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LumCAT: 2-1567-M  
Luminaire:BJB47.319.2011  
Report No: 2017060607-1  
Test No: 2017060607  
LampCAT: luxeon 1208  
Lamp flux(lm): 3235.0  
Number of Lamps: 1  
Length(mm): 70  
Phm Type: C

Voltage(V): 219.4000  
Current(A): 0.1350  
Power (W): 28.0000  
PF: 0.9430  
Ballast type:  
Width(mm): 70  
Height(mm):0

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### Photometric Results

Lumens(lm): 2952.69  
Efficiency(%): 91.27%  
Lumens(lm)/Power(W): 105.45  
Central intensity(cd): 8552.324  
Maximum intensity(cd): 8552.324  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=27.9  
                                  [C90/270]Total=27.9  
Field angle(10%Imax): [C0/180]Total=66.9  
                                  [C90/270]Total=66.9  
Maximum s/h(1/2): C0\_180=0.47 C90\_270=0.47  
Maximum s/h(1/4): C0\_180=0.47 C90\_270=0.47  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 92.77%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.261%

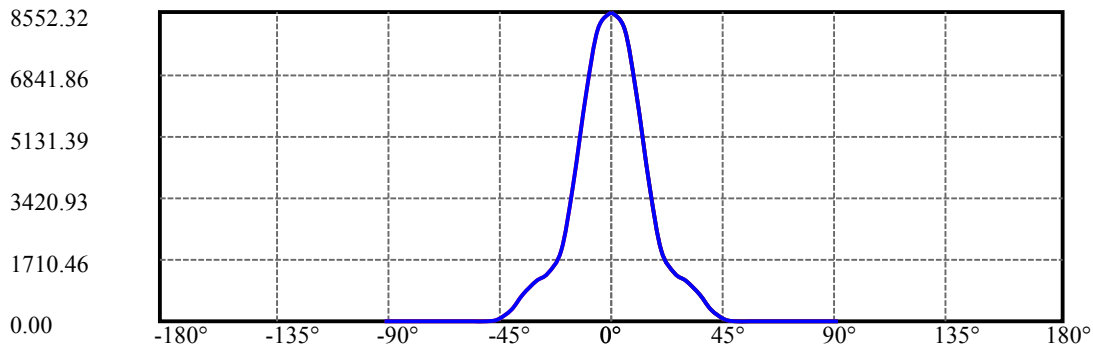
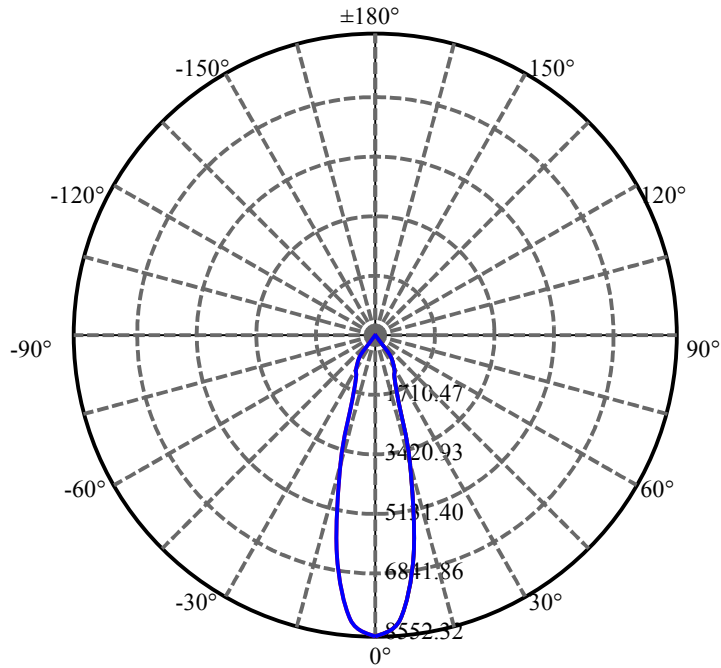
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8552.324	51.145	51.145	1.581%	1.732%
5.0	8091.226	386.545	437.689	11.949%	14.823%
10.0	6312.767	600.868	1038.558	18.574%	35.173%
15.0	3742.252	530.907	1569.465	16.411%	53.154%
20.0	1947.551	365.115	1934.58	11.286%	65.519%
25.0	1342.550	311.006	2245.586	9.614%	76.052%
30.0	1108.623	303.839	2549.425	9.392%	86.342%
35.0	743.592	233.784	2783.209	7.227%	94.260%
40.0	295.921	104.264	2887.473	3.223%	97.791%
45.0	30.997	12.014	2899.487	.371%	98.198%
50.0	16.806	7.057	2906.544	.218%	98.437%
55.0	13.799	6.196	2912.739	.192%	98.647%
60.0	12.828	6.090	2918.829	.188%	98.853%
65.0	12.243	6.082	2924.911	.188%	99.059%
70.0	11.810	6.083	2930.994	.188%	99.265%
75.0	11.582	6.132	2937.126	.190%	99.473%
80.0	11.576	6.249	2943.375	.193%	99.685%
85.0	11.383	6.216	2949.591	.192%	99.895%
90.0	11.307	3.099	2952.69	.096%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2549.42	78.81%	86.34%
0-40	2887.47	89.26%	97.79%
0-60	2918.83	90.23%	98.85%
0-90	2949.59	91.18%	99.90%
0-120	2949.59	91.18%	99.90%
0-180	2952.69	91.27%	100.00%
60-90	36.85	1.14%	1.25%
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%
0-26.92	2362.15	73.02%	80.00%

