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Nata

LumCAT: 1-1010-S
Luminaire: BJB 47.360.1030
Report No: NATA0100
Test No: GC2019102807
LampCAT: LUMILEDS LUXEON 1203
Lamp flux(lm): 1288.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 35.3100
Current(A): 0.2970
Power (W): 10.4800
PF: 1.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 931.94
Efficiency(%): 72.36%
Lumens(lm)/Power(W): 88.93
Central intensity(cd): 3127.641
Maximum intensity(cd): 3127.641
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=32.8
 [C90/270]Total=32.8
Field angle(10%Imax): [C0/180]Total=48.5
 [C90/270]Total=48.5
Maximum s/h(1/2): C0_180=0.55 C90_270=0.55
Maximum s/h(1/4): C0_180=0.51 C90_270=0.51
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 72.36%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.218%

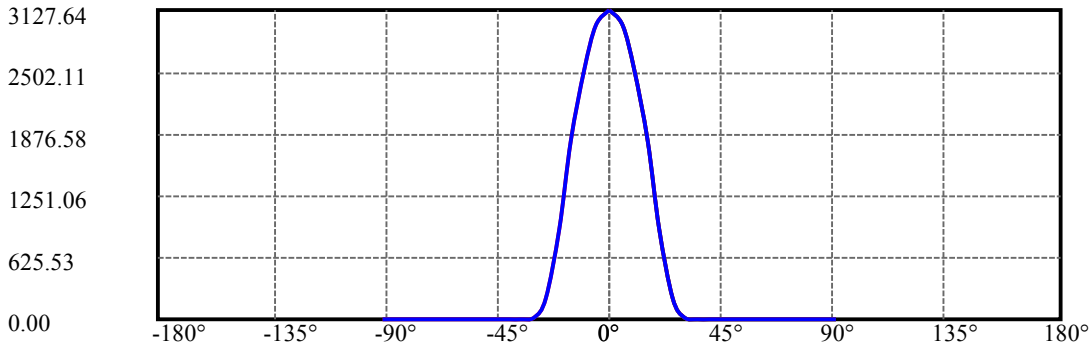
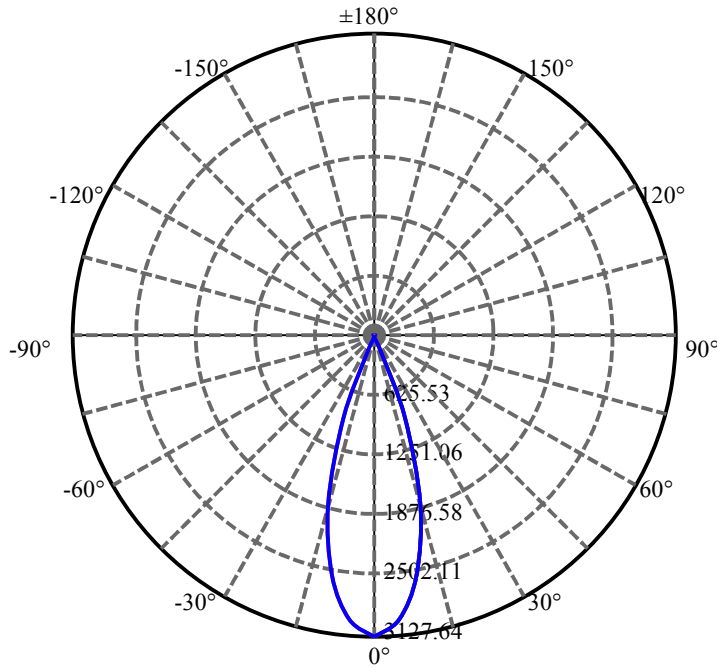
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3127.641	0.000	0	.000%	.000%
5.0	2965.711	72.844	72.844	5.656%	7.816%
10.0	2527.734	196.518	269.362	15.258%	28.903%
15.0	1813.570	257.523	526.885	19.994%	56.537%
20.0	918.063	225.125	752.01	17.479%	80.693%
25.0	209.355	118.245	870.256	9.181%	93.381%
30.0	16.439	28.574	898.83	2.219%	96.447%
35.0	9.120	3.764	902.594	.292%	96.851%
40.0	7.179	2.719	905.313	.211%	97.143%
45.0	6.349	2.505	907.818	.194%	97.412%
50.0	5.934	2.482	910.3	.193%	97.678%
55.0	5.590	2.506	912.806	.195%	97.947%
60.0	5.316	2.521	915.327	.196%	98.218%
65.0	5.330	2.588	917.915	.201%	98.495%
70.0	6.166	2.911	920.825	.226%	98.808%
75.0	6.497	3.310	924.135	.257%	99.163%
80.0	4.690	2.993	927.129	.232%	99.484%
85.0	4.451	2.484	929.612	.193%	99.750%
90.0	4.043	2.326	931.938	.181%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	898.83	69.78%	96.45%
0-40	905.31	70.29%	97.14%
0-60	915.33	71.07%	98.22%
0-90	929.61	72.17%	99.75%
0-120	929.61	72.17%	99.75%
0-180	931.94	72.36%	100.00%
60-90	16.81	1.30%	1.80%
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%
0-19.86	745.55	57.88%	80.00%

