



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

---

## Nata

---

LumCAT: 1-0943-N	
Luminaire: 92.70.360.000	
Report No: 220512-B001	Voltage(V): 36.8000
Test No: 220512-C001	Current(A): 0.2010
LampCAT: NICHIA NVNWS007Z-V1	Power (W): 7.3960
Lamp flux(lm): 848.6	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

---

## Photometric Results

---

Lumens(lm): 670.76  
Efficiency(%): 79.04%  
Lumens(lm)/Power(W): 90.69  
Central intensity(cd): 1335.029  
Maximum intensity(cd): 1335.029  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=42.9  
                                  [C90/270]Total=42.9  
Field angle(10%Imax): [C0/180]Total=63.2  
                                  [C90/270]Total=63.2  
Maximum s/h(1/2): C0\_180=0.70 C90\_270=0.70  
Maximum s/h(1/4): C0\_180=0.66 C90\_270=0.66  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 79.04%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.903%

---

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2022/5/12  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.73

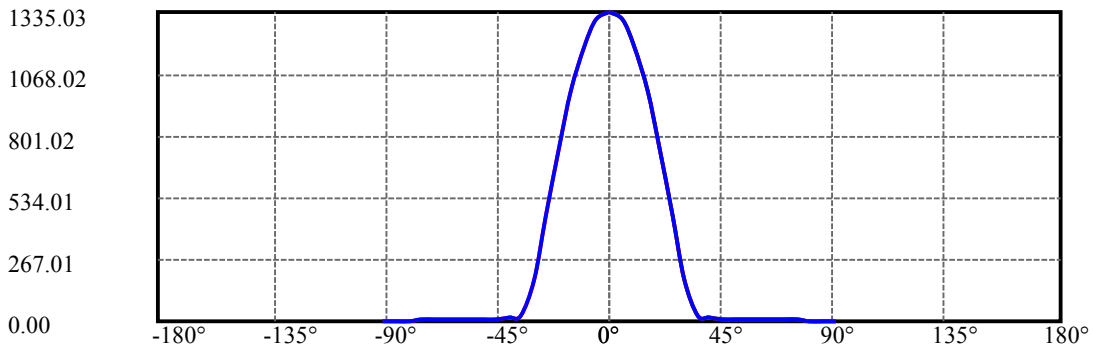
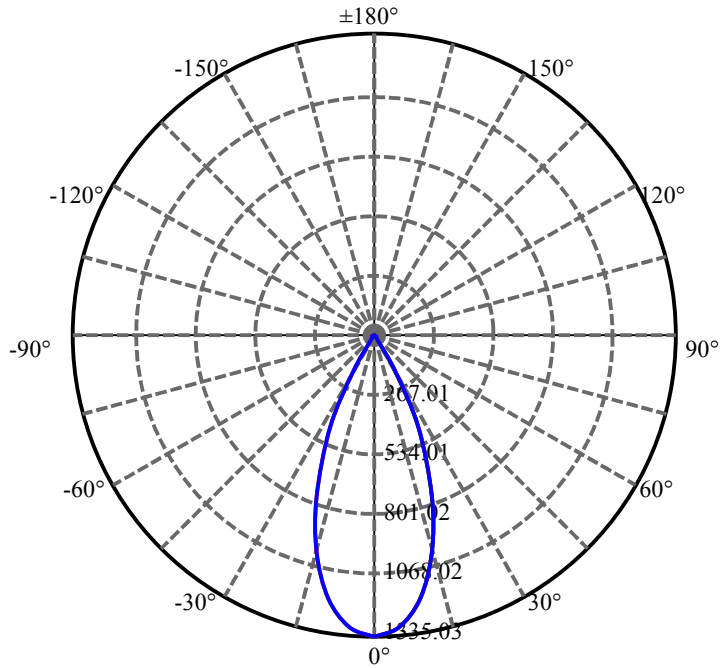
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1335.029	0.000	0	.000%	.000%
5.0	1298.729	31.486	31.486	3.710%	4.694%
10.0	1182.166	88.749	120.235	10.458%	17.925%
15.0	992.847	129.020	249.256	15.204%	37.160%
20.0	756.009	144.130	393.386	16.984%	58.648%
25.0	454.652	126.976	520.362	14.963%	77.578%
30.0	184.121	80.837	601.199	9.526%	89.629%
35.0	27.217	31.121	632.32	3.667%	94.269%
40.0	15.297	7.093	639.413	.836%	95.326%
45.0	12.302	5.110	644.523	.602%	96.088%
50.0	10.285	4.564	649.087	.538%	96.769%
55.0	8.433	4.070	653.157	.480%	97.375%
60.0	6.879	3.539	656.696	.417%	97.903%
65.0	5.587	3.030	659.727	.357%	98.355%
70.0	4.750	2.617	662.344	.308%	98.745%
75.0	4.183	2.335	664.679	.275%	99.093%
80.0	3.899	2.162	666.842	.255%	99.415%
85.0	3.854	2.107	668.948	.248%	99.730%
90.0	2.771	1.814	670.762	.214%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	601.20	70.85%	89.63%
0-40	639.41	75.35%	95.33%
0-60	656.70	77.38%	97.90%
0-90	668.95	78.83%	99.73%
0-120	668.95	78.83%	99.73%
0-180	670.76	79.04%	100.00%
60-90	15.79	1.86%	2.35%
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%
0-26.00	536.61	63.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	120.24
10-20	273.15
20-30	207.81
30-40	38.21
40-50	9.67
50-60	7.61
60-70	5.65
70-80	4.50
80-90	2.11
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: —————