## ZONAL LUMEN SUMMARY

0-10	1038.56
10-20	896.02
20-30	614.84
30-40	338.05
40-50	19.07
50-60	12.29
60-70	12.17
70-80	12.38
80-90	6.22
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: —————

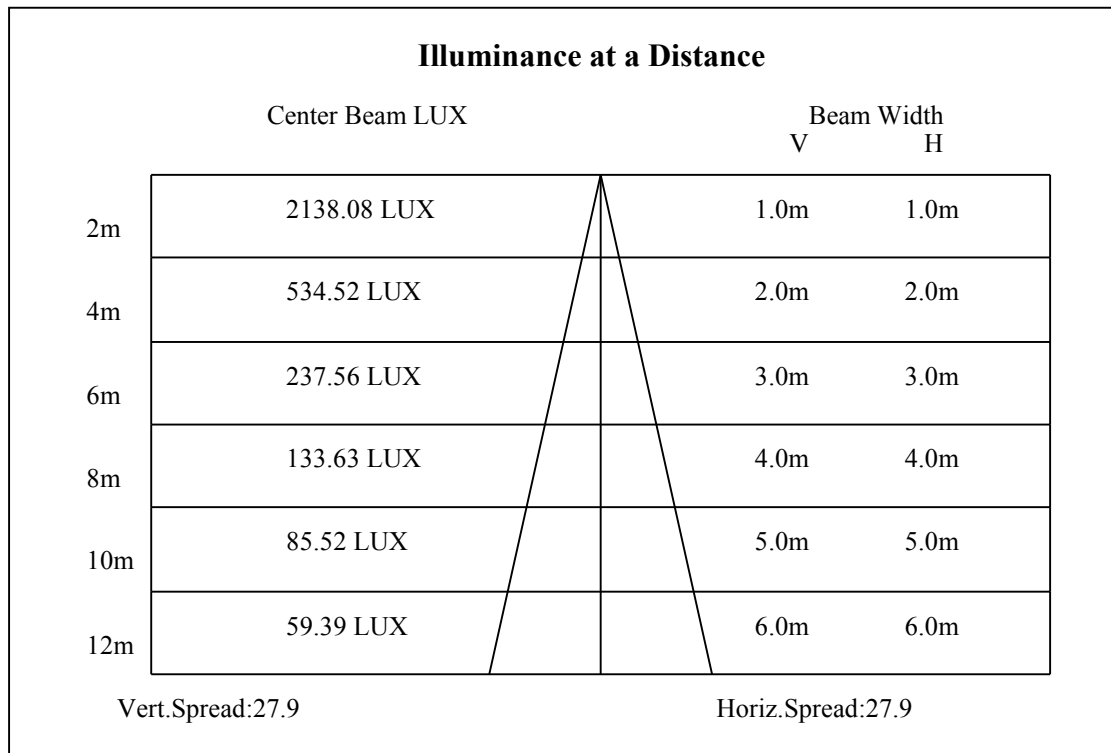
C90/C270: —————

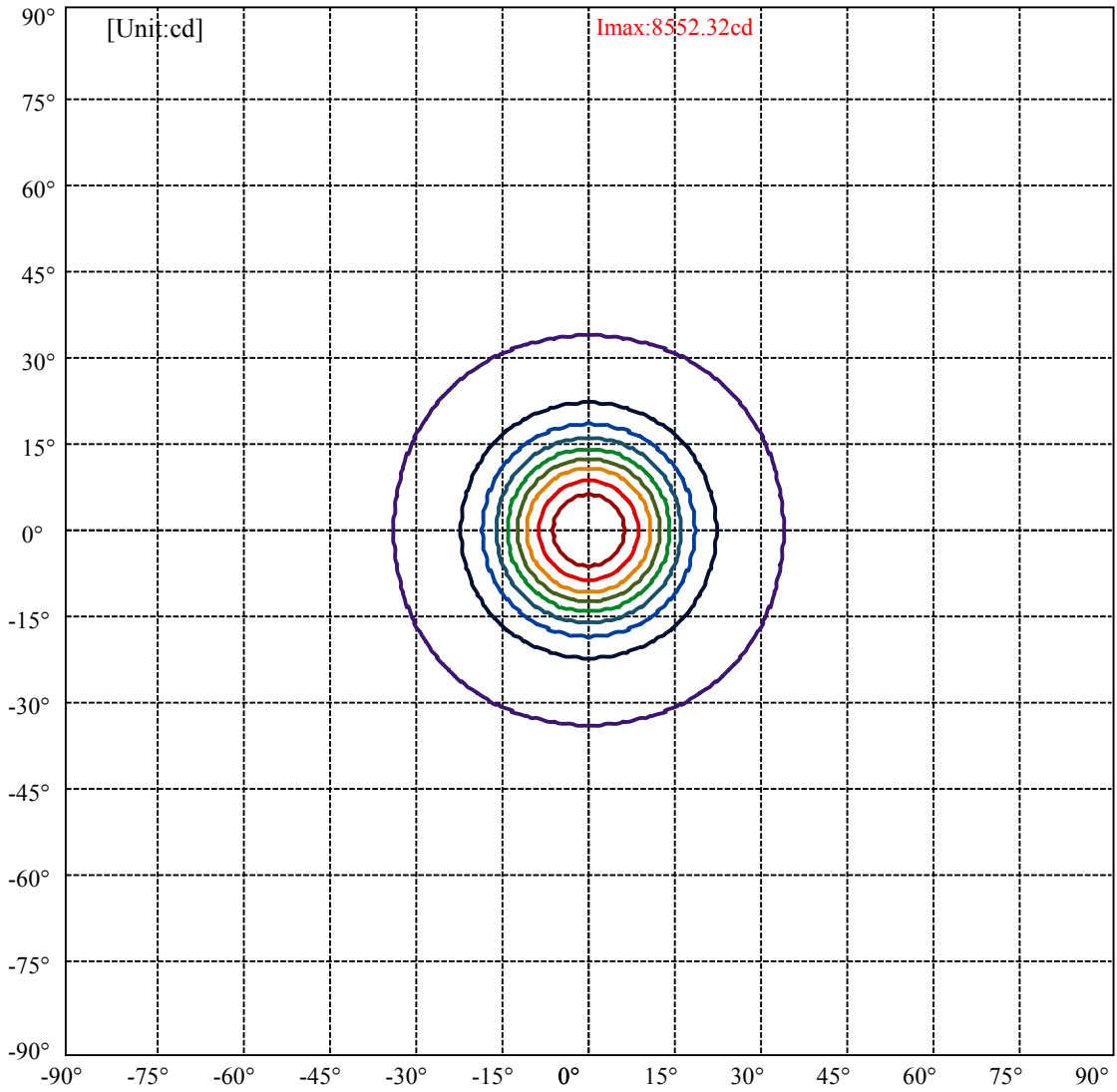
Field angle(10%Imax):C0/180Left:33.5 Right:33.5

