
91276

Client:

LumCAT: /

Luminaire: /

Report No:

Test No:

LampCAT: 91276

Lamp flux(lm): -1.0

Number of Lamps: 4

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 48.3000

PF:

Ballast type:

Width(mm): 320

Height(mm): 100

Photometric Results

Lumens(lm): 6394.21

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 132.39

Central intensity(cd): 2557.642

Maximum intensity(cd): 2557.642

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=90.7

[C90/270]Total=108.1

Field angle(10%Imax): [C0/180]Total=147.7

[C90/270]Total=163.4

Maximum s/h(1/2): C0_180=1.11 C90_270=1.24

Maximum s/h(1/4): C0_180=1.25 C90_270=1.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 1.46%

Down flux rate of LUM(%): 98.54%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.909%

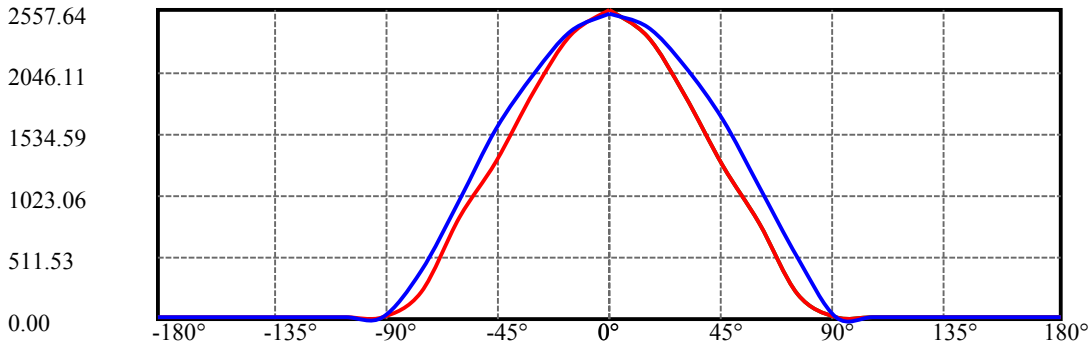
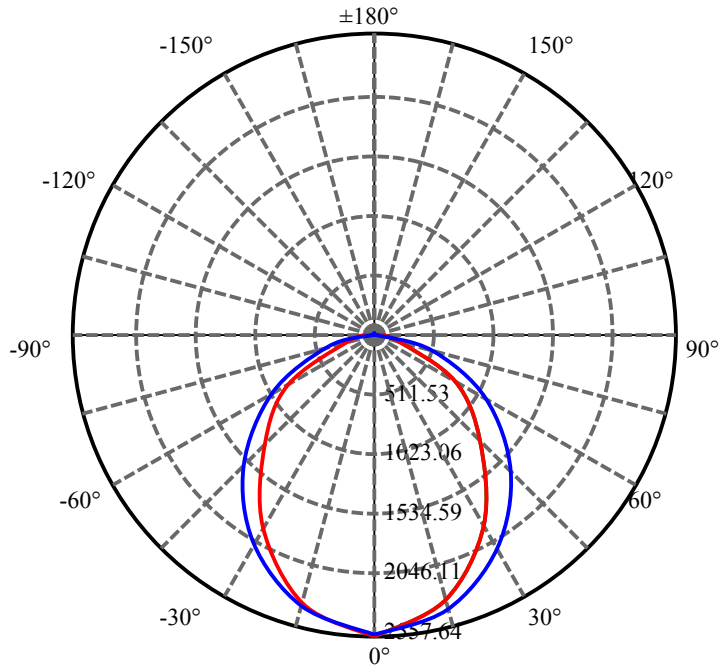
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2543.693	0.000	0	.000%	.000%
15.0	2350.634	523.924	523.924	.000%	8.194%
30.0	1988.750	1361.900	1885.824	.000%	29.493%
45.0	1438.874	1711.267	3597.091	.000%	56.255%
60.0	885.694	1512.469	5109.56	.000%	79.909%
75.0	323.161	915.941	6025.5	.000%	94.234%
90.0	15.351	275.246	6300.746	.000%	98.538%
105.0	12.360	22.532	6323.278	.000%	98.891%
120.0	13.610	19.677	6342.955	.000%	99.198%
135.0	15.508	18.945	6361.901	.000%	99.495%
150.0	17.583	16.521	6378.421	.000%	99.753%
165.0	19.312	11.579	6390.001	.000%	99.934%
180.0	19.997	4.208	6394.209	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1885.82	N.A.	29.49%
0-40	1885.82	N.A.	29.49%
0-60	5109.56	N.A.	79.91%
0-90	6300.75	N.A.	98.54%
0-120	6342.96	N.A.	99.20%
0-180	6394.21	N.A.	100.00%
60-90	2703.65	N.A.	42.28%
90-120	317.46	N.A.	4.96%
90-130	317.46	N.A.	4.96%
90-150	352.92	N.A.	5.52%
90-180	364.50	N.A.	5.70%
0-60.10	5115.37	N.A.	80.00%