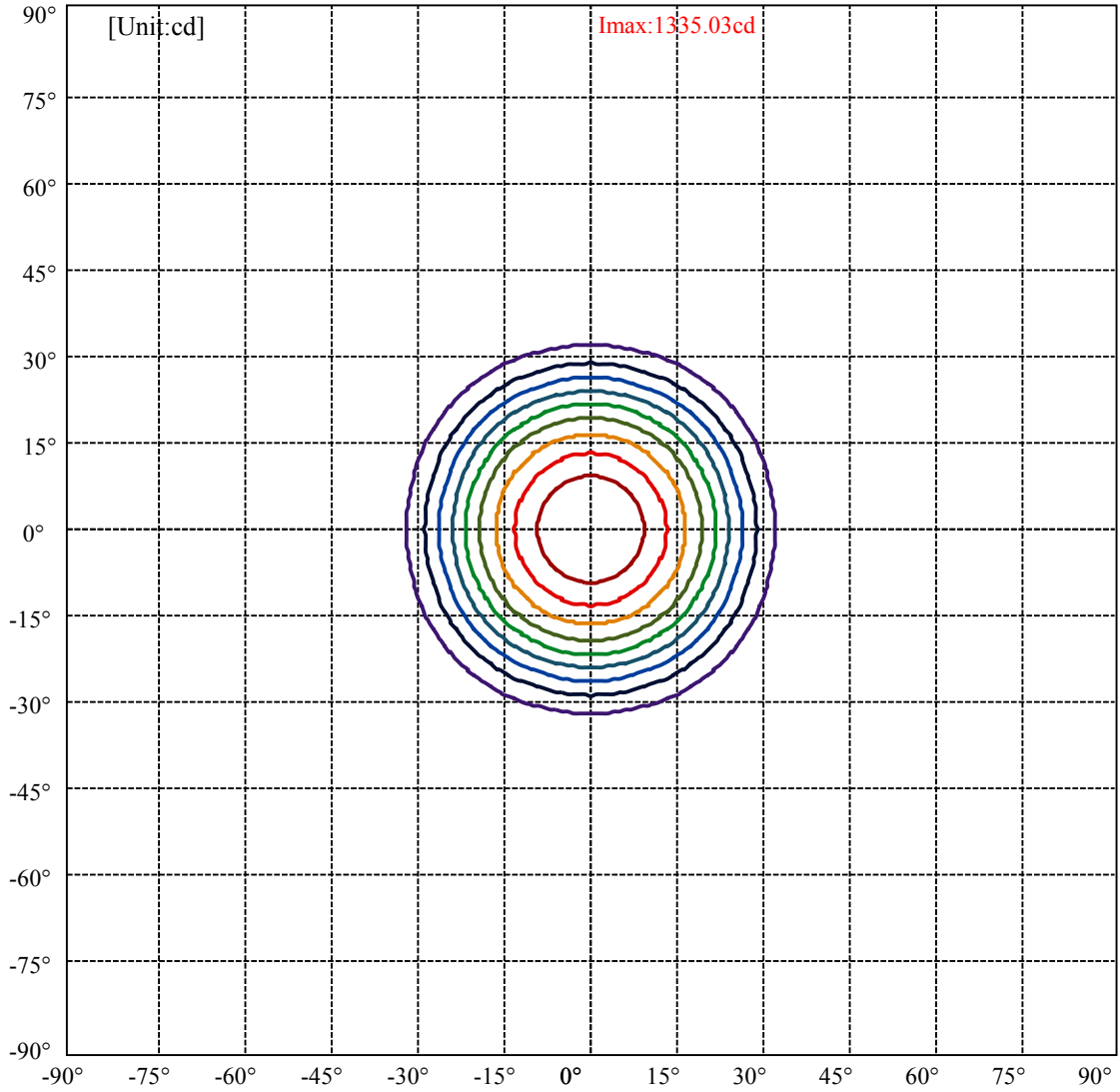
Field angle(10%Imax):C0/180Left:31.6 Right:31.6

