



NATA LIGHTING CO.,LTD.
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LumCAT: 3-1880-L
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2019120501
LampCAT: TRIDONIC SLE G7 13MM
Lamp flux(lm): 2031.7
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 34.0600
Current(A): 0.4470
Power (W): 15.2200
PF: 1.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 0.00
Efficiency(%): 96.09%
Lumens(lm)/Power(W): 111.43
Central intensity(cd): 15377.340
Maximum intensity(cd): 15377.340
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=13.9
 [C90/270]Total=13.9
Field angle(10%Imax): [C0/180]Total=27.9
 [C90/270]Total=27.9
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(%): 0.00%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): - -
CIE Type : Direct lighting
Output flux ratio in π solid angle : - -

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15377.344	0.000	0	.000%	.000%
1.0	15269.766	14.664	14.664	.831%	.865%
2.0	15019.453	43.474	58.138	2.463%	3.428%
3.0	14375.391	70.303	128.441	3.983%	7.573%
4.0	13110.469	92.004	220.445	5.213%	12.998%
5.0	11453.766	105.674	326.119	5.987%	19.229%
6.0	9437.766	109.791	435.909	6.220%	25.703%
7.0	7557.328	105.488	541.398	5.977%	31.923%
8.0	5862.586	96.044	637.441	5.442%	37.586%
9.0	4519.828	84.144	721.585	4.767%	42.547%
10.0	3536.859	72.910	794.495	4.131%	46.846%
11.0	2799.914	63.317	857.813	3.587%	50.580%
12.0	2390.063	56.734	914.547	3.214%	53.925%
13.0	1845.281	50.263	964.809	2.848%	56.889%
14.0	1525.359	43.144	1007.953	2.444%	59.433%
15.0	1292.140	38.680	1046.633	2.191%	61.713%
16.0	1131.026	35.506	1082.139	2.012%	63.807%
17.0	998.367	33.160	1115.3	1.879%	65.762%
18.0	902.756	31.345	1146.645	1.776%	67.610%
19.0	831.291	30.169	1176.814	1.709%	69.389%
20.0	769.929	29.307	1206.121	1.660%	71.117%
21.0	721.842	28.645	1234.766	1.623%	72.806%
22.0	687.277	28.317	1263.083	1.604%	74.476%
23.0	657.752	28.222	1291.305	1.599%	76.140%
24.0	632.355	28.206	1319.511	1.598%	77.803%
25.0	613.540	28.329	1347.84	1.605%	79.474%
26.0	594.703	28.521	1376.361	1.616%	81.155%
27.0	577.308	28.674	1405.035	1.625%	82.846%
28.0	561.150	28.823	1433.858	1.633%	84.545%
29.0	547.116	28.995	1462.853	1.643%	86.255%
30.0	531.176	29.114	1491.967	1.649%	87.972%
31.0	499.148	28.672	1520.639	1.625%	89.662%
32.0	442.034	26.964	1547.603	1.528%	91.252%
33.0	379.301	24.197	1571.8	1.371%	92.679%
34.0	315.977	21.041	1592.841	1.192%	93.920%
35.0	243.809	17.385	1610.226	.985%	94.945%
36.0	176.892	13.395	1623.621	.759%	95.735%
37.0	116.241	9.560	1633.181	.542%	96.298%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	64.125	6.020	1639.202	.341%	96.653%
39.0	28.976	3.178	1642.38	.180%	96.841%
40.0	22.170	1.784	1644.163	.101%	96.946%
41.0	20.271	1.511	1645.675	.086%	97.035%
42.0	17.986	1.390	1647.065	.079%	97.117%
43.0	16.362	1.272	1648.337	.072%	97.192%
44.0	15.659	1.209	1649.546	.068%	97.263%
45.0	15.180	1.185	1650.731	.067%	97.333%
46.0	14.548	1.163	1651.893	.066%	97.402%
47.0	13.992	1.135	1653.028	.064%	97.468%
48.0	13.416	1.108	1654.136	.063%	97.534%
49.0	12.959	1.083	1655.219	.061%	97.598%
50.0	12.537	1.063	1656.282	.060%	97.660%
51.0	12.143	1.044	1657.327	.059%	97.722%
52.0	11.911	1.032	1658.359	.058%	97.783%
53.0	11.623	1.024	1659.382	.058%	97.843%
54.0	11.433	1.016	1660.399	.058%	97.903%
55.0	11.454	1.022	1661.42	.058%	97.963%
56.0	11.363	1.031	1662.451	.058%	98.024%
57.0	11.468	1.044	1663.495	.059%	98.086%
58.0	11.468	1.061	1664.556	.060%	98.148%
59.0	11.658	1.081	1665.637	.061%	98.212%
60.0	11.827	1.109	1666.746	.063%	98.277%
61.0	12.150	1.144	1667.891	.065%	98.345%
62.0	12.396	1.183	1669.073	.067%	98.415%
63.0	12.312	1.202	1670.275	.068%	98.485%
64.0	11.770	1.182	1671.457	.067%	98.555%
65.0	11.095	1.132	1672.588	.064%	98.622%
66.0	10.223	1.064	1673.652	.060%	98.685%
67.0	9.788	1.006	1674.658	.057%	98.744%
68.0	9.605	0.982	1675.641	.056%	98.802%
69.0	9.436	0.971	1676.612	.055%	98.859%
70.0	9.302	0.962	1677.574	.055%	98.916%
71.0	9.204	0.957	1678.531	.054%	98.972%
72.0	9.077	0.951	1679.481	.054%	99.028%
73.0	8.930	0.942	1680.423	.053%	99.084%
74.0	8.831	0.934	1681.357	.053%	99.139%
75.0	8.740	0.928	1682.285	.053%	99.194%