ZONAL LUMEN SUMMARY

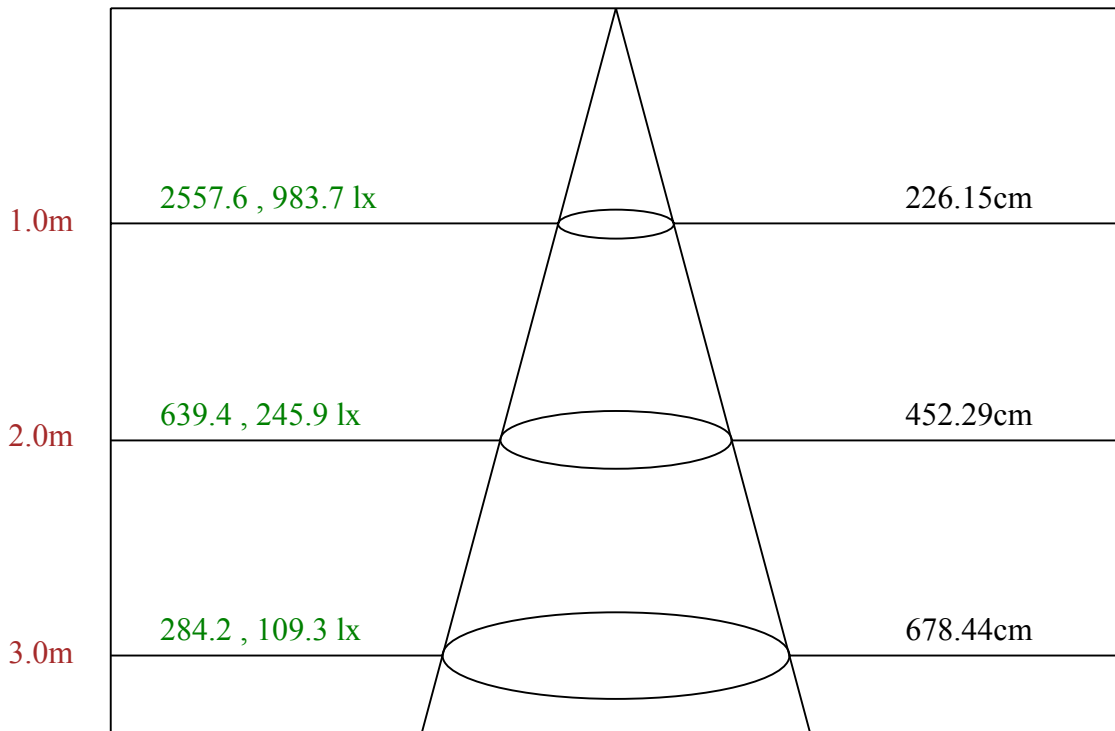
0-10	0.00
10-20	523.92
20-30	1361.90
30-40	0.00
40-50	1711.27
50-60	1512.47
60-70	0.00
70-80	915.94
80-90	275.25
90-100	0.00
100-110	22.53
110-120	19.68
120-130	0.00
130-140	18.95
140-150	16.52
150-160	0.00
160-170	11.58
170-180	0.00



