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## Nata

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LumCAT: 1-1250-L	
Luminaire: 92.70.123.00	
Report No: 220929-B010	Voltage(V): 34.5600
Test No: 220929-C010	Current(A): 0.1850
LampCAT: LUMINUS CXM-6	Power (W): 6.3930
Lamp flux(lm): 813.4	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 690.70  
Efficiency(%): 84.91%  
Lumens(lm)/Power(W): 108.04  
Central intensity(cd): 1651.421  
Maximum intensity(cd): 1651.421  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=36.0  
                                  [C90/270]Total=36.0  
Field angle(10%Imax): [C0/180]Total=61.1  
                                  [C90/270]Total=61.1  
Maximum s/h(1/2): C0\_180=0.58 C90\_270=0.58  
Maximum s/h(1/4): C0\_180=0.60 C90\_270=0.60  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 84.91%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.947%

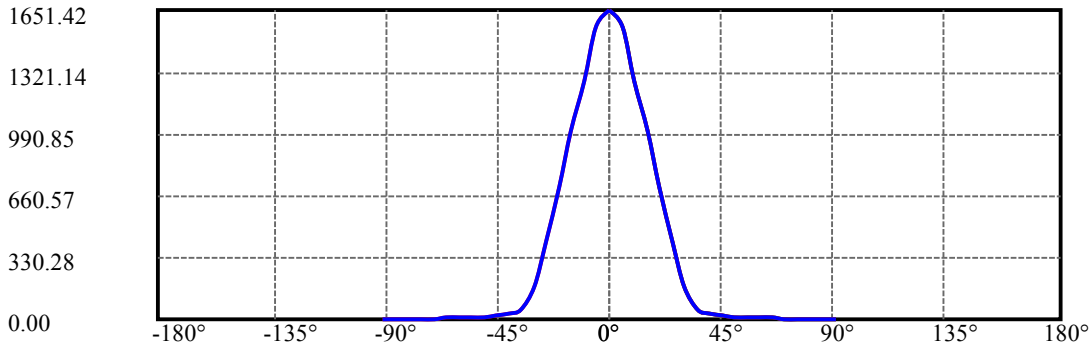
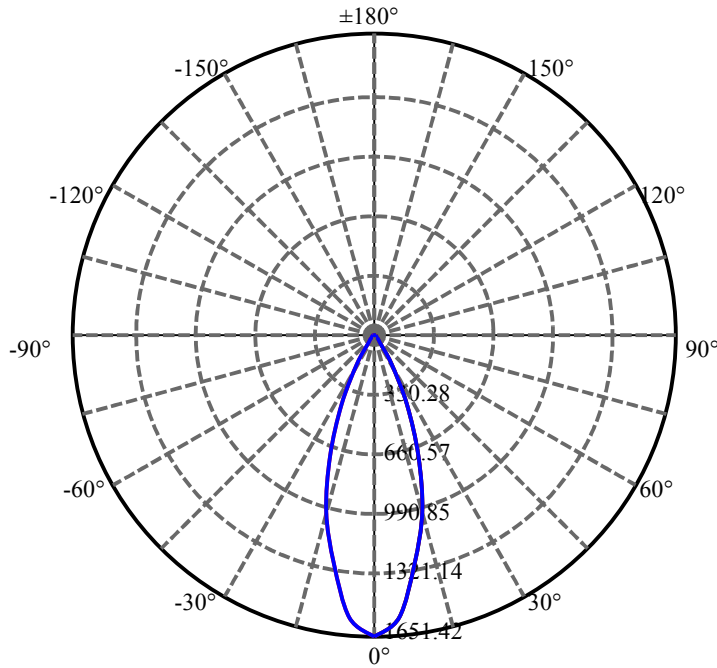
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1651.421	0.000	0	.000%	.000%
5.0	1555.144	38.334	38.334	4.713%	5.550%
10.0	1266.791	100.950	139.283	12.410%	20.165%
15.0	1001.541	134.556	273.839	16.542%	39.646%
20.0	709.469	141.011	414.85	17.335%	60.062%
25.0	415.133	117.950	532.8	14.500%	77.139%
30.0	178.952	75.182	607.982	9.243%	88.024%
35.0	51.582	33.948	641.93	4.173%	92.939%
40.0	26.724	13.065	654.995	1.606%	94.830%
45.0	15.969	7.905	662.9	.972%	95.975%
50.0	11.570	5.565	668.464	.684%	96.780%
55.0	8.724	4.412	672.877	.542%	97.419%
60.0	7.058	3.648	676.525	.448%	97.947%
65.0	5.856	3.139	679.664	.386%	98.402%
70.0	4.982	2.744	682.409	.337%	98.799%
75.0	4.302	2.427	684.835	.298%	99.150%
80.0	3.757	2.156	686.992	.265%	99.463%
85.0	3.369	1.936	688.928	.238%	99.743%
90.0	3.115	1.775	690.703	.218%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	607.98	74.74%	88.02%
0-40	654.99	80.52%	94.83%
0-60	676.52	83.17%	97.95%
0-90	688.93	84.69%	99.74%
0-120	688.93	84.69%	99.74%
0-180	690.70	84.91%	100.00%
60-90	16.05	1.97%	2.32%
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%
0-26.31	552.56	67.93%	80.00%

