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Nata

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LumCAT: 3-1469-E  
Luminaire: 92.76.263.00  
Report No: NATA0100  
Test No:  
LampCAT: BRIDGELUX VERO 18  
Lamp flux(lm): 3743.0  
Number of Lamps: 1  
Length(mm): 76  
Phm Type: C

Voltage(V): 30.0000  
Current(A): 0.9500  
Power (W): 28.5000  
PF: 0.0000  
Ballast type:  
Width(mm): 76  
Height(mm): 0

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Photometric Results

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Lumens(lm): 3395.32  
Efficiency(%): 90.71%  
Lumens(lm)/Power(W): 121.65  
Central intensity(cd): 12552.860  
Maximum intensity(cd): 12552.860  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=24.5  
                                  [C90/270]Total=24.5  
Field angle(10%Imax): [C0/180]Total=56.1  
                                  [C90/270]Total=56.1  
Maximum s/h(1/2): C0\_180=0.41 C90\_270=0.41  
Maximum s/h(1/4): C0\_180=0.43 C90\_270=0.43  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 92.63%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 96.559%

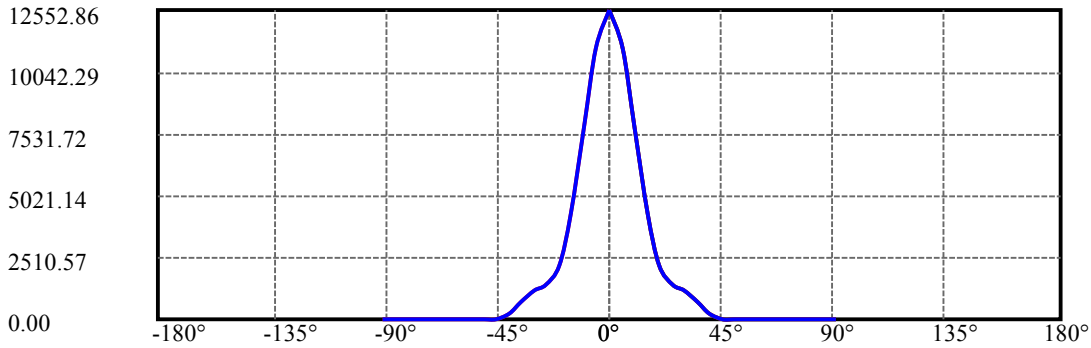
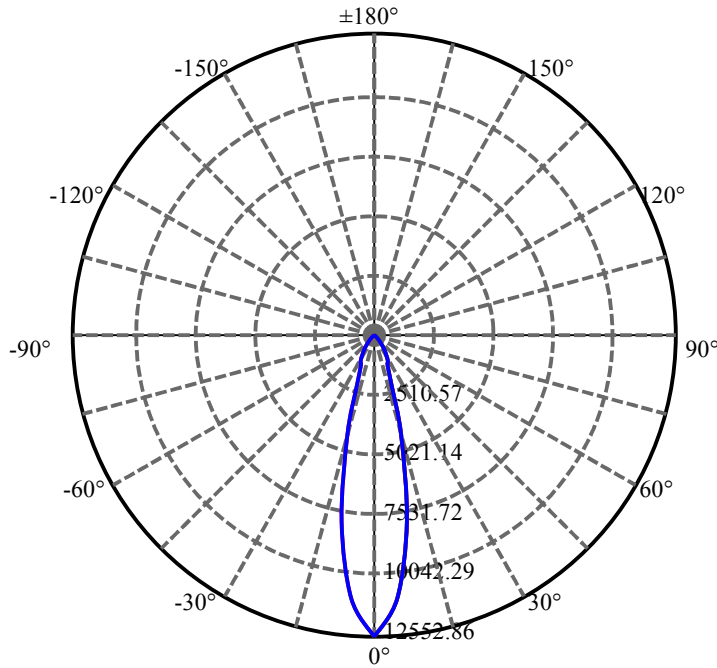
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12552.859	75.069	75.069	2.006%	2.211%
5.0	11011.693	526.065	601.134	14.055%	17.705%
10.0	7885.178	750.535	1351.669	20.052%	39.810%
15.0	4273.134	606.223	1957.892	16.196%	57.664%
20.0	2220.287	416.246	2374.138	11.121%	69.924%
25.0	1411.577	326.996	2701.134	8.736%	79.555%
30.0	1156.604	316.989	3018.123	8.469%	88.891%
35.0	704.860	221.607	3239.73	5.921%	95.417%
40.0	224.279	79.022	3318.751	2.111%	97.745%
45.0	20.715	8.029	3326.78	.215%	97.981%
50.0	16.434	6.901	3333.681	.184%	98.184%
55.0	15.581	6.996	3340.677	.187%	98.390%
60.0	15.106	7.171	3347.848	.192%	98.602%
65.0	15.010	7.457	3355.304	.199%	98.821%
70.0	16.297	8.394	3363.698	.224%	99.069%
75.0	16.758	8.873	3372.571	.237%	99.330%
80.0	17.233	9.302	3381.873	.249%	99.604%
85.0	17.474	9.541	3391.415	.255%	99.885%
90.0	14.266	3.910	3395.325	.104%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3018.12	80.63%	88.89%
0-40	3318.75	88.67%	97.74%
0-60	3347.85	89.44%	98.60%
0-90	3391.41	90.61%	99.88%
0-120	3391.41	90.61%	99.88%
0-180	3395.32	90.71%	100.00%
60-90	50.74	1.36%	1.49%
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%
0-25.24	2716.26	72.57%	80.00%

