



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: LN01D05060DA-N

Luminaire: 97.70.234.00

Report No: 210104-B014

Test No: 210104-C014

LampCAT: BRIDGELUX V10 LES10.2

Lamp flux(lm): 1791.0

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 34.6600

Current(A): 0.3800

Power (W): 13.1700

PF: 0.0000

Ballast type: DC

Width(mm): 92

Height(mm): 50

Photometric Results

Lumens(lm): 1580.78

Efficiency(%): 88.26%

Lumens(lm)/Power(W): 120.03

Central intensity(cd): 1637.156

Maximum intensity(cd): 1637.156

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=57.6

[C90/270]Total=57.6

Field angle(10%Imax): [C0/180]Total=90.0

[C90/270]Total=90.0

Maximum s/h(1/2): C0_180=0.87 C90_270=0.87

Maximum s/h(1/4): C0_180=0.88 C90_270=0.88

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.26%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.115%

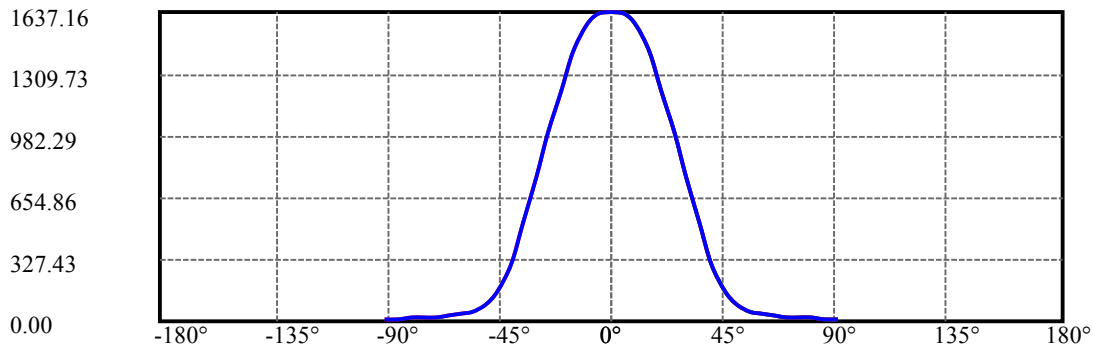
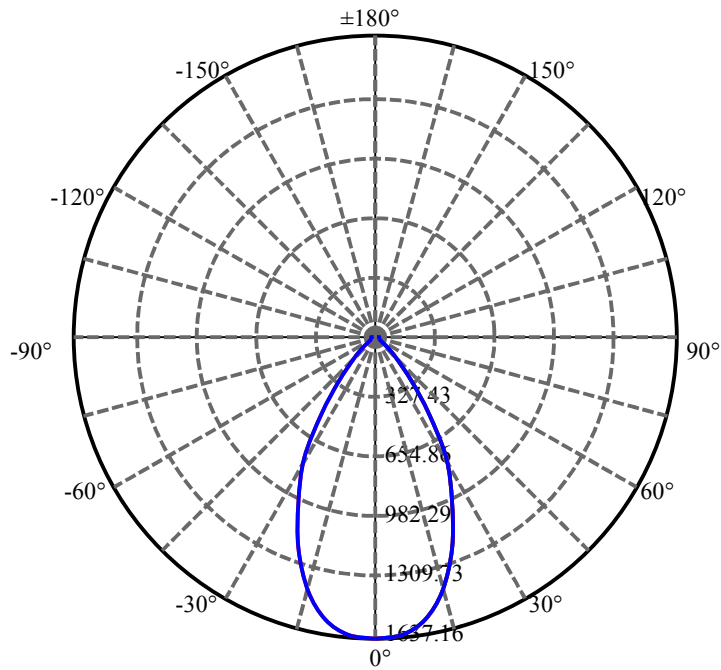
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1637.156	0.000	0	.000%	.000%
5.0	1622.953	38.974	38.974	2.176%	2.465%
10.0	1561.359	113.913	152.887	6.360%	9.672%
15.0	1426.992	177.267	330.154	9.898%	20.885%
20.0	1217.327	217.929	548.083	12.168%	34.672%
25.0	991.737	231.690	779.773	12.936%	49.328%
30.0	762.877	222.048	1001.82	12.398%	63.375%
35.0	513.858	188.008	1189.829	10.497%	75.268%
40.0	309.312	137.340	1327.168	7.668%	83.957%
45.0	163.188	87.487	1414.655	4.885%	89.491%
50.0	93.108	51.788	1466.444	2.892%	92.767%
55.0	54.394	32.072	1498.516	1.791%	94.796%
60.0	35.817	20.852	1519.368	1.164%	96.115%
65.0	25.481	14.902	1534.269	.832%	97.058%
70.0	21.565	11.912	1546.182	.665%	97.811%
75.0	22.134	11.422	1557.604	.638%	98.534%
80.0	19.167	11.051	1568.655	.617%	99.233%
85.0	9.281	7.730	1576.385	.432%	99.722%
90.0	6.771	4.395	1580.78	.245%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1001.82	55.94%	63.38%
0-40	1327.17	74.10%	83.96%
0-60	1519.37	84.83%	96.12%
0-90	1576.39	88.02%	99.72%
0-120	1576.39	88.02%	99.72%
0-180	1580.78	88.26%	100.00%
60-90	77.87	4.35%	4.93%
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%
0-37.72	1264.62	70.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	152.89
10-20	395.20
20-30	453.74
30-40	325.35
40-50	139.28
50-60	52.92
60-70	26.81
70-80	22.47
80-90	7.73
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: —————