ZONAL LUMEN SUMMARY

0-10	269.36
10-20	482.65
20-30	146.82
30-40	6.48
40-50	4.99
50-60	5.03
60-70	5.50
70-80	6.30
80-90	2.48
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: —————

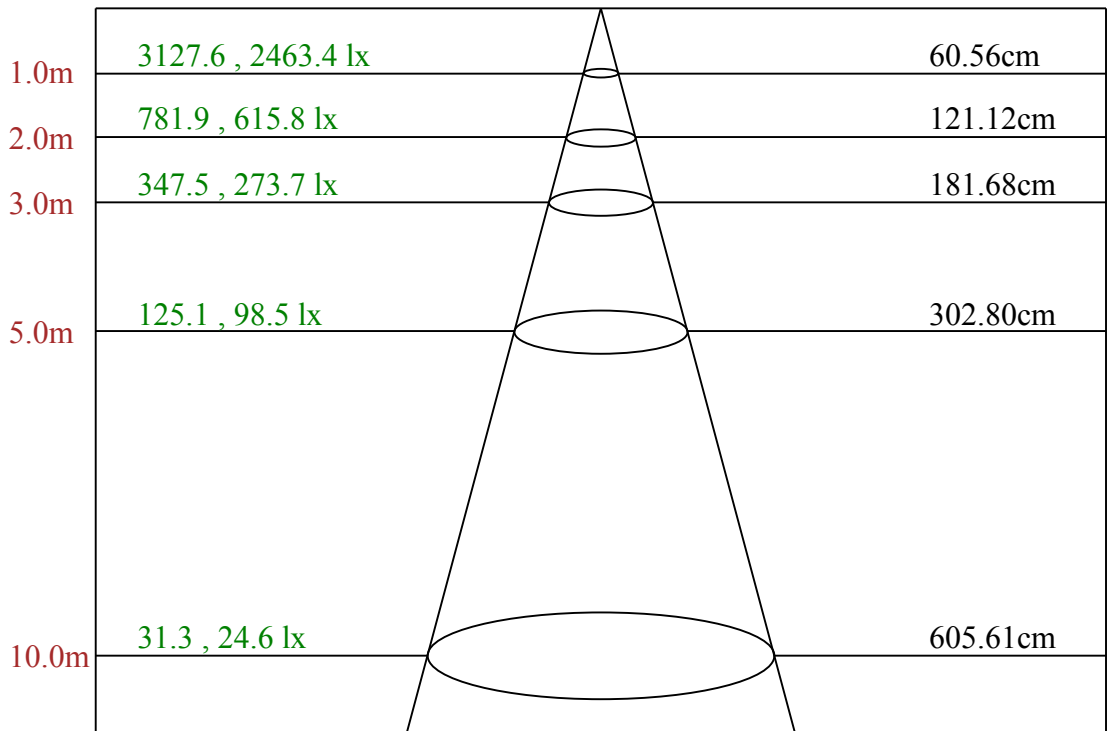
C90/C270: —————

Field angle(10%Imax):C0/180Left:24.3 Right:24.3

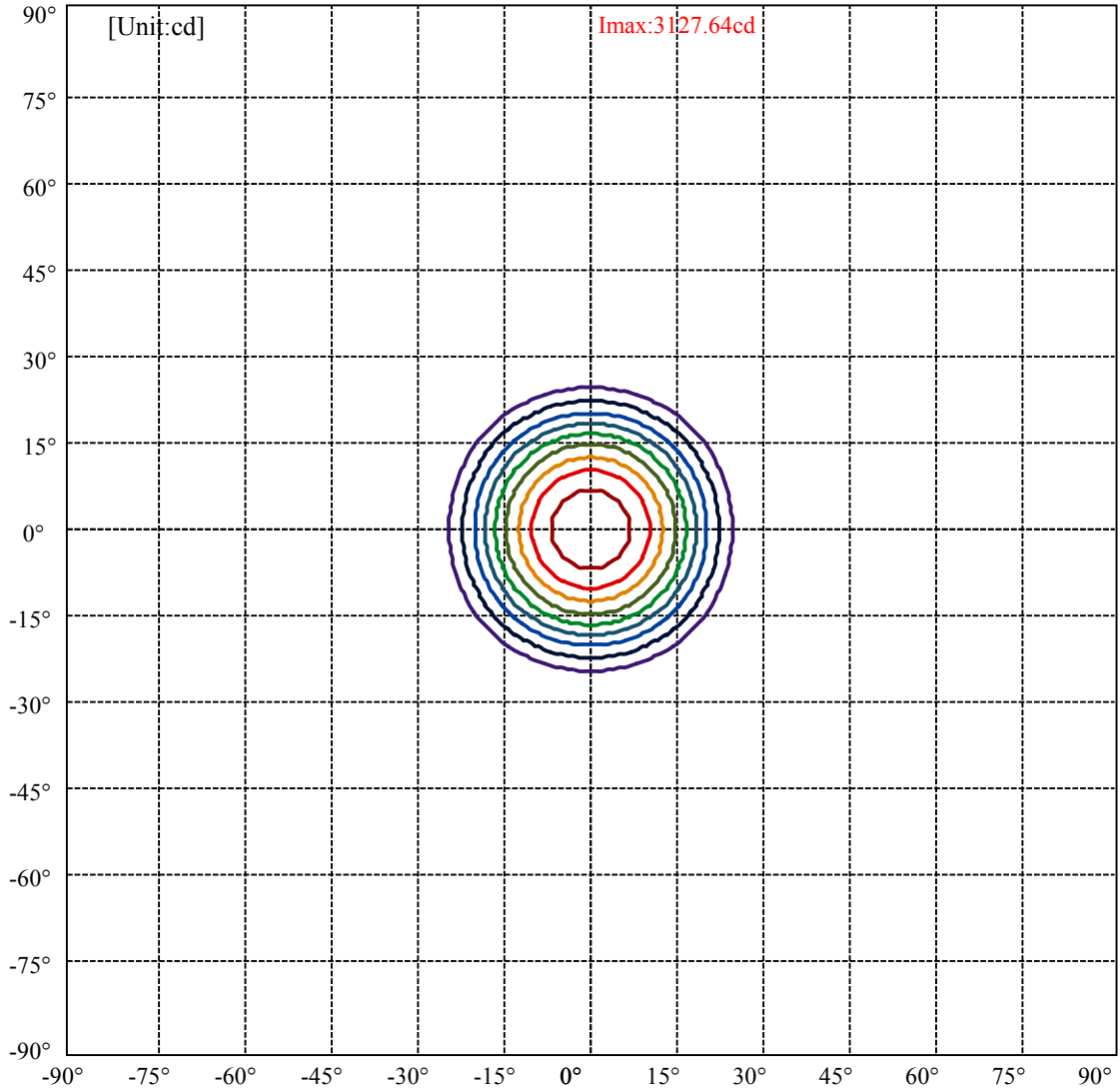
:C90/270Left:24.3 Right:24.3