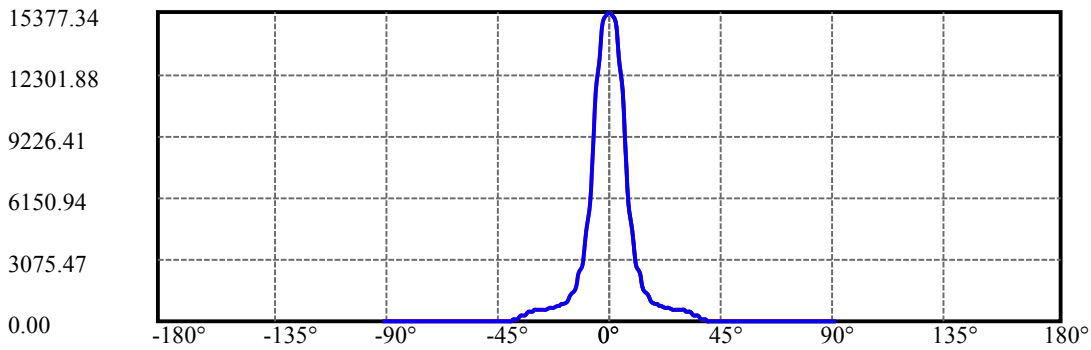
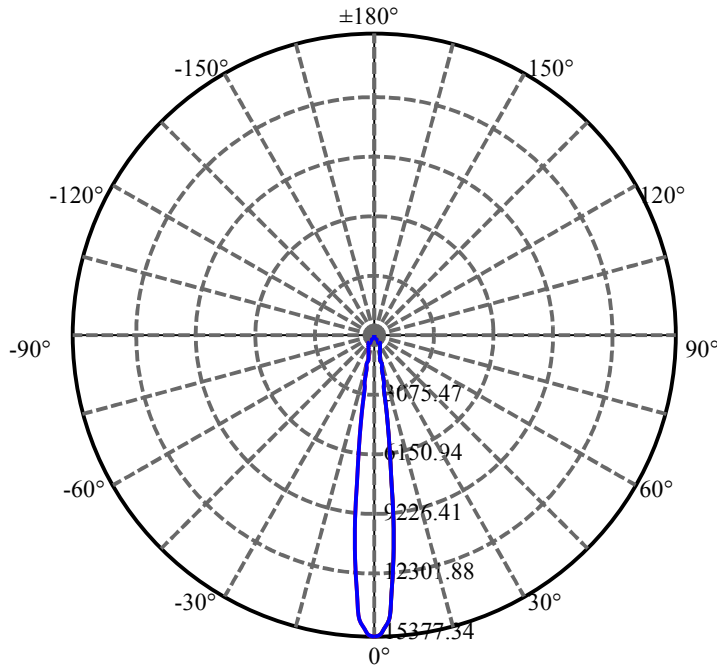
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.677	0.925	1683.21	.052%	99.248%
77.0	8.670	0.925	1684.135	.052%	99.303%
78.0	8.620	0.926	1685.06	.052%	99.357%
79.0	8.557	0.923	1685.983	.052%	99.412%
80.0	8.522	0.921	1686.904	.052%	99.466%
81.0	8.473	0.919	1687.823	.052%	99.520%
82.0	8.438	0.917	1688.74	.052%	99.574%
83.0	8.388	0.915	1689.654	.052%	99.628%
84.0	8.353	0.912	1690.566	.052%	99.682%
85.0	8.325	0.910	1691.477	.052%	99.736%
86.0	8.276	0.907	1692.384	.051%	99.789%
87.0	8.220	0.903	1693.287	.051%	99.842%
88.0	8.170	0.898	1694.185	.051%	99.895%
89.0	8.100	0.892	1695.077	.051%	99.948%
90.0	8.044	0.885	1695.962	.050%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1491.97	73.44%	87.97%
0-40	1644.16	80.93%	96.95%
0-60	1666.75	82.04%	98.28%
0-90	1695.08	83.43%	99.95%
0-120	1695.08	83.43%	99.95%
0-180	1695.96	83.48%	100.00%
60-90	29.44	1.45%	1.74%
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%
0-25.31	1356.77	66.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	794.50
10-20	411.63
20-30	285.85
30-40	152.20
40-50	12.12
50-60	10.46
60-70	10.83
70-80	9.33
80-90	8.17
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