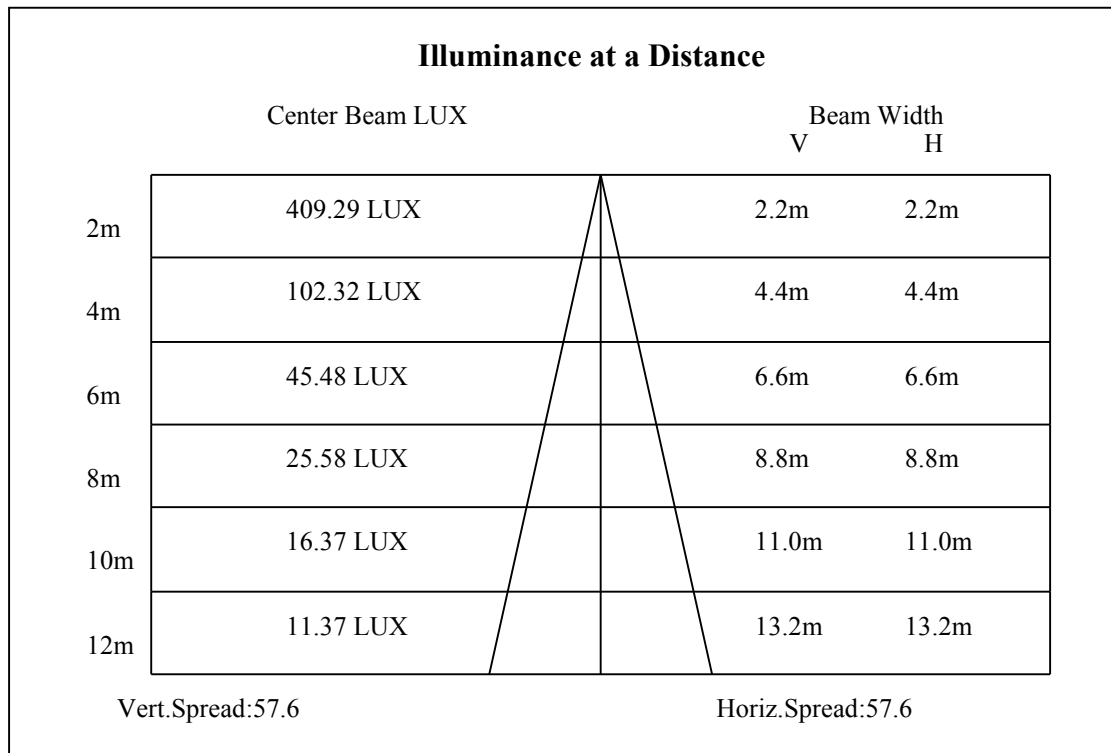
C90/C270: —————

Field angle(10%Imax):C0/180Left:45.0 Right:45.0

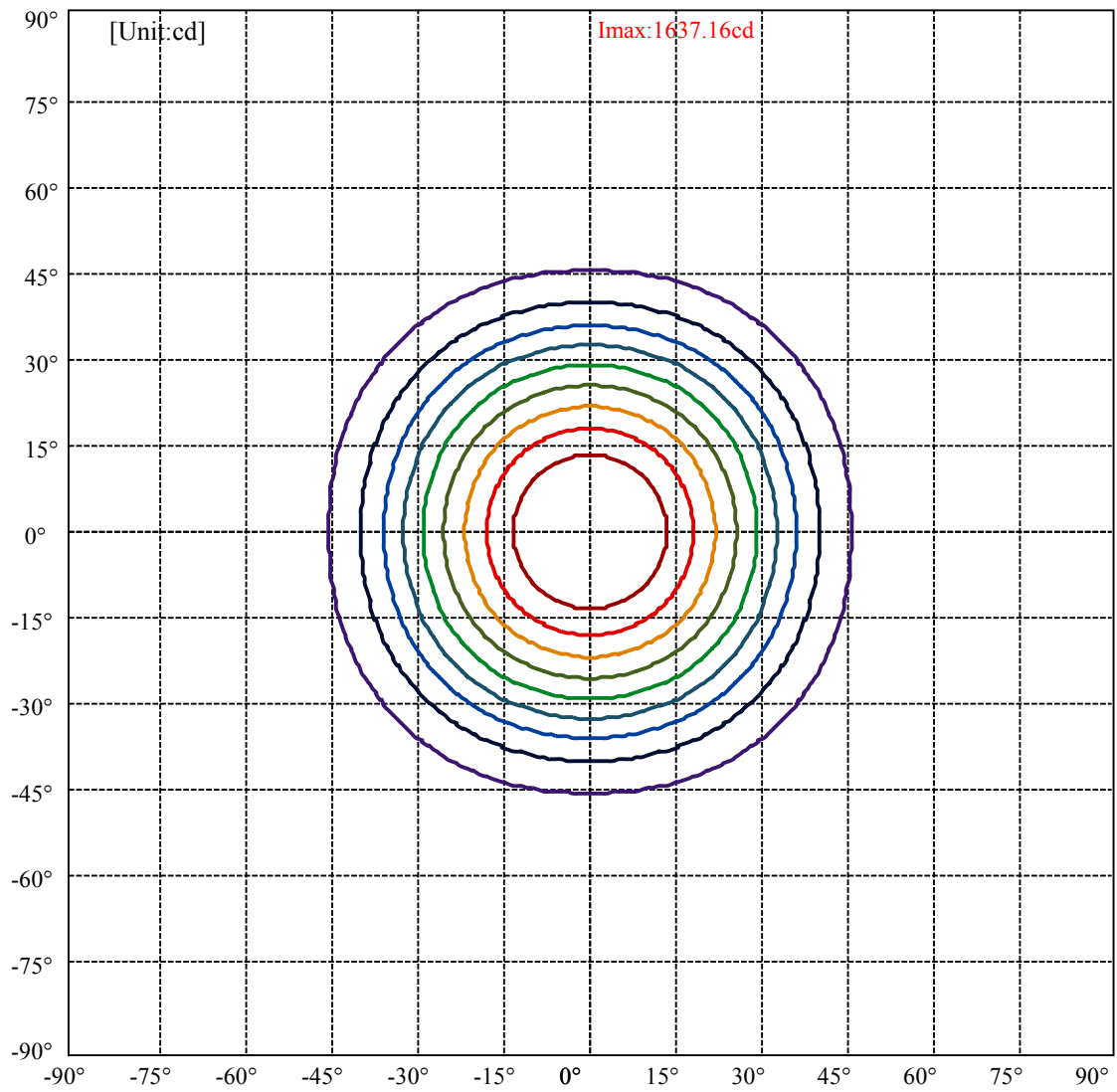
:C90/270Left:45.0 Right:45.0

Beam Angle(50%Imax):C0/180Left:28.8 Right:28.8

:C90/270Left:28.8 Right:28.8



ISO-Intensity(V-H)