Beam Angle(50%Imax):C0/180Left:16.4 Right:16.4

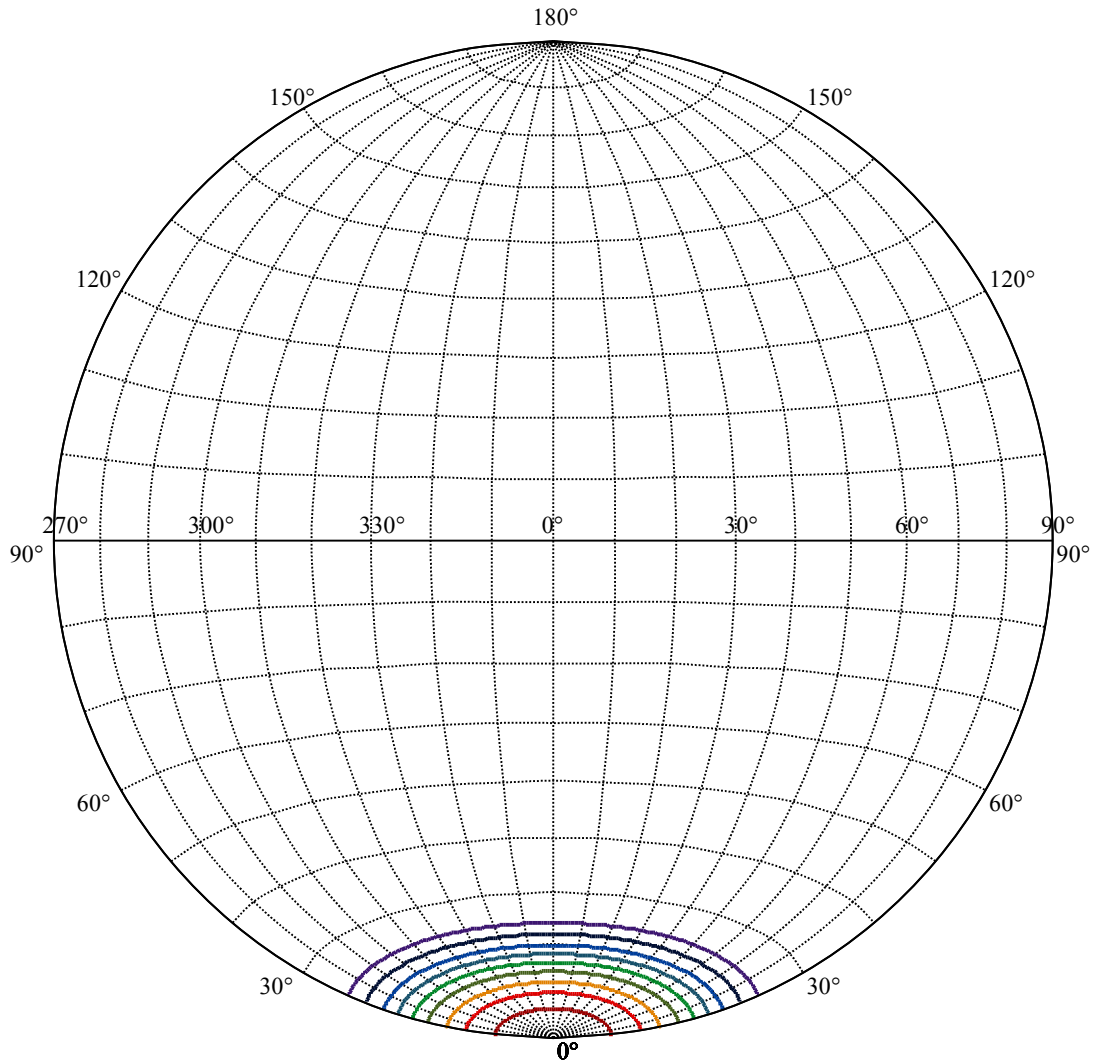
:C90/270Left:16.4 Right:16.4



Max , Ave Beam angle of C0 plane 33.69



(10%Imax) 312.764	—
(20%Imax) 625.528	—
(30%Imax) 938.292	—
(40%Imax) 1251.06	—
(50%Imax) 1563.82	—
(60%Imax) 1876.58	—
(70%Imax) 2189.35	—
(80%Imax) 2502.11	—
(90%Imax) 2814.88	—