C0(Max): ———
C0/C180: ———
C90/C270: ———

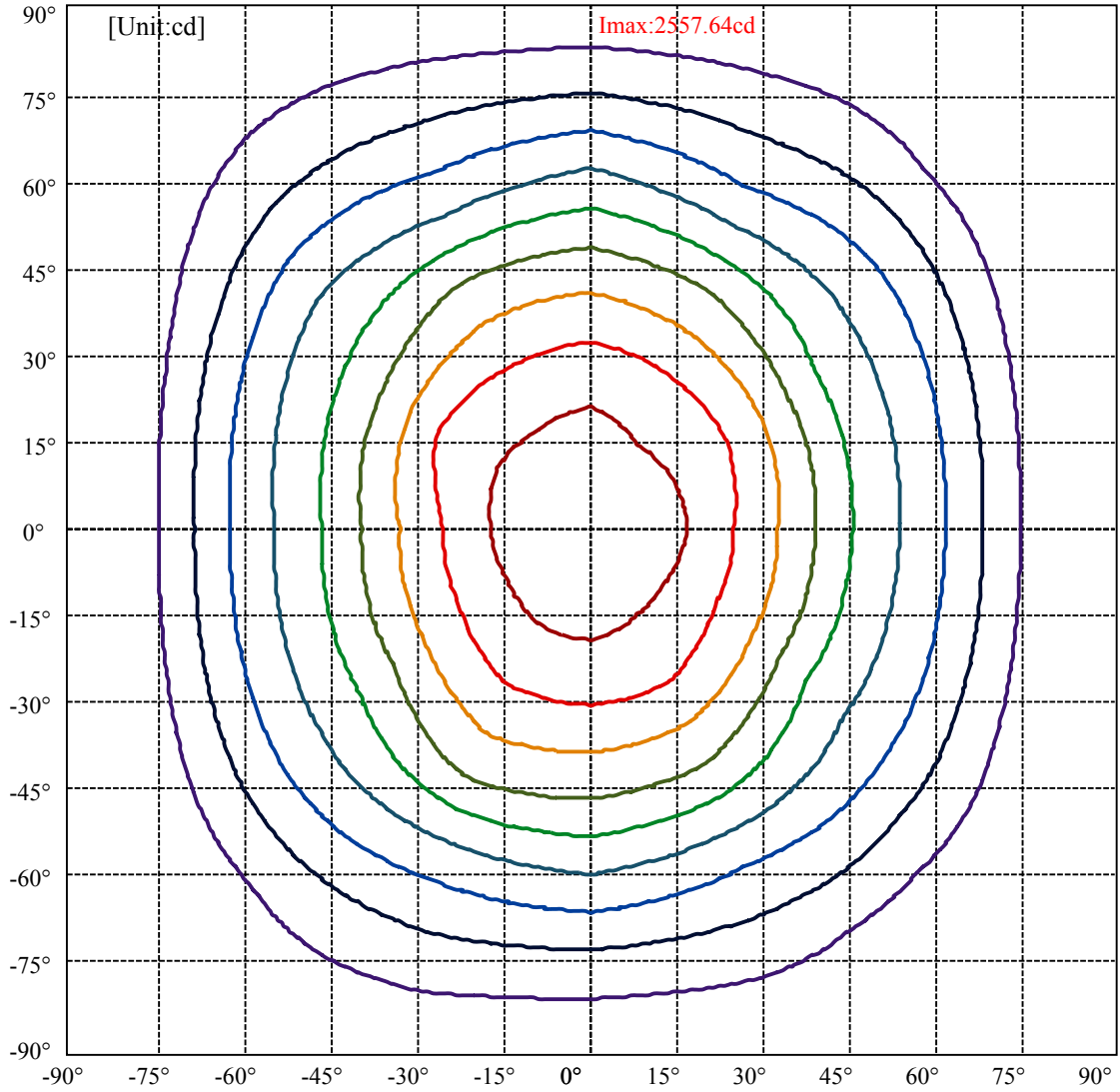
Field angle(10%Imax):C0/180Left:74.0 Right:73.7
:C90/270Left:80.6 Right:82.8