:C90/270Left:33.5 Right:33.5

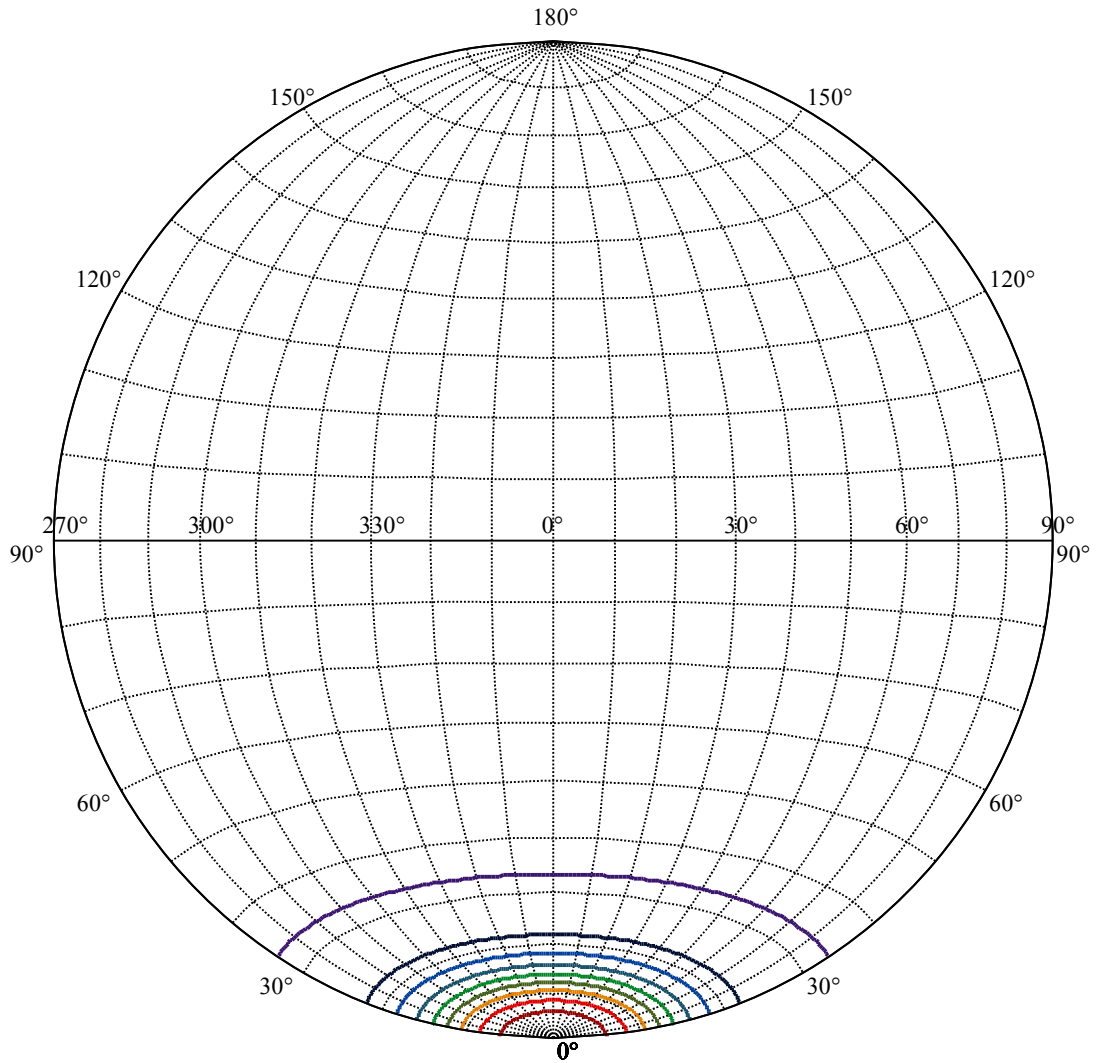
Beam Angle(50%Imax):C0/180Left:14.0 Right:14.0

:C90/270Left:14.0 Right:14.0





(10%Imax) 855.232	—
(20%Imax) 1710.46	—
(30%Imax) 2565.7	—
(40%Imax) 3420.93	—
(50%Imax) 4276.16	—
(60%Imax) 5131.39	—
(70%Imax) 5986.63	—
(80%Imax) 6841.86	—
(90%Imax) 7697.09	—