ZONAL LUMEN SUMMARY

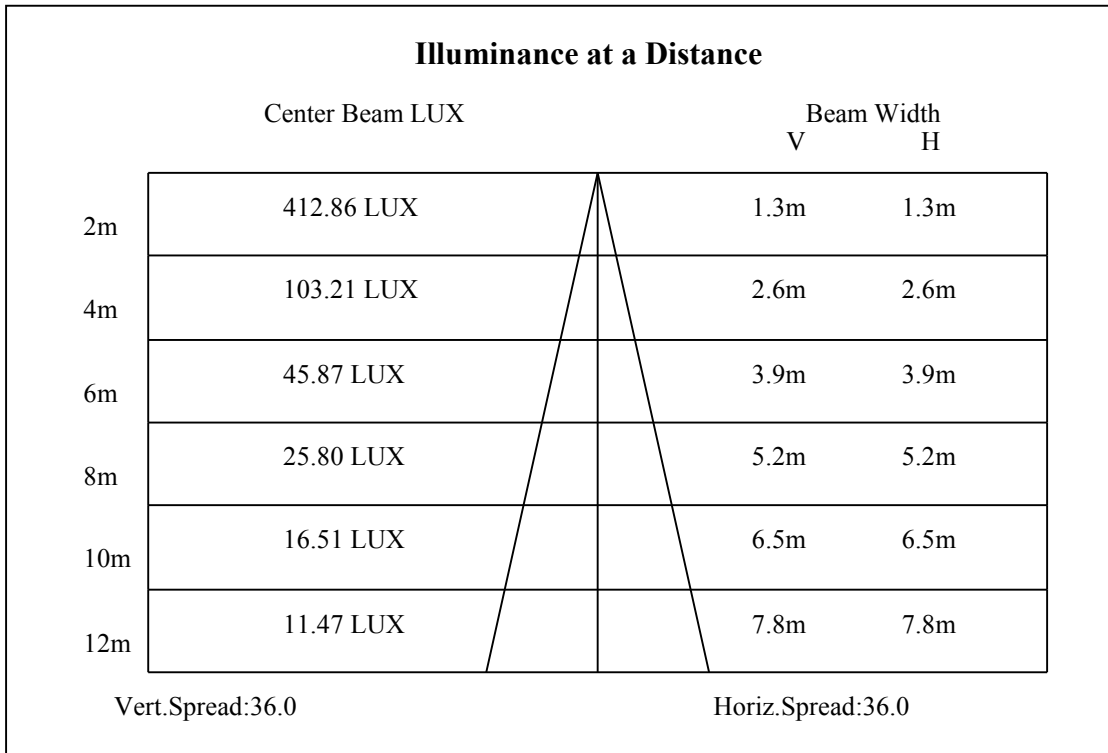
0-10	139.28
10-20	275.57
20-30	193.13
30-40	47.01
40-50	13.47
50-60	8.06
60-70	5.88
70-80	4.58
80-90	1.94
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

