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## Nata

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LumCAT: 3-1468-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 33.0000
Test No:	Current(A): 0.5500
LampCAT: BRIDGELUX VERO 13	Power (W): 18.1500
Lamp flux(lm): 1556.0	PF: 0.0000
Number of Lamps: 1	Ballast type:
Length(mm): 80	Width(mm): 80
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1430.35  
Efficiency(%): 91.92%  
Lumens(lm)/Power(W): 82.77  
Central intensity(cd): 12261.200  
Maximum intensity(cd): 12261.200  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=13.9  
                                  [C90/270]Total=13.9  
Field angle(10%Imax): [C0/180]Total=29.1  
                                  [C90/270]Total=29.1  
Maximum s/h(1/2): C0\_180=0.24 C90\_270=0.24  
Maximum s/h(1/4): C0\_180=0.24 C90\_270=0.24  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 96.55%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 94.033%

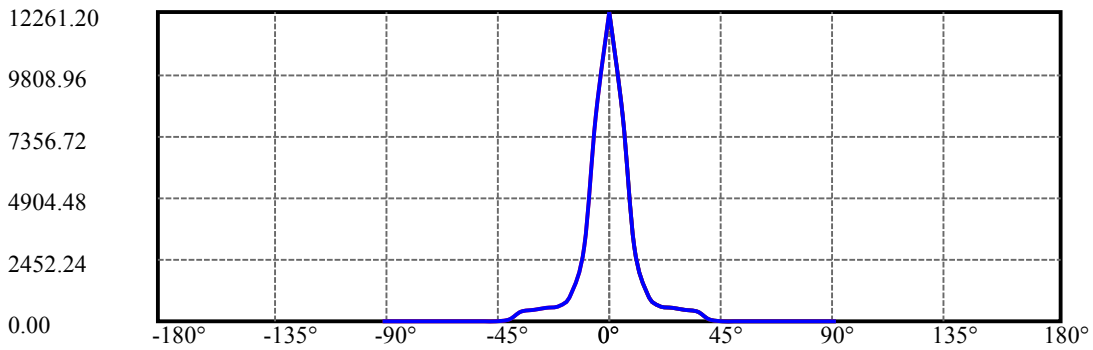
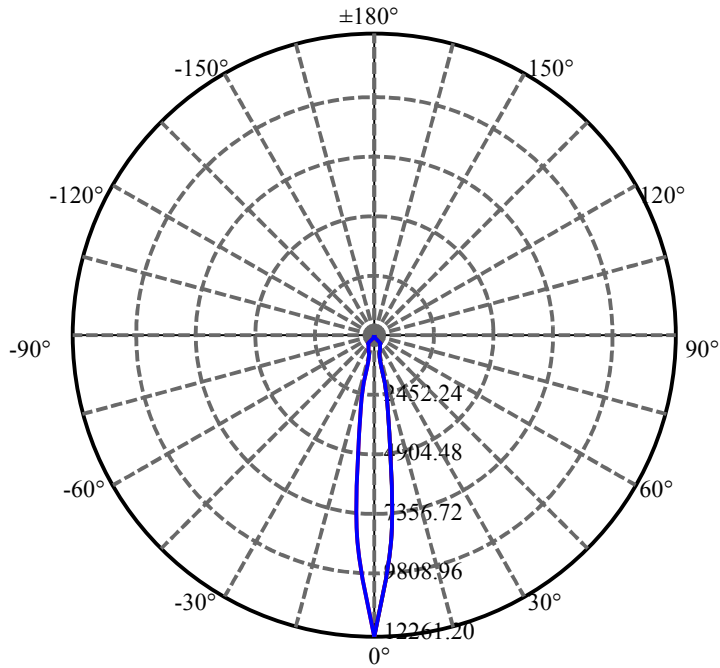
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12261.198	73.324	73.324	4.712%	5.126%
5.0	8166.722	390.151	463.476	25.074%	32.403%
10.0	2983.919	284.019	747.494	18.253%	52.260%
15.0	1052.382	149.300	896.794	9.595%	62.698%
20.0	644.022	120.737	1017.532	7.759%	71.139%
25.0	528.844	122.508	1140.04	7.873%	79.704%
30.0	478.585	131.165	1271.205	8.430%	88.874%
35.0	347.323	109.198	1380.403	7.018%	96.508%
40.0	60.452	21.299	1401.702	1.369%	97.997%
45.0	7.033	2.726	1404.429	.175%	98.188%
50.0	6.290	2.641	1407.07	.170%	98.373%
55.0	6.118	2.747	1409.817	.177%	98.565%
60.0	6.008	2.852	1412.669	.183%	98.764%
65.0	5.981	2.971	1415.64	.191%	98.972%
70.0	5.960	3.070	1418.71	.197%	99.186%
75.0	5.939	3.145	1421.854	.202%	99.406%
80.0	6.249	3.373	1425.227	.217%	99.642%
85.0	6.428	3.510	1428.737	.226%	99.887%
90.0	5.877	1.611	1430.348	.104%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1271.21	81.70%	88.87%
0-40	1401.70	90.08%	98.00%
0-60	1412.67	90.79%	98.76%
0-90	1428.74	91.82%	99.89%
0-120	1428.74	91.82%	99.89%
0-180	1430.35	91.92%	100.00%
60-90	18.92	1.22%	1.32%
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%
0-25.16	1144.28	73.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	747.49
10-20	270.04
20-30	253.67
30-40	130.50
40-50	5.37
50-60	5.60
60-70	6.04
70-80	6.52
80-90	3.51
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: —————