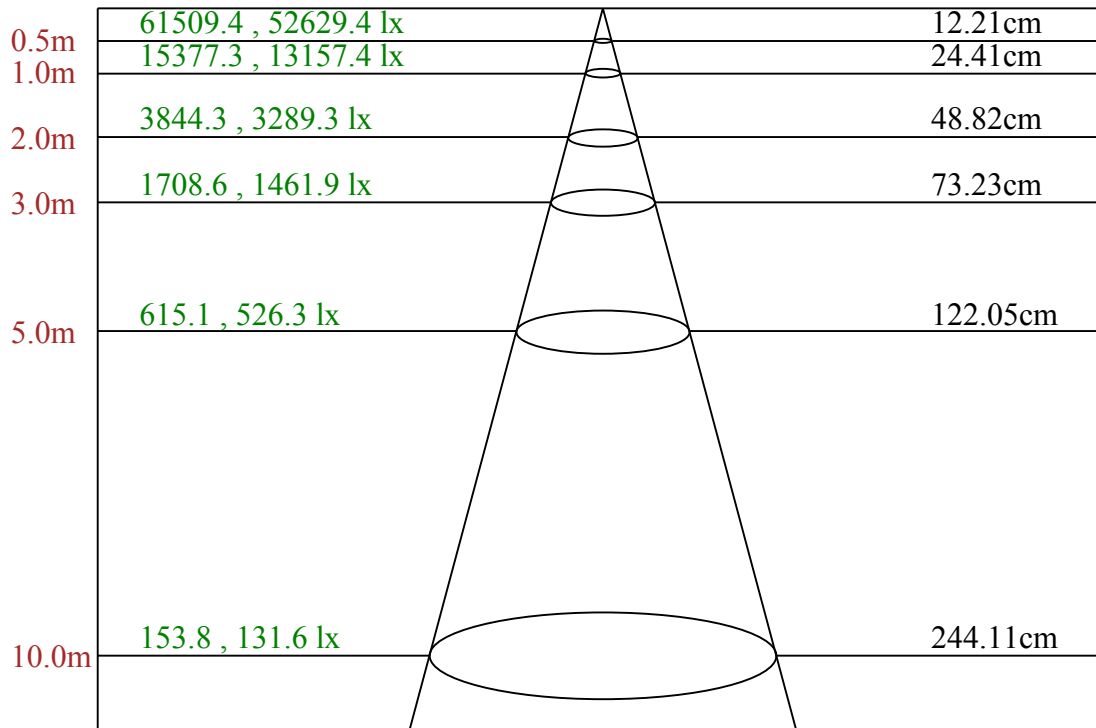
C0(Max): —————

C0/C180: —————

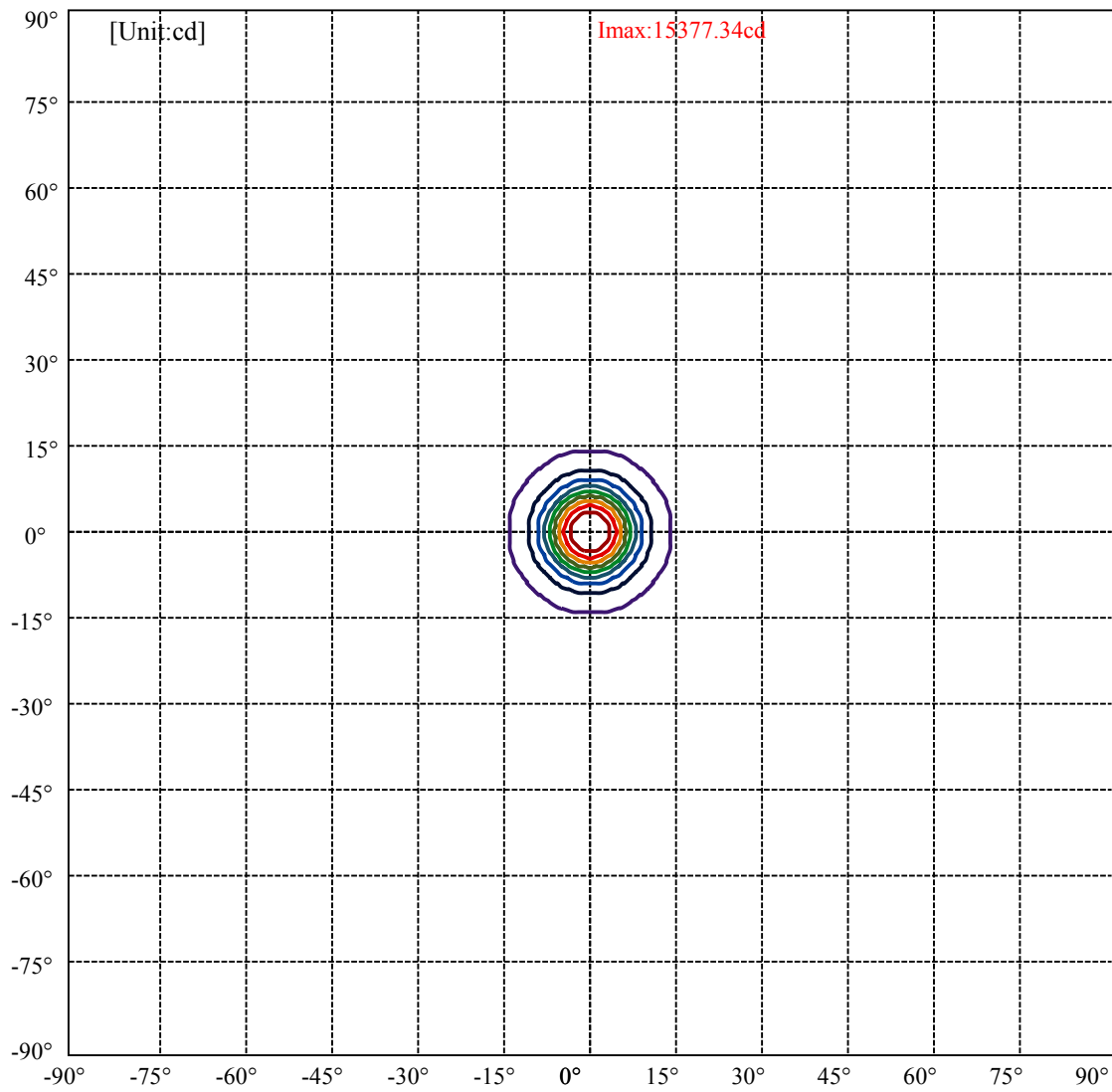
C90/C270: —————

Field angle(10%Imax):C0/180Left:14.0 Right:14.0
:C90/270Left:14.0 Right:14.0

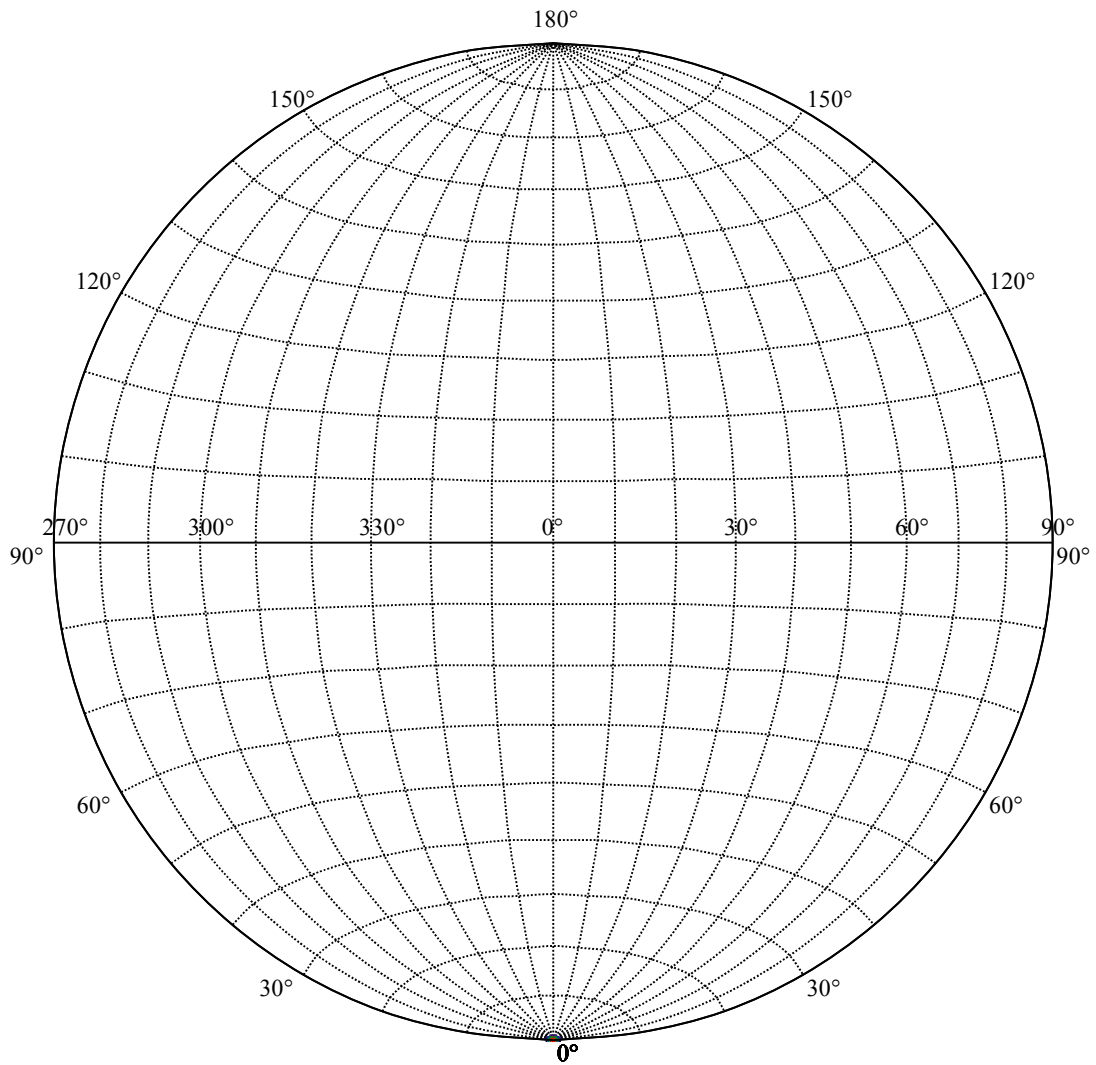
Beam Angle(50%Imax):C0/180Left:6.9 Right:6.9
:C90/270Left:6.9 Right:6.9



Max , Ave Beam angle of C0 plane 13.92



(10%Imax) 1537.73	—
(20%Imax) 3075.47	—
(30%Imax) 4613.2	—
(40%Imax) 6150.94	—
(50%Imax) 7688.67	—
(60%Imax) 9226.41	—
(70%Imax) 10764.1	—
(80%Imax) 12301.9	—
(90%Imax) 13839.6	—



