



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

Client:

LumCAT: 2-2644-L

Luminaire: 92.70.429.00

Report No: 20231010-B012

Ballast type: AC

Test No: 20231010-C012

LampCAT: CREE CXA1830 LES14

Lamp flux(lm): 1997.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 35.960

Current(A): 0.530

Power (W): 19.059

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1853.40, Efficiency(%): 92.81% , Luminous Efficacy(lm/W): 97.25

Central intensity(cd): 6837.083, Maximum intensity(cd): 6837.083

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.2

[C90/270]Total=24.2

Field angle(10%Imax): [C0/180]Total=55.0

[C90/270]Total=55.0

Maximum s/h(1/2): C0_180=0.41 C90_270=0.41

Maximum s/h(1/4): C0_180=0.44 C90_270=0.44

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.163%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6837.083	0.000	0	0.00%	0.00%
1.0	6787.611	6.519	6.519	0.33%	0.35%
2.0	6661.681	19.304	25.823	0.97%	1.39%
3.0	6474.378	31.417	57.24	1.57%	3.09%
4.0	6247.705	42.585	99.825	2.13%	5.39%
5.0	5974.190	52.578	152.403	2.63%	8.22%
6.0	5680.677	61.249	213.652	3.07%	11.53%
7.0	5340.944	68.411	282.063	3.43%	15.22%
8.0	4989.172	73.931	355.994	3.70%	19.21%
9.0	4624.184	77.911	433.905	3.90%	23.41%
10.0	4243.559	80.250	514.155	4.02%	27.74%
11.0	3853.386	80.905	595.06	4.05%	32.11%
12.0	3464.181	79.991	675.051	4.01%	36.42%
13.0	3135.519	78.322	753.373	3.92%	40.65%
14.0	2815.367	76.171	829.544	3.81%	44.76%
15.0	2539.360	73.512	903.056	3.68%	48.72%
16.0	2280.236	70.621	973.677	3.54%	52.53%
17.0	2052.041	67.465	1041.142	3.38%	56.17%
18.0	1854.705	64.414	1105.556	3.23%	59.65%
19.0	1685.739	61.596	1167.152	3.08%	62.97%
20.0	1517.948	58.636	1225.788	2.94%	66.14%
21.0	1329.337	54.674	1280.462	2.74%	69.09%
22.0	1207.061	50.970	1331.432	2.55%	71.84%
23.0	1118.662	48.800	1380.232	2.44%	74.47%
24.0	1018.762	46.732	1426.964	2.34%	76.99%
25.0	915.715	43.986	1470.95	2.20%	79.36%
26.0	820.659	40.987	1511.937	2.05%	81.58%
27.0	729.761	37.931	1549.868	1.90%	83.62%
28.0	637.390	34.613	1584.482	1.73%	85.49%
29.0	555.383	31.206	1615.688	1.56%	87.17%
30.0	473.903	27.791	1643.478	1.39%	88.67%
31.0	402.504	24.389	1667.868	1.22%	89.99%
32.0	337.498	21.200	1689.068	1.06%	91.13%
33.0	281.072	18.223	1707.291	0.91%	92.12%
34.0	242.476	15.844	1723.135	0.79%	92.97%
35.0	202.636	13.824	1736.959	0.69%	93.72%
36.0	150.174	11.234	1748.192	0.56%	94.32%
37.0	116.187	8.687	1756.879	0.44%	94.79%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	92.510	6.966	1763.845	0.35%	95.17%
39.0	75.551	5.736	1769.582	0.29%	95.48%
40.0	62.674	4.821	1774.403	0.24%	95.74%
41.0	53.340	4.131	1778.534	0.21%	95.96%
42.0	45.784	3.601	1782.135	0.18%	96.15%
43.0	40.457	3.195	1785.33	0.16%	96.33%
44.0	36.236	2.895	1788.224	0.14%	96.48%
45.0	32.859	2.655	1790.88	0.13%	96.63%
46.0	30.223	2.467	1793.347	0.12%	96.76%
47.0	27.926	2.313	1795.66	0.12%	96.88%
48.0	26.037	2.181	1797.841	0.11%	97.00%
49.0	24.459	2.074	1799.915	0.10%	97.11%
50.0	23.082	1.982	1801.897	0.10%	97.22%
51.0	21.948	1.905	1803.802	0.10%	97.32%
52.0	21.076	1.846	1805.648	0.09%	97.42%
53.0	20.377	1.803	1807.451	0.09%	97.52%
54.0	19.830	1.772	1809.224	0.09%	97.62%
55.0	19.311	1.747	1810.971	0.09%	97.71%
56.0	18.841	1.724	1812.695	0.09%	97.80%
57.0	18.384	1.702	1814.397	0.09%	97.90%
58.0	17.928	1.679	1816.076	0.08%	97.99%
59.0	17.423	1.653	1817.729	0.08%	98.08%
60.0	16.876	1.620	1819.349	0.08%	98.16%
61.0	16.260	1.581	1820.93	0.08%	98.25%
62.0	15.720	1.541	1822.471	0.08%	98.33%
63.0	15.208	1.504	1823.976	0.08%	98.41%
64.0	14.669	1.466	1825.442	0.07%	98.49%
65.0	14.191	1.428	1826.87	0.07%	98.57%
66.0	13.755	1.394	1828.264	0.07%	98.64%
67.0	13.306	1.361	1829.625	0.07%	98.72%
68.0	12.821	1.324	1830.948	0.07%	98.79%
69.0	12.378	1.286	1832.234	0.06%	98.86%
70.0	11.956	1.250	1833.484	0.06%	98.93%
71.0	11.541	1.214	1834.698	0.06%	98.99%
72.0	11.133	1.179	1835.877	0.06%	99.05%
73.0	10.766	1.145	1837.022	0.06%	99.12%
74.0	10.483	1.117	1838.14	0.06%	99.18%
75.0	10.206	1.093	1839.233	0.05%	99.24%

