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Nata

LumCAT: 2-2164-M
Luminaire: BJB47.360.5080
Report No: NATA0100
Test No: GC2020022014
LampCAT: NICHIA NFDWJ130B-V3
Lamp flux(lm): 2906.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 36.3600
Current(A): 0.7000
Power (W): 25.2730
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 2370.17
Efficiency(%): 81.56%
Lumens(lm)/Power(W): 93.78
Central intensity(cd): 10208.670
Maximum intensity(cd): 10208.670
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=25.4
 [C90/270]Total=25.4
Field angle(10%Imax): [C0/180]Total=47.7
 [C90/270]Total=47.7
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.44 C90_270=0.44
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 81.56%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.105%

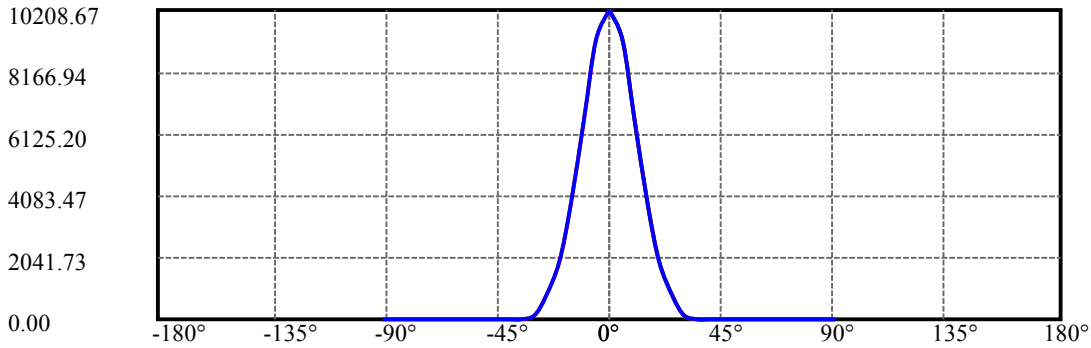
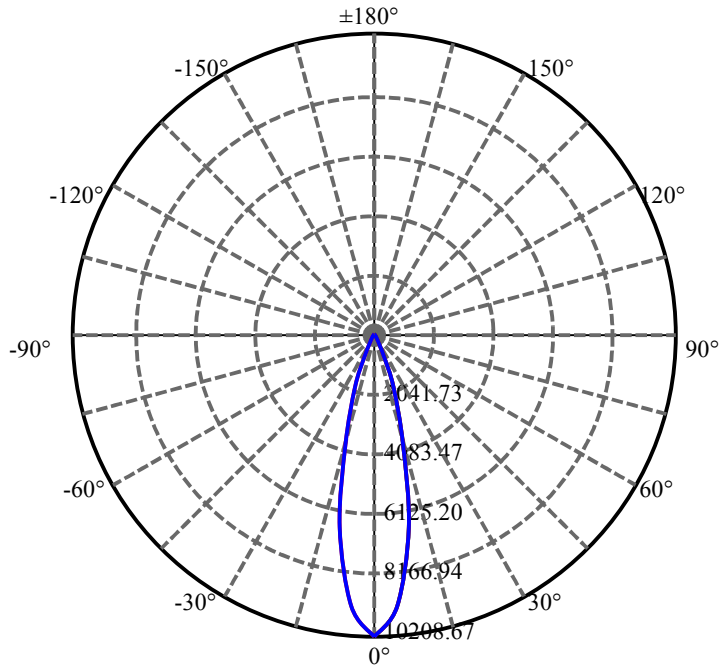
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10208.672	0.000	0	.000%	.000%
5.0	9184.992	231.846	231.846	7.978%	9.782%
10.0	6629.203	565.724	797.569	19.467%	33.650%
15.0	3820.641	619.878	1417.447	21.331%	59.804%
20.0	1902.881	471.699	1889.146	16.232%	79.705%
25.0	755.965	278.864	2168.009	9.596%	91.471%
30.0	112.613	109.919	2277.929	3.782%	96.108%
35.0	16.882	19.069	2296.998	.656%	96.913%
40.0	14.963	5.313	2302.311	.183%	97.137%
45.0	14.055	5.373	2307.684	.185%	97.364%
50.0	13.634	5.595	2313.279	.193%	97.600%
55.0	13.289	5.854	2319.132	.201%	97.847%
60.0	13.170	6.116	2325.248	.210%	98.105%
65.0	14.119	6.634	2331.882	.228%	98.384%
70.0	17.859	8.097	2339.979	.279%	98.726%
75.0	19.751	9.831	2349.81	.338%	99.141%
80.0	12.720	8.688	2358.498	.299%	99.507%
85.0	10.216	6.232	2364.73	.214%	99.770%
90.0	9.661	5.443	2370.173	.187%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2277.93	78.39%	96.11%
0-40	2302.31	79.23%	97.14%
0-60	2325.25	80.02%	98.10%
0-90	2364.73	81.37%	99.77%
0-120	2364.73	81.37%	99.77%
0-180	2370.17	81.56%	100.00%
60-90	45.60	1.57%	1.92%
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%
0-20.13	1896.14	65.25%	80.00%