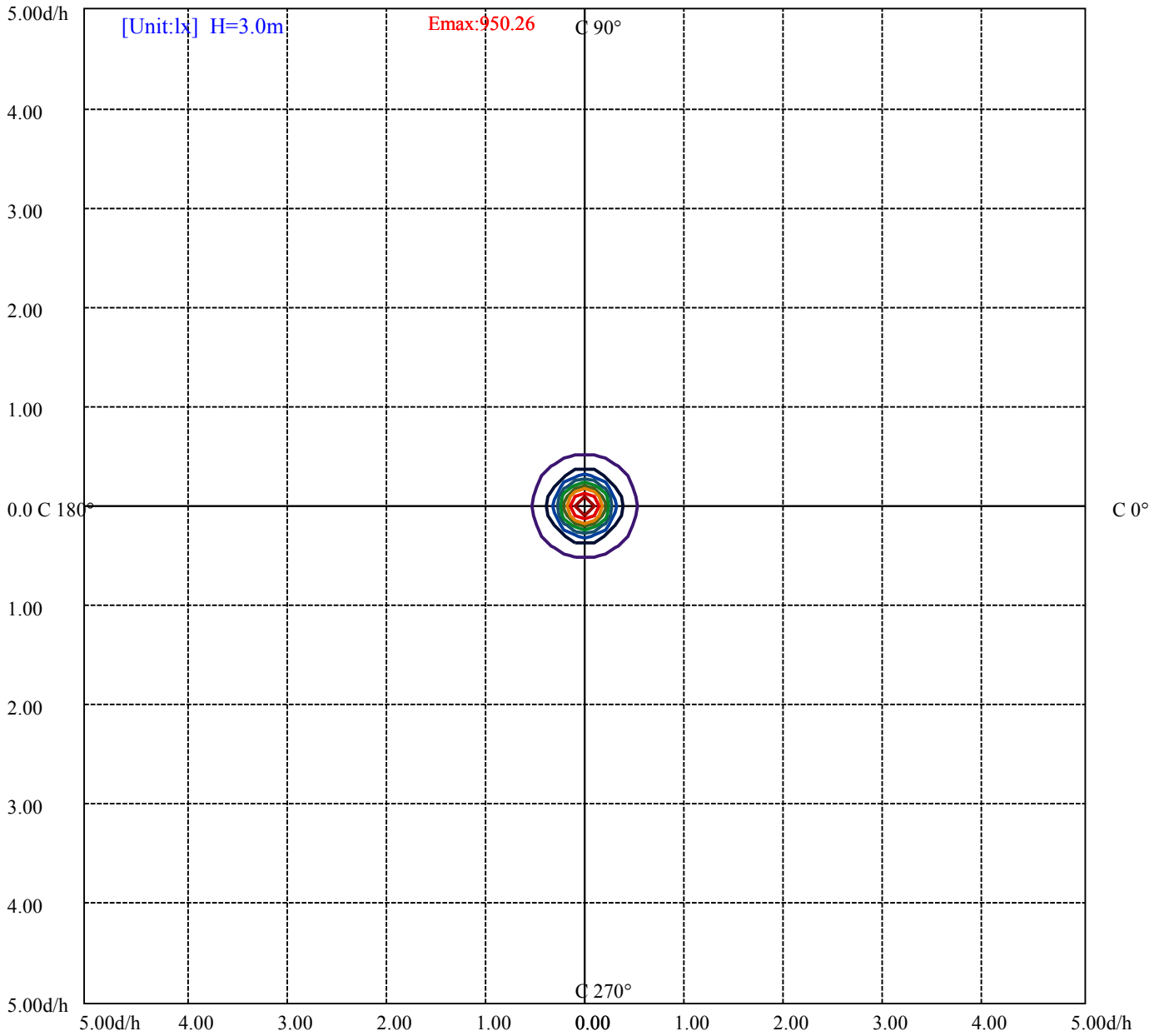
House

[Unit:cd]