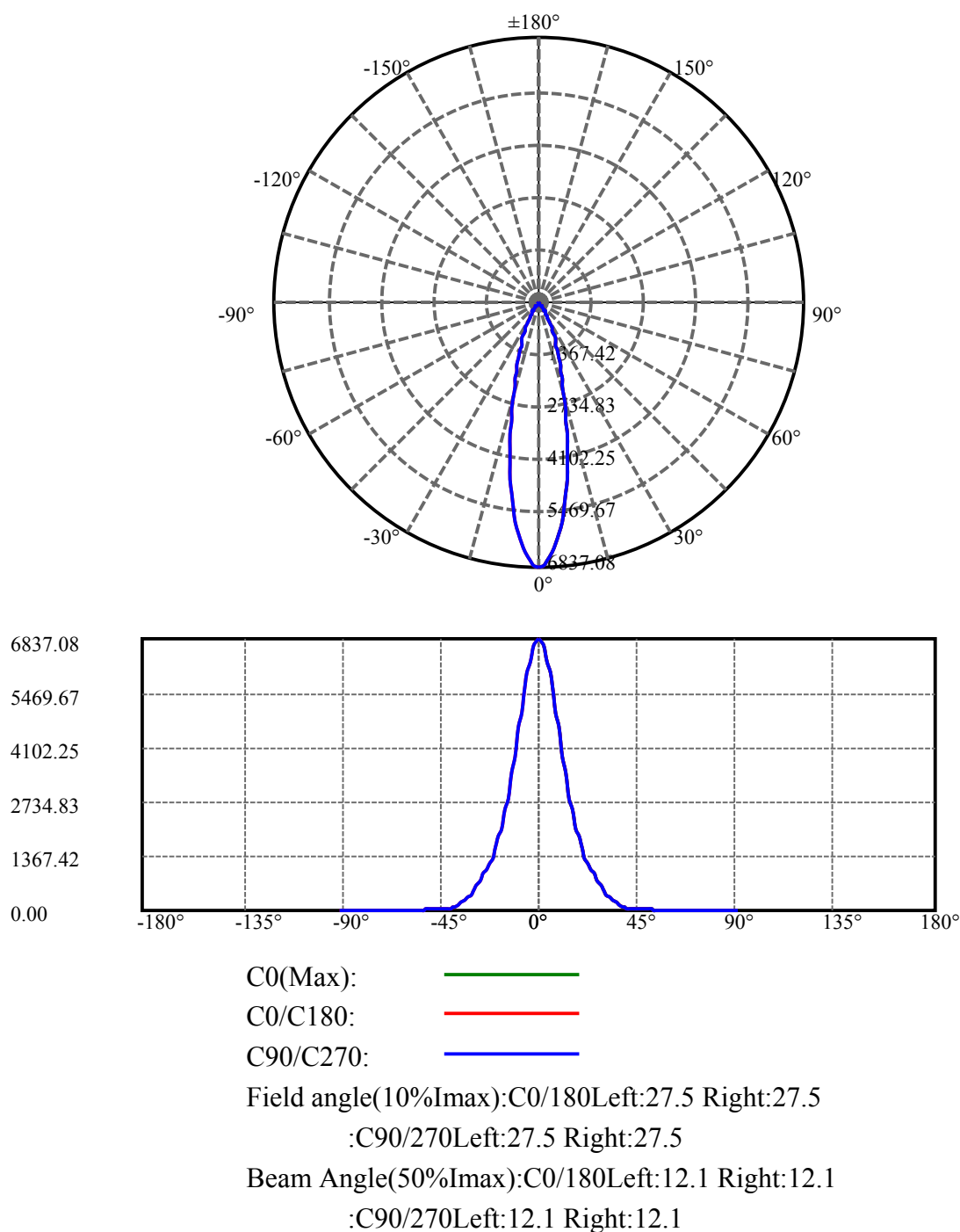
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.964	1.071	1840.303	0.05%	99.29%
77.0	9.735	1.050	1841.354	0.05%	99.35%
78.0	9.528	1.031	1842.385	0.05%	99.41%
79.0	9.299	1.012	1843.396	0.05%	99.46%
80.0	9.092	0.992	1844.388	0.05%	99.51%
81.0	8.905	0.973	1845.361	0.05%	99.57%
82.0	8.718	0.956	1846.317	0.05%	99.62%
83.0	8.538	0.938	1847.255	0.05%	99.67%
84.0	8.379	0.922	1848.176	0.05%	99.72%
85.0	8.220	0.906	1849.082	0.05%	99.77%
86.0	8.082	0.891	1849.973	0.04%	99.81%
87.0	7.936	0.877	1850.85	0.04%	99.86%
88.0	7.798	0.862	1851.712	0.04%	99.91%
89.0	7.701	0.850	1852.562	0.04%	99.95%
90.0	7.639	0.841	1853.403	0.04%	100.00%