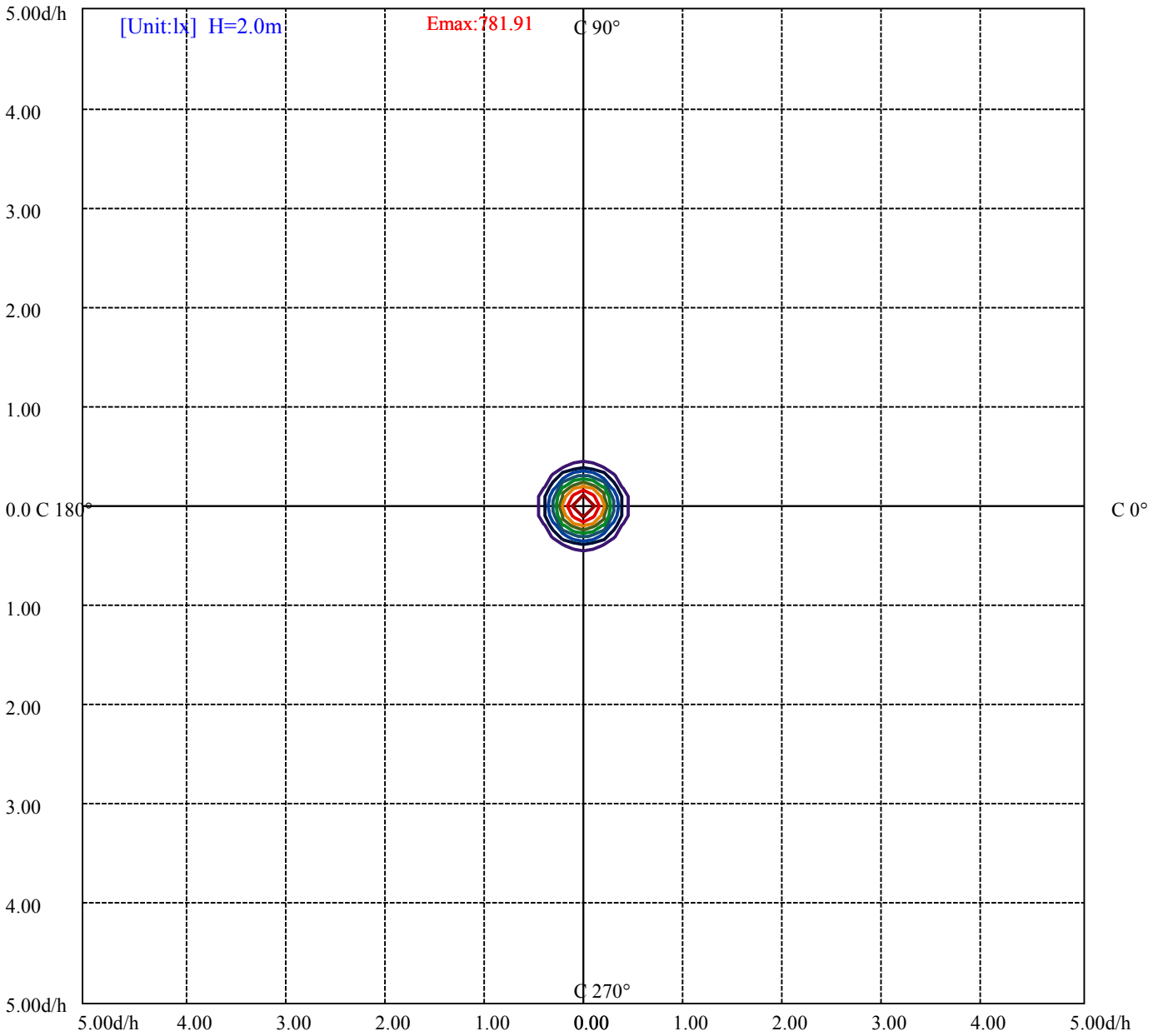
House

[Unit:cd]

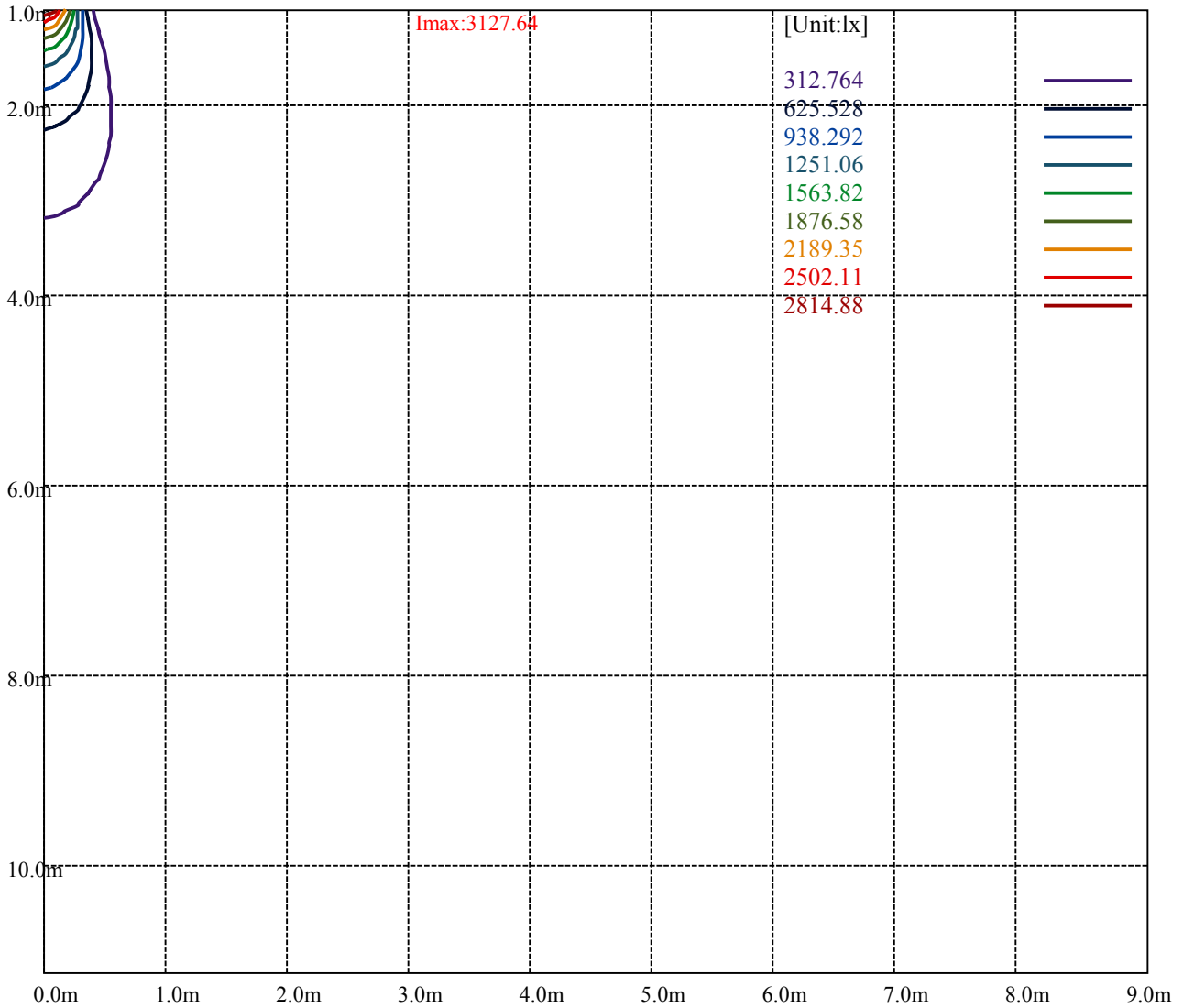
Road

Imax:3127.64

(10%Imax) 312.764	—
(20%Imax) 625.528	—
(30%Imax) 938.292	—
(40%Imax) 1251.06	—
(50%Imax) 1563.82	—
(60%Imax) 1876.58	—
(70%Imax) 2189.35	—
(80%Imax) 2502.11	—
(90%Imax) 2814.88	—