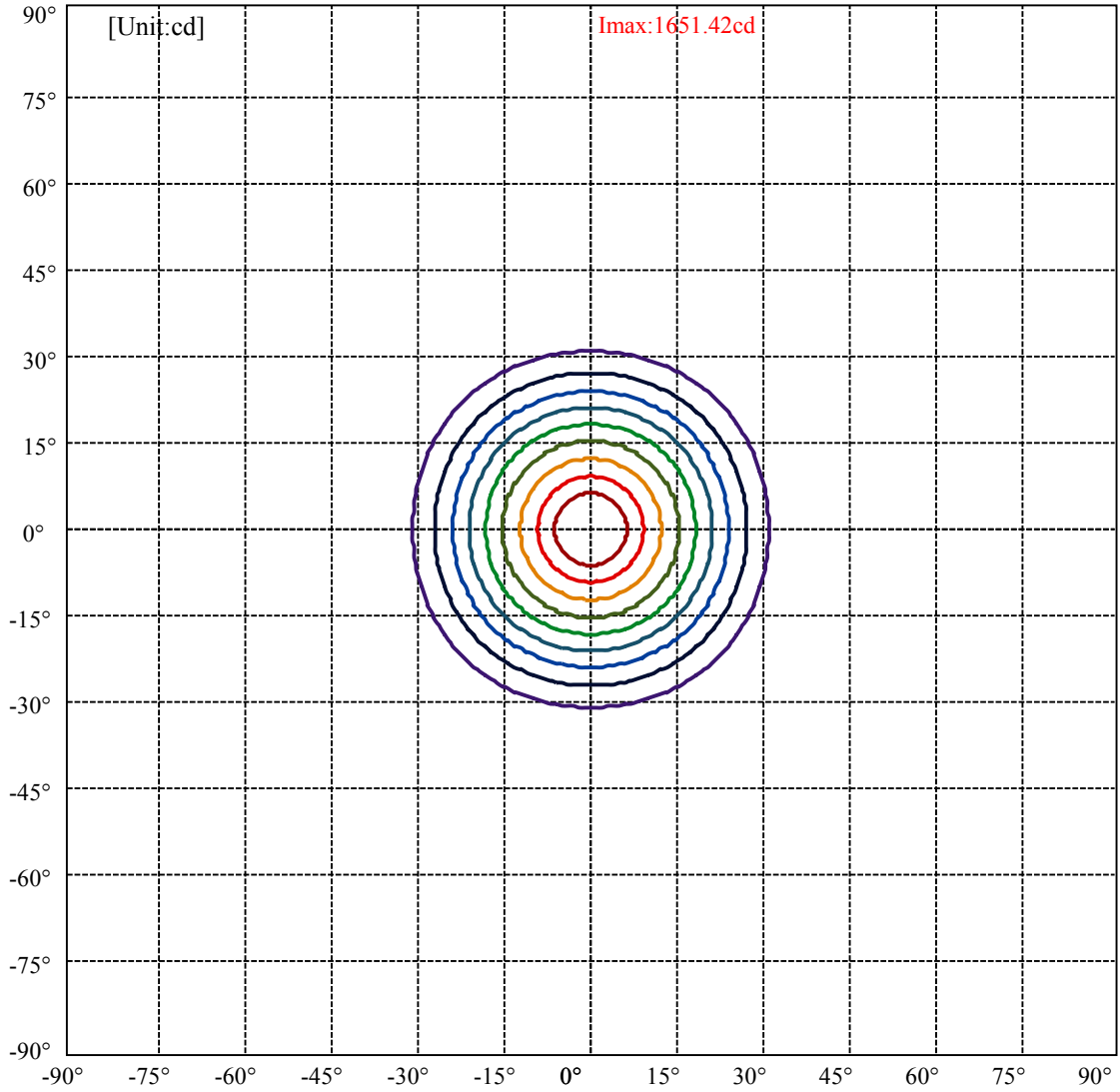


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