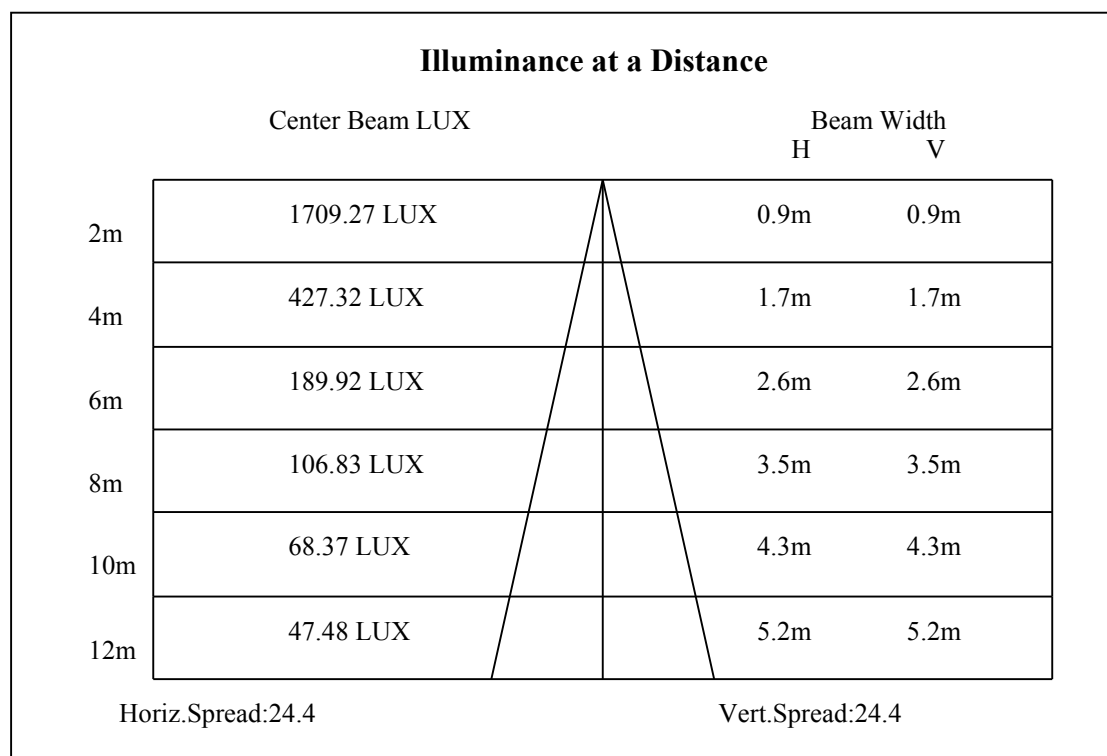
ZONAL LUMEN SUMMARY

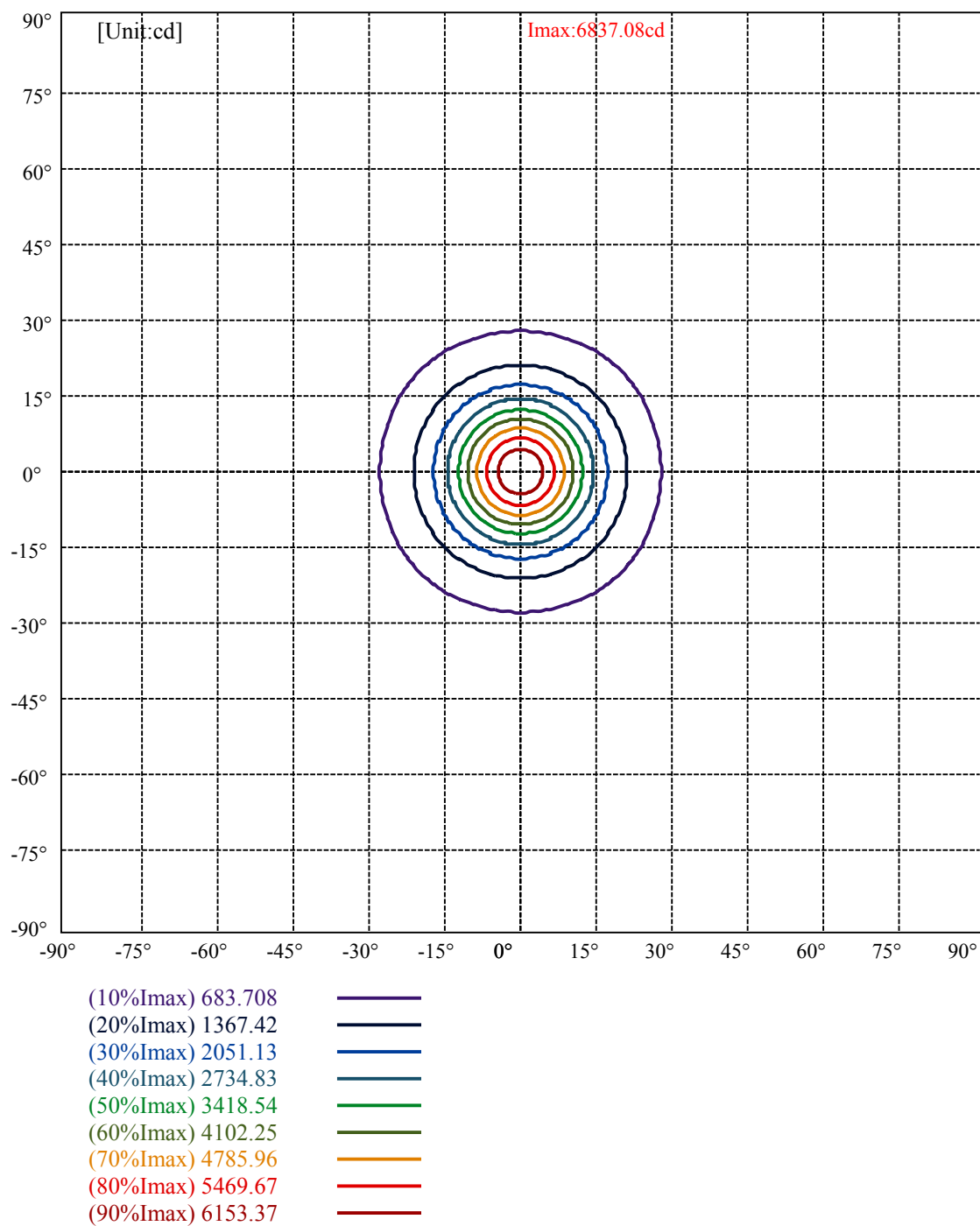
Zone	Lumens	%Lamp	%Fixt
0-30	1643.48	82.30%	88.67%
0-40	1774.40	88.85%	95.74%
0-60	1819.35	91.10%	98.16%
0-90	1852.56	92.77%	99.95%
0-120	1852.56	92.77%	99.95%
0-180	1853.40	92.81%	100.00%
60-90	33.21	1.66%	1.79%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.29	1482.72	74.25%	80.00%