:C90/270Left:31.6 Right:31.6

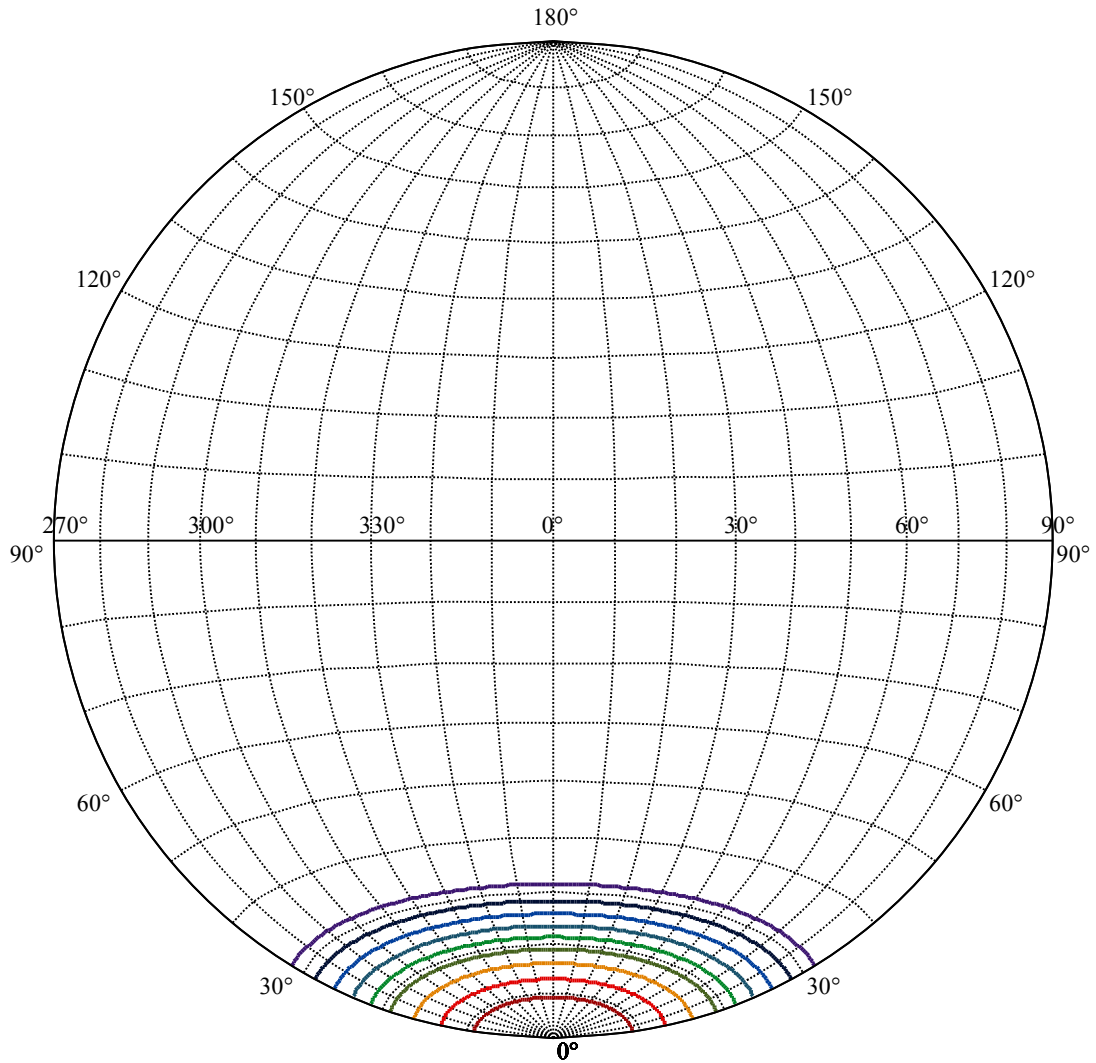
Beam Angle(50%Imax):C0/180Left:21.5 Right:21.5