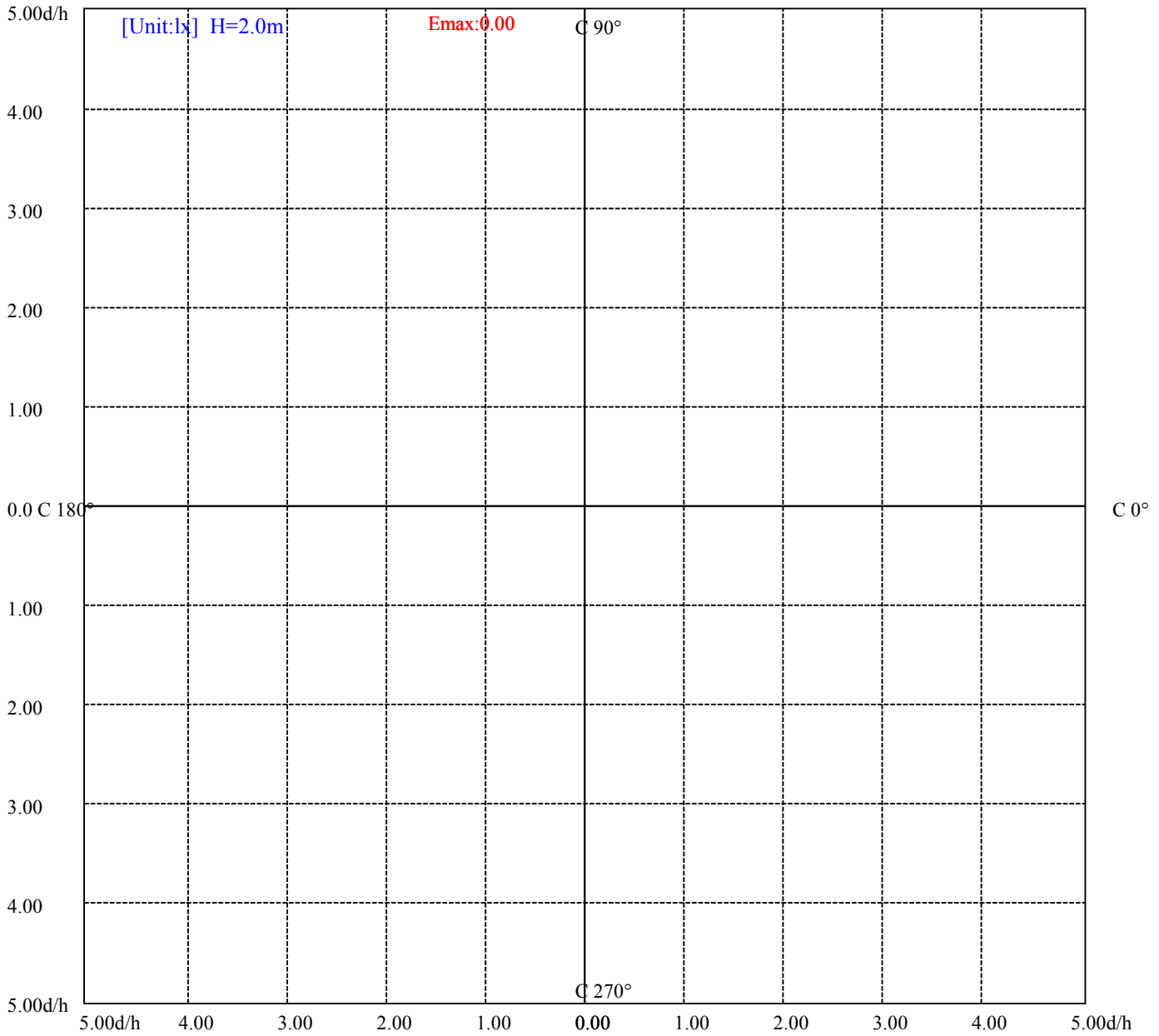
House