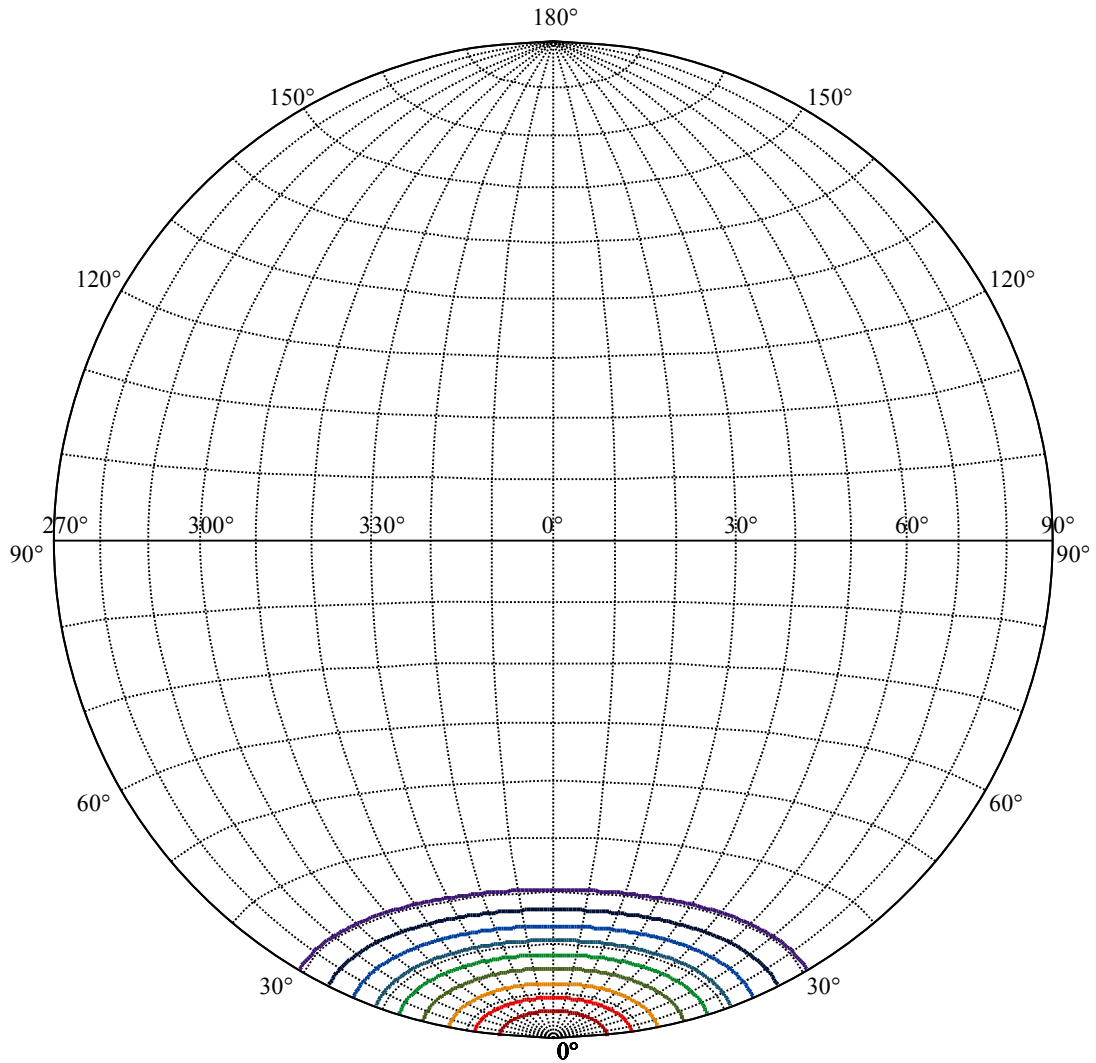
Field angle(10%Imax):C0/180Left:30.5 Right:30.5  
:C90/270Left:30.5 Right:30.5