Beam Angle(50%Imax):C0/180Left:45.9 Right:44.8
:C90/270Left:52.8 Right:55.3

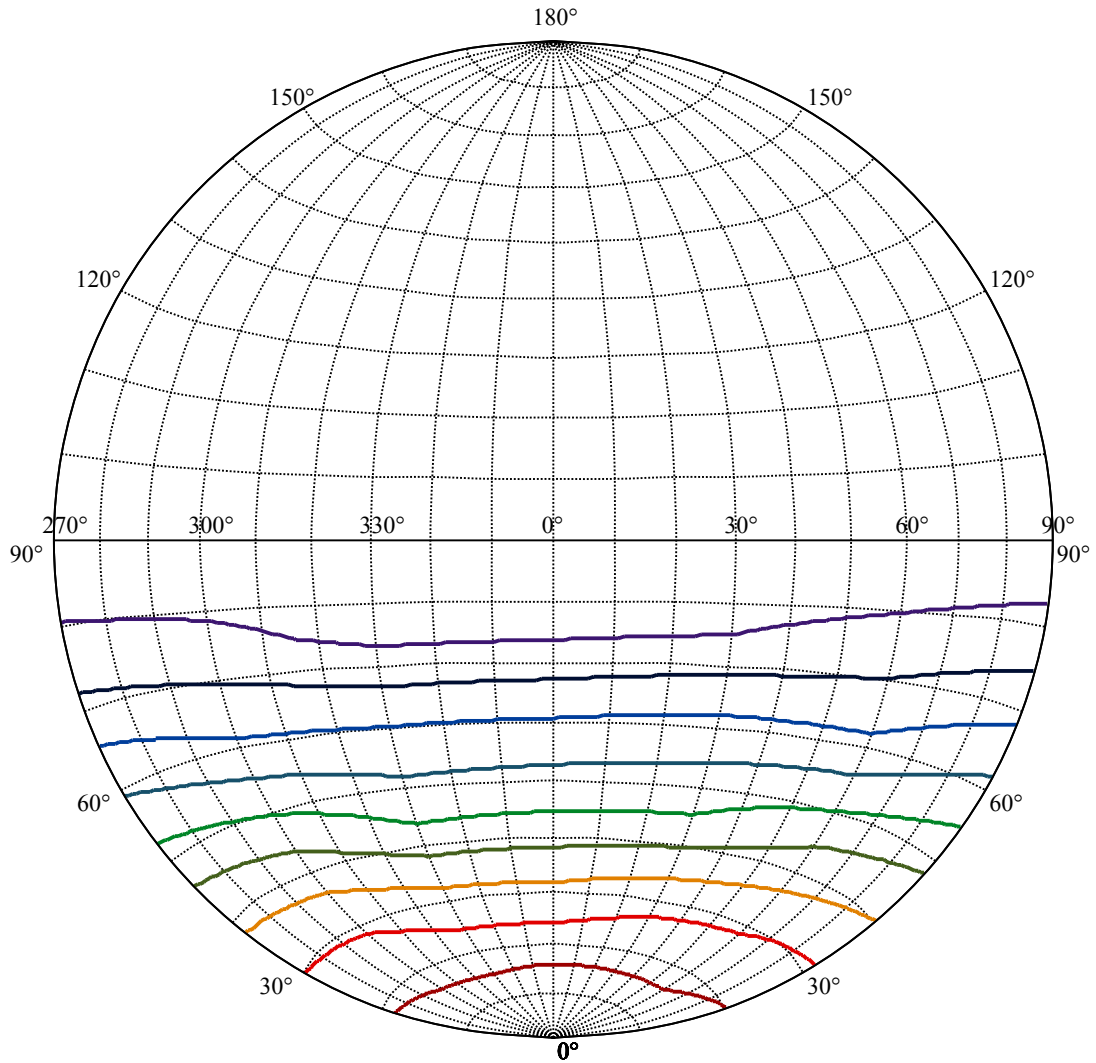


Max , Ave

Beam angle of C0 plane 97.02



(10%Imax) 254.415	—
(20%Imax) 508.831	—
(30%Imax) 763.246	—
(40%Imax) 1017.66	—
(50%Imax) 1272.08	—
(60%Imax) 1526.49	—
(70%Imax) 1780.91	—
(80%Imax) 2035.32	—
(90%Imax) 2289.74	—