ZONAL LUMEN SUMMARY

0-10	797.57
10-20	1091.58
20-30	388.78
30-40	24.38
40-50	10.97
50-60	11.97
60-70	14.73
70-80	18.52
80-90	6.23
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: —————

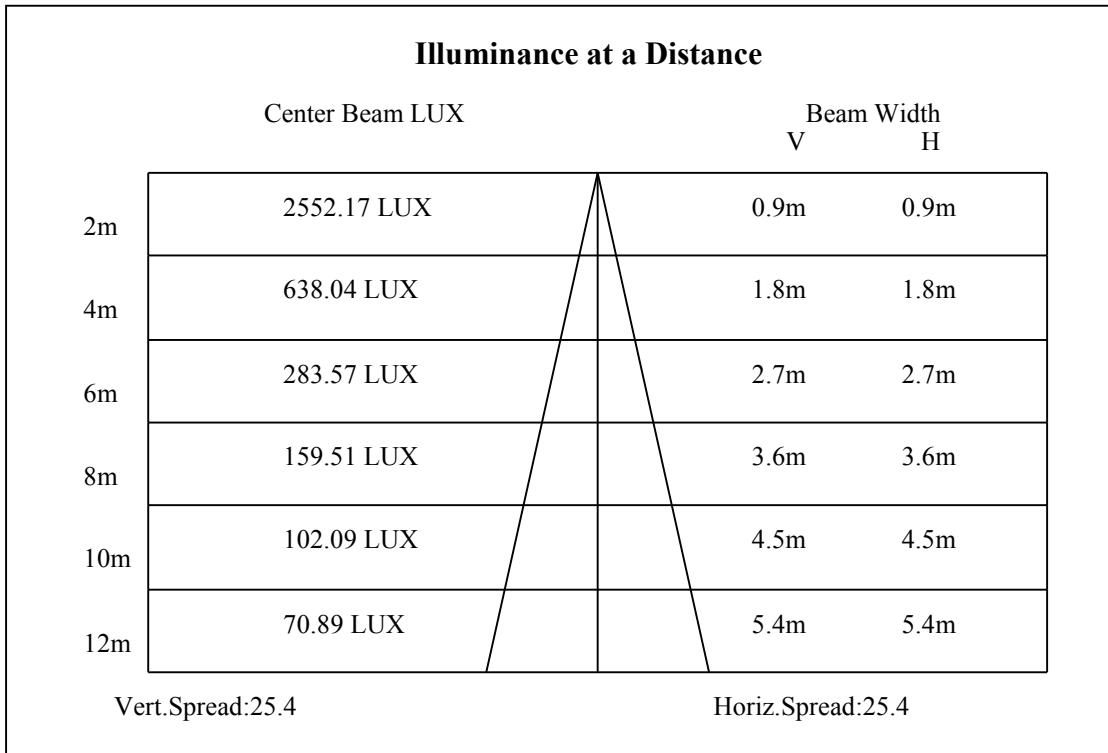