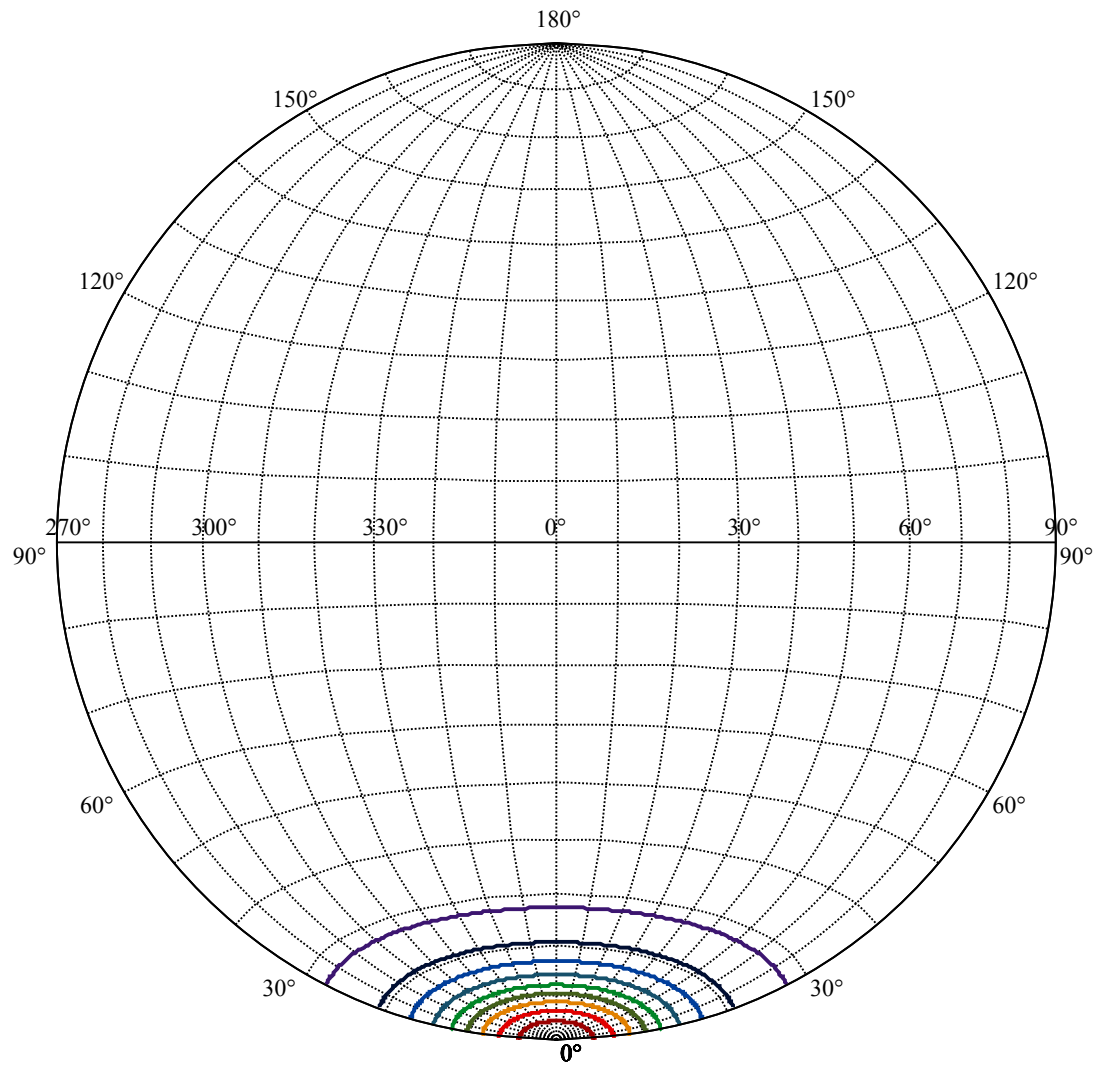
ZONAL LUMEN SUMMARY

0-10	514.15
10-20	711.63
20-30	417.69
30-40	130.92
40-50	27.49
50-60	17.45
60-70	14.13
70-80	10.90
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