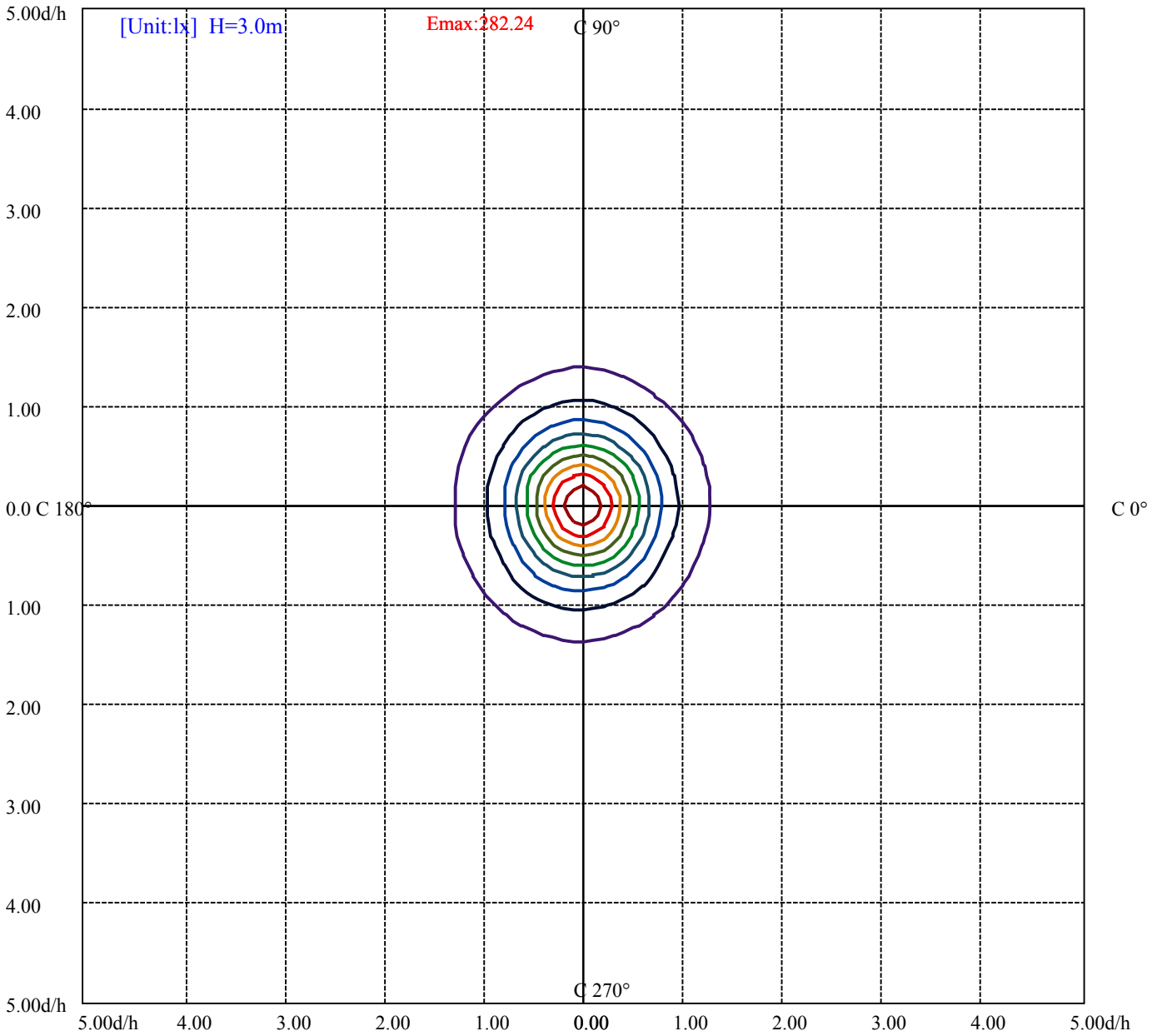
House

[Unit:cd]