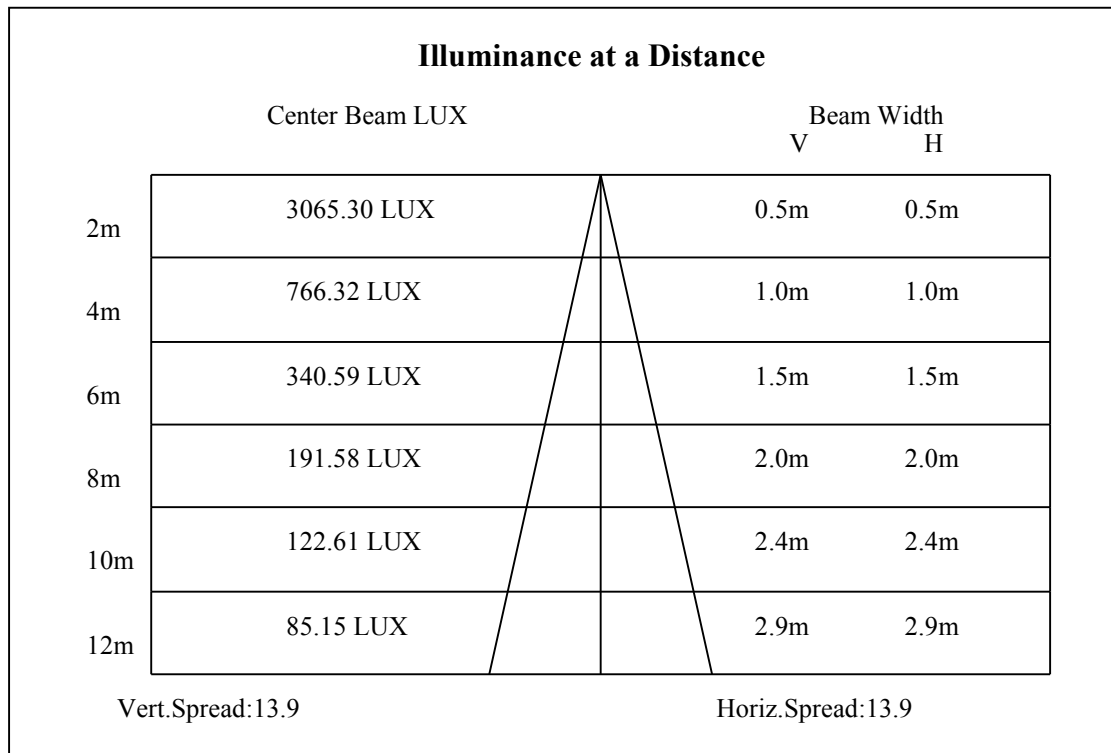
C90/C270: —————

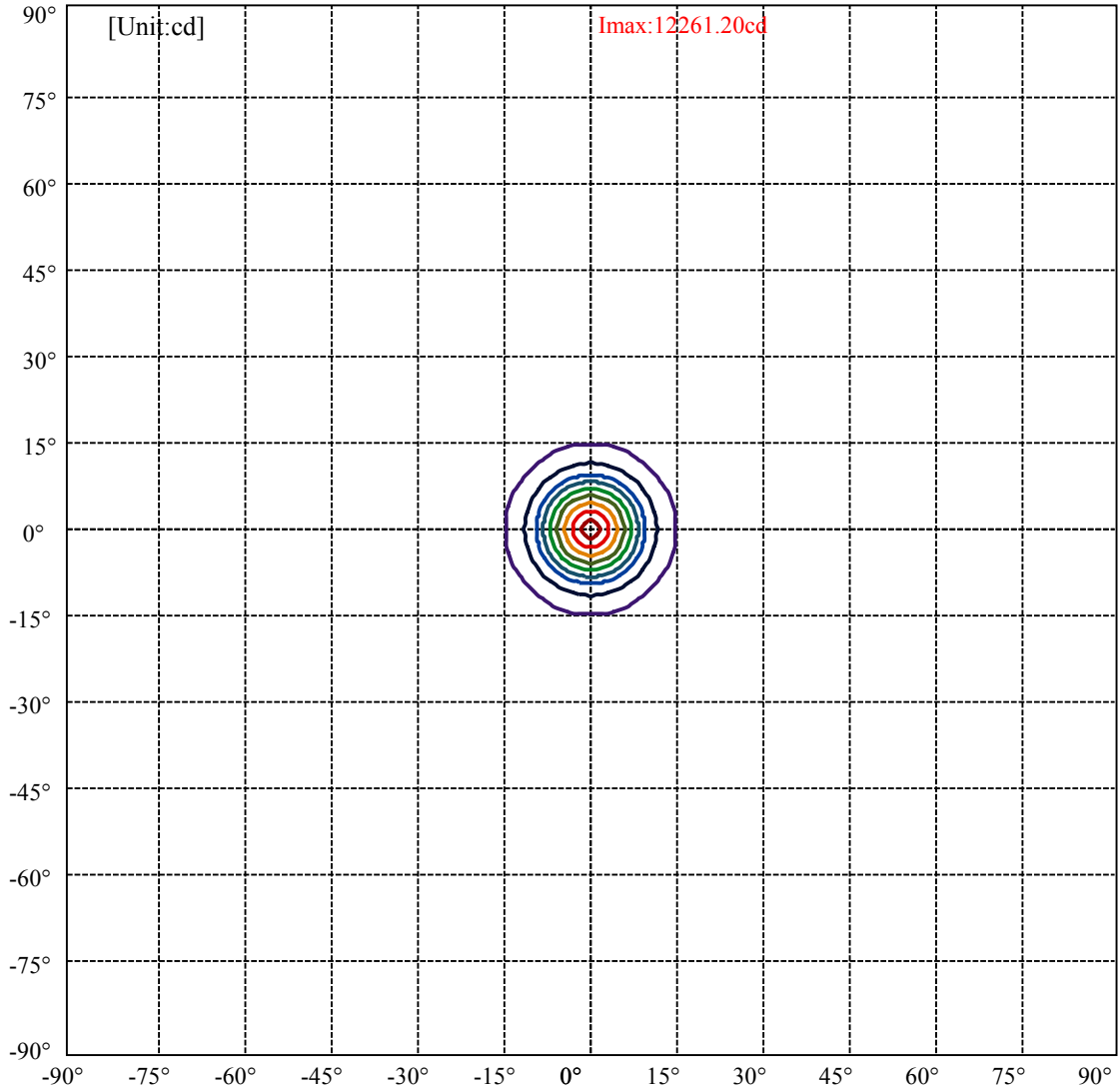
Field angle(10%Imax):C0/180Left:14.6 Right:14.6