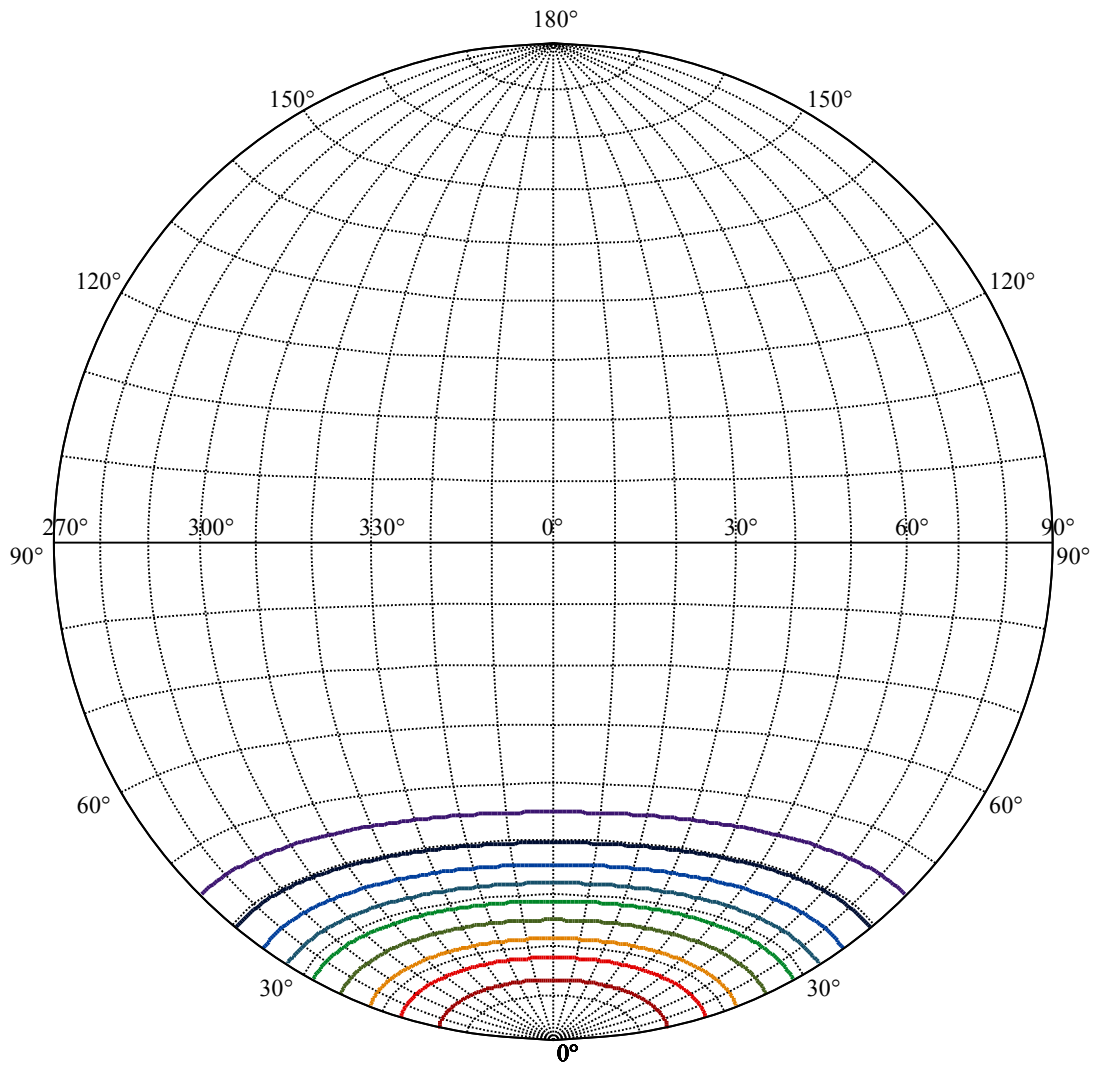


(10%Imax) 163.716	—
(20%Imax) 327.431	—
(30%Imax) 491.147	—
(40%Imax) 654.863	—
(50%Imax) 818.578	—
(60%Imax) 982.294	—
(70%Imax) 1146.01	—
(80%Imax) 1309.73	—
(90%Imax) 1473.44	—

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/01/04
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50