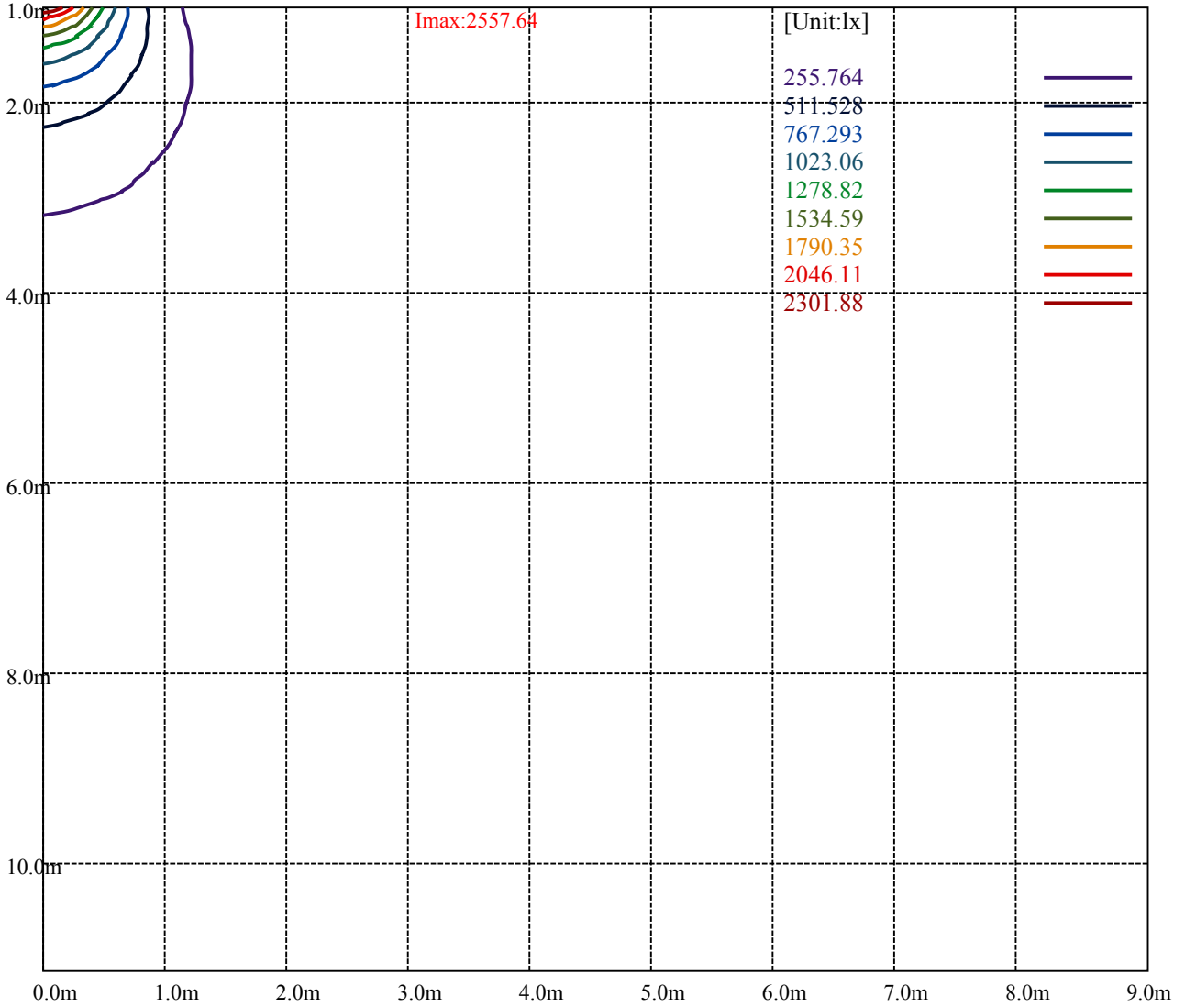
Road

I_{max}:2557.64

(10%I _{max}) 255.764	
(20%I _{max}) 511.528	
(30%I _{max}) 767.293	
(40%I _{max}) 1023.06	
(50%I _{max}) 1278.82	
(60%I _{max}) 1534.59	
(70%I _{max}) 1790.35	
(80%I _{max}) 2046.11	
(90%I _{max}) 2301.88	



(10%Emax) 28.22355	—
(20%Emax) 56.44711	—
(30%Emax) 84.67067	—
(40%Emax) 112.8944	—
(50%Emax) 141.1178	—
(60%Emax) 169.3411	—
(70%Emax) 197.5644	—
(80%Emax) 225.7889	—
(90%Emax) 254.0122	—



Luminance Table

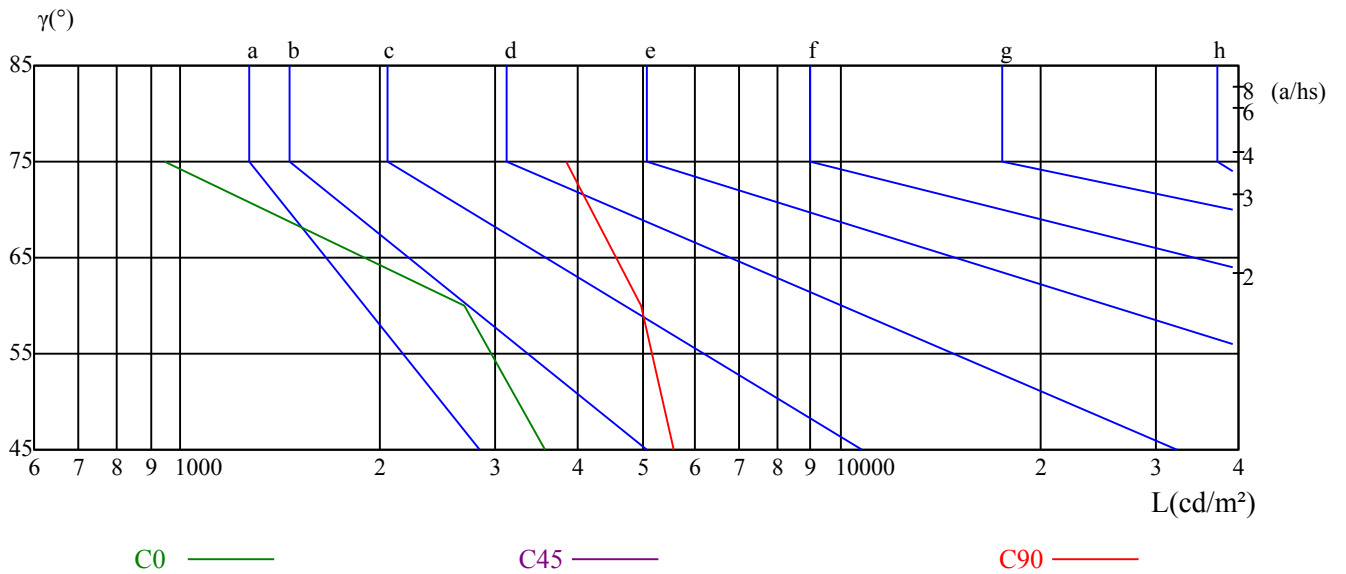
γ	45	50	55	60	65	70	75	80	85
C0	3562	0	0	2689	0	0	945	0	0
C45	0	0	0	0	0	0	0	0	0
C90	5595	0	0	4967	0	0	3844	0	0