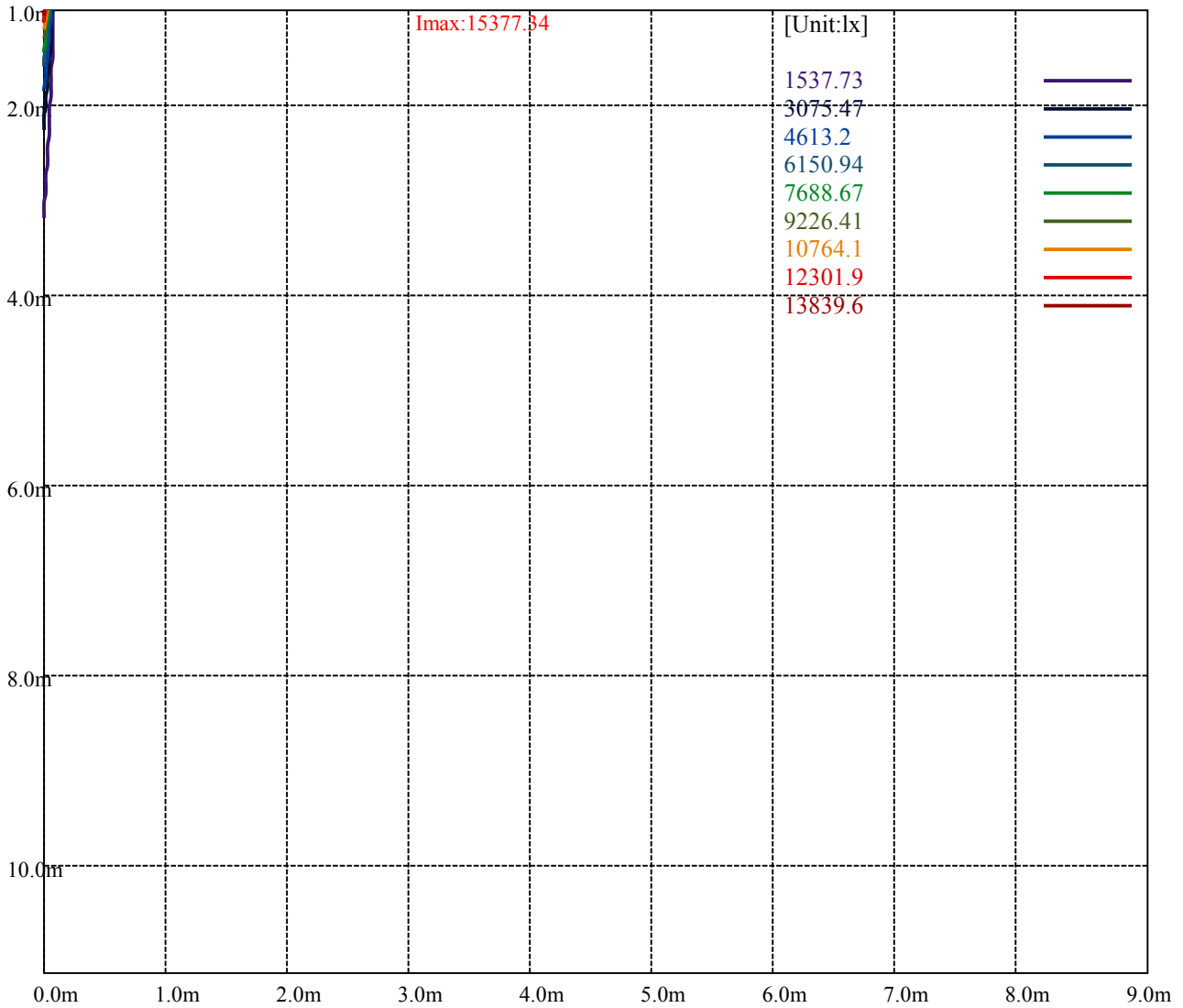
[Unit:cd]