(10%Emax) 78.191	—
(20%Emax) 156.3817	—
(30%Emax) 234.5728	—
(40%Emax) 312.7625	—
(50%Emax) 390.955	—
(60%Emax) 469.145	—
(70%Emax) 547.335	—
(80%Emax) 625.5275	—
(90%Emax) 703.7175	—



Luminance Table

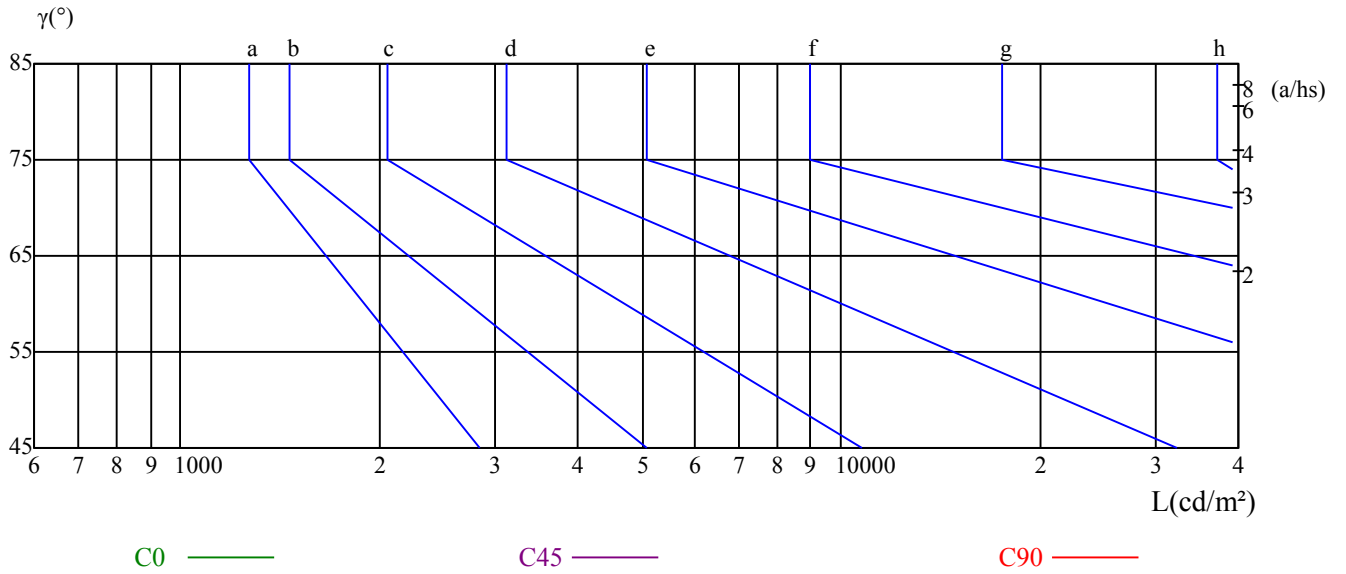
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