C90/C270: —————

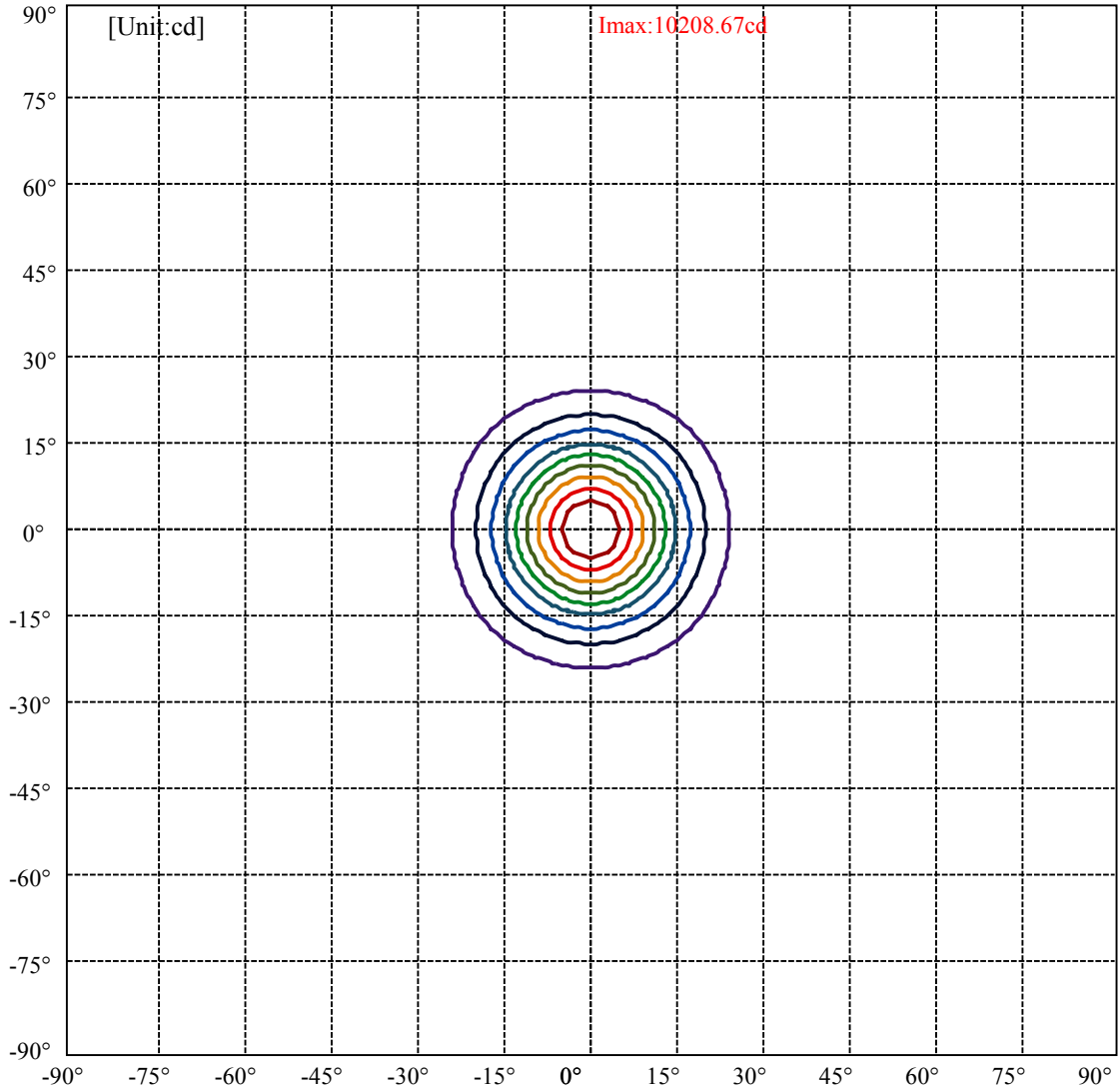
Field angle(10%Imax):C0/180Left:23.8 Right:23.8

:C90/270Left:23.8 Right:23.8

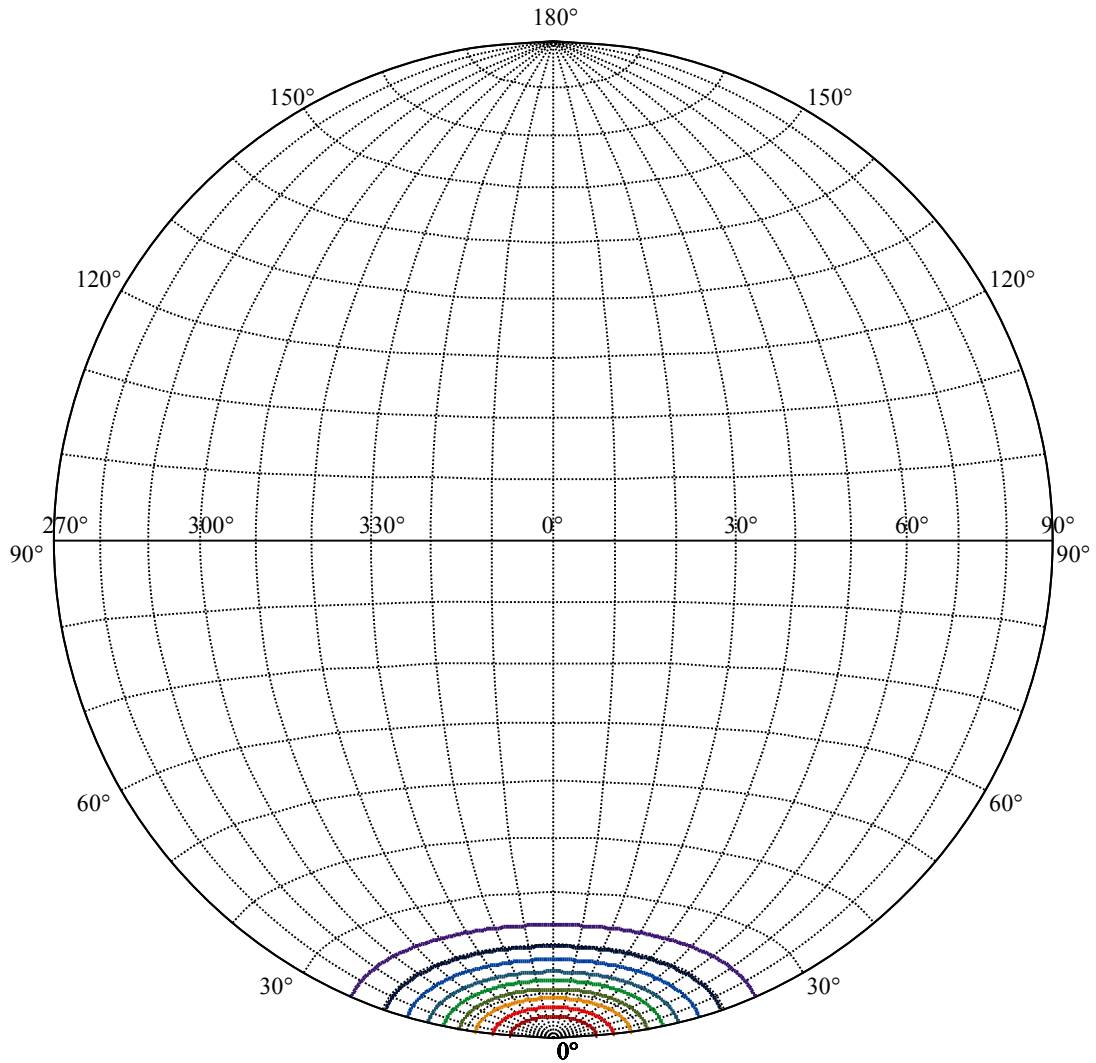
Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7