:C90/270Left:14.6 Right:14.6

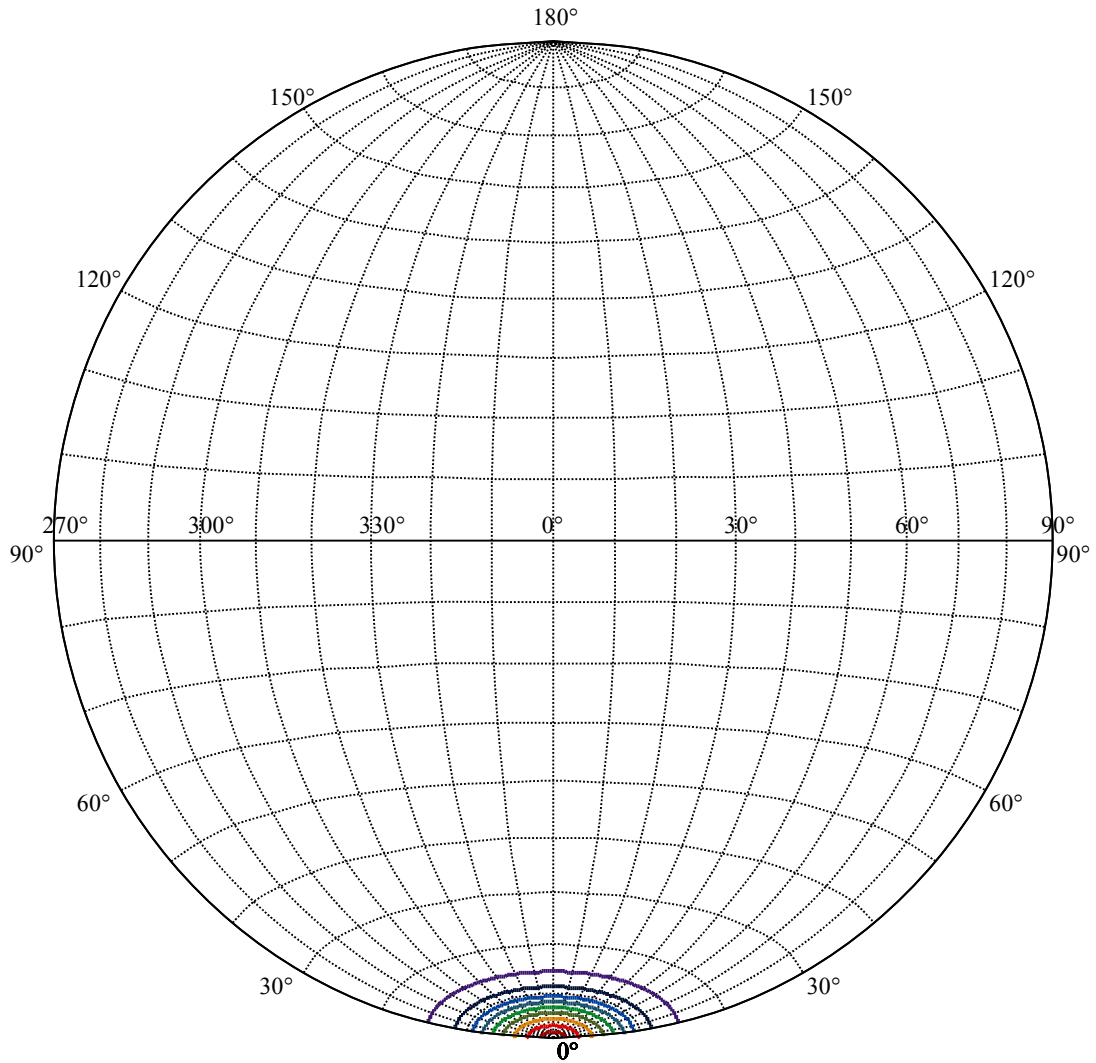
Beam Angle(50%Imax):C0/180Left:7.0 Right:7.0