:C90/270Left:21.5 Right:21.5





(10%Imax) 133.503	—
(20%Imax) 267.006	—
(30%Imax) 400.509	—
(40%Imax) 534.012	—
(50%Imax) 667.515	—
(60%Imax) 801.018	—
(70%Imax) 934.52	—
(80%Imax) 1068.02	—
(90%Imax) 1201.53	—



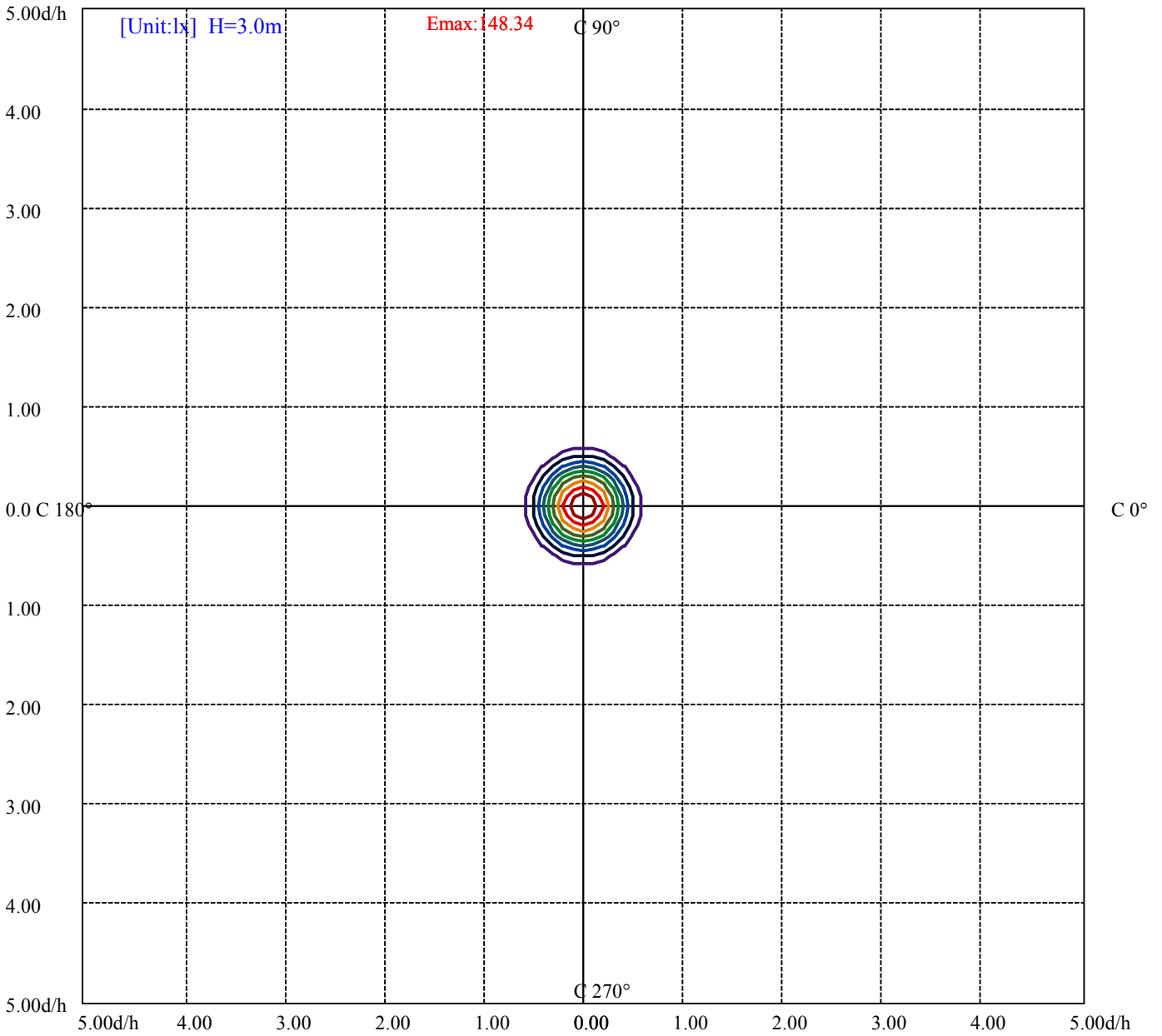
House

[Unit:cd]