:C90/270Left:12.7 Right:12.7





(10%Imax) 1020.87	—
(20%Imax) 2041.73	—
(30%Imax) 3062.6	—
(40%Imax) 4083.47	—
(50%Imax) 5104.34	—
(60%Imax) 6125.2	—
(70%Imax) 7146.07	—
(80%Imax) 8166.94	—
(90%Imax) 9187.8	—



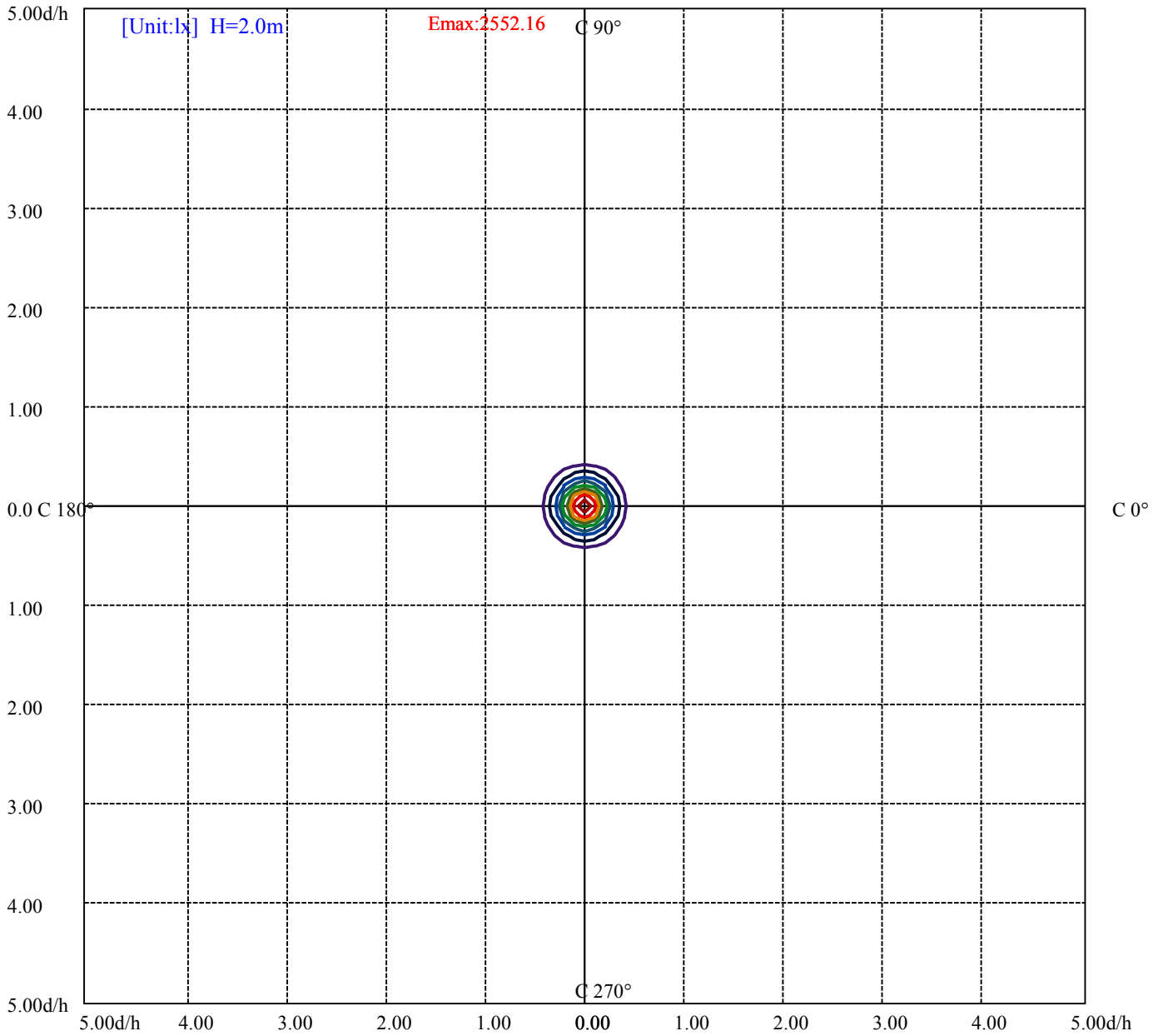
House

[Unit:cd]