Beam Angle(50%Imax):C0/180Left:18.0 Right:18.0  
:C90/270Left:18.0 Right:18.0





(10%I <sub>max</sub> ) 165.142	—
(20%I <sub>max</sub> ) 330.284	—
(30%I <sub>max</sub> ) 495.426	—
(40%I <sub>max</sub> ) 660.568	—
(50%I <sub>max</sub> ) 825.71	—
(60%I <sub>max</sub> ) 990.852	—
(70%I <sub>max</sub> ) 1155.99	—
(80%I <sub>max</sub> ) 1321.14	—
(90%I <sub>max</sub> ) 1486.28	—



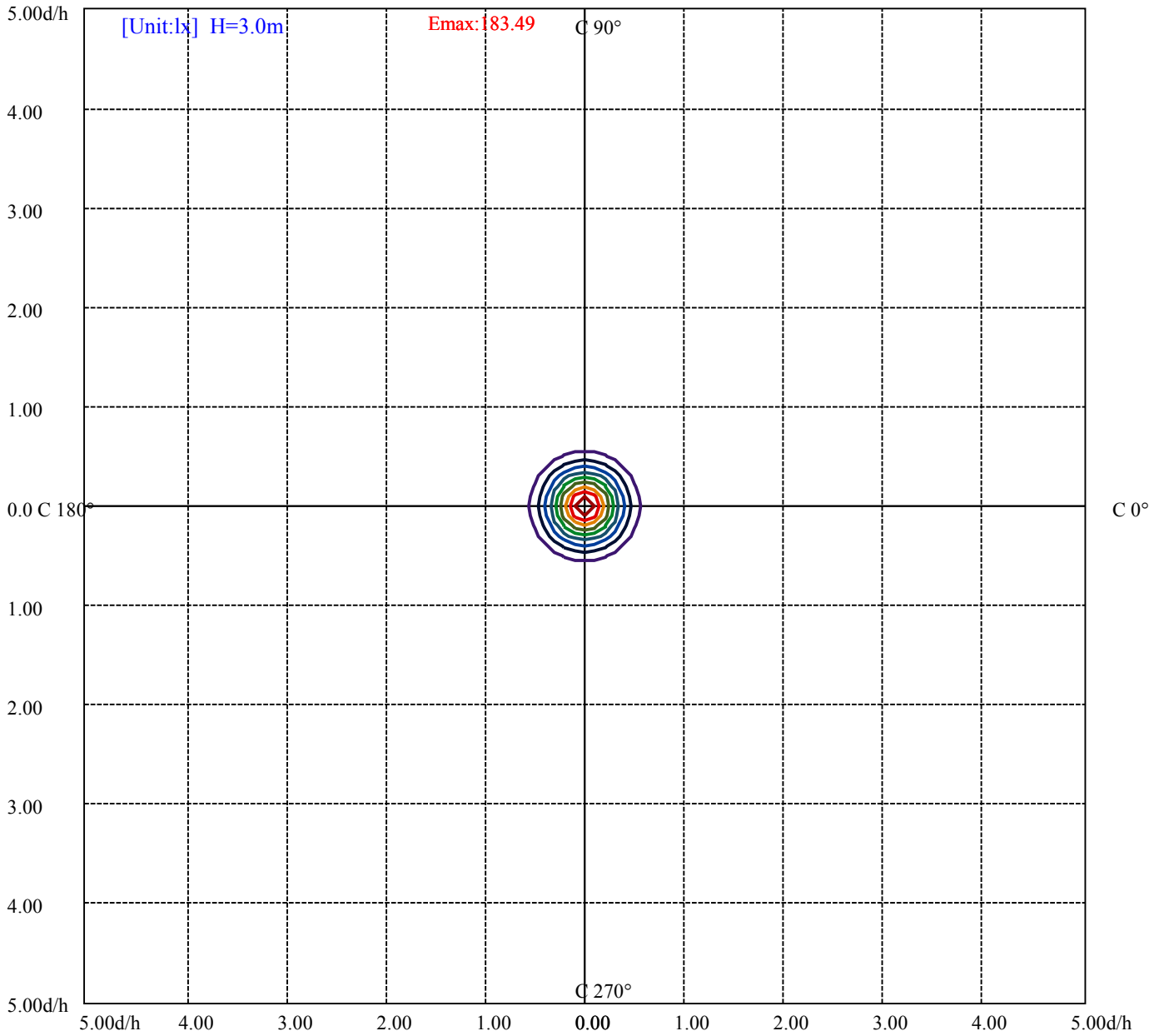
House

[Unit:cd]