Road

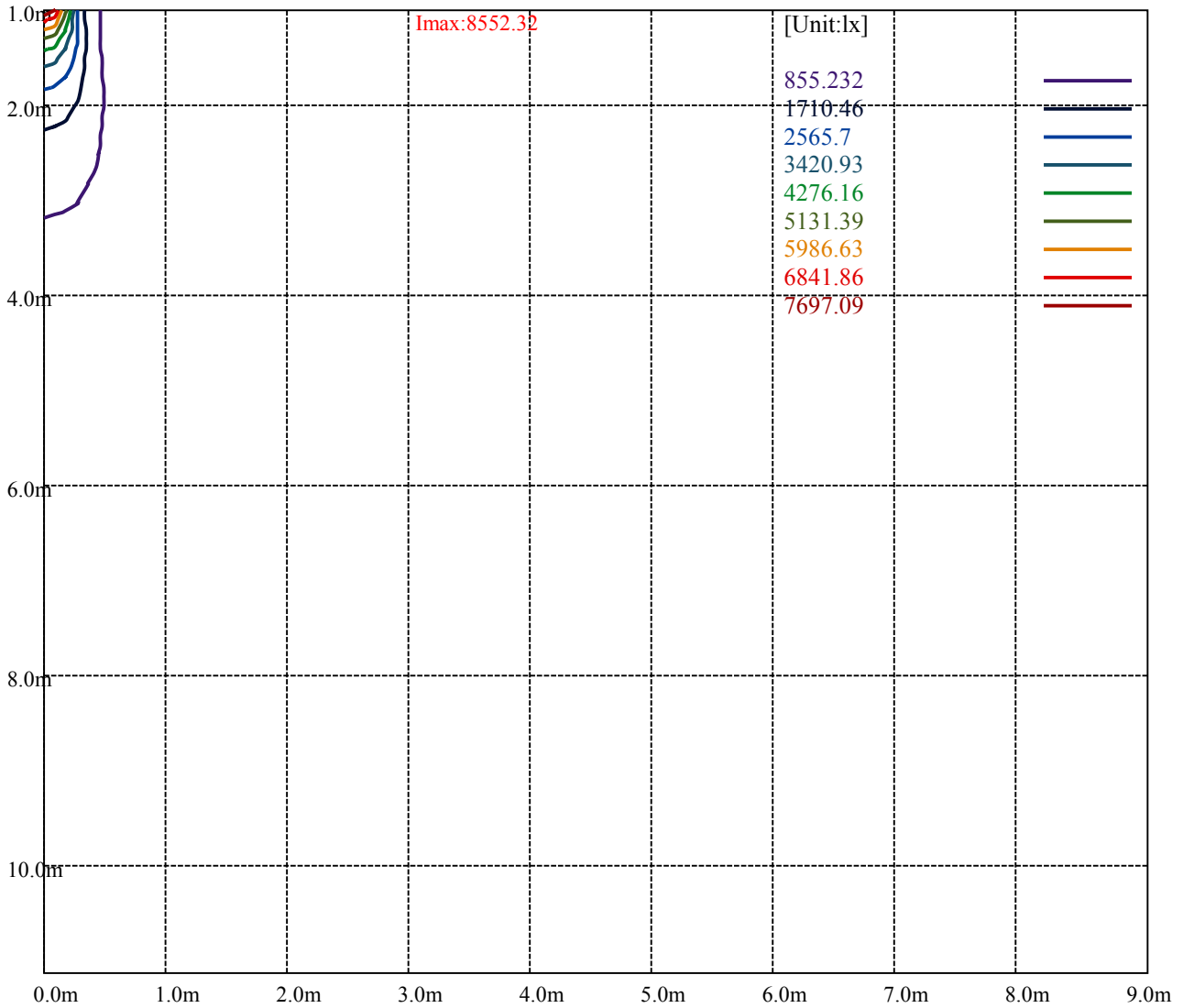
**Imax:8552.32**

(10%Imax)	855.232	
(20%Imax)	1710.46	
(30%Imax)	2565.7	
(40%Imax)	3420.93	
(50%Imax)	4276.16	
(60%Imax)	5131.39	
(70%Imax)	5986.63	
(80%Imax)	6841.86	
(90%Imax)	7697.09	



(10%Emax) 95.02567	—
(20%Emax) 190.0511	—
(30%Emax) 285.0767	—
(40%Emax) 380.1022	—
(50%Emax) 475.1289	—