ZONAL LUMEN SUMMARY

0-10	1351.67
10-20	1022.47
20-30	643.98
30-40	300.63
40-50	14.93
50-60	14.17
60-70	15.85
70-80	18.17
80-90	9.54
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: —————

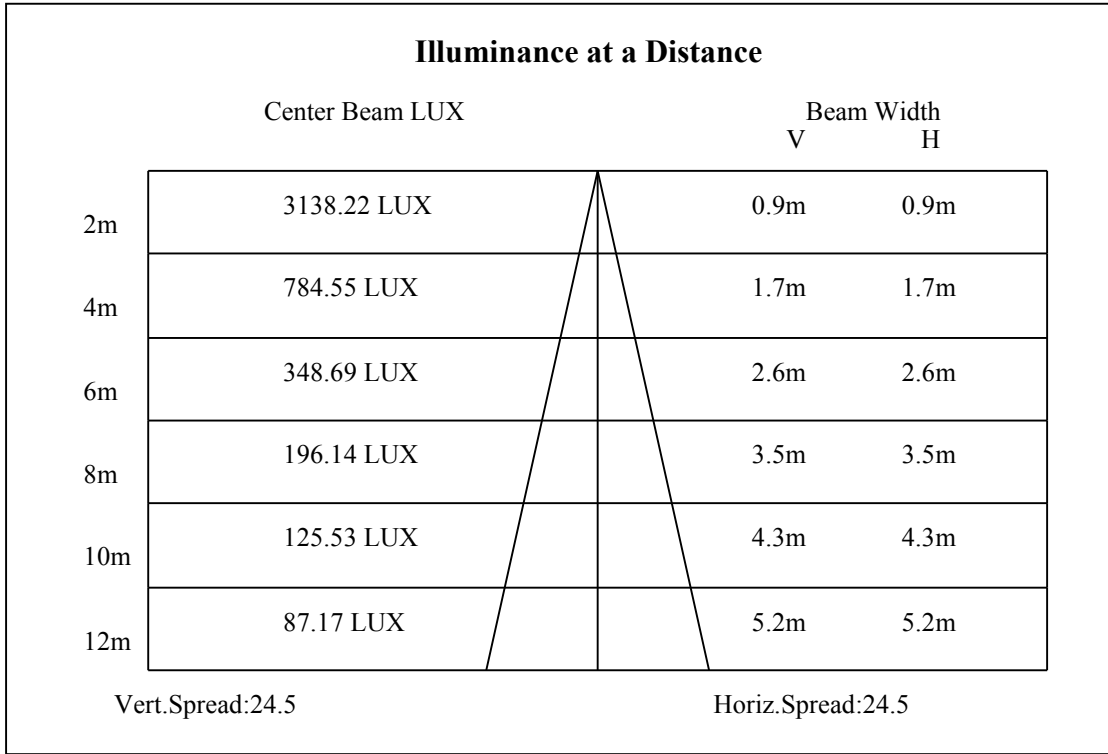
C90/C270: —————

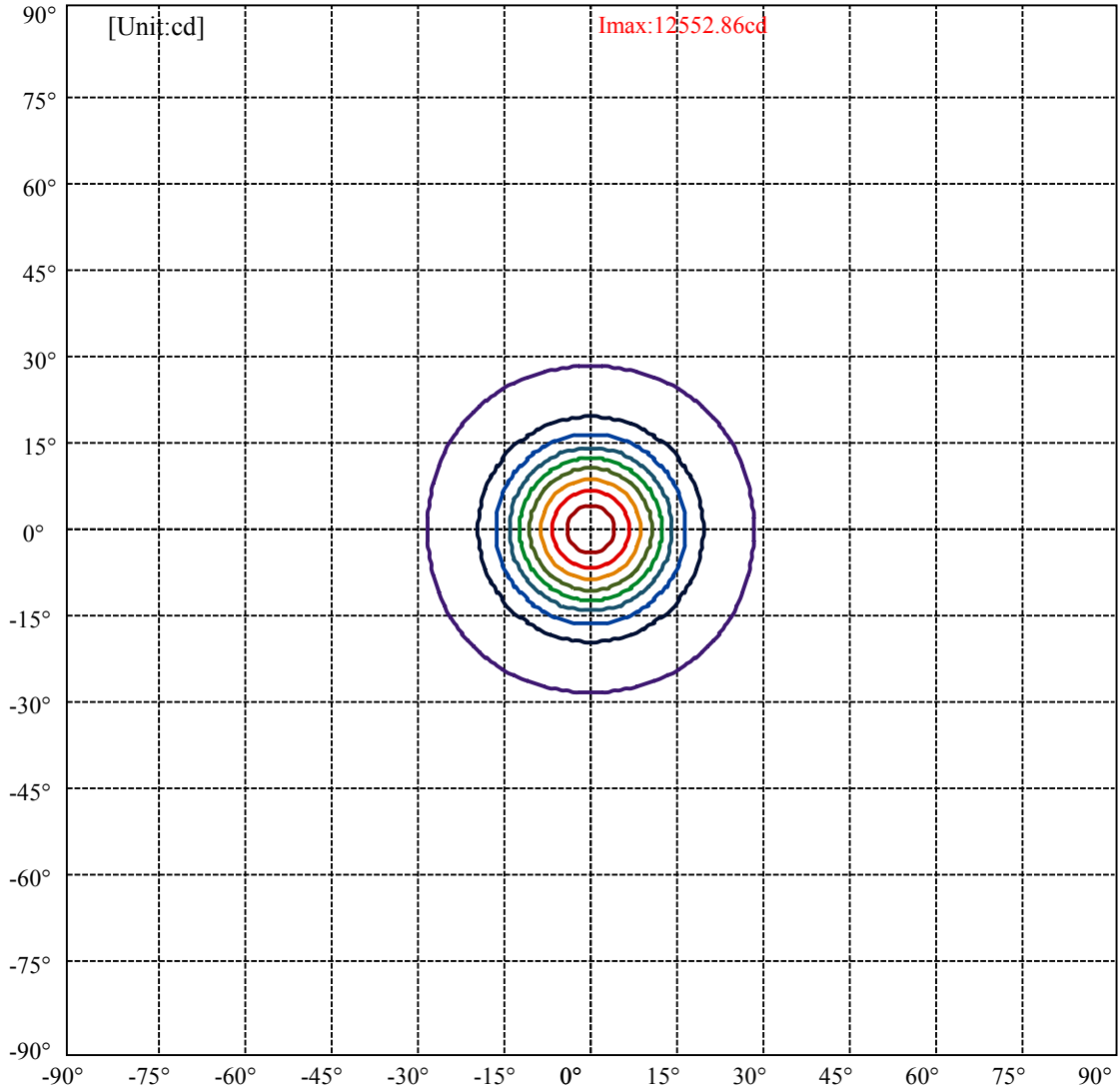
Field angle(10%Imax):C0/180Left:28.1 Right:28.1