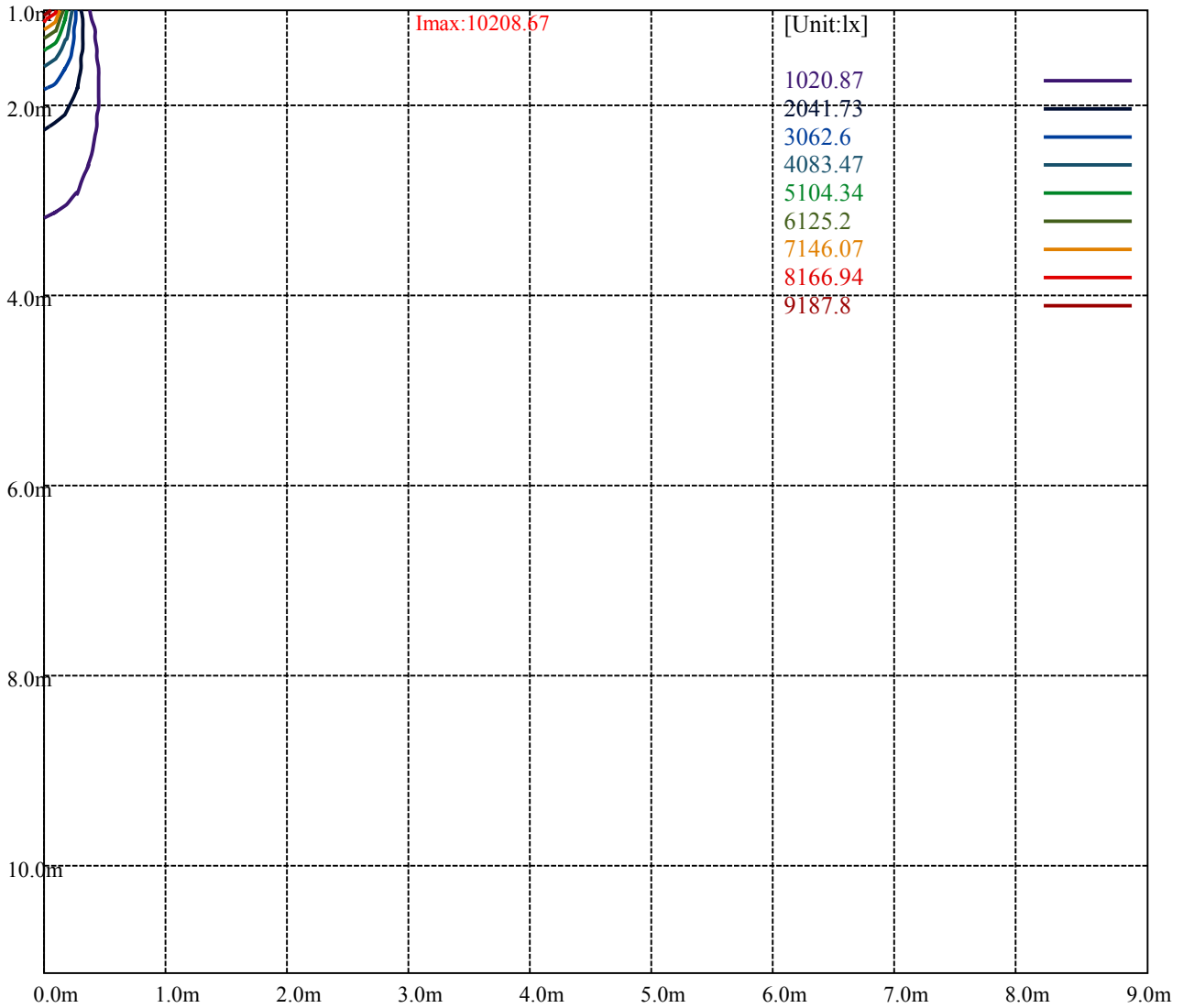
Road

Imax:10208.67

(10%Imax) 1020.87	—
(20%Imax) 2041.73	—
(30%Imax) 3062.6	—
(40%Imax) 4083.47	—
(50%Imax) 5104.34	—
(60%Imax) 6125.2	—
(70%Imax) 7146.07	—
(80%Imax) 8166.94	—
(90%Imax) 9187.8	—



(10%Emax) 255.215	—