:C90/270Left:7.0 Right:7.0





(10%I <sub>max</sub> ) 1226.12	—
(20%I <sub>max</sub> ) 2452.24	—
(30%I <sub>max</sub> ) 3678.36	—
(40%I <sub>max</sub> ) 4904.48	—
(50%I <sub>max</sub> ) 6130.6	—
(60%I <sub>max</sub> ) 7356.72	—
(70%I <sub>max</sub> ) 8582.84	—
(80%I <sub>max</sub> ) 9808.96	—
(90%I <sub>max</sub> ) 11035.1	—



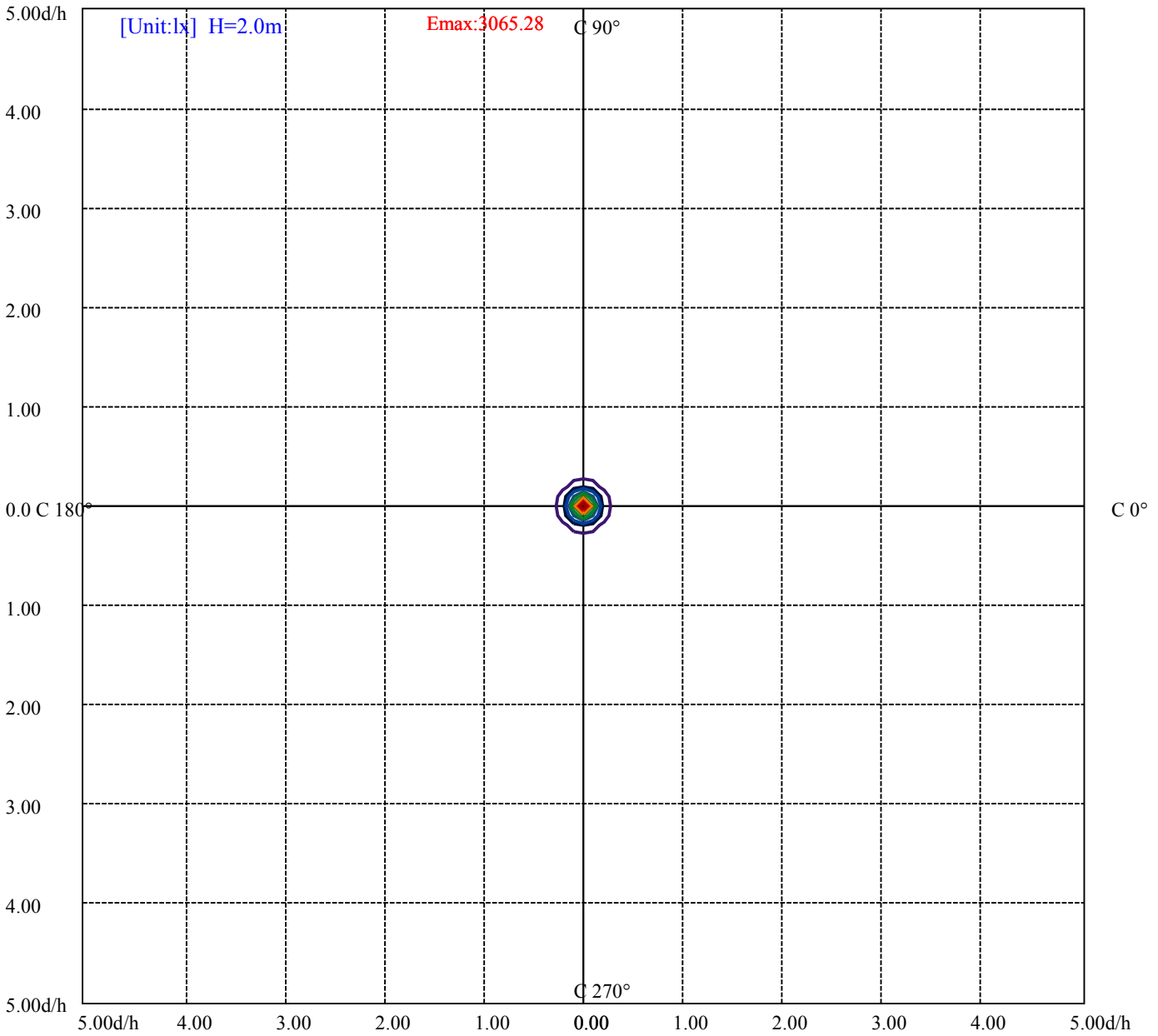
House

[Unit:cd]

