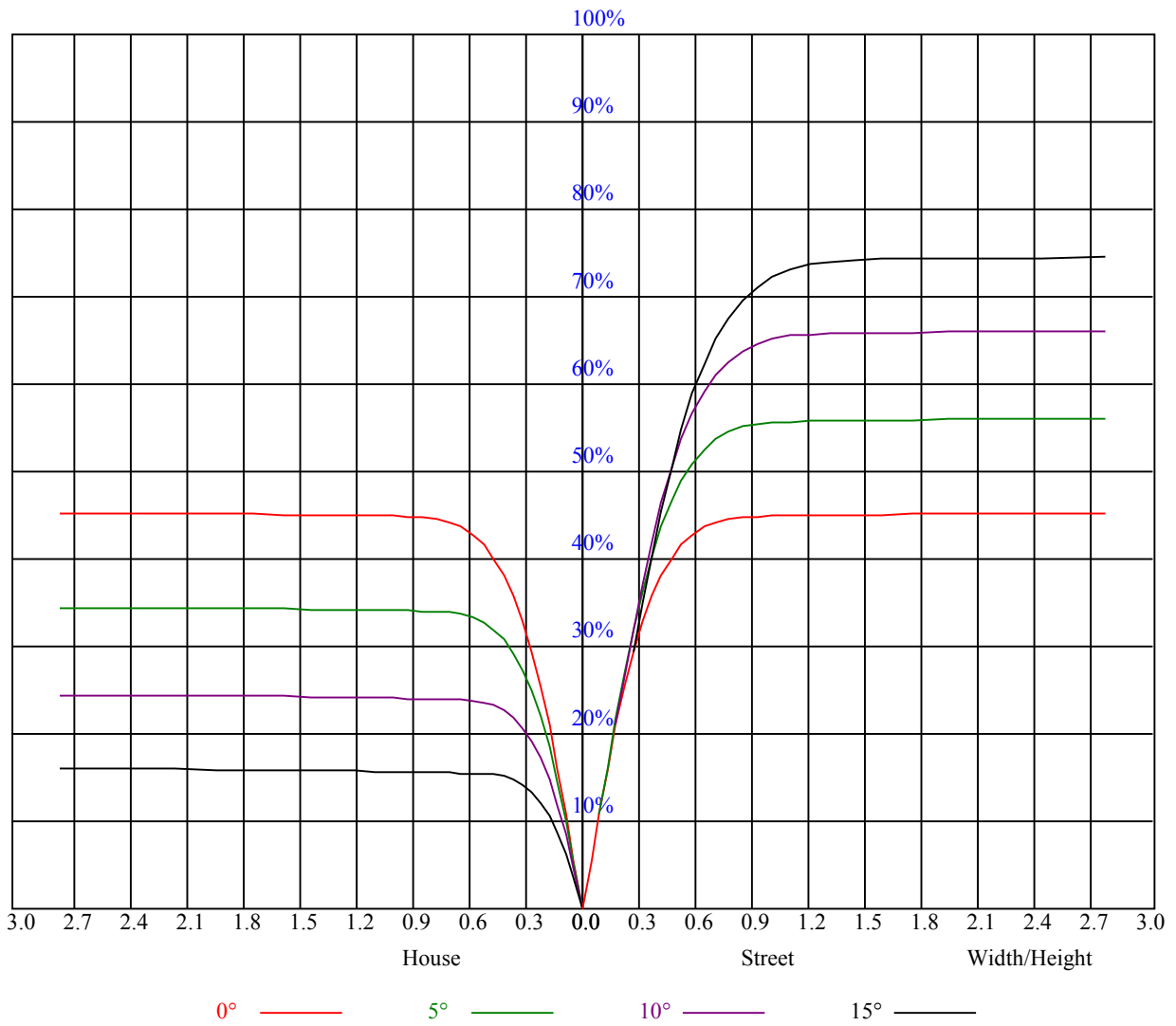
Luminance Limiting Curve



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	1.53	2.44	1.89	2.75	3.06	1.60	2.51	1.97	2.82	3.14
	3H	4.75	5.56	5.14	5.89	6.26	4.78	5.59	5.17	5.92	6.29
	4H	6.49	7.23	6.90	7.59	7.98	6.51	7.25	6.92	7.61	8.00
	6H	8.45	9.13	8.87	9.51	9.91	8.47	9.15	8.89	9.52	9.92
	8H	9.54	10.17	9.97	10.57	10.98	9.55	10.19	9.99	10.58	10.99
	12H	11.29	11.90	11.73	12.29	12.72	11.29	11.90	11.73	12.29	12.72
4H	2H	2.44	3.18	2.85	3.54	3.93	2.49	3.24	2.90	3.59	3.98
	3H	5.90	6.51	6.32	6.93	7.33	5.92	6.53	6.34	6.94	7.35
	4H	7.81	8.35	8.24	8.78	9.23	7.82	8.36	8.26	8.79	9.24
	6H	9.92	10.39	10.40	10.84	11.32	9.94	10.41	10.41	10.86	11.33
	8H	11.11	11.54	11.59	12.00	12.47	11.12	11.56	11.60	12.01	12.48
	12H	12.76	13.14	13.26	13.63	14.10	12.77	13.14	13.26	13.63	14.11
8H	4H	8.53	8.96	9.01	9.42	9.89	8.54	8.97	9.02	9.43	9.90
	6H	10.93	11.27	11.44	11.77	12.26	10.94	11.28	11.45	11.79	12.27
	8H	12.30	12.60	12.83	13.13	13.62	12.31	12.61	12.85	13.14	13.64
	12H	14.09	14.35	14.61	14.85	15.43	14.09	14.35	14.62	14.85	15.43
12H	4H	8.74	9.11	9.23	9.60	10.08	8.75	9.12	9.24	9.61	10.09
	6H	11.44	11.55	11.78	12.02	12.57	11.46	11.56	11.79	12.03	12.58
	8H	12.75	13.01	13.27	13.51	14.09	12.76	13.02	13.28	13.52	14.10
Variation with the observer position at spacings:											
S = 1.0H		5.6/-7.1					5.6/-7.1				
S = 1.5H		7.7/-5.2					7.7/-5.2				
S = 2.0H		9.0/-3.8					9.0/-3.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		0.5					0.5				



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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.01	0.99	0.97	0.99	0.97	0.95	0.96	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.84	0.83	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