Road

Imax:15377.34

(10%Imax) 1537.73	—
(20%Imax) 3075.47	—
(30%Imax) 4613.2	—
(40%Imax) 6150.94	—
(50%Imax) 7688.67	—
(60%Imax) 9226.41	—
(70%Imax) 10764.1	—
(80%Imax) 12301.9	—
(90%Imax) 13839.6	—





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

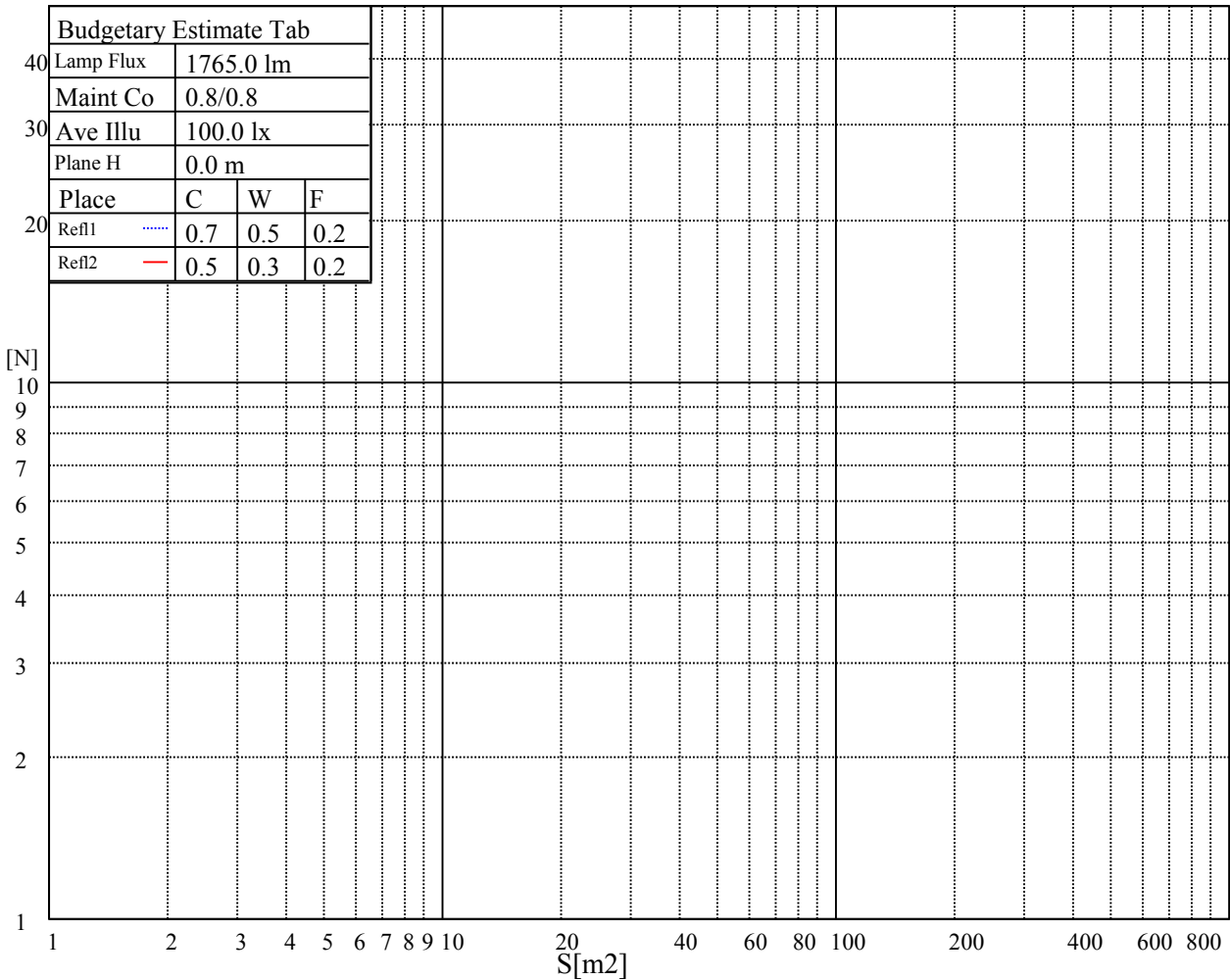
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