Road

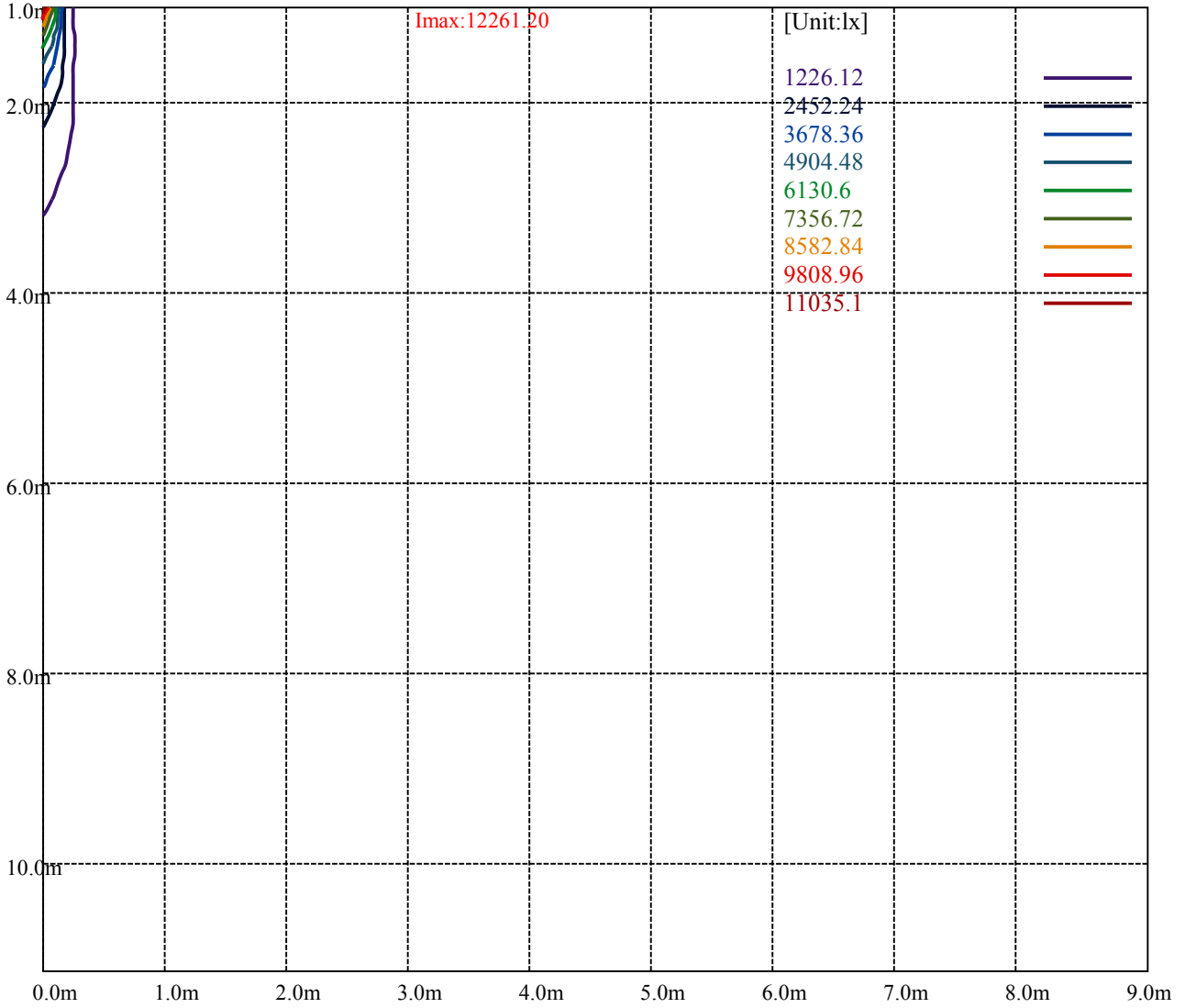
**Imax:12261.20**

(10%Imax) 1226.12	—
(20%Imax) 2452.24	—
(30%Imax) 3678.36	—
(40%Imax) 4904.48	—
(50%Imax) 6130.6	—
(60%Imax) 7356.72	—
(70%Imax) 8582.84	—
(80%Imax) 9808.96	—
(90%Imax) 11035.1	—



(10%Emax) 306.5275	—
(20%Emax) 613.0525	—
(30%Emax) 919.58	—
(40%Emax) 1226.108	—
(50%Emax) 1532.635	—