6	0.79	0.75	0.71	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
8	0.73	0.69	0.66	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.61
10	0.68	0.64	0.61	0.68	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.62	0.60	0.59



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	4961.25	4876.88	4573.13	3884.06	2720.25	1704.94	1113.19	651.94	164.42
45.0	4935.94	4917.94	4564.13	3679.88	2529.00	1526.06	1026.00	541.13	47.36
90.0	4960.13	5011.88	4538.25	3544.31	2347.88	1395.56	958.39	413.66	29.64
135.0	4934.81	5077.69	4811.63	3904.88	2651.06	1572.19	1022.06	558.56	50.68
180.0	4961.25	5041.13	4596.75	3522.38	2333.25	1436.06	958.84	424.13	33.47
225.0	4935.94	4941.56	4581.00	3636.56	2477.81	1554.75	1020.94	522.73	53.33
270.0	4960.13	4884.19	4643.44	3895.31	2769.75	1815.75	1141.31	642.94	300.38
315.0	4934.81	4825.69	4475.25	3595.50	2562.75	1584.00	1029.09	516.15	43.48
360.0	4961.25	4876.88	4573.13	3884.06	2720.25	1704.94	1113.19	651.94	164.42

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	15.81	13.61	12.77	12.21	11.81	11.48	11.31	11.14	10.97
45.0	14.74	13.44	12.66	12.15	11.70	11.48	11.25	11.08	10.97
90.0	14.23	13.22	12.49	12.04	11.64	11.42	11.19	11.08	10.97
135.0	14.68	13.44	12.66	12.15	11.76	11.48	11.25	11.14	10.97
180.0	14.40	13.33	12.66	12.15	11.70	11.48	11.19	11.08	10.97
225.0	14.96	13.39	12.66	12.15	11.76	11.48	11.25	11.14	10.97
270.0	15.75	13.50	12.71	12.15	11.76	11.48	11.25	11.14	11.03
315.0	14.68	13.39	12.54	12.04	11.64	11.42	11.19	11.08	11.03
360.0	15.81	13.61	12.77	12.21	11.81	11.48	11.31	11.14	10.97

C/γ(°)	90.0
0.0	10.86
45.0	10.91
90.0	10.91
135.0	10.91
180.0	10.86
225.0	10.86
270.0	10.86
315.0	10.91
360.0	10.86