:C90/270Left:28.1 Right:28.1

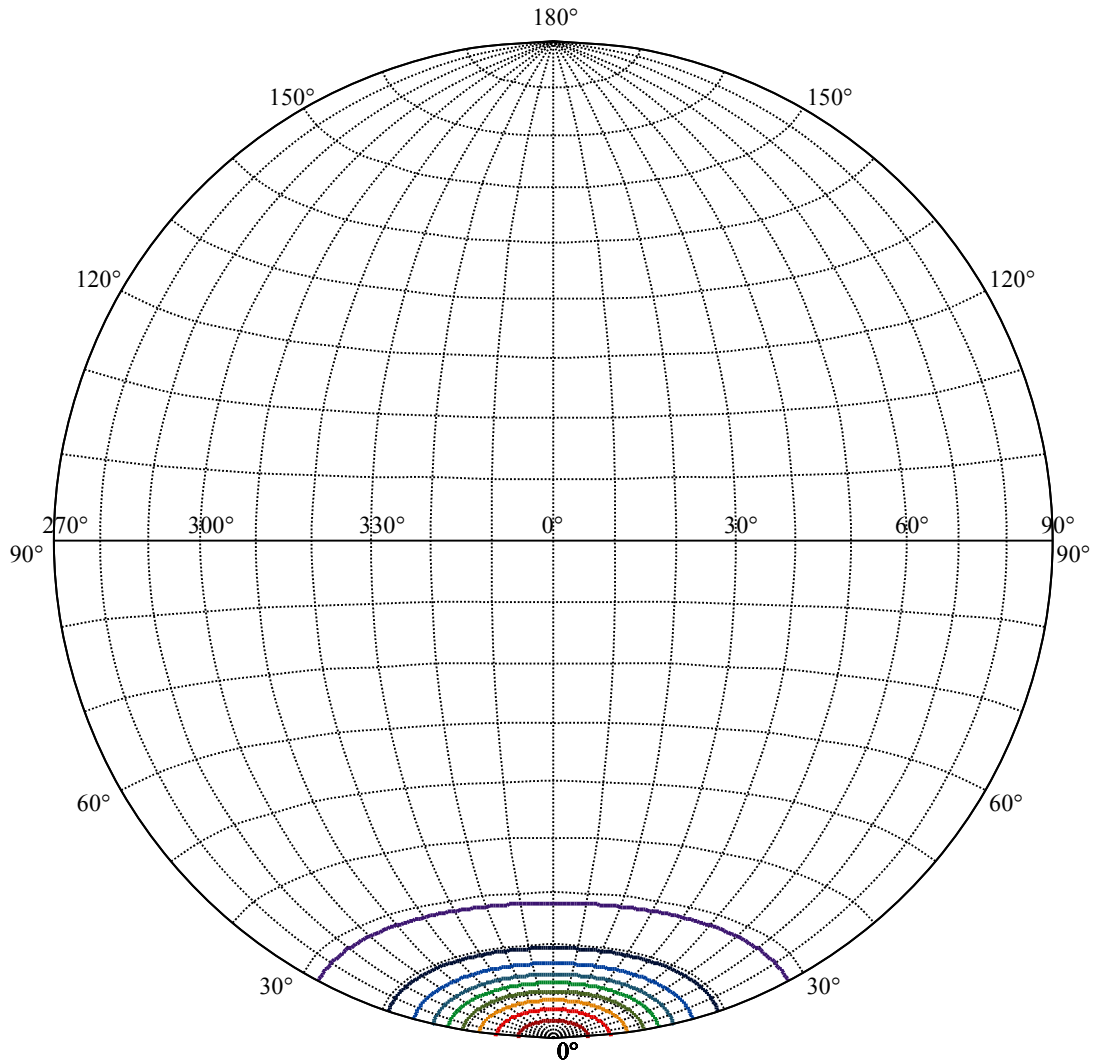
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2

:C90/270Left:12.2 Right:12.2





(10%Imax) 1255.29	—
(20%Imax) 2510.57	—
(30%Imax) 3765.86	—
(40%Imax) 5021.14	—
(50%Imax) 6276.43	—
(60%Imax) 7531.72	—
(70%Imax) 8787	—
(80%Imax) 10042.3	—
(90%Imax) 11297.6	—