(60%Emax) 570.1545	—
(70%Emax) 665.18	—
(80%Emax) 760.2056	—
(90%Emax) 855.2311	—





Luminance Table

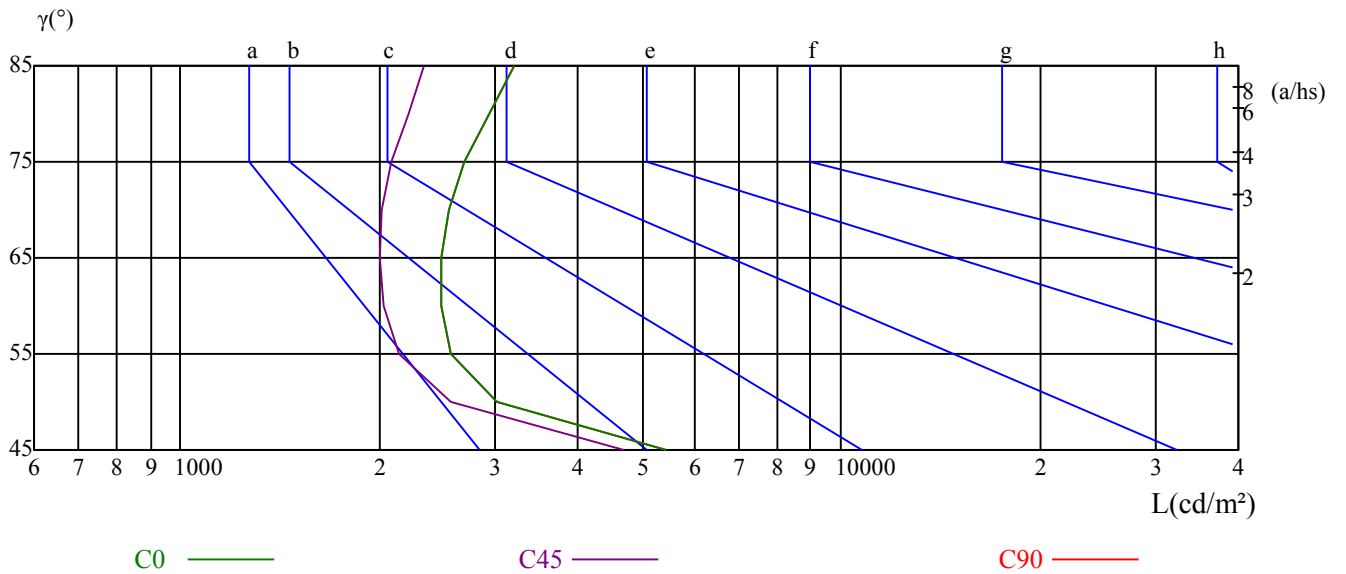
$\gamma$	45	50	55	60	65	70	75	80	85
C0	5445	3021	2560	2477	2486	2547	2687	2928	3193
C45	4686	2561	2136	2034	2004	2015	2079	2210	2340
C90	5445	3021	2560	2477	2486	2547	2687	2928	3193