(20%Emax) 510.4325	—
(30%Emax) 765.6475	—
(40%Emax) 1020.865	—
(50%Emax) 1276.08	—
(60%Emax) 1531.295	—
(70%Emax) 1786.512	—
(80%Emax) 2041.728	—
(90%Emax) 2296.945	—



Luminance Table

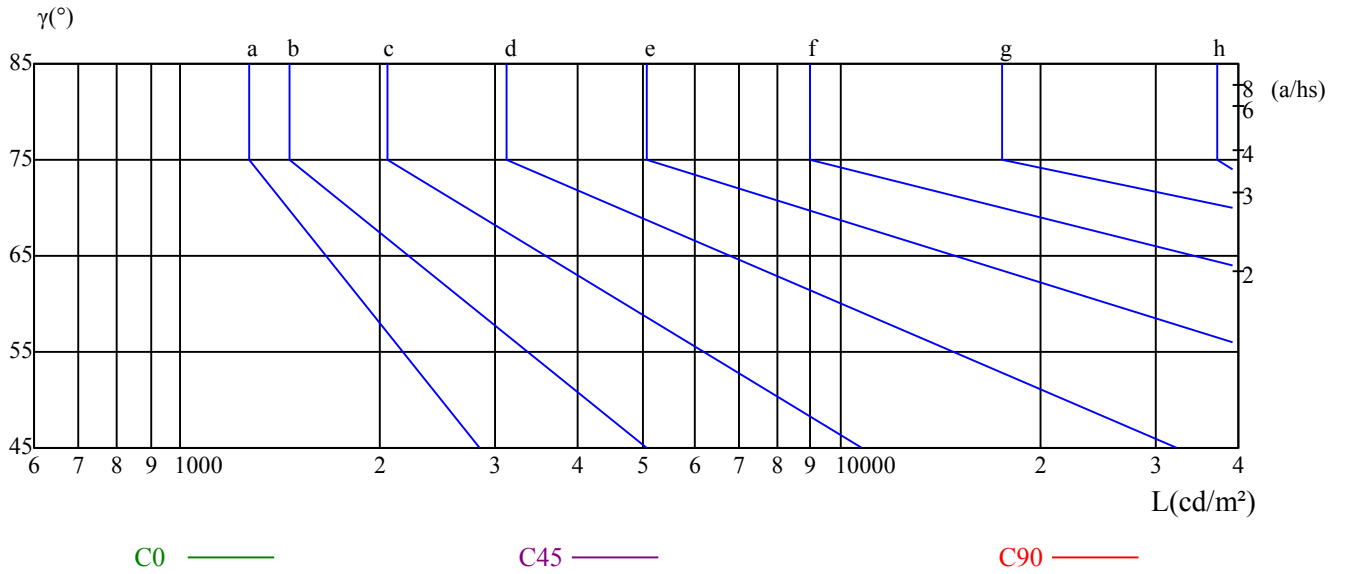
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