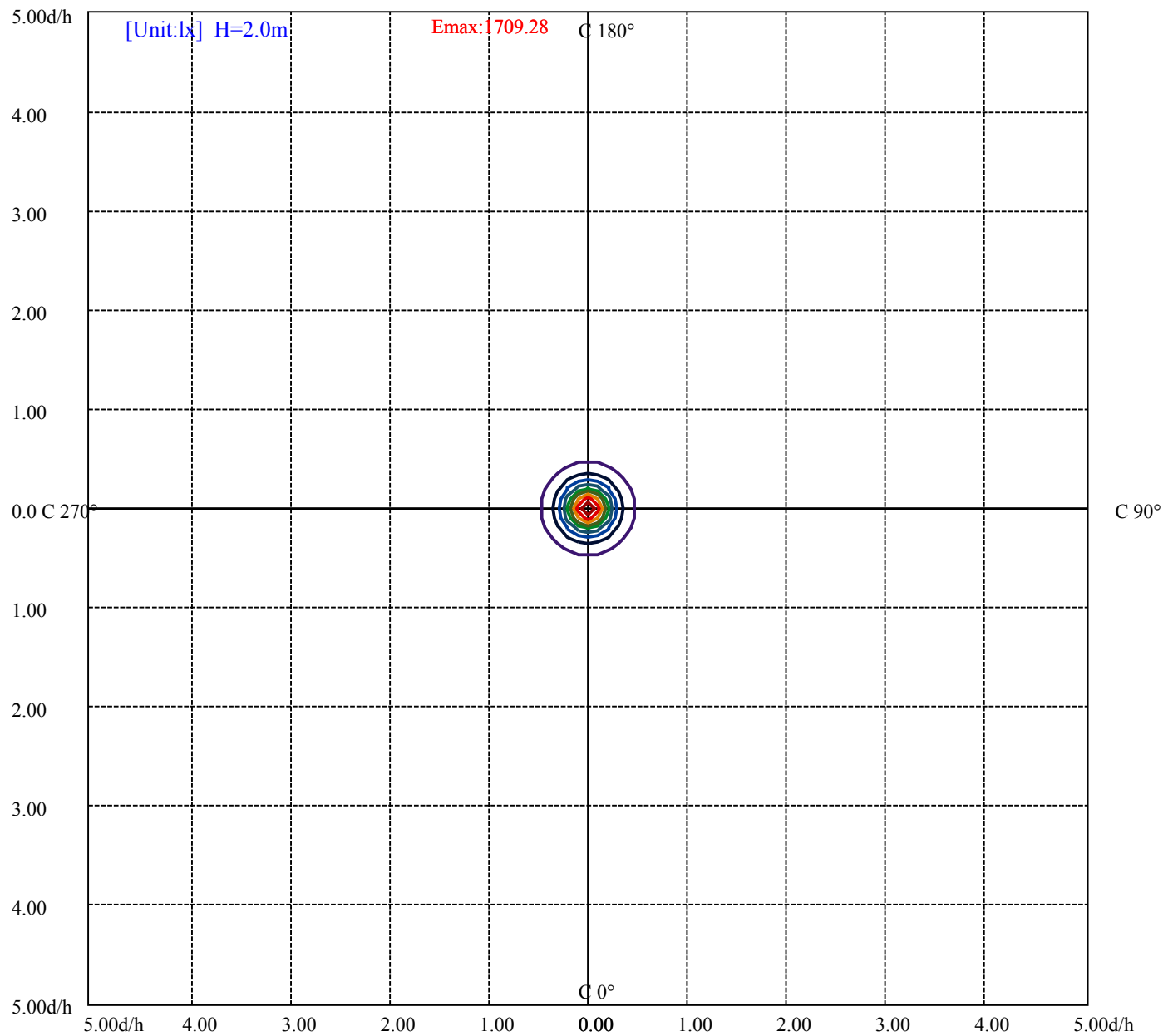


House

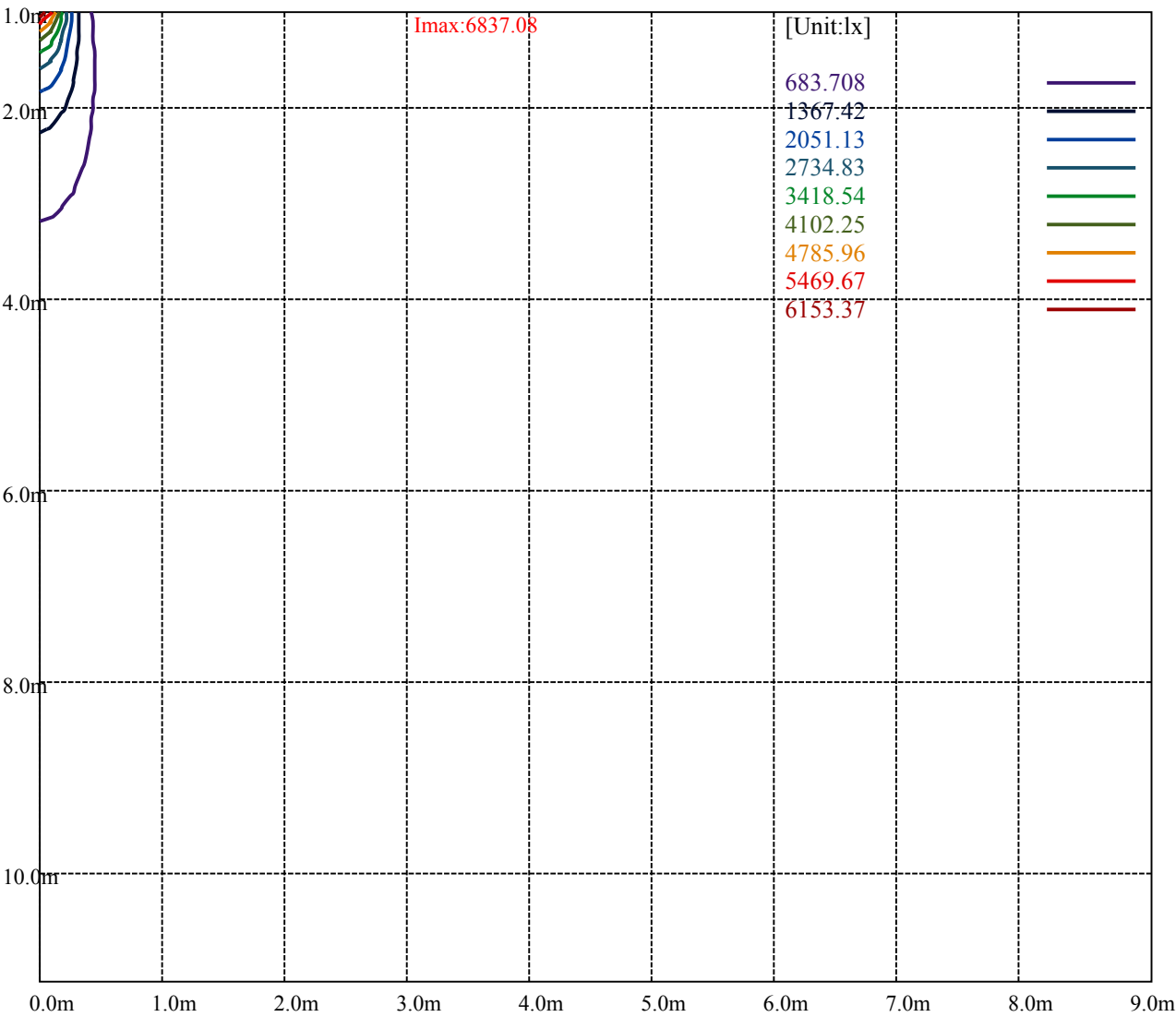
[Unit:cd]

Road

Imax:6837.08	
(10%Imax)	683.708
(20%Imax)	1367.42
(30%Imax)	2051.13
(40%Imax)	2734.83
(50%Imax)	3418.54
(60%Imax)	4102.25
(70%Imax)	4785.96
(80%Imax)	5469.67
(90%Imax)	6153.37



(10%Emax) 170.927	—
(20%Emax) 341.855	—
(30%Emax) 512.78	—
(40%Emax) 683.7075	—
(50%Emax) 854.635	—
(60%Emax) 1025.563	—
(70%Emax) 1196.488	—
(80%Emax) 1367.415	—
(90%Emax) 1538.343	—



Luminance Limiting Curve(no luminous side)

Luminance Table

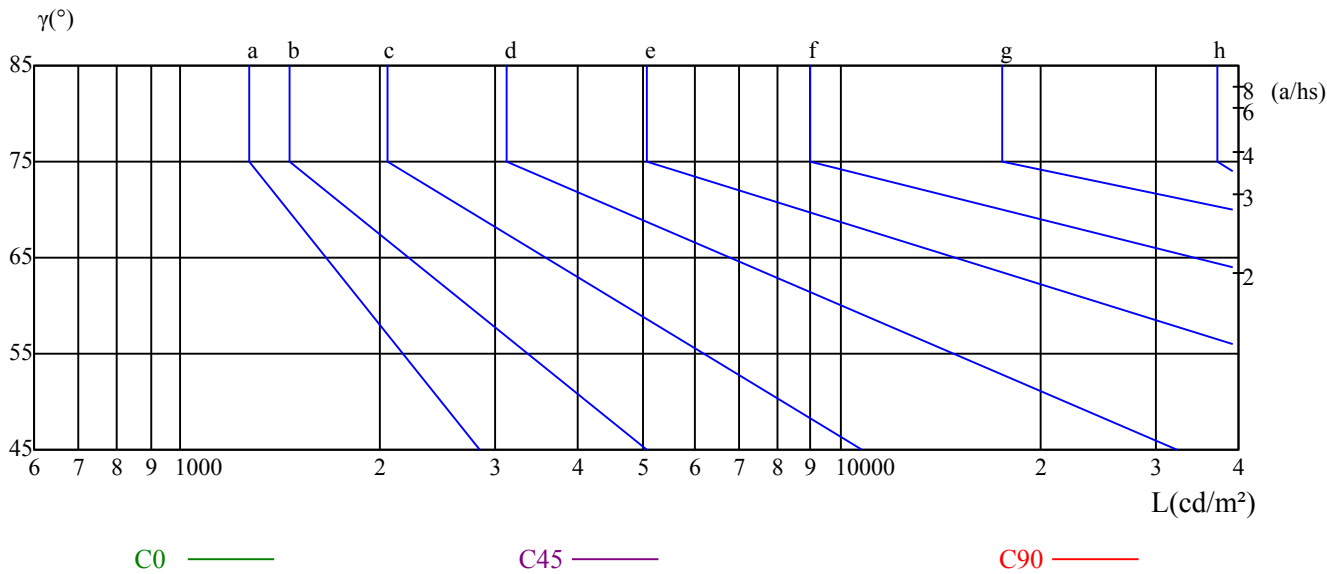
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