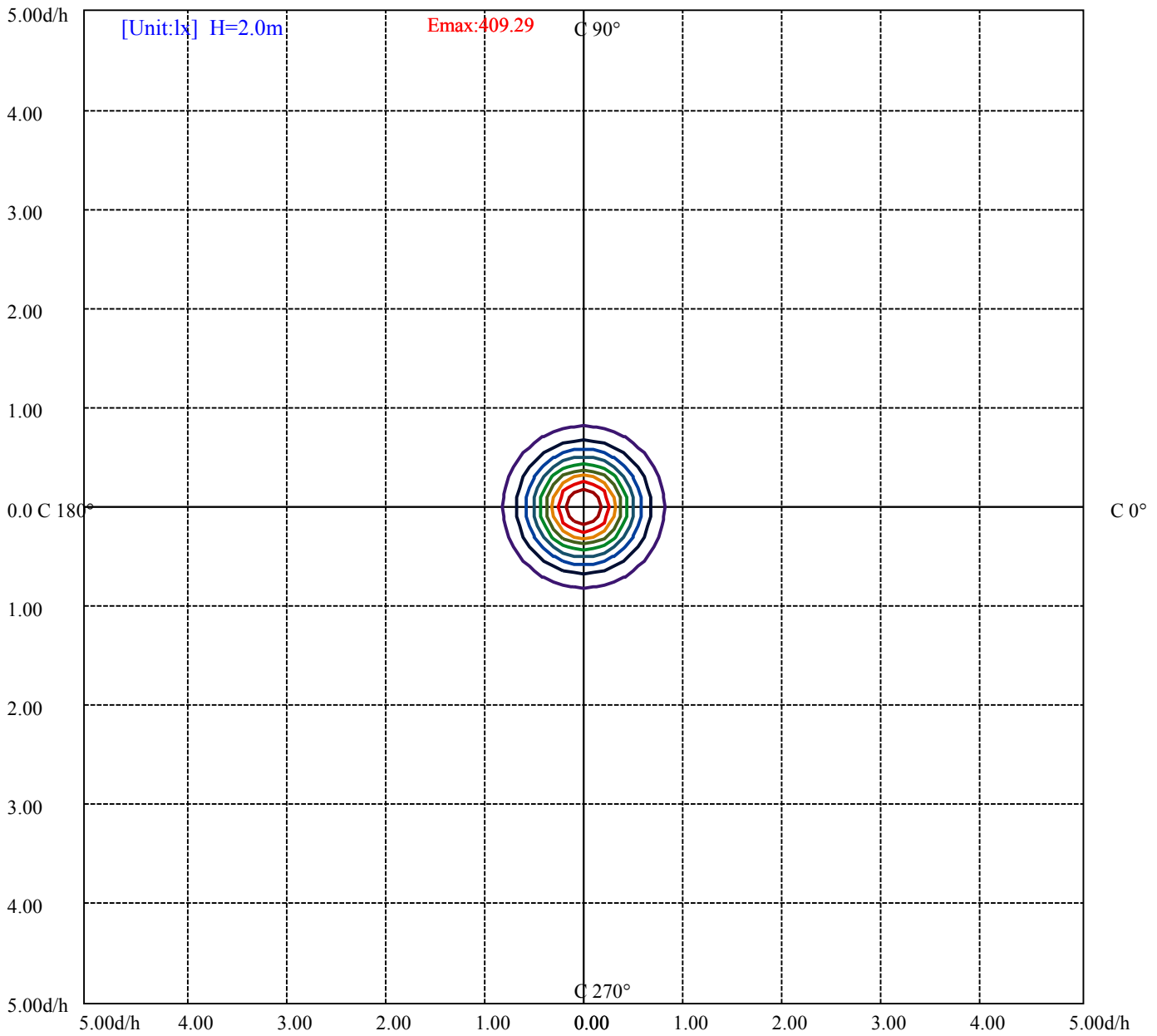
House

[Unit:cd]

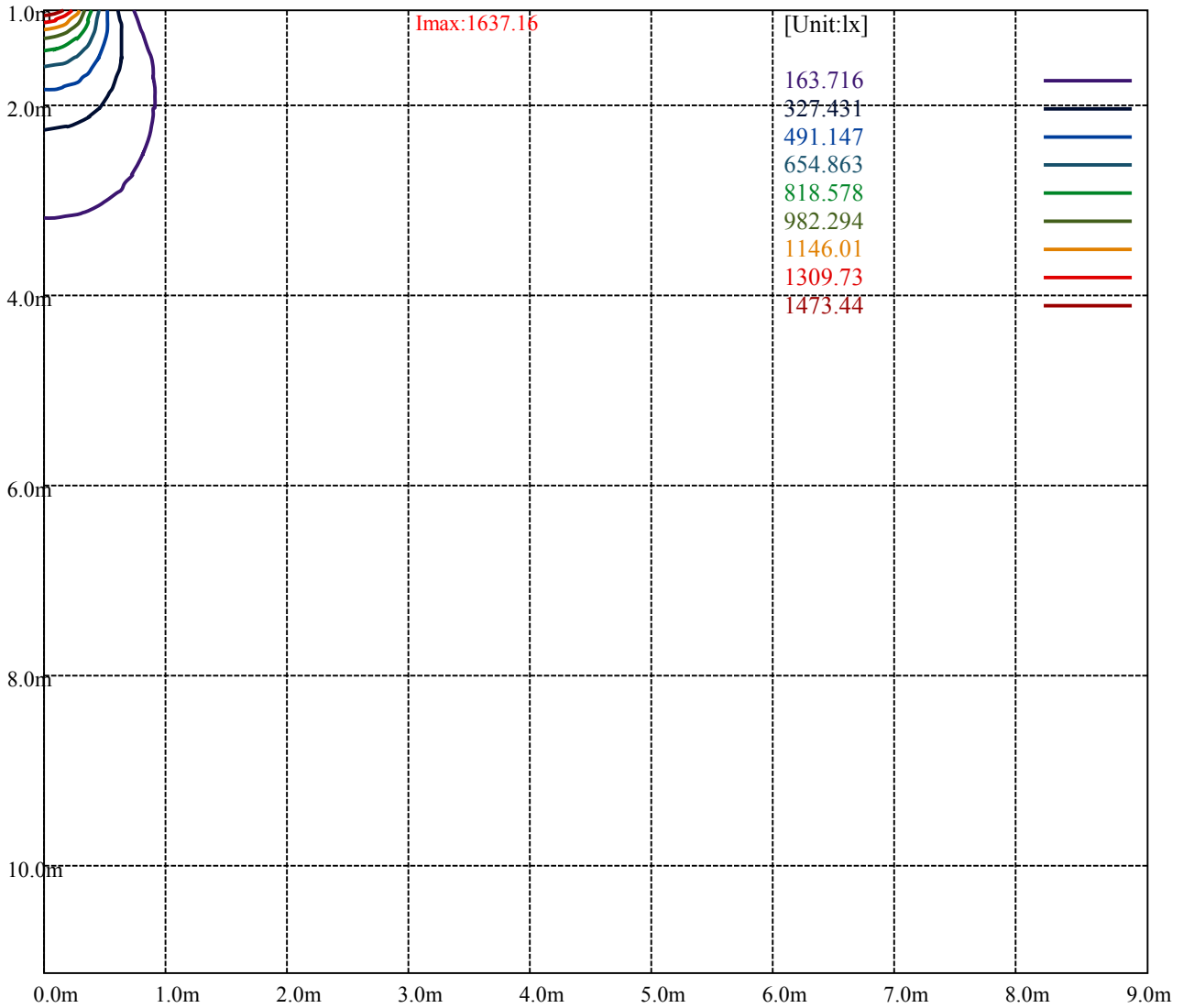
Road

Imax:1637.16

(10%Imax)	163.716	
(20%Imax)	327.431	
(30%Imax)	491.147	
(40%Imax)	654.863	
(50%Imax)	818.578	
(60%Imax)	982.294	
(70%Imax)	1146.01	
(80%Imax)	1309.73	
(90%Imax)	1473.44	