Road

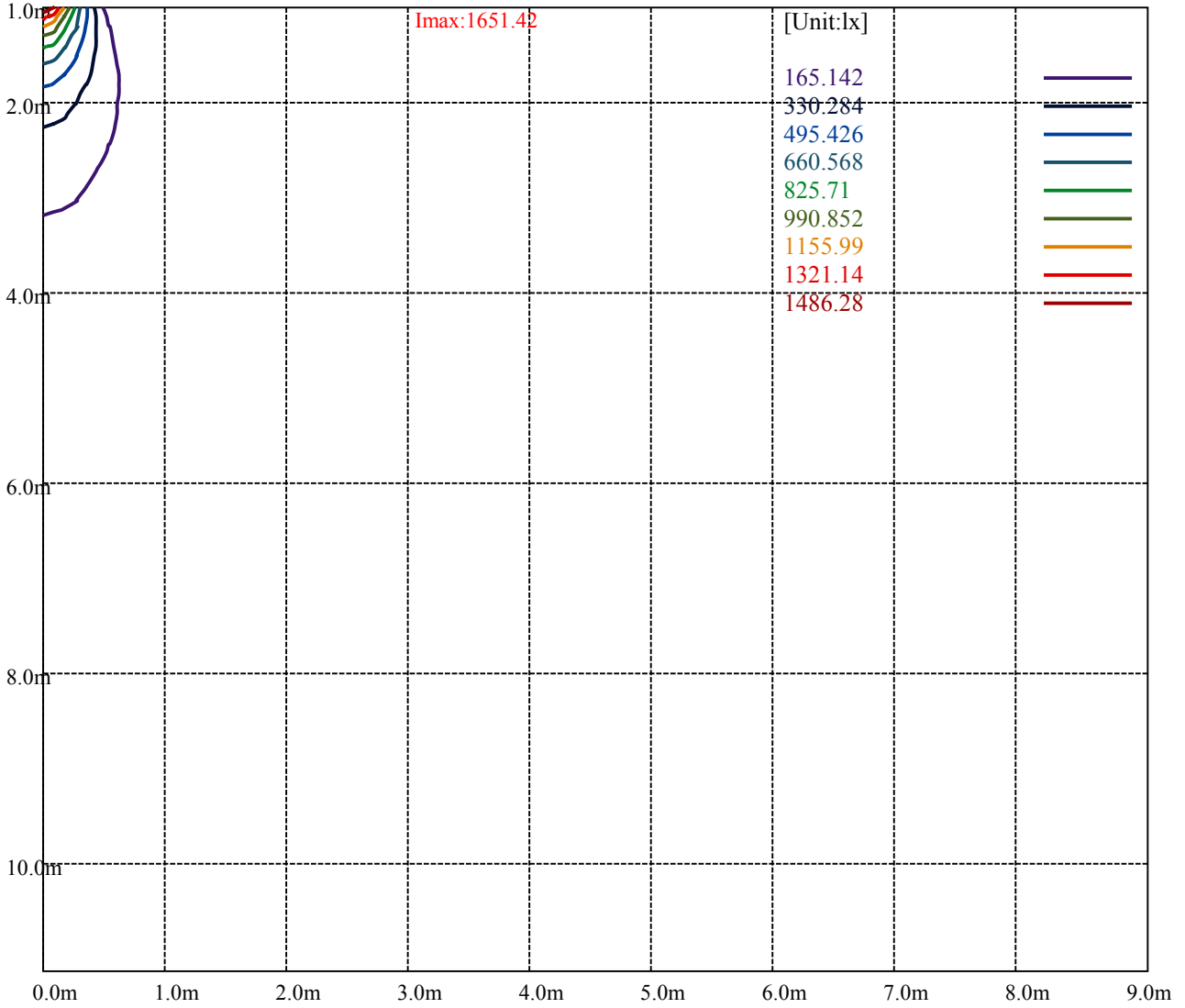
I<sub>max</sub>:1651.42

(10%I <sub>max</sub> )	165.142	—
(20%I <sub>max</sub> )	330.284	—
(30%I <sub>max</sub> )	495.426	—
(40%I <sub>max</sub> )	660.568	—
(50%I <sub>max</sub> )	825.71	—
(60%I <sub>max</sub> )	990.852	—
(70%I <sub>max</sub> )	1155.99	—
(80%I <sub>max</sub> )	1321.14	—
(90%I <sub>max</sub> )	1486.28	—



(10%Emax) 18.34911	—
(20%Emax) 36.69822	—
(30%Emax) 55.04722	—
(40%Emax) 73.39633	—
(50%Emax) 91.74545	—
(60%Emax) 110.0946	—
(70%Emax) 128.4433	—
(80%Emax) 146.7922	—
(90%Emax) 165.1422	—





Luminance Table

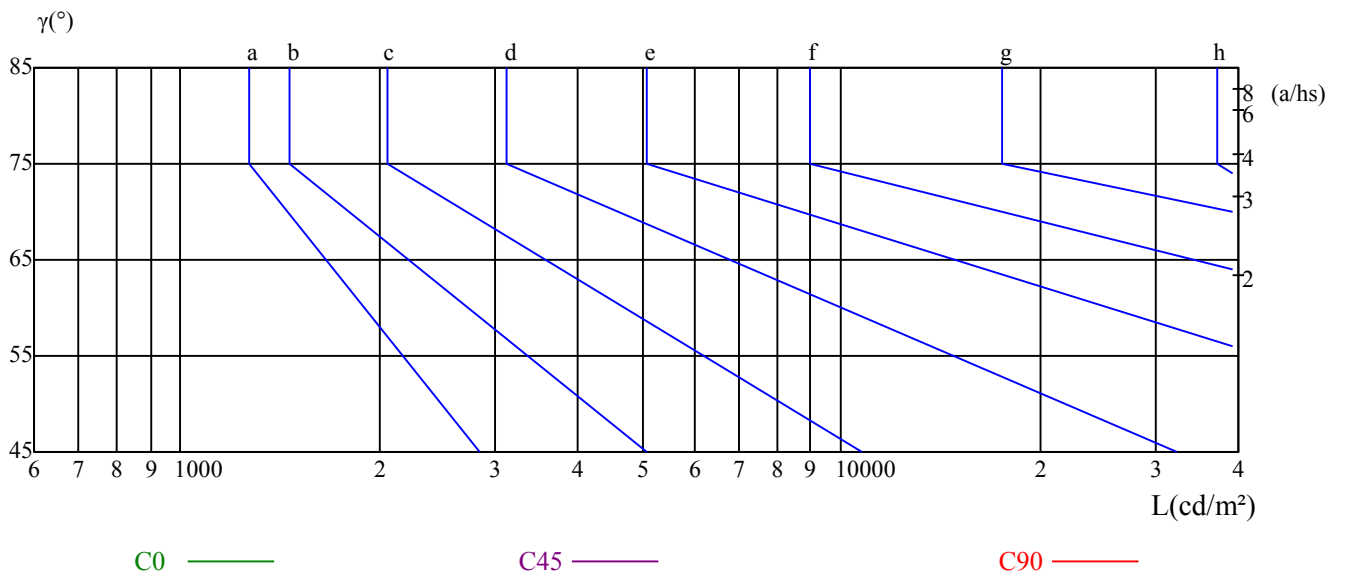
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