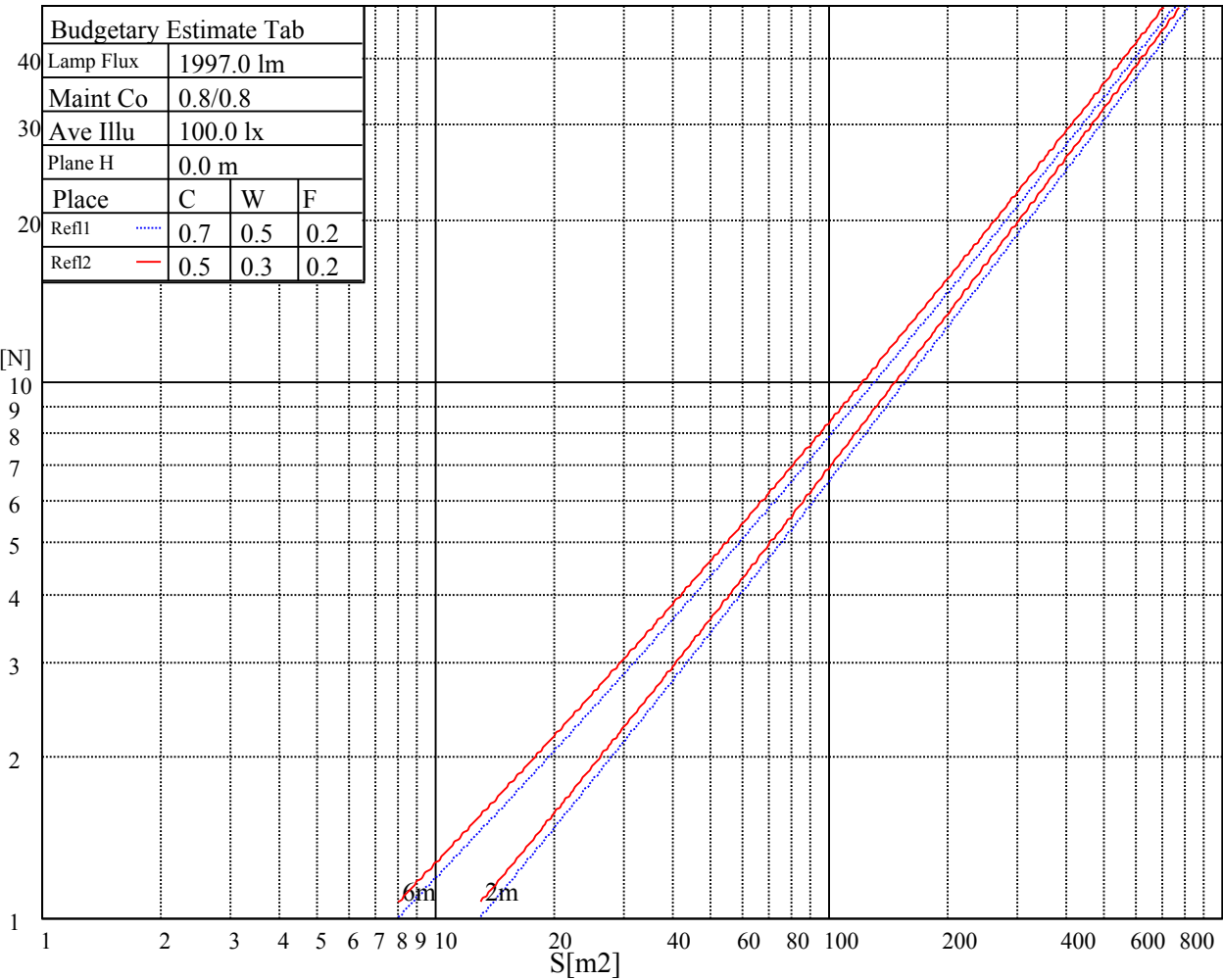
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