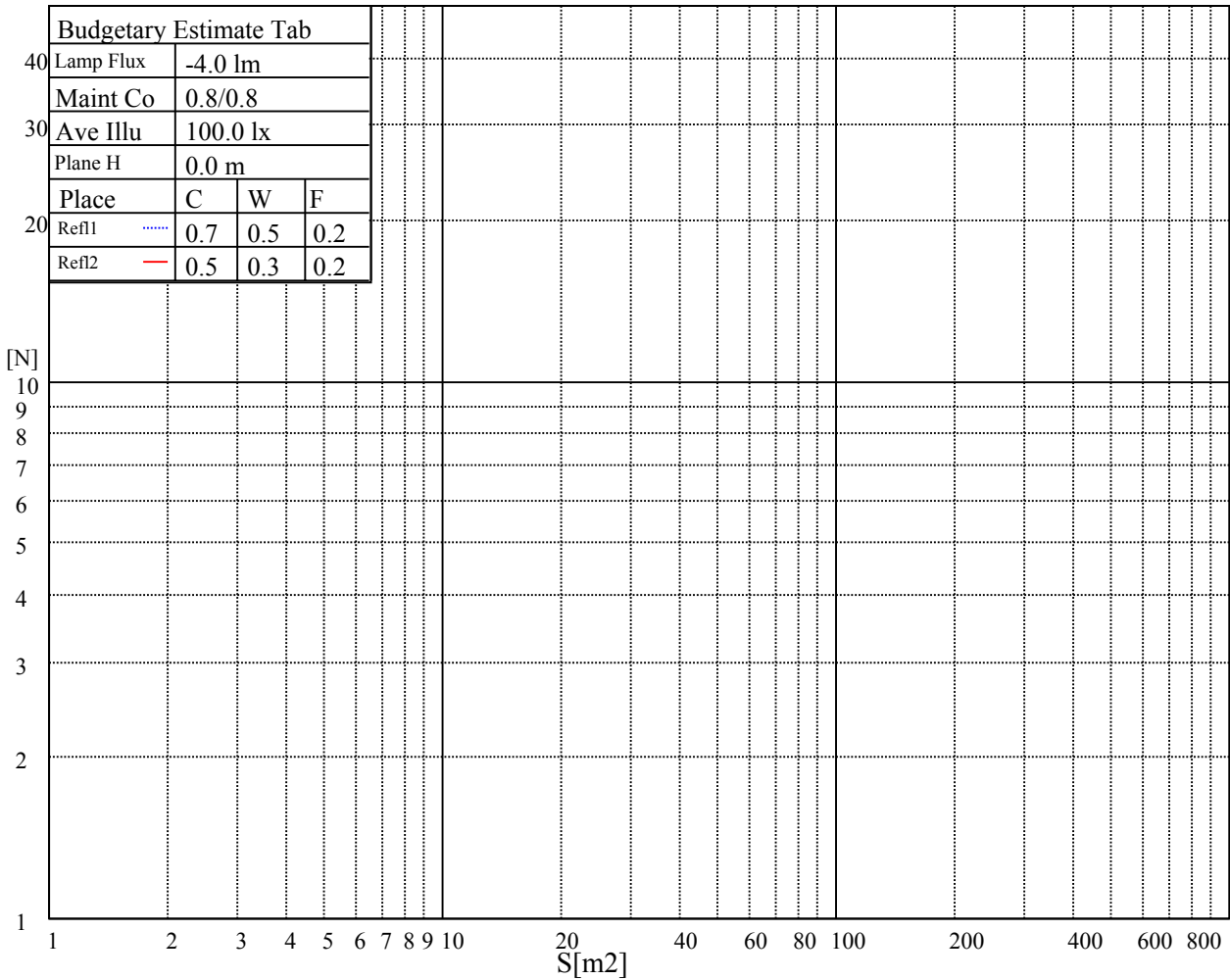
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	2108	4515	0	0	0	0