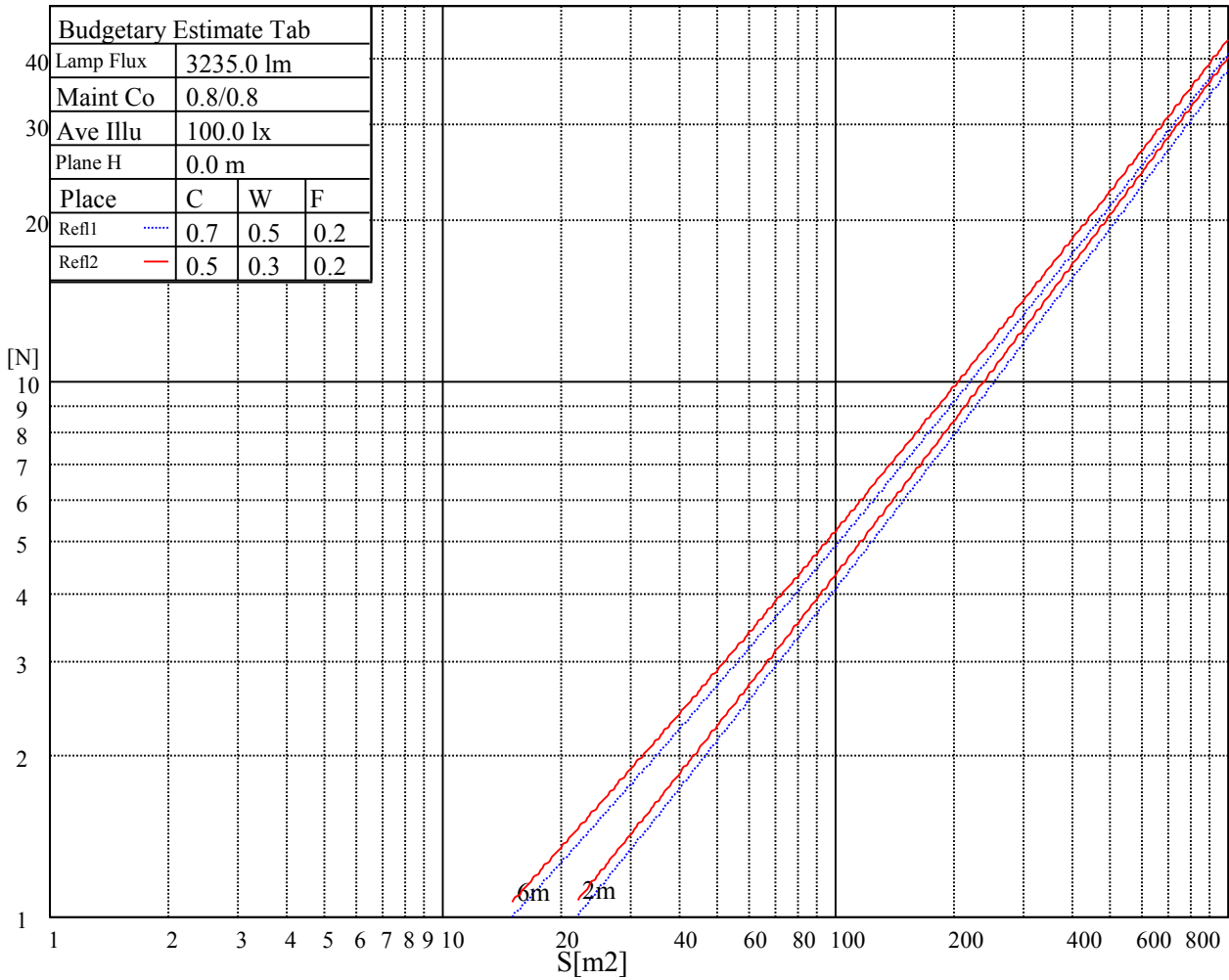
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5912	5912	5912	9133	9133	9133	26654	26654	26654