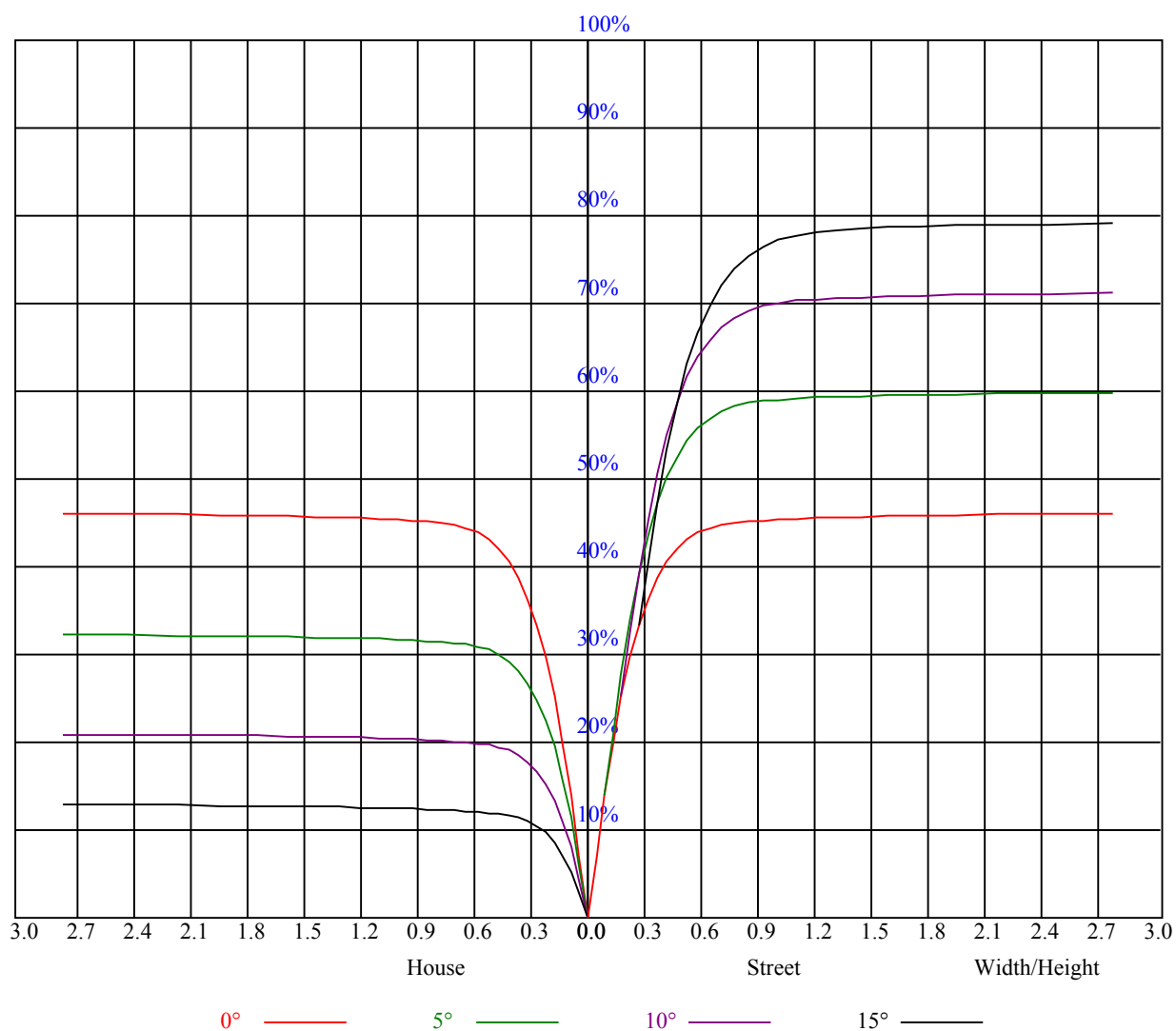


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.93	0.92	0.91	0.91	0.90	0.88
2	0.98	0.95	0.92	0.96	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.87	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.80
4	0.89	0.84	0.81	0.88	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
6	0.81	0.77	0.74	0.81	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.75	0.70	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.64	0.63
10	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.65	0.62	0.61



NATA 2-2644-L

Intensity data(cd)									
Appendix Page: 17 Total:19									
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	6769.69	6582.04	6402.14	6134.78	5879.60	5598.41	5212.04	4879.36	4514.03
45.0	6870.99	6812.87	6660.64	6471.33	6229.99	5994.19	5730.70	5357.62	5040.44
90.0	6825.60	6704.37	6465.25	6253.24	6025.74	5758.93	5375.89	5049.30	4697.80
135.0	6882.06	6854.38	6740.91	6496.24	6272.06	6020.76	5754.50	5365.92	5054.28
180.0	6769.69	6854.38	6861.02	6779.10	6619.13	6345.68	6103.79	5826.46	5522.57
225.0	6870.99	6836.67	6724.30	6533.33	6305.27	5977.03	5703.58	5374.23	4951.32
270.0	6825.60	6873.20	6804.56	6681.68	6476.32	6189.03	5928.32	5643.80	5245.25
315.0	6882.06	6782.97	6634.63	6445.32	6173.53	5909.49	5636.60	5230.86	4887.67
360.0	6769.69	6582.04	6402.14	6134.78	5879.60	5598.41	5212.04	4879.36	4514.03
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4057.36	3689.82	3355.48	3042.73	2708.40	2461.52	2231.25	2026.44	1807.24
45.0	4700.57	4243.91	3878.57	3433.53	3119.12	2835.71	2576.10	2277.19	2068.51
90.0	4340.22	3880.79	3524.86	3119.12	2835.16	2573.33	2274.98	2060.21	1873.11
135.0	4734.34	4378.97	3925.62	3574.68	3232.04	2848.99	2586.62	2285.49	2074.60
180.0	5113.51	4777.51	4426.57	3977.65	3620.62	3200.49	2899.92	2624.81	2320.92
225.0	4605.92	4254.98	3806.61	3460.65	3134.07	2777.03	2519.64	2287.71	2081.24
270.0	4911.47	4568.28	4212.91	3754.58	3392.57	3061.00	2777.59	2460.41	2224.05
315.0	4530.08	4154.23	3696.46	3350.50	3042.18	2764.86	2448.79	2219.62	1966.66
360.0	4057.36	3689.82	3355.48	3042.73	2708.40	2461.52	2231.25	2026.44	1807.24
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1647.82	1501.13	1334.52	1081.39	1081.39	984.41	894.40	785.08	700.83
45.0	1884.18	1719.78	1528.81	1389.32	1267.54	1129.16	1030.08	933.76	818.07
90.0	1672.18	1518.29	1385.45	1094.51	1094.51	1019.17	926.07	841.43	734.71
135.0	1894.14	1725.87	1536.56	1397.62	1273.08	1160.16	1031.18	935.97	841.32
180.0	2121.65	1921.27	1749.67	1601.88	1430.84	1295.22	1176.21	1054.43	953.69
225.0	1846.54	1678.27	1526.60	1386.00	1093.62	1093.62	1023.54	910.57	825.60
270.0	1983.26	1793.40	1636.20	1458.51	1326.22	1203.33	1097.61	980.26	891.14
315.0	1787.87	1627.89	1445.78	1225.47	1089.30	1064.23	971.01	884.22	799.91
360.0	1647.82	1501.13	1334.52	1081.39	1081.39	984.41	894.40	785.08	700.83
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	616.69	538.59	466.63	384.21	323.71	269.18	221.75	172.37	140.04
45.0	726.74	616.58	538.54	465.47	399.60	338.16	282.80	282.80	180.01
90.0	652.18	570.81	495.25	411.06	348.45	278.10	228.83	186.54	143.20
135.0	751.65	643.71	562.34	472.66	408.45	349.23	281.69	281.69	221.19
180.0	869.55	761.06	673.60	595.55	500.34	428.38	364.72	292.77	292.77
225.0	721.53	640.28	559.51	466.52	399.32	336.72	280.92	220.03	179.40
270.0	803.68	714.56	610.49	531.34	457.17	378.01	319.33	292.77	292.77
315.0	696.07	613.54	536.71	464.42	382.99	322.21	268.52	210.84	171.71
360.0	616.69	538.59	466.63	384.21	323.71	269.18	221.75	172.37	140.04
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	114.03	89.23	73.95	60.22	52.36	46.28	40.41	36.59	33.49
45.0	147.52	114.64	94.38	78.60	63.99	55.19	47.99	41.02	36.87
90.0	115.74	93.94	76.78	61.28	52.48	45.89	41.07	36.26	33.10
135.0	142.42	114.97	93.05	75.83	63.32	52.03	45.56	40.85	36.15
180.0	230.05	156.87	120.17	97.48	79.54	65.82	53.80	47.00	42.01
225.0	145.36	117.57	90.61	74.40	62.11	53.14	45.06	39.97	35.20
270.0	166.56	134.68	103.07	83.69	68.75	57.51	47.55	41.96	37.81
315.0	139.71	107.61	88.07	72.90	58.84	50.87	44.84	40.02	35.26
360.0	114.03	89.23	73.95	60.22	52.36	46.28	40.41	36.59	33.49