Glare Table

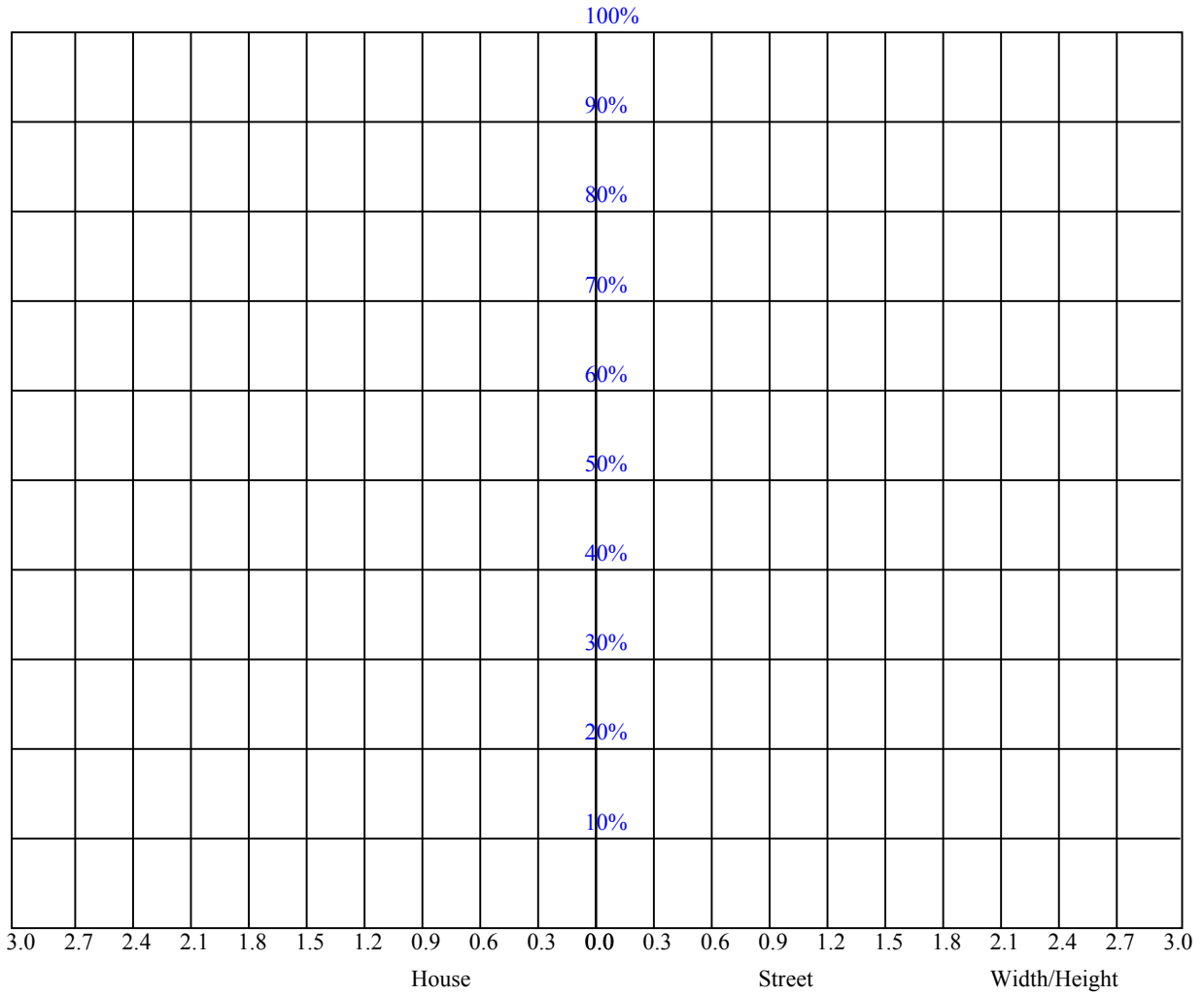
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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	2557.64	2335.02	1861.47	1269.59	795.85	203.45	12.27	11.01	12.54
30.0	2545.96	2321.49	1976.30	1293.90	855.13	256.74	16.65	13.15	14.60
60.0	2534.28	2317.63	2015.87	1513.50	834.14	363.62	15.77	13.73	15.09
90.0	2533.31	2415.20	2096.93	1645.81	1091.26	500.84	23.17	13.54	14.70
120.0	2544.02	2377.52	2056.40	1606.05	907.60	430.33	16.65	13.05	14.30
150.0	2546.94	2373.66	2062.19	1398.89	958.13	329.48	16.84	12.56	13.91
180.0	2557.64	2355.30	1886.46	1305.56	838.80	215.60	15.87	12.47	14.11
210.0	2545.96	2335.02	1926.32	1341.24	880.00	264.13	13.53	10.91	12.15
240.0	2534.28	2367.86	2035.17	1602.06	889.14	399.02	14.41	11.59	12.44
270.0	2533.31	2380.42	2039.03	1571.73	988.54	396.59	13.14	12.17	13.03
300.0	2544.02	2321.49	2015.87	1486.38	813.34	333.18	13.53	12.37	13.42
330.0	2546.94	2307.00	1893.02	1231.78	776.42	184.97	12.37	11.78	13.03
360.0	2557.64	2335.02	1861.47	1269.59	795.85	203.45	12.27	11.01	12.54
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	14.58	16.81	18.95	20.00					
30.0	16.54	18.57	19.92	20.19					
60.0	16.83	18.76	20.02	20.10					
90.0	16.44	18.47	19.73	19.90					
120.0	16.14	18.08	19.53	20.00					
150.0	15.85	17.79	19.34	19.80					
180.0	16.05	17.98	19.43	20.00					
210.0	14.19	16.52	18.95	20.19					
240.0	14.38	16.61	18.85	20.10					
270.0	14.97	17.20	19.14	19.90					
300.0	15.07	17.10	18.95	20.00					
330.0	15.07	17.10	18.95	19.80					
360.0	14.58	16.81	18.95	20.00					