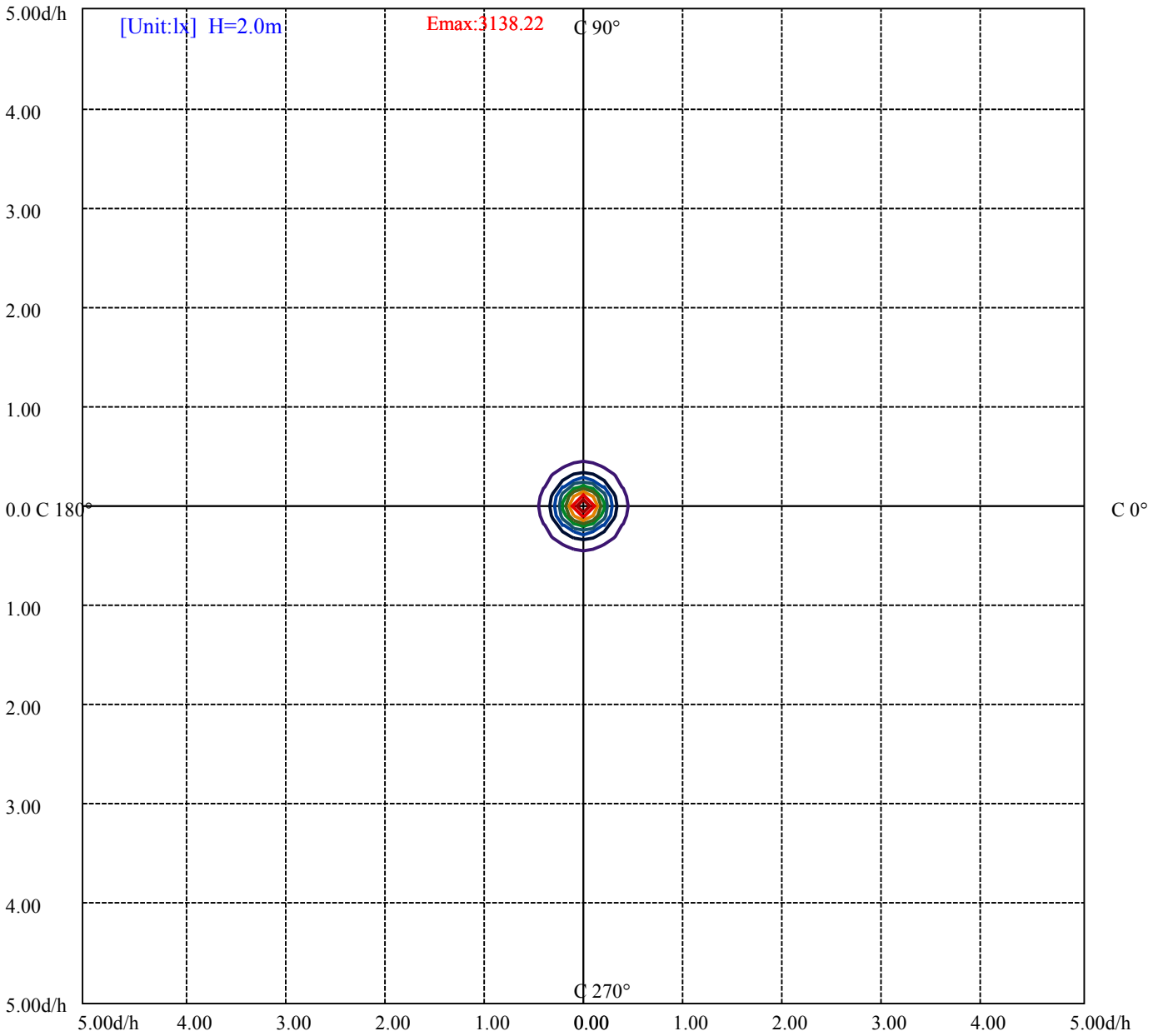
House

[Unit:cd]