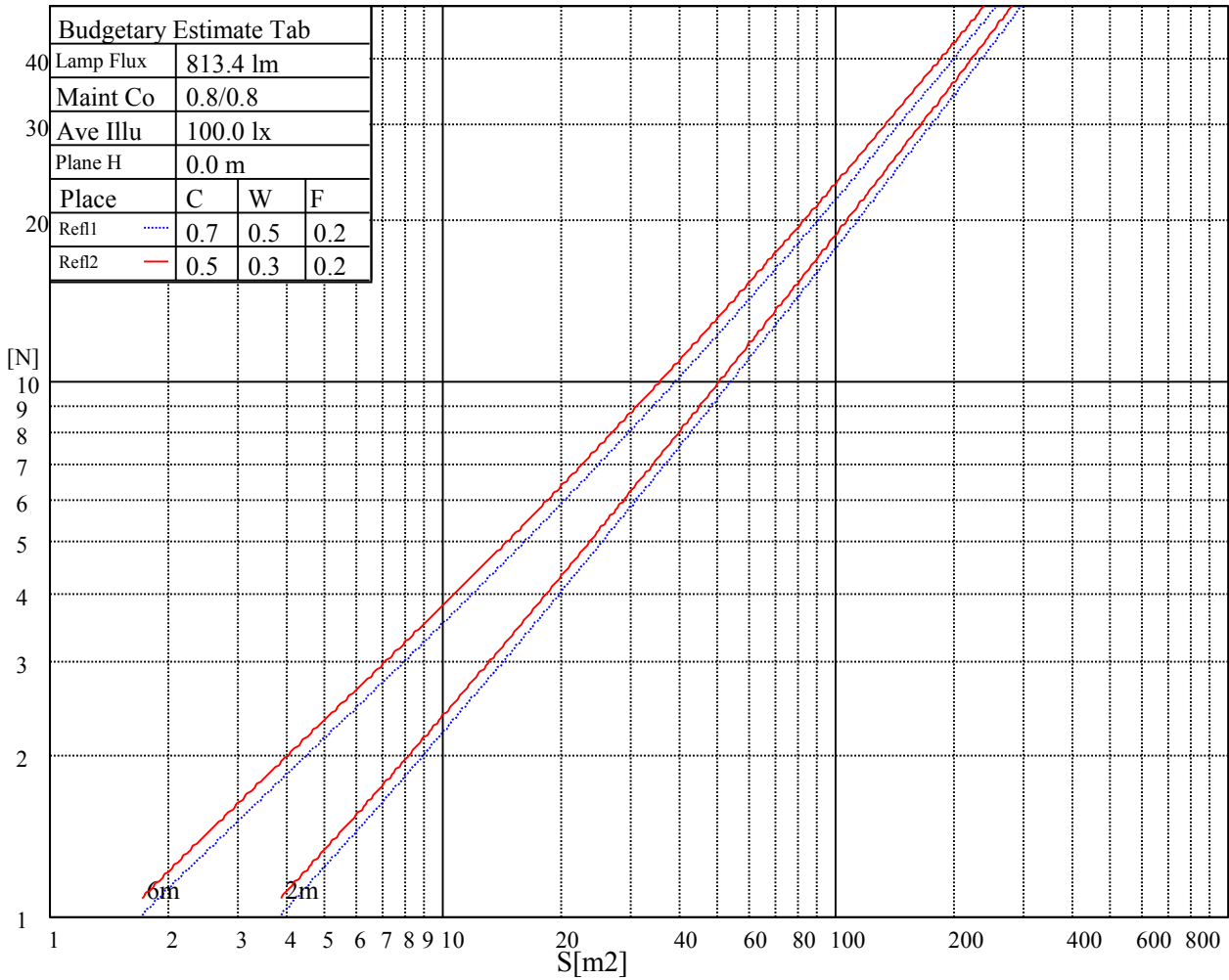
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