Road

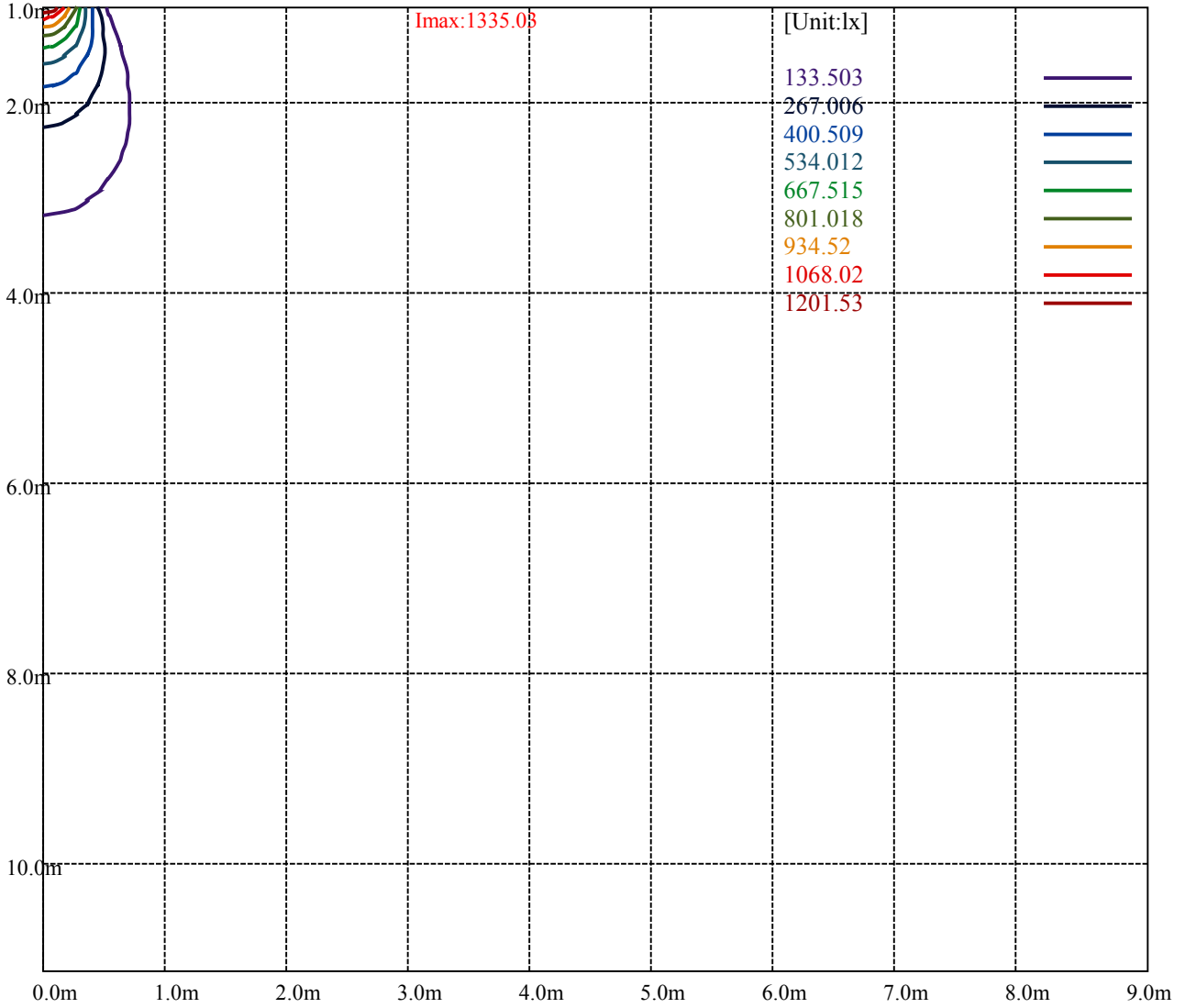
Imax:1335.03

(10%Imax) 133.503	—
(20%Imax) 267.006	—
(30%Imax) 400.509	—
(40%Imax) 534.012	—
(50%Imax) 667.515	—
(60%Imax) 801.018	—
(70%Imax) 934.52	—
(80%Imax) 1068.02	—
(90%Imax) 1201.53	—



(10%Emax) 14.83367	—
(20%Emax) 29.66734	—
(30%Emax) 44.50089	—
(40%Emax) 59.33455	—
(50%Emax) 74.16822	—
(60%Emax) 89.00189	—
(70%Emax) 103.8356	—
(80%Emax) 118.6689	—
(90%Emax) 133.5033	—