NATA 2-2644-L

Intensity data(cd)

Appendix Page: 18 Total:19

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	30.89	28.23	26.46	24.96	23.69	22.69	21.64	20.98	20.31
45.0	32.99	30.44	28.23	26.46	24.74	23.19	22.20	21.31	20.70
90.0	30.56	27.84	26.07	24.58	23.03	22.03	21.03	20.37	19.93
135.0	33.16	30.67	28.40	26.07	24.47	22.86	21.86	21.09	20.26
180.0	37.20	34.15	30.89	28.67	26.74	25.13	23.47	22.36	21.48
225.0	32.11	29.61	26.96	25.24	23.80	22.53	21.37	20.48	19.82
270.0	33.71	31.05	28.73	26.79	25.13	23.41	22.31	21.20	20.43
315.0	32.27	29.78	27.68	25.52	24.08	22.81	21.70	20.81	20.09
360.0	30.89	28.23	26.46	24.96	23.69	22.69	21.64	20.98	20.31
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.87	19.37	18.76	18.27	17.77	16.94	16.33	15.83	15.33
45.0	20.04	19.54	19.10	18.54	18.10	17.55	16.88	16.22	15.67
90.0	19.48	18.99	18.49	18.10	17.71	17.10	16.50	16.00	15.55
135.0	19.76	19.32	18.99	18.38	17.99	17.66	17.16	16.38	15.89
180.0	20.65	19.98	19.43	18.99	18.54	17.99	17.60	16.94	16.33
225.0	19.37	18.76	18.38	17.99	17.44	17.05	16.38	15.89	15.39
270.0	19.82	19.37	18.93	18.60	18.05	17.71	17.33	16.72	16.00
315.0	19.65	19.15	18.65	18.21	17.82	17.38	16.83	16.11	15.61
360.0	19.87	19.37	18.76	18.27	17.77	16.94	16.33	15.83	15.33
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.67	14.23	13.84	13.40	12.79	12.34	11.79	11.46	11.07
45.0	15.22	14.67	14.23	13.73	13.28	12.84	12.40	11.90	11.51
90.0	14.89	14.39	13.89	13.51	13.06	12.51	12.07	11.68	11.29
135.0	15.44	14.89	14.34	13.89	13.51	13.01	12.62	12.12	11.68
180.0	15.83	15.22	14.67	14.23	13.78	13.34	12.90	12.45	12.12
225.0	14.95	14.34	13.95	13.56	13.17	12.62	12.18	11.85	11.35
270.0	15.50	15.00	14.50	14.00	13.62	13.17	12.68	12.29	11.79
315.0	15.17	14.61	14.12	13.73	13.23	12.73	12.40	11.90	11.51
360.0	14.67	14.23	13.84	13.40	12.79	12.34	11.79	11.46	11.07
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.68	10.41	10.19	9.85	9.69	9.47	9.30	9.08	8.86
45.0	11.13	10.68	10.46	10.19	9.91	9.69	9.52	9.24	9.08
90.0	10.85	10.57	10.30	10.07	9.80	9.58	9.35	9.13	8.97
135.0	11.35	10.90	10.63	10.35	10.07	9.91	9.63	9.41	9.19
180.0	11.62	11.18	10.85	10.46	10.24	10.02	9.74	9.52	9.30
225.0	10.96	10.68	10.35	10.13	9.91	9.63	9.47	9.24	8.97
270.0	11.35	11.02	10.68	10.35	10.13	9.91	9.69	9.47	9.24
315.0	11.13	10.68	10.41	10.24	9.96	9.69	9.52	9.30	9.13
360.0	10.68	10.41	10.19	9.85	9.69	9.47	9.30	9.08	8.86
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.69	8.52	8.36	8.25	8.14	7.97	7.80	7.69	7.69
45.0	8.91	8.69	8.47	8.30	8.19	8.08	7.92	7.80	7.64
90.0	8.75	8.58	8.41	8.30	8.08	7.97	7.86	7.69	7.64
135.0	8.97	8.80	8.58	8.47	8.19	8.08	7.97	7.80	7.69
180.0	9.08	8.91	8.69	8.52	8.36	8.19	8.03	7.92	7.80
225.0	8.86	8.64	8.52	8.36	8.25	8.08	7.97	7.80	7.75
270.0	9.08	8.86	8.75	8.47	8.36	8.19	8.03	7.92	7.75
315.0	8.91	8.75	8.52	8.36	8.19	8.08	7.92	7.75	7.64
360.0	8.69	8.52	8.36	8.25	8.14	7.97	7.80	7.69	7.69

Intensity data(cd)

Appendix Page: 19 Total:19

C/γ(°)	90.0
0.0	7.64
45.0	7.64
90.0	7.64
135.0	7.64
180.0	7.64
225.0	7.64
270.0	7.64
315.0	7.64
360.0	7.64