Road

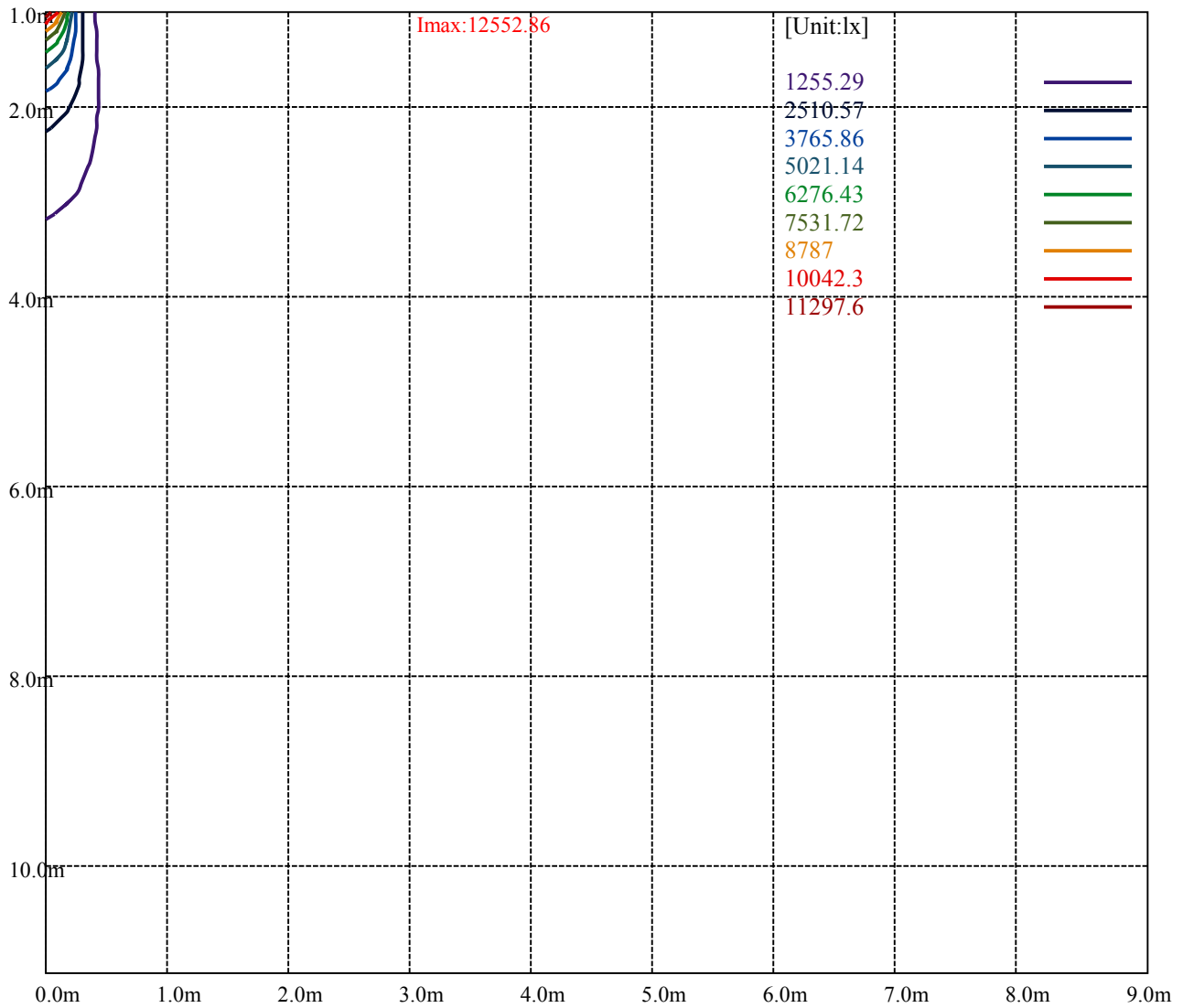
**Imax:12552.86**

(10%Imax) 1255.29	—
(20%Imax) 2510.57	—
(30%Imax) 3765.86	—
(40%Imax) 5021.14	—
(50%Imax) 6276.43	—
(60%Imax) 7531.72	—
(70%Imax) 8787	—
(80%Imax) 10042.3	—
(90%Imax) 11297.6	—



- (10%E<sub>max</sub>) 313.82
- (20%E<sub>max</sub>) 627.64
- (30%E<sub>max</sub>) 941.46
- (40%E<sub>max</sub>) 1255.282
- (50%E<sub>max</sub>) 1569.103