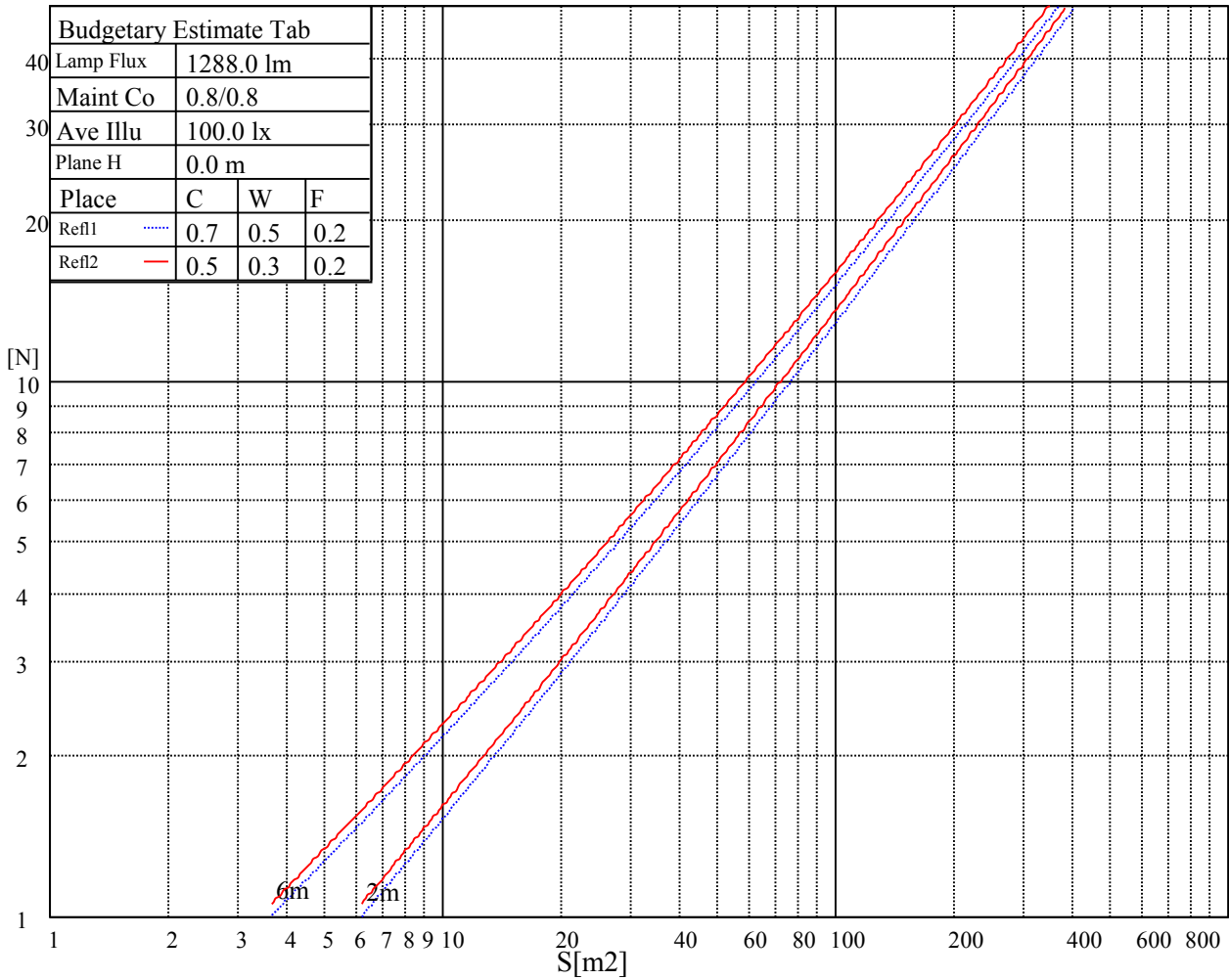
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