(60%Emax) 1839.16	—
(70%Emax) 2145.688	—
(80%Emax) 2452.215	—
(90%Emax) 2758.75	—





Luminance Table

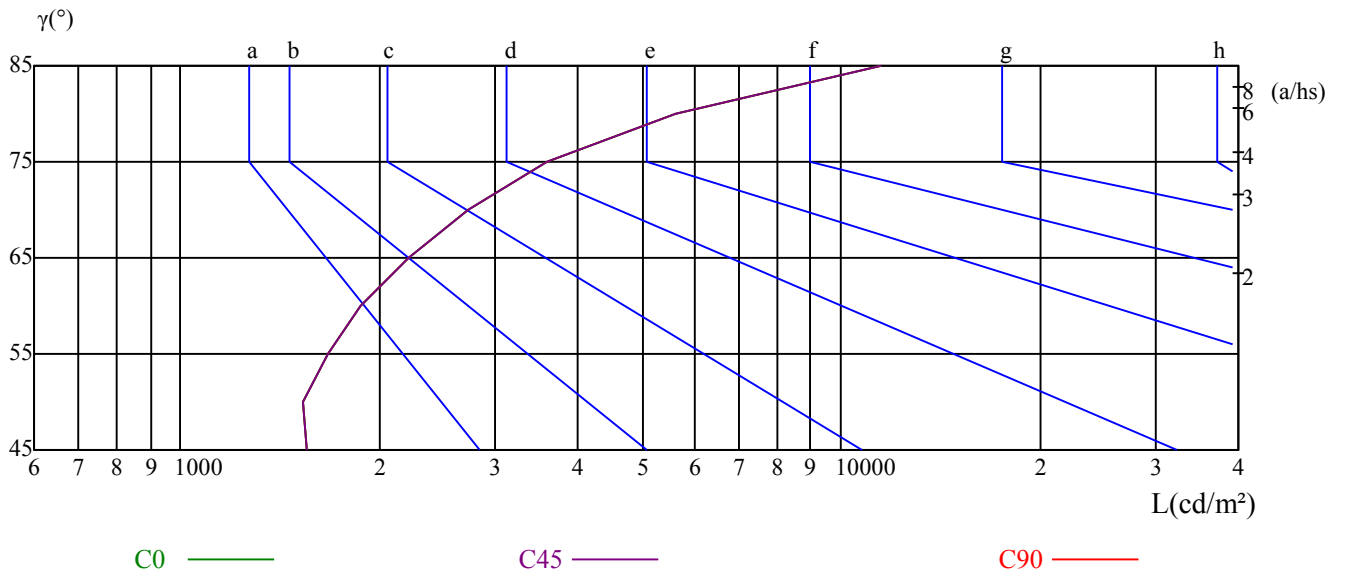
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1554	1529	1667	1878	2211	2723	3586	5623	11524
C45	1554	1529	1667	1878	2211	2723	3586	5623	11524
C90	1554	1529	1667	1878	2211	2723	3586	5623	11524