- (60%E<sub>max</sub>) 1882.922
- (70%E<sub>max</sub>) 2196.742
- (80%E<sub>max</sub>) 2510.575
- (90%E<sub>max</sub>) 2824.375





Luminance Table

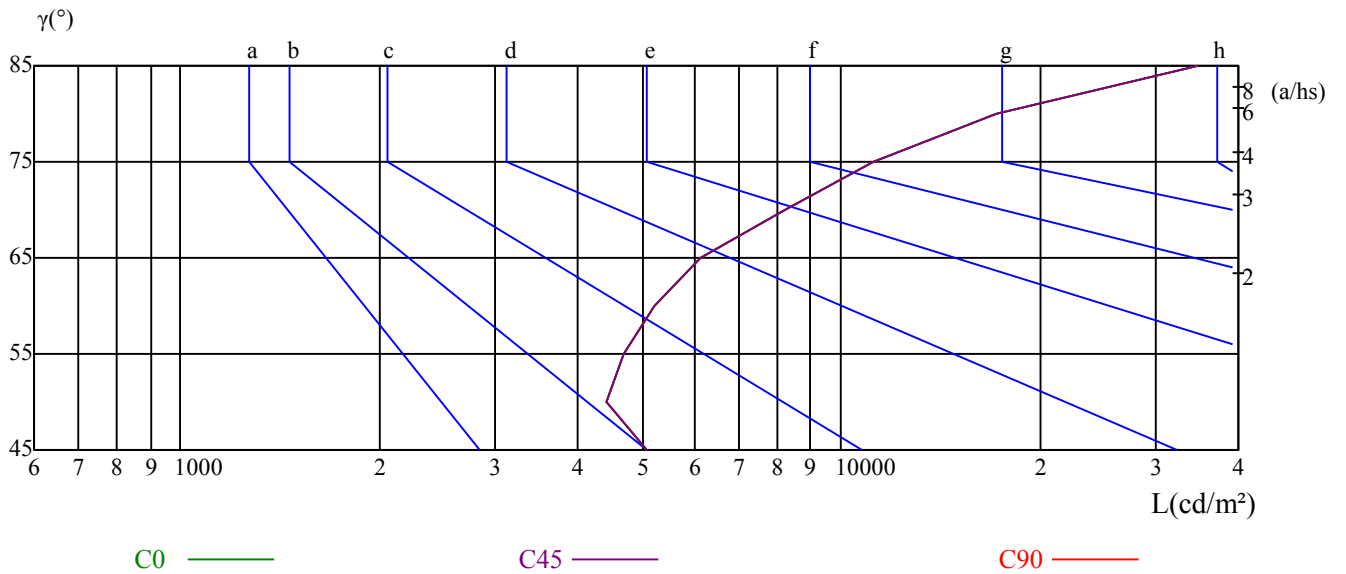
$\gamma$	45	50	55	60	65	70	75	80	85
C0	5072	4426	4703	5231	6149	8249	11210	17181	34710
C45	5072	4426	4703	5231	6149	8249	11210	17181	34710
C90	5072	4426	4703	5231	6149	8249	11210	17181	34710