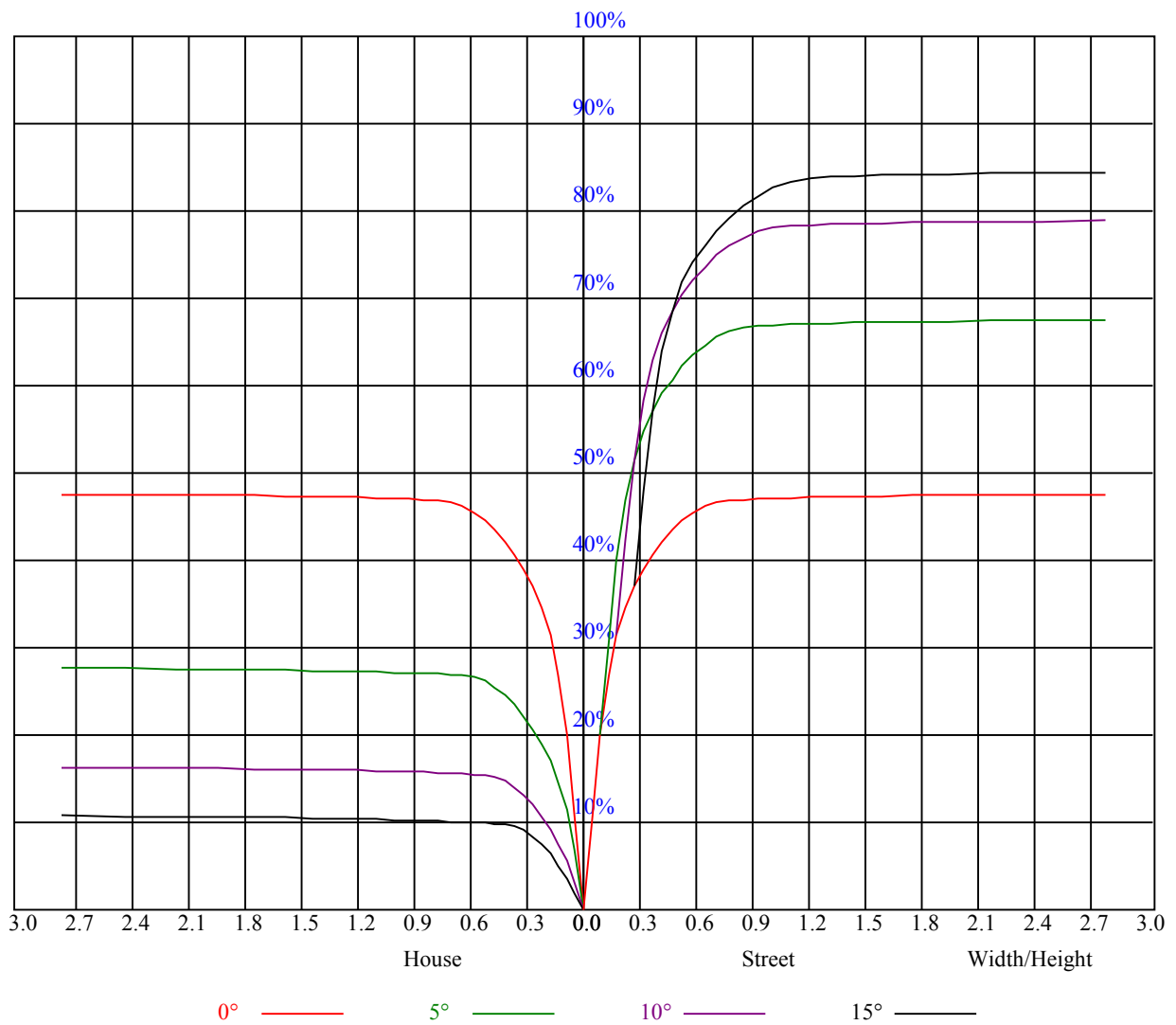
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Intensity data(cd)

C/γ(°)	0.0
0.0	15440.63
45.0	15356.25
90.0	15412.50
135.0	15300.00
180.0	15440.63
225.0	15356.25
270.0	15412.50
315.0	15300.00
360.0	15440.63