Glare Table

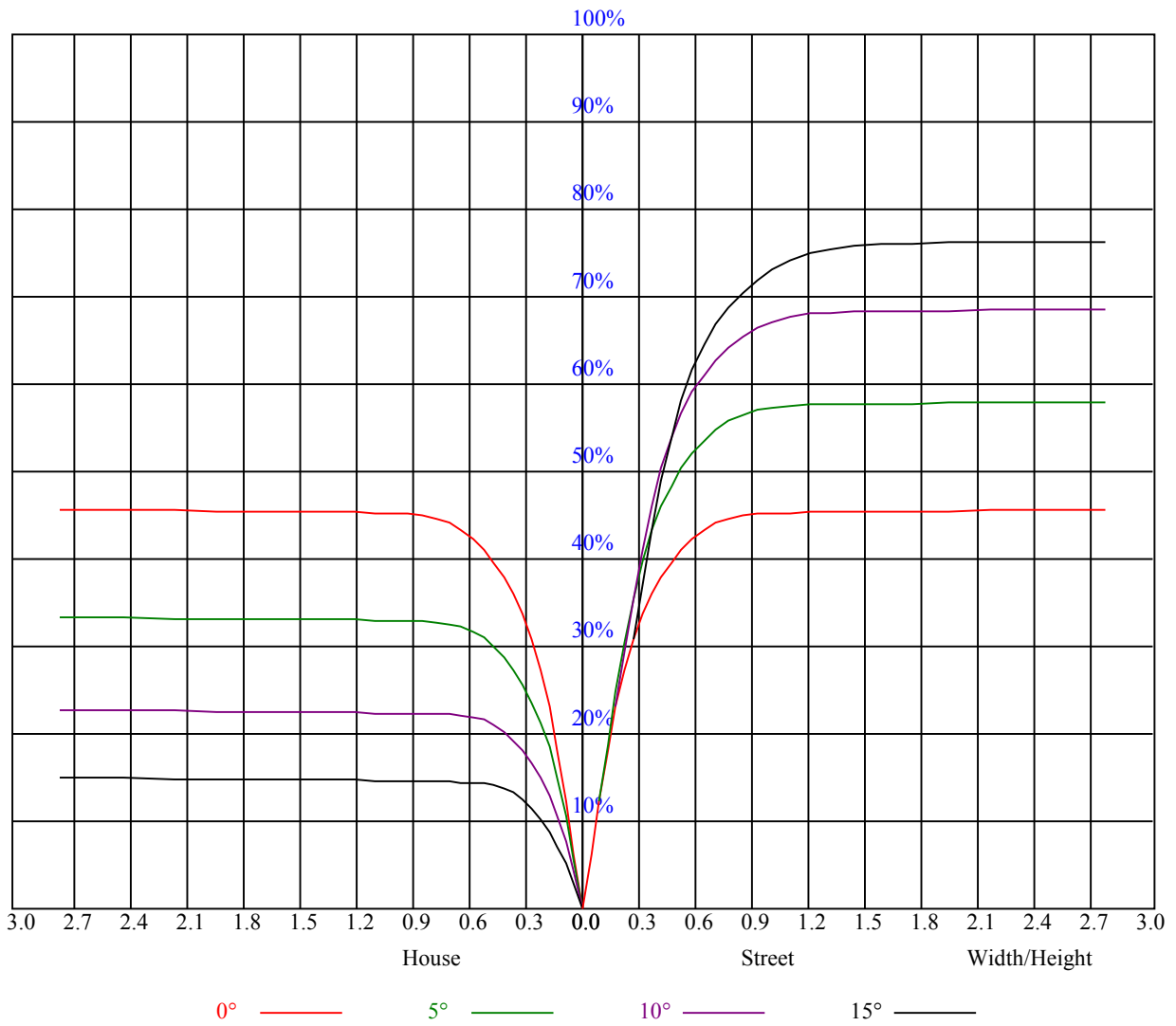
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOFC=20 CU															
0	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.86
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.92	0.88	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.78
4	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.75
5	0.84	0.79	0.76	0.83	0.79	0.75	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.72
6	0.80	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.69	0.77	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.74	0.71	0.68	0.67
8	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61



## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	8629.54	8257.91	6216.97	3634.82	1835.58	1333.47	1113.79	737.76	278.03
45.0	8410.97	8548.06	7659.45	5206.68	2701.07	1515.15	1229.96	1001.48	511.47
90.0	8571.73	8283.79	6837.45	4210.16	2054.70	1396.78	1093.86	834.77	367.17
135.0	8597.06	8414.82	6983.35	4378.64	2151.05	1416.05	1166.65	868.24	434.39
180.0	8629.54	8219.37	6421.23	3824.77	1952.30	1346.13	1096.61	783.73	284.48
225.0	8410.97	7287.27	4955.08	2448.91	1529.47	1203.53	979.62	464.79	57.20
270.0	8571.73	7875.82	5861.30	3205.38	1695.74	1265.75	1100.58	645.26	299.51
315.0	8597.06	7842.78	5567.30	3028.65	1660.50	1263.54	1087.91	612.72	135.11
360.0	8629.54	8257.91	6216.97	3634.82	1835.58	1333.47	1113.79	737.76	278.03

C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	26.70	16.30	13.76	12.77	12.17	11.78	11.56	11.45	11.40
45.0	60.34	20.65	14.70	13.38	12.66	12.00	11.67	11.45	11.34
90.0	31.05	17.51	13.93	12.88	12.28	11.84	11.67	11.84	11.45
135.0	31.44	18.00	14.04	12.99	12.33	11.95	11.67	12.22	11.56
180.0	28.35	16.79	13.93	12.94	12.39	11.89	11.62	11.51	11.45
225.0	20.65	14.76	13.27	12.55	11.95	11.62	11.45	11.34	11.23
270.0	24.89	15.42	13.43	12.61	12.06	11.73	11.51	11.40	11.29
315.0	24.56	15.03	13.32	12.50	12.11	11.67	11.51	11.40	11.34
360.0	26.70	16.30	13.76	12.77	12.17	11.78	11.56	11.45	11.40

C/ $\gamma$ (°)	90.0
0.0	11.40
45.0	11.29
90.0	11.23
135.0	11.34
180.0	11.34
225.0	11.23
270.0	11.29
315.0	11.34
360.0	11.40