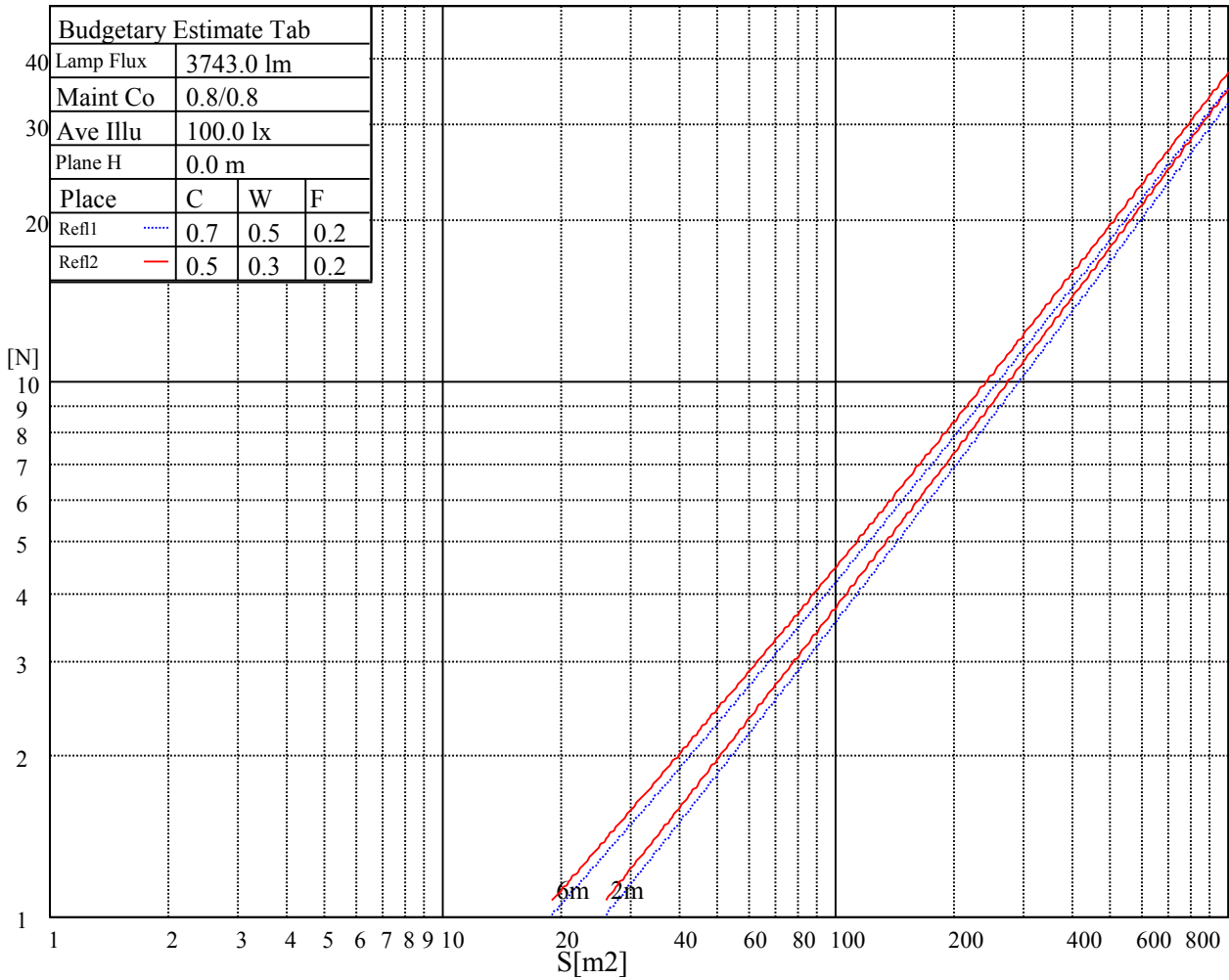
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6149	6149	6149	11210	11210	11210	34710	34710	34710