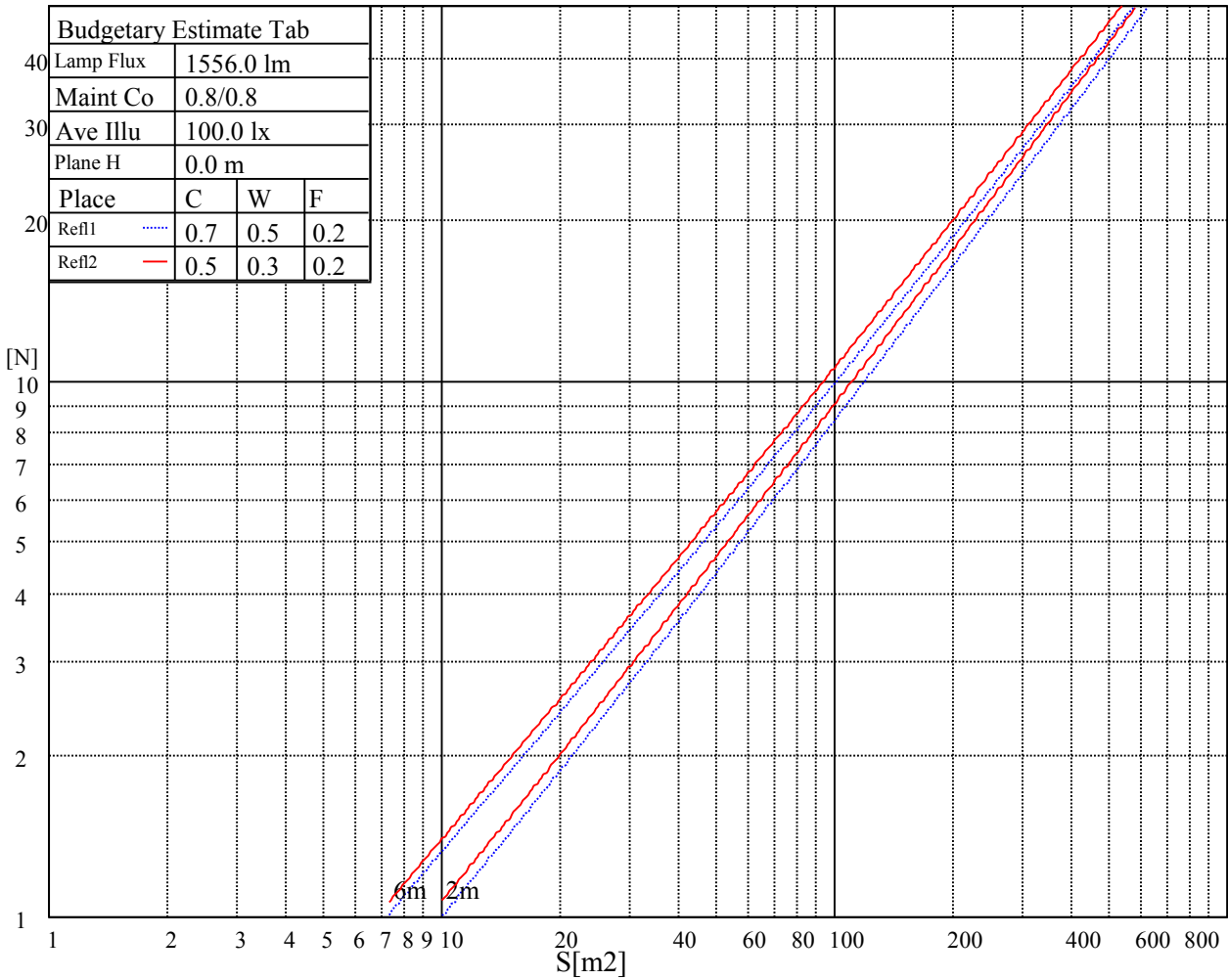
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2211	2211	2211	3586	3586	3586	11524	11524	11524