(10%Emax) 40.929	—
(20%Emax) 81.85775	—
(30%Emax) 122.7868	—
(40%Emax) 163.7155	—
(50%Emax) 204.6445	—
(60%Emax) 245.5735	—
(70%Emax) 286.5025	—
(80%Emax) 327.43	—
(90%Emax) 368.36	—



Luminance Table

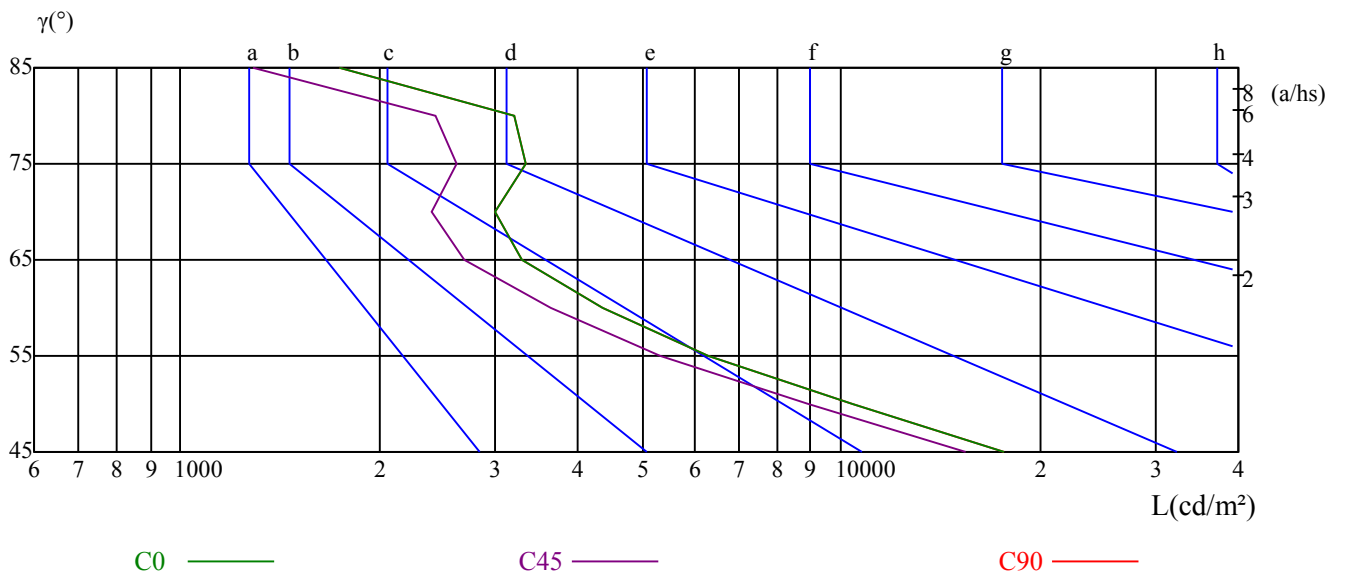
γ	45	50	55	60	65	70	75	80	85
C0	17666	10386	6308	4360	3290	2988	3337	3195	1745
C45	15417	8932	5341	3630	2690	2394	2612	2434	1286
C90	17666	10386	6308	4360	3290	2988	3337	3195	1745