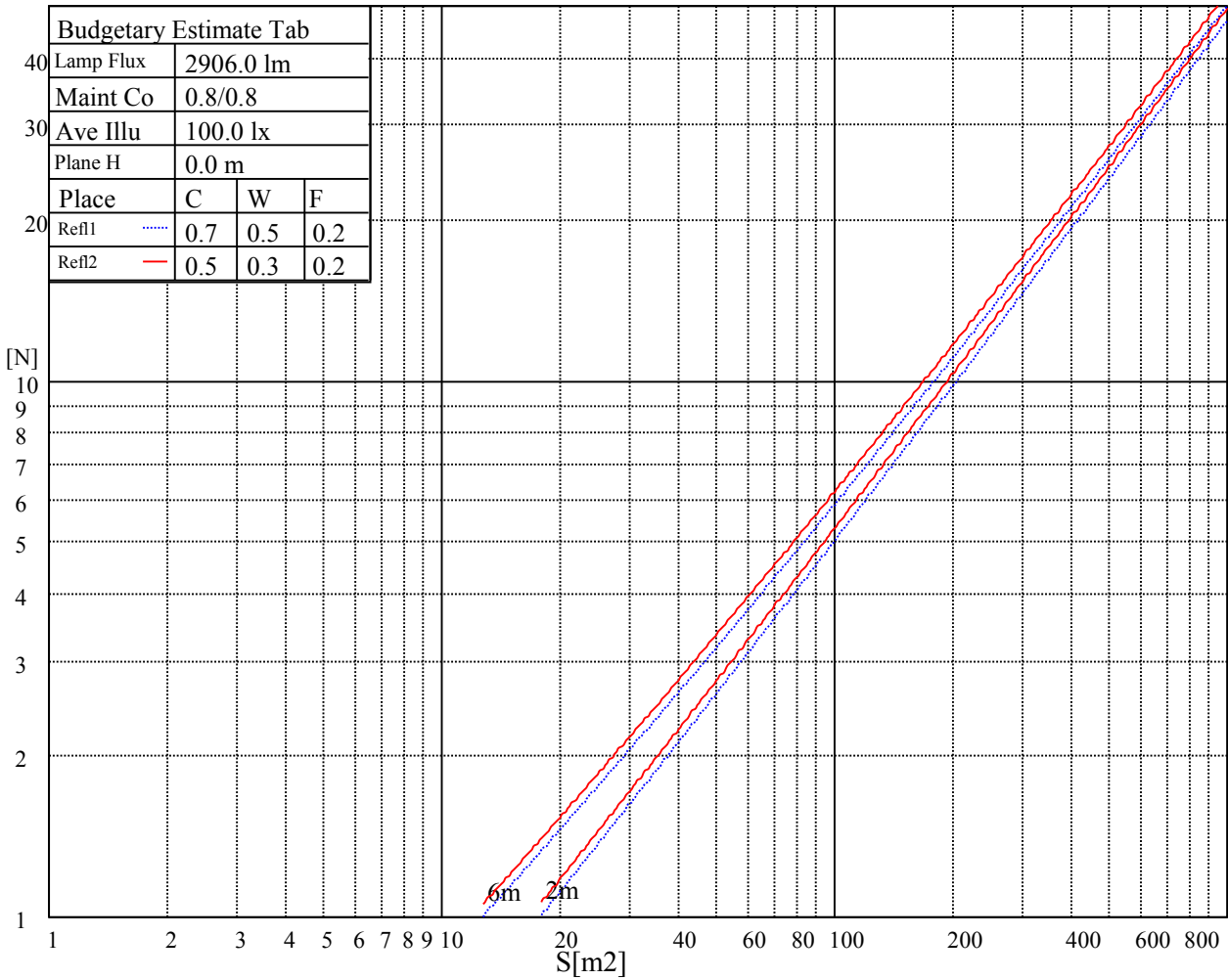
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