Luminance Table

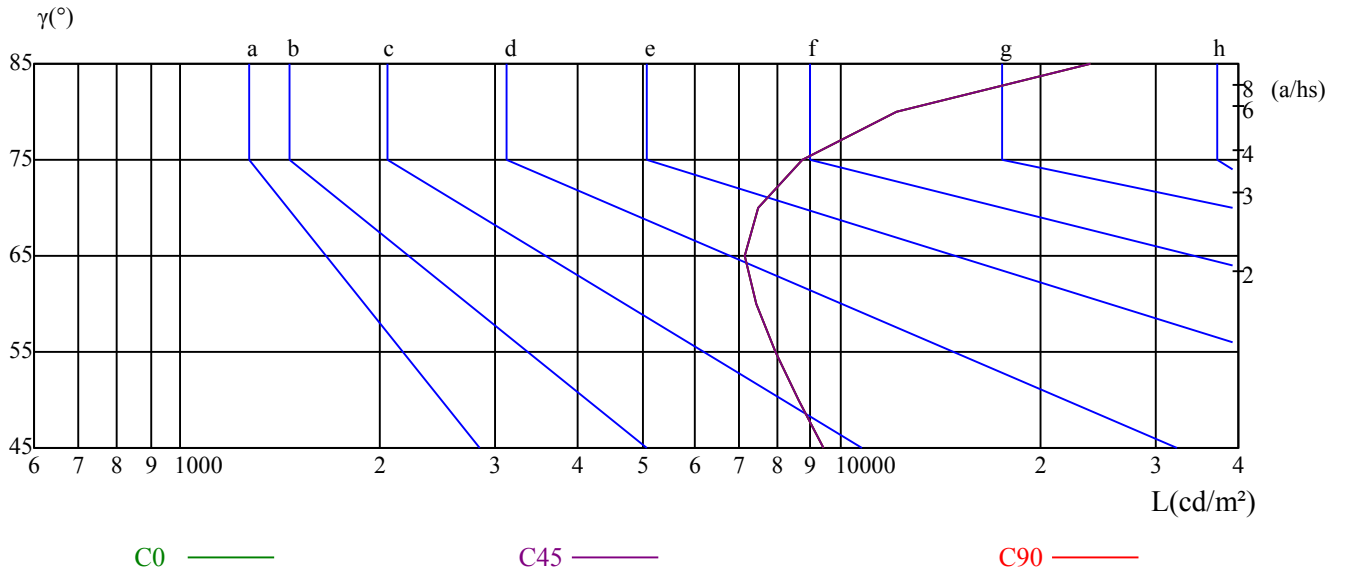
$\gamma$	45	50	55	60	65	70	75	80	85
C0	9409	8654	7951	7441	7150	7512	8740	12143	23916
C45	9409	8654	7951	7441	7150	7512	8740	12143	23916
C90	9409	8654	7951	7441	7150	7512	8740	12143	23916