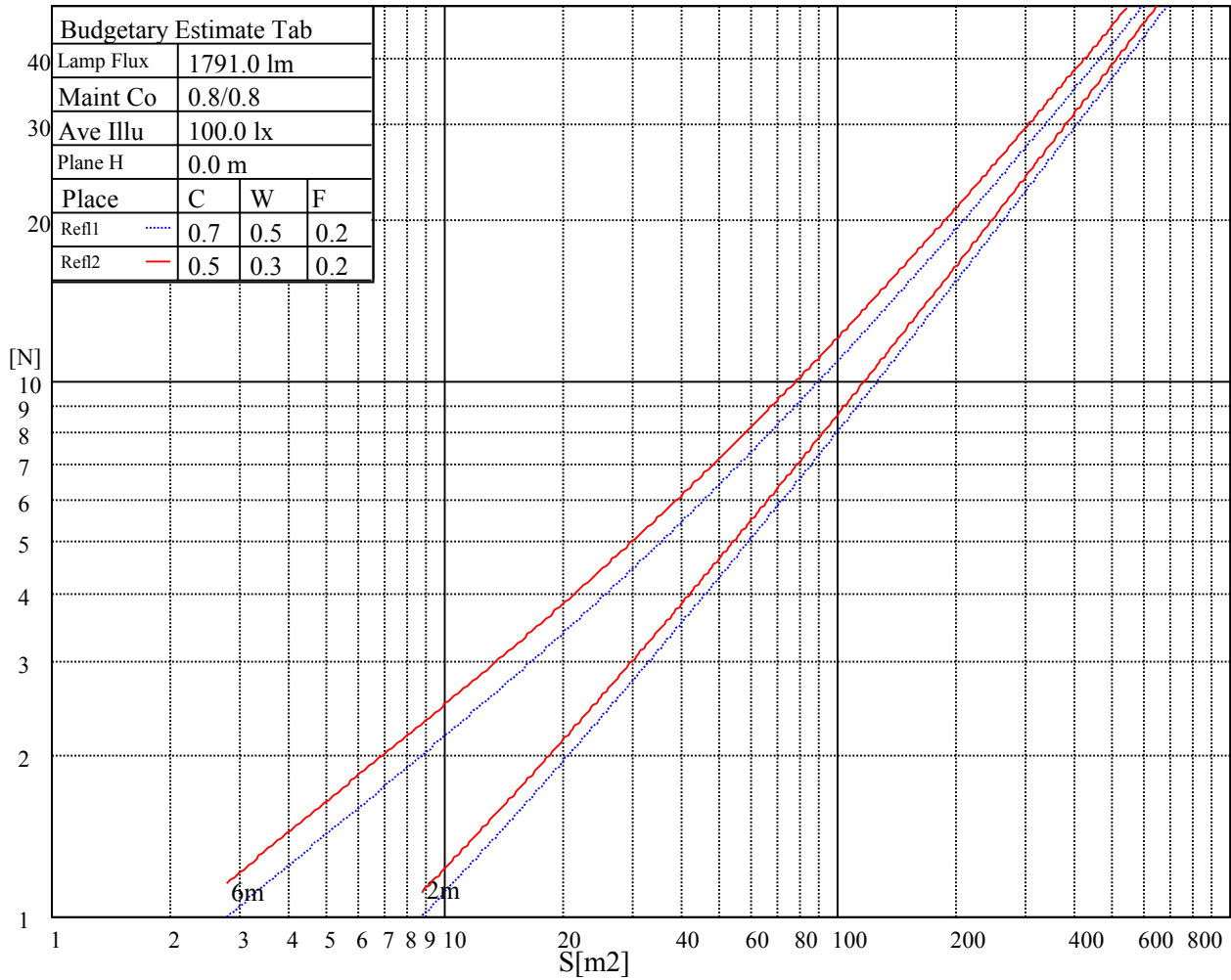
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7124	7124	7124	10104	10104	10104	12582	12582	12582