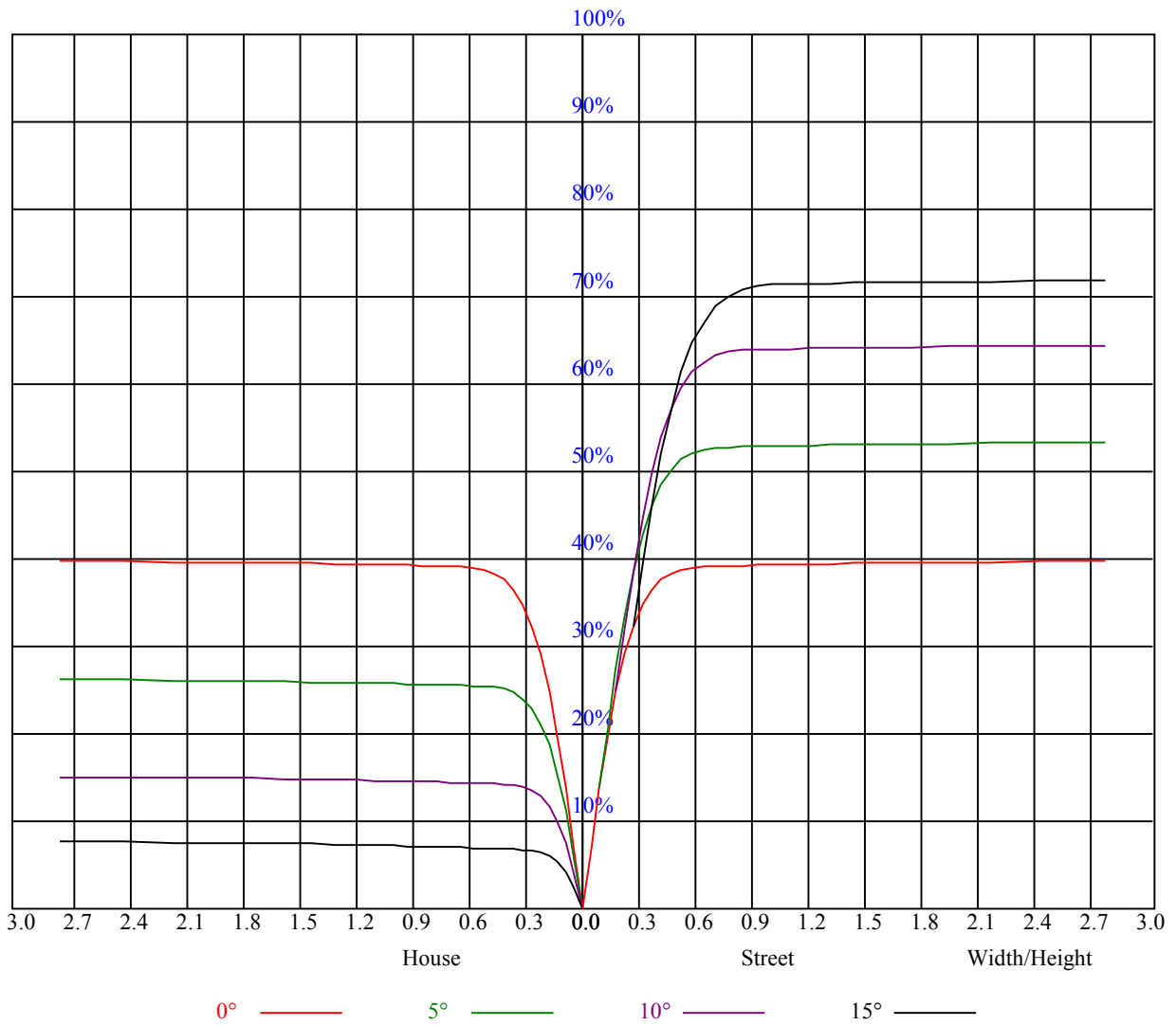
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOFC=20 CU															
0	0.97	0.97	0.97	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.82
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.85	0.82	0.86	0.83	0.82	0.83	0.81	0.80	0.81	0.79	0.78	0.79	0.78	0.76	0.75
3	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.77	0.75	0.74	0.73
4	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.73	0.71	0.69	0.68
6	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
8	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.64	0.67	0.65	0.63	0.62
9	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.66	0.63	0.62	0.61
10	0.66	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	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	10235.25	8849.81	6159.94	3354.19	1765.13	586.13	23.01	15.92	14.12
45.0	10195.88	9680.63	7466.06	4586.06	2372.06	1026.00	308.25	18.73	16.31
90.0	10277.44	9519.75	7164.00	4179.94	2142.00	932.12	130.11	18.56	16.37
135.0	10126.13	9798.75	7853.06	4807.13	2500.88	1194.19	291.94	17.61	15.41
180.0	10235.25	9585.00	7076.81	4208.63	2176.31	911.03	83.14	15.98	14.12
225.0	10195.88	8764.88	5796.00	3070.13	1405.13	476.21	20.59	16.43	14.68
270.0	10277.44	8873.44	6287.63	3427.88	1741.50	563.63	24.98	16.65	14.79
315.0	10126.13	8407.69	5230.13	2931.19	1120.05	358.43	18.90	15.19	13.89
360.0	10235.25	8849.81	6159.94	3354.19	1765.13	586.13	23.01	15.92	14.12
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	13.22	12.77	12.32	12.04	11.70	11.48	11.31	10.80	9.90
45.0	15.19	14.68	14.23	13.84	14.29	18.39	28.07	18.00	10.74
90.0	15.19	14.63	14.40	14.51	16.03	24.41	27.56	14.68	10.29
135.0	14.46	13.89	13.44	13.22	13.28	14.46	17.44	14.18	10.24
180.0	13.28	12.83	12.32	11.98	11.76	11.53	11.31	10.80	10.01
225.0	13.61	13.11	12.77	12.94	14.34	20.14	24.13	10.69	10.52
270.0	14.23	14.01	13.89	14.12	18.23	27.11	23.57	11.64	10.18
315.0	13.28	13.16	12.94	12.71	13.33	15.36	14.63	10.97	9.84
360.0	13.22	12.77	12.32	12.04	11.70	11.48	11.31	10.80	9.90
C/ γ (°)	90.0								
0.0	9.56								
45.0	9.79								
90.0	9.68								
135.0	9.62								
180.0	9.62								
225.0	9.84								
270.0	9.62								
315.0	9.56								
360.0	9.56								