Glare Table

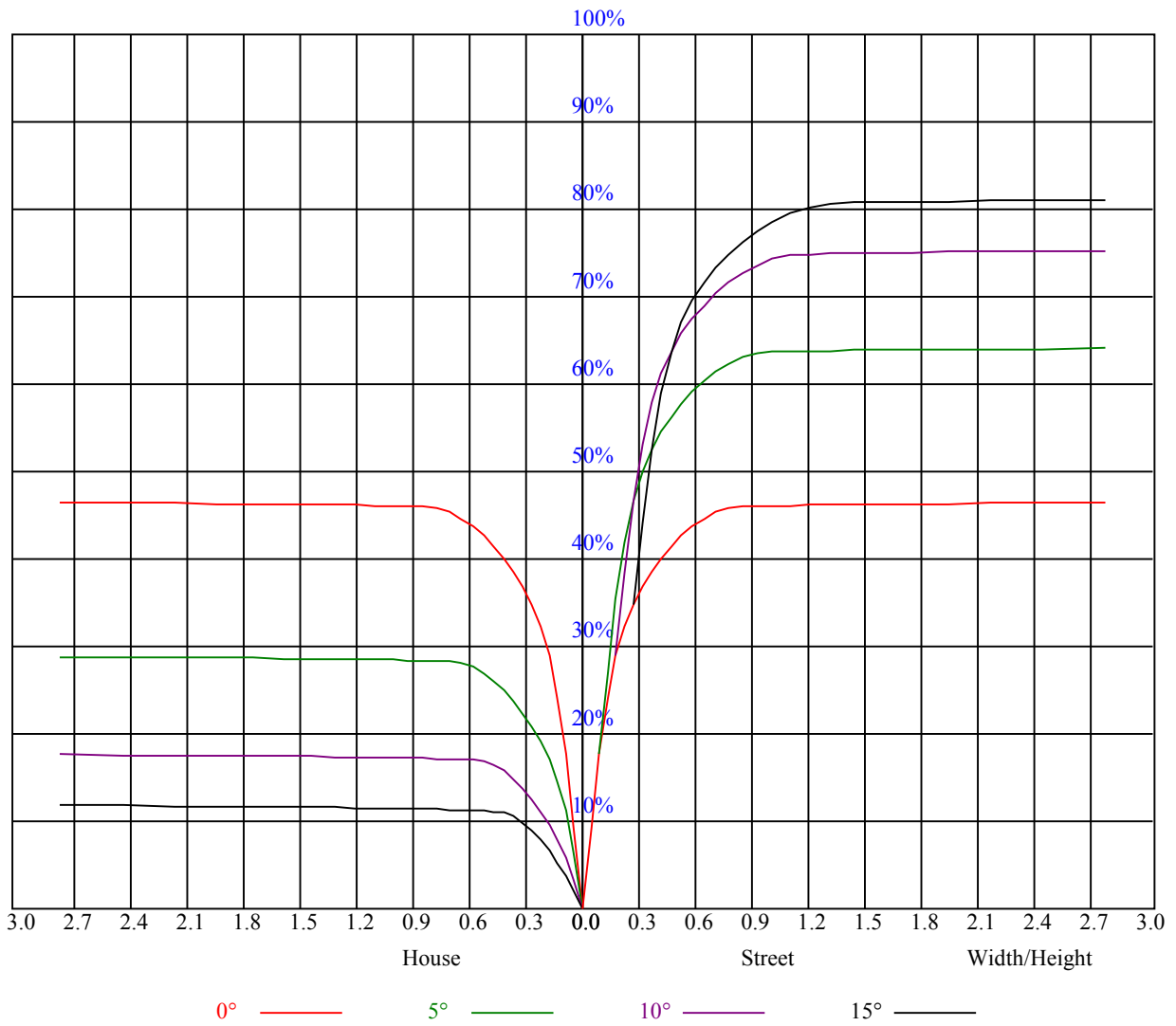
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.03	0.99	0.96	1.00	0.97	0.94	0.96	0.94	0.91	0.93	0.90	0.88	0.89	0.87	0.86	0.84
2	0.97	0.93	0.89	0.96	0.92	0.88	0.92	0.89	0.86	0.90	0.87	0.84	0.87	0.85	0.83	0.81
3	0.93	0.88	0.84	0.92	0.87	0.84	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.78
4	0.89	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.77	0.76
5	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.74
6	0.83	0.78	0.74	0.82	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.66
10	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65



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	12740.05	7801.49	2884.96	971.75	611.13	522.49	477.34	330.89	26.70
45.0	12673.98	8599.81	3143.72	1084.06	639.76	529.09	477.89	358.97	49.99
90.0	12745.56	8313.52	2962.03	1032.64	637.44	520.56	470.29	344.71	53.62
135.0	10885.20	9970.71	4024.62	1321.35	727.85	556.62	494.41	423.38	188.68
180.0	12740.05	8145.04	3112.89	1078.83	663.65	532.51	479.27	372.24	73.28
225.0	12673.98	7748.64	2783.65	1014.63	642.01	529.64	477.61	336.45	43.33
270.0	12745.56	8021.72	2873.94	1060.39	644.16	531.29	483.95	360.62	39.26
315.0	10885.20	6732.85	2085.54	855.41	586.19	508.56	467.92	251.33	8.75
360.0	12740.05	7801.49	2884.96	971.75	611.13	522.49	477.34	330.89	26.70
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.72	6.28	6.11	6.00	5.95	5.89	5.89	5.89	5.95
45.0	7.65	6.39	6.22	6.06	6.06	6.00	6.00	6.28	6.17
90.0	6.72	6.28	6.11	6.00	5.95	5.95	5.95	5.95	6.17
135.0	8.26	6.33	6.17	6.06	6.11	5.95	5.89	5.89	6.00
180.0	6.66	6.22	6.06	5.95	5.89	5.89	5.89	5.89	5.89
225.0	6.72	6.28	6.06	6.00	5.95	6.06	5.95	6.33	7.27
270.0	7.05	6.39	6.17	6.06	6.00	6.00	6.00	6.72	7.65
315.0	6.50	6.17	6.06	5.95	5.95	5.95	5.95	7.05	6.33
360.0	6.72	6.28	6.11	6.00	5.95	5.89	5.89	5.89	5.95
C/ $\gamma$ (°)	90.0								
0.0	5.84								
45.0	5.95								
90.0	5.84								
135.0	5.84								
180.0	5.84								
225.0	5.95								
270.0	5.95								
315.0	5.84								
360.0	5.84								