Glare Table

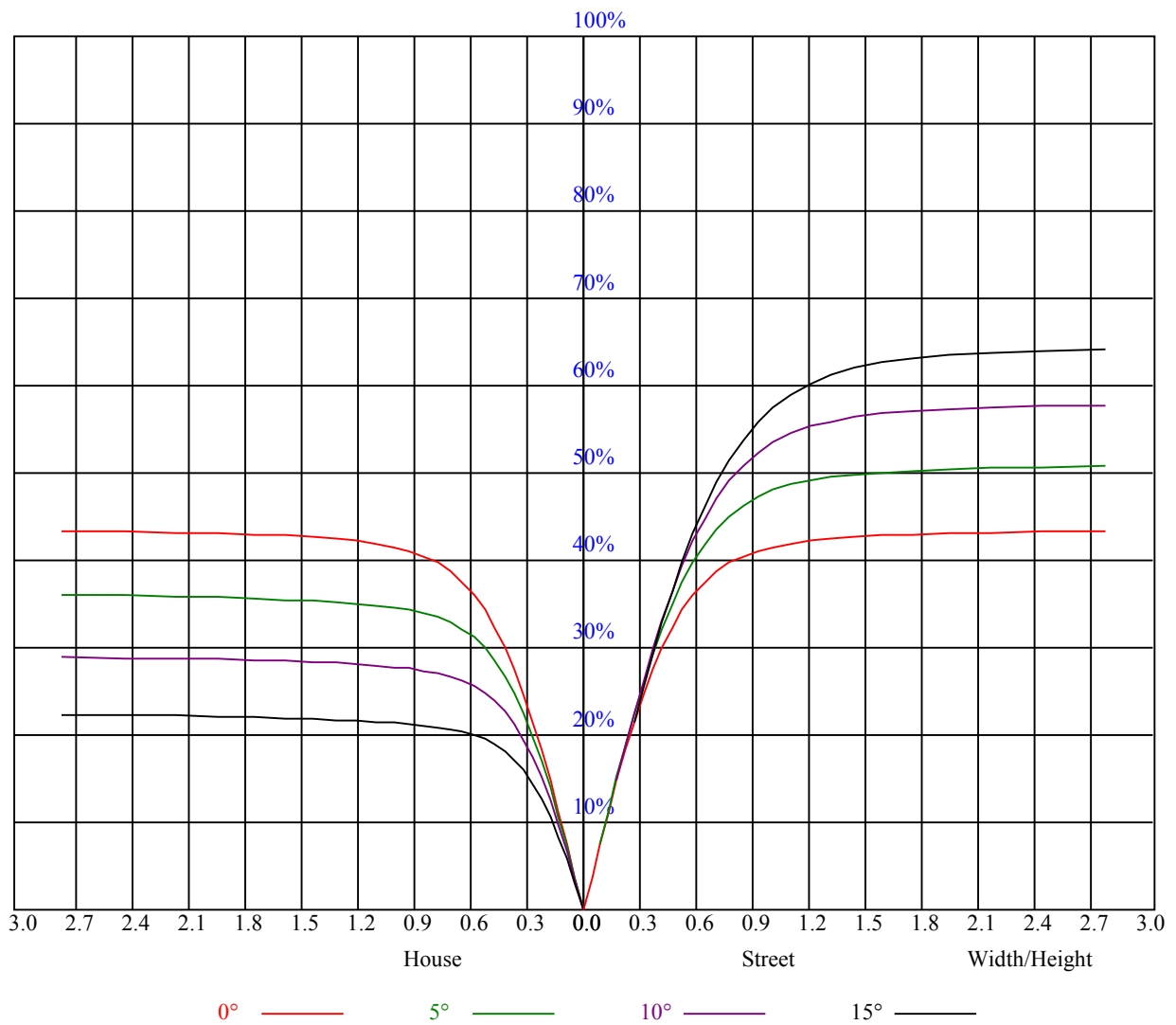
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.97	0.94	0.92	0.95	0.92	0.90	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.82	0.81
2	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.79	0.82	0.79	0.77	0.79	0.77	0.76	0.74
3	0.82	0.77	0.74	0.81	0.77	0.73	0.79	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.69	0.68
4	0.76	0.71	0.67	0.75	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.70	0.67	0.64	0.63
5	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.58
6	0.66	0.61	0.57	0.66	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.54
7	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.50
8	0.58	0.53	0.49	0.58	0.52	0.49	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.47
9	0.55	0.49	0.46	0.54	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.44
10	0.52	0.46	0.43	0.51	0.46	0.43	0.51	0.46	0.43	0.50	0.45	0.42	0.49	0.45	0.42	0.41



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	1636.88	1632.38	1587.94	1472.06	1302.75	1073.25	849.94	607.50	384.75
45.0	1638.56	1625.63	1568.25	1431.00	1235.81	990.56	764.44	545.06	312.75
90.0	1635.75	1603.13	1525.50	1376.44	1102.22	921.66	683.55	412.71	246.26
135.0	1637.44	1613.25	1535.63	1388.25	1182.38	948.38	708.75	444.94	302.06
180.0	1636.88	1607.63	1514.81	1352.81	1118.03	894.99	673.37	415.52	230.23
225.0	1638.56	1631.81	1572.19	1426.50	1197.00	977.23	741.60	498.88	284.46
270.0	1635.75	1641.38	1607.06	1513.13	1327.50	1081.69	856.69	606.94	368.44
315.0	1637.44	1628.44	1579.50	1455.75	1272.94	1046.14	824.68	579.32	345.54
360.0	1636.88	1632.38	1587.94	1472.06	1302.75	1073.25	849.94	607.50	384.75
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	203.01	112.84	66.04	41.68	28.52	22.11	16.82	13.05	9.90
45.0	165.38	100.58	56.81	37.07	25.88	19.97	15.24	11.76	9.00
90.0	132.36	76.22	47.08	32.06	23.51	27.17	33.98	25.99	7.88
135.0	134.27	77.01	46.18	32.18	23.57	23.63	29.53	21.26	7.71
180.0	127.91	74.03	44.72	30.15	22.78	17.83	13.67	10.69	7.71
225.0	151.93	88.88	52.65	34.82	24.81	19.29	14.79	11.25	8.89
270.0	200.70	110.53	62.33	39.66	27.73	21.60	28.18	32.01	11.93
315.0	189.96	104.79	59.34	38.93	27.06	20.93	24.86	27.34	11.25
360.0	203.01	112.84	66.04	41.68	28.52	22.11	16.82	13.05	9.90
C/γ(°)	90.0								
0.0	7.09								
45.0	6.75								
90.0	6.53								
135.0	6.47								
180.0	6.75								
225.0	6.69								
270.0	6.86								
315.0	7.03								
360.0	7.09								