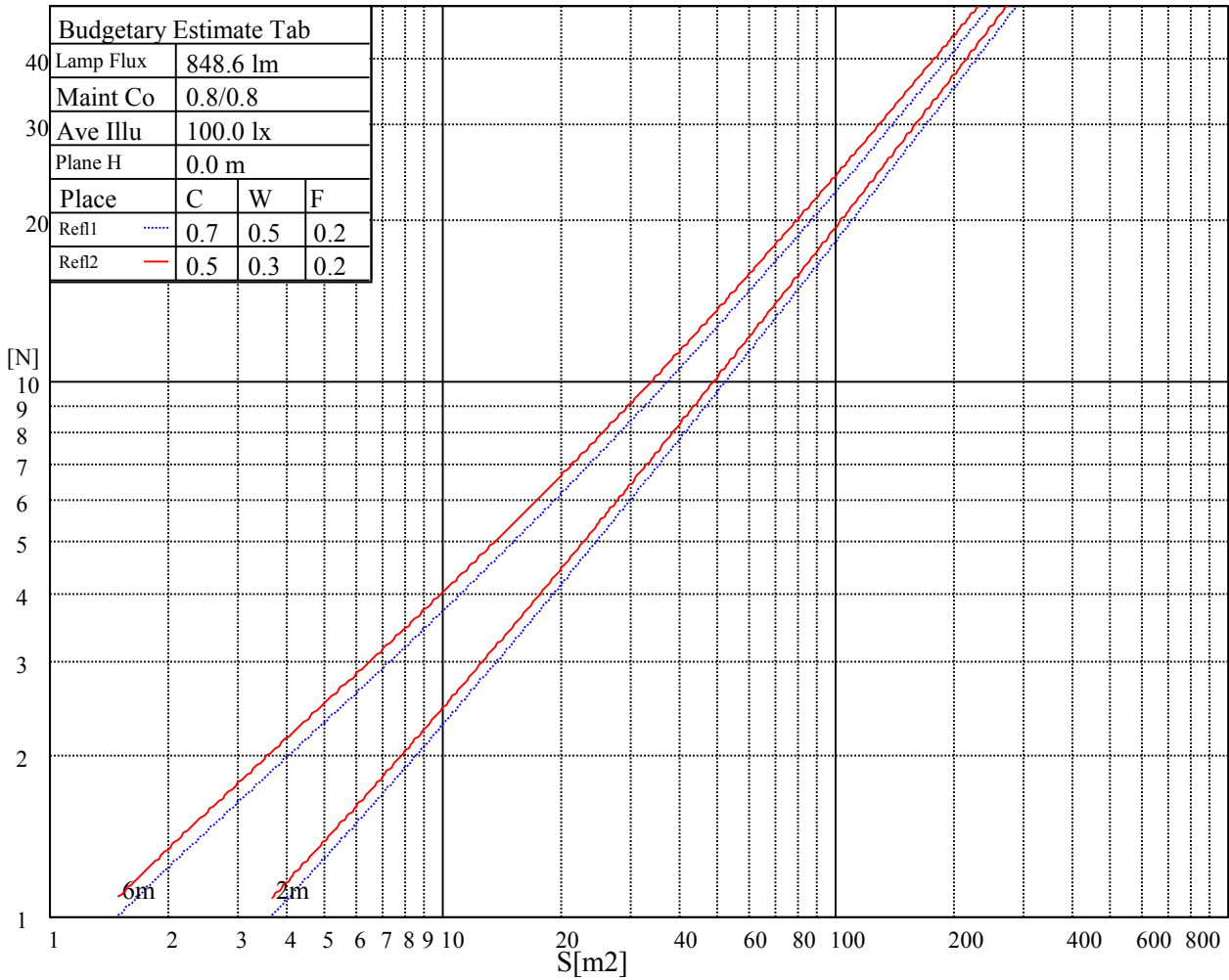
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7150	7150	7150	8740	8740	8740	23916	23916	23916