Glare Table

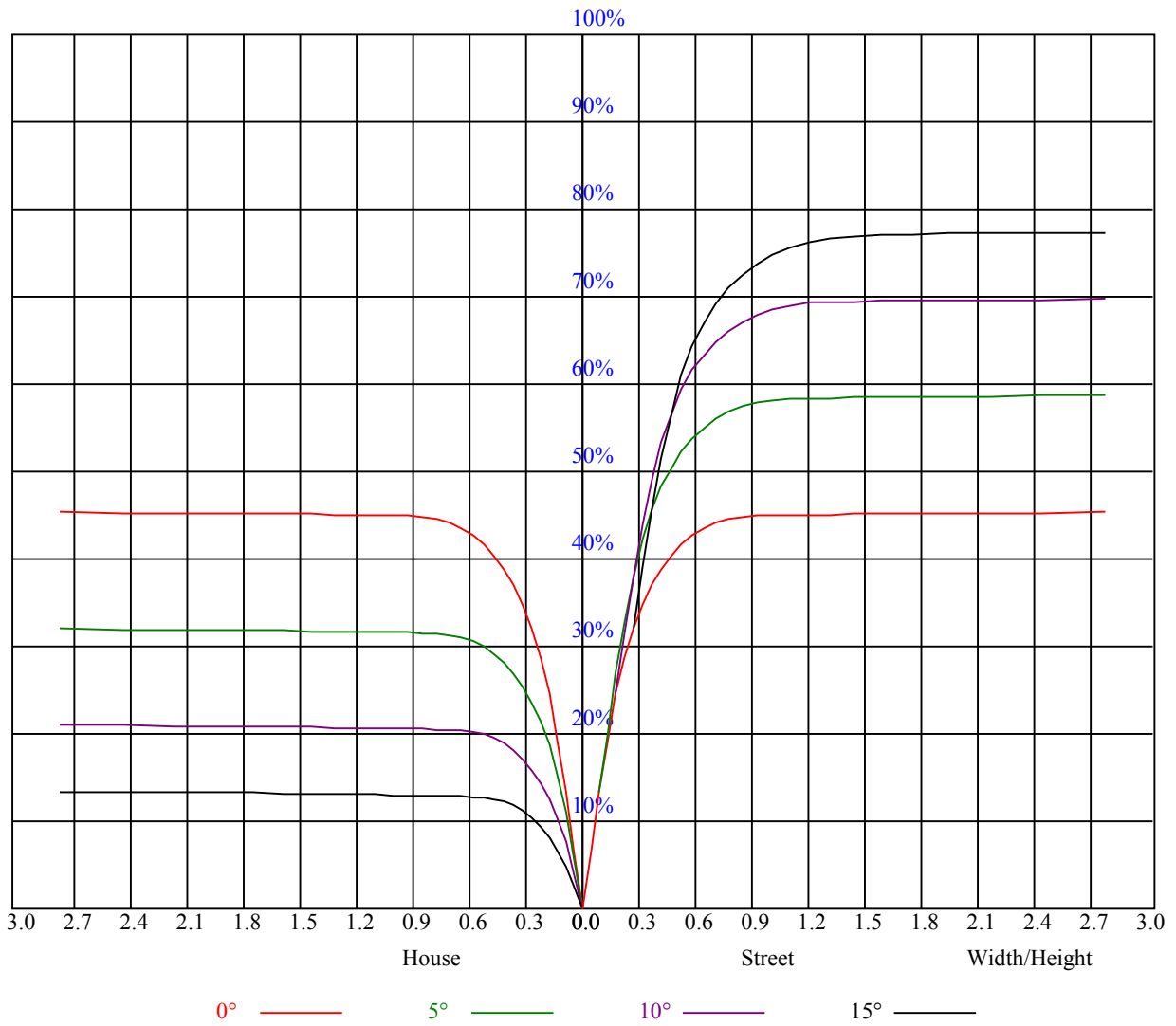
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.01	0.99	0.96	0.99	0.97	0.95	0.96	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.96	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.81
3	0.92	0.87	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	0.88	0.83	0.80	0.87	0.83	0.79	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.75	0.72	0.69	0.68
8	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.66
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63



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	12624.43	11473.75	7873.07	4321.93	2378.99	1417.15	1192.52	727.85	295.65
45.0	12470.27	12167.46	9453.18	5478.11	2890.46	1542.68	1248.68	900.72	377.14
90.0	12602.41	10873.09	8686.80	4876.90	2311.82	1440.83	1211.24	822.60	266.75
135.0	12514.32	11897.69	9029.25	5164.29	2785.85	1509.10	1238.77	878.15	376.59
180.0	12624.43	10900.62	7710.10	4248.15	2053.05	1390.17	1056.81	705.22	182.79
225.0	12470.27	9966.86	6459.22	3133.81	1715.56	1311.44	1070.57	489.40	64.14
270.0	12602.41	10537.79	7113.29	3611.70	1863.66	1373.11	1145.72	592.41	174.97
315.0	12514.32	10276.28	6756.52	3350.18	1762.91	1308.14	1088.52	522.54	56.21
360.0	12624.43	11473.75	7873.07	4321.93	2378.99	1417.15	1192.52	727.85	295.65

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.00	16.52	15.58	15.09	14.87	14.81	16.13	16.74	17.18
45.0	27.64	17.12	16.08	15.42	15.09	14.87	14.98	15.64	17.07
90.0	22.68	16.52	15.53	15.03	14.76	14.59	14.48	14.65	15.20
135.0	27.58	16.52	15.64	15.09	14.76	14.53	14.53	15.14	15.20
180.0	17.51	16.24	15.42	14.98	14.70	14.53	14.65	15.25	15.53
225.0	17.51	16.30	15.53	15.14	15.03	17.01	17.23	17.29	16.02
270.0	17.56	16.24	15.53	15.09	15.36	18.28	19.32	19.93	21.09
315.0	17.23	16.02	15.36	15.03	15.53	21.75	22.74	23.23	22.52
360.0	18.00	16.52	15.58	15.09	14.87	14.81	16.13	16.74	17.18

C/γ(°)	90.0
0.0	14.20
45.0	14.37
90.0	14.26
135.0	14.20
180.0	14.20
225.0	14.37
270.0	14.31
315.0	14.20
360.0	14.20