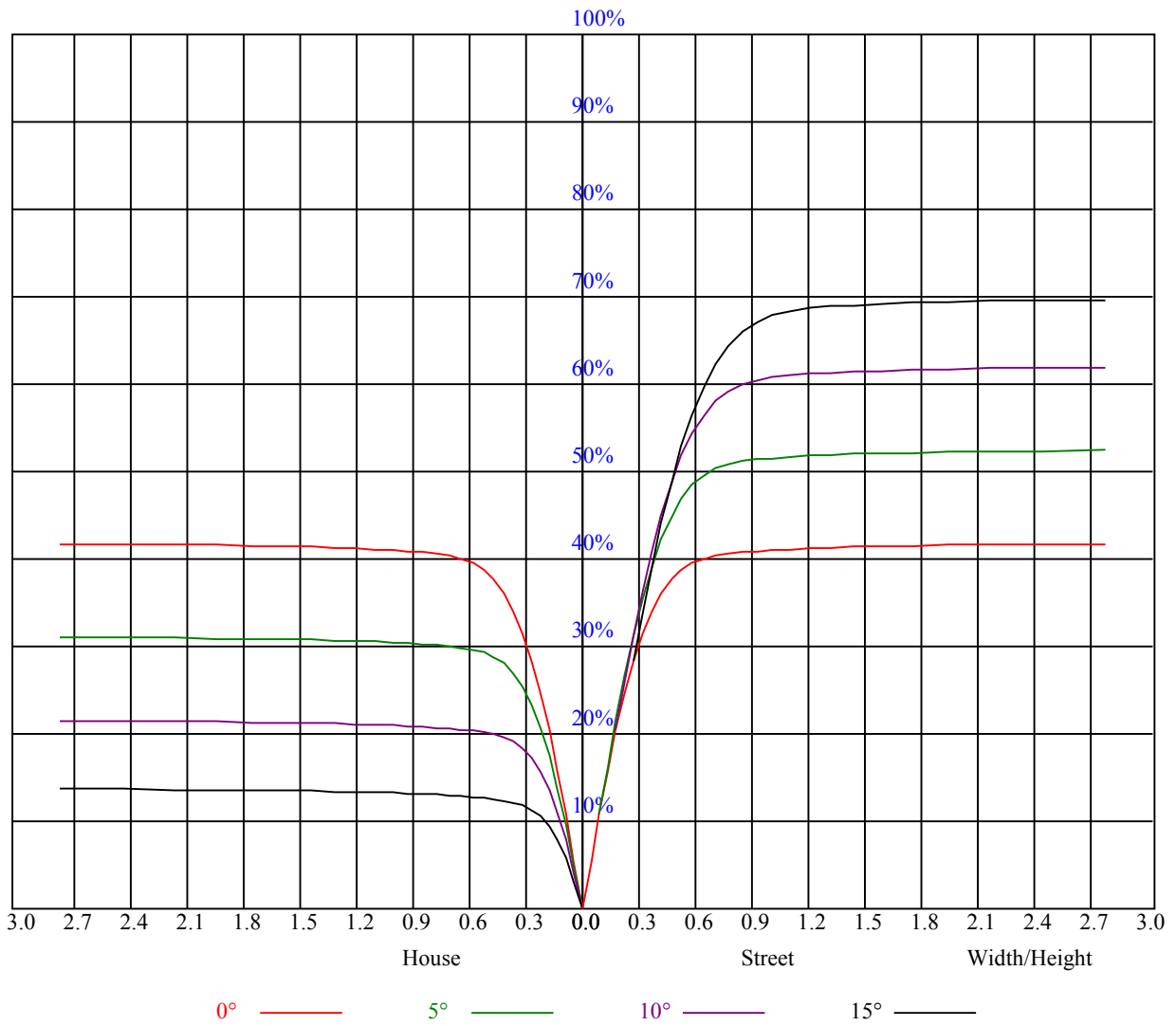
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.82	0.80	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.72	0.70	0.69
5	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.63	0.62
7	0.69	0.65	0.62	0.69	0.64	0.62	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
8	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
10	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53



Nata 1-1250-L

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	1645.00	1609.15	1397.62	1112.00	810.85	509.69	305.34	62.08	31.73
45.0	1652.77	1587.04	1380.89	1061.81	749.90	446.35	231.06	53.78	28.26
90.0	1654.56	1548.80	1176.65	968.42	656.33	362.82	140.06	46.79	23.24
135.0	1653.36	1565.53	1309.19	989.51	693.73	398.55	154.34	54.08	26.59
180.0	1645.00	1499.80	1177.19	900.18	627.47	327.63	112.22	42.60	22.47
225.0	1652.77	1508.76	1180.06	947.44	670.25	381.70	138.75	45.83	24.44
270.0	1654.56	1567.32	1328.31	1021.77	743.92	470.26	185.17	56.35	29.94
315.0	1653.36	1554.77	1184.42	1011.20	723.31	424.07	164.68	51.15	27.13
360.0	1645.00	1609.15	1397.62	1112.00	810.85	509.69	305.34	62.08	31.73
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.05	12.91	9.38	7.41	6.15	5.20	4.48	3.94	3.47
45.0	17.21	12.43	9.32	7.59	6.15	5.20	4.48	3.88	3.41
90.0	14.64	10.64	8.07	6.63	5.50	4.72	4.06	3.64	3.29
135.0	15.12	11.17	8.48	6.87	5.74	4.90	4.18	3.70	3.29
180.0	13.98	10.22	8.07	6.69	5.62	4.78	4.12	3.53	3.29
225.0	14.76	10.70	8.13	6.69	5.62	4.78	4.24	3.64	3.35
270.0	17.75	12.73	9.56	7.59	6.21	5.26	4.54	3.94	3.47
315.0	16.25	11.77	8.78	6.99	5.86	5.02	4.30	3.76	3.41
360.0	18.05	12.91	9.38	7.41	6.15	5.20	4.48	3.94	3.47
C/ $\gamma$ (°)	90.0								
0.0	3.17								
45.0	3.11								
90.0	3.17								
135.0	3.11								
180.0	3.11								
225.0	3.11								
270.0	3.05								
315.0	3.11								
360.0	3.17								