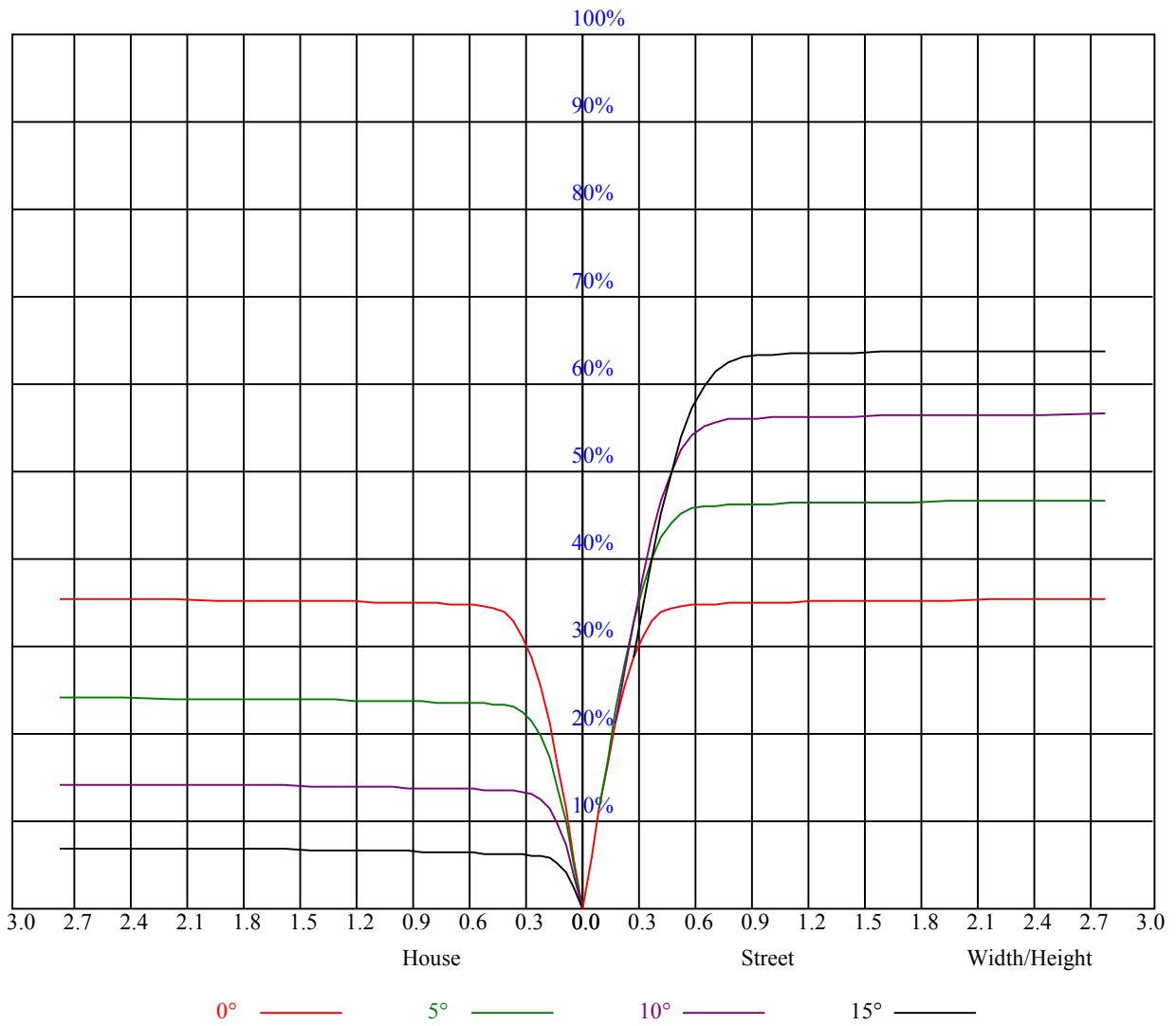
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.86	0.86	0.86	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77	0.74	0.74	0.74	0.72
1	0.81	0.80	0.78	0.80	0.78	0.77	0.77	0.76	0.75	0.74	0.73	0.73	0.72	0.71	0.70	0.69
2	0.77	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.72	0.70	0.69	0.70	0.69	0.68	0.67
3	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.69	0.68	0.66	0.68	0.66	0.65	0.64
4	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.67	0.65	0.64	0.66	0.64	0.63	0.62
5	0.68	0.65	0.63	0.67	0.65	0.62	0.66	0.64	0.62	0.65	0.63	0.61	0.64	0.62	0.61	0.60
6	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.63	0.61	0.59	0.62	0.60	0.59	0.58
7	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.61	0.59	0.57	0.61	0.59	0.57	0.56
8	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.60	0.57	0.56	0.59	0.57	0.55	0.55
9	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.55	0.54	0.53
10	0.58	0.55	0.53	0.57	0.55	0.53	0.57	0.54	0.53	0.57	0.54	0.52	0.56	0.54	0.52	0.52



Nata 1-1010-S

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	3129.19	2962.13	2539.13	1825.31	893.81	313.88	16.54	8.94	6.98
45.0	3130.31	2978.44	2518.31	1832.06	961.31	320.06	16.93	9.45	7.43
90.0	3125.25	2932.31	2414.81	1636.31	748.13	86.18	15.19	9.45	7.88
135.0	3125.81	3002.63	2592.00	1904.63	1006.88	317.81	19.35	9.68	7.43
180.0	3129.19	2958.75	2514.94	1813.50	903.88	110.70	15.75	8.83	6.98
225.0	3130.31	2958.75	2536.88	1841.06	962.89	121.33	16.09	8.83	6.86
270.0	3125.25	3004.88	2629.69	1938.94	1121.63	315.56	17.61	9.51	7.31
315.0	3125.81	2927.81	2476.13	1716.75	745.99	89.33	14.06	8.27	6.58
360.0	3129.19	2962.13	2539.13	1825.31	893.81	313.88	16.54	8.94	6.98
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.02	5.46	5.18	5.01	4.84	4.73	4.67	4.39	4.28
45.0	6.53	6.02	5.68	5.46	5.34	5.40	5.79	4.56	4.11
90.0	7.37	7.14	6.47	5.85	6.98	13.67	9.62	4.56	4.67
135.0	6.53	6.08	5.79	5.57	5.46	5.29	6.02	5.63	5.29
180.0	6.08	5.63	5.34	5.12	4.95	4.84	4.78	4.44	4.39
225.0	6.02	5.57	5.29	5.06	5.01	4.95	5.12	4.61	4.11
270.0	6.47	6.19	5.79	5.40	5.18	5.68	10.80	4.67	4.28
315.0	5.79	5.40	5.18	5.06	4.89	4.78	5.18	4.67	4.50
360.0	6.02	5.46	5.18	5.01	4.84	4.73	4.67	4.39	4.28
C/γ(°)	90.0								
0.0	4.11								
45.0	3.99								
90.0	4.05								
135.0	4.05								
180.0	4.05								
225.0	3.99								
270.0	4.05								
315.0	4.05								
360.0	4.11								