Glare Table

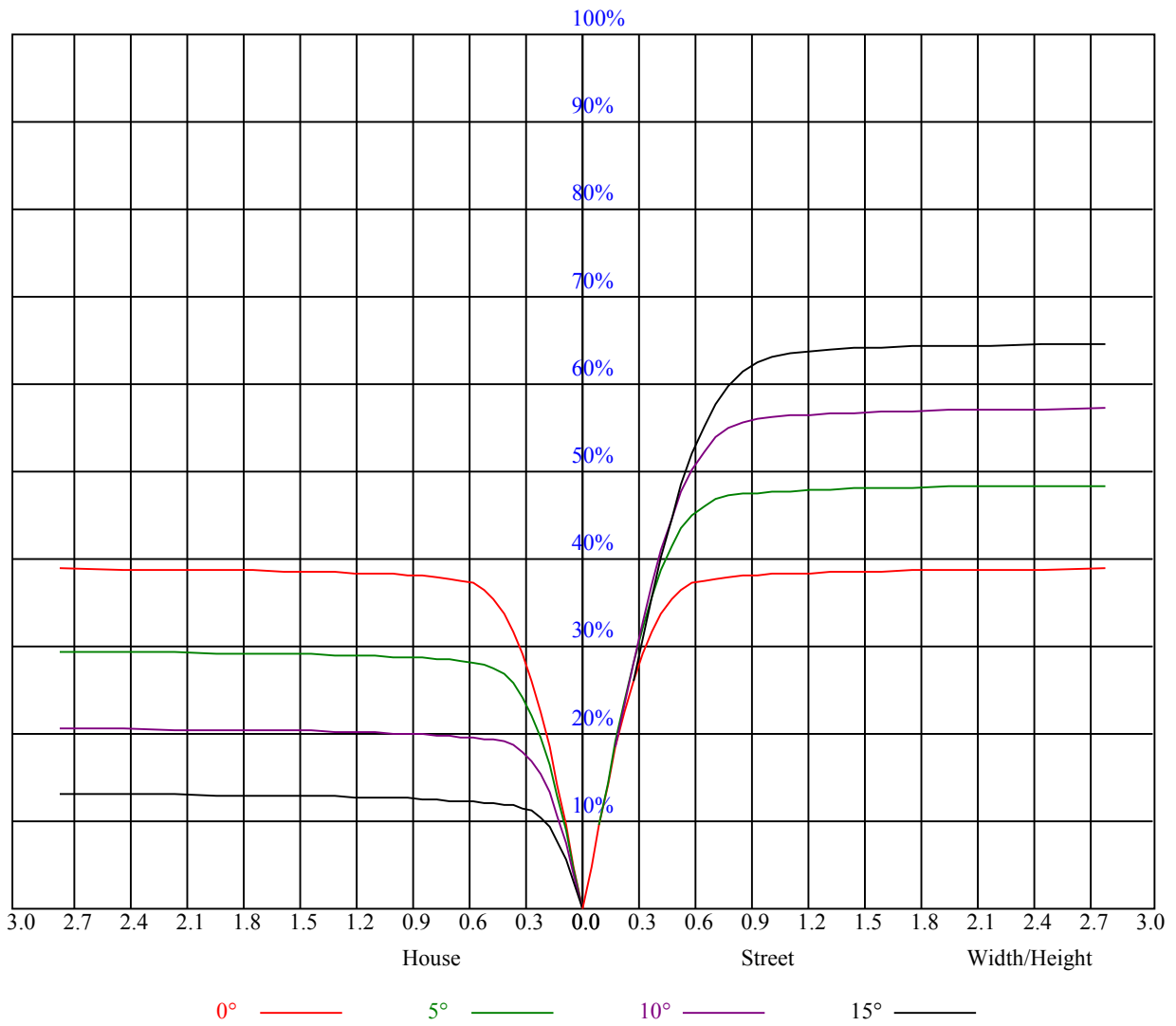
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.94	0.94	0.94	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.88	0.86	0.84	0.86	0.85	0.83	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75
2	0.83	0.80	0.77	0.81	0.79	0.77	0.79	0.77	0.75	0.77	0.75	0.73	0.74	0.73	0.72	0.71
3	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.71	0.70	0.68	0.67
4	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.70	0.67	0.65	0.69	0.66	0.65	0.64
5	0.70	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.61
6	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
7	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
8	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53
9	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.51	0.51
10	0.56	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.55	0.52	0.49	0.54	0.51	0.49	0.48



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	1331.89	1325.92	1235.09	1059.42	852.08	561.08	301.75	41.77	17.51
45.0	1337.87	1299.03	1185.50	988.91	761.25	458.30	161.03	26.17	15.30
90.0	1334.28	1276.92	1146.06	940.27	685.31	392.46	123.39	20.85	14.46
135.0	1336.07	1294.25	1177.73	991.30	732.57	434.40	141.97	22.11	14.58
180.0	1331.89	1271.54	1122.34	926.23	662.78	341.37	96.44	18.64	13.86
225.0	1337.87	1303.21	1183.17	972.48	759.70	445.82	153.98	24.86	15.12
270.0	1334.28	1314.56	1217.17	1055.83	818.02	516.86	307.13	34.72	15.77
315.0	1336.07	1304.41	1190.28	1008.33	776.37	486.93	187.27	28.62	15.77
360.0	1331.89	1325.92	1235.09	1059.42	852.08	561.08	301.75	41.77	17.51
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	13.38	11.05	9.08	7.35	5.98	5.08	4.30	3.82	3.29
45.0	12.31	10.34	8.37	6.81	5.50	4.66	4.12	3.70	3.11
90.0	11.77	9.86	8.13	6.69	5.50	4.72	4.36	4.60	2.99
135.0	11.83	9.92	8.13	6.75	5.44	4.60	4.06	3.70	3.05
180.0	11.41	9.62	7.89	6.33	5.20	4.42	3.88	3.59	2.93
225.0	12.25	10.34	8.48	6.87	5.50	4.72	4.12	3.82	3.23
270.0	12.79	10.70	8.84	7.23	5.92	5.02	4.42	4.18	8.96
315.0	12.67	10.46	8.54	6.99	5.68	4.78	4.18	3.76	3.29
360.0	13.38	11.05	9.08	7.35	5.98	5.08	4.30	3.82	3.29
C/γ(°)	90.0								
0.0	2.81								
45.0	2.81								
90.0	2.75								
135.0	2.75								
180.0	2.75								
225.0	2.81								
270.0	2.75								
315.0	2.75								
360.0	2.81								