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Nata

LumCAT: 4-2267-M	
Luminaire: 92.70.135.00	
Report No: GC2017103113	Voltage(V): 34.3000
Test No: NT-0010	Current(A): 0.5000
LampCAT: NICHIA NFCWD084B-V2	Power (W): 17.1500
Lamp flux(lm): 2537.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2264.38
Efficiency(%): 89.25%
Lumens(lm)/Power(W): 132.03
Central intensity(cd): 5458.154
Maximum intensity(cd): 5458.154
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=32.5
 [C90/270]Total=32.5
Field angle(10%Imax): [C0/180]Total=68.7
 [C90/270]Total=68.7
Maximum s/h(1/2): C0_180=0.53 C90_270=0.53
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.25%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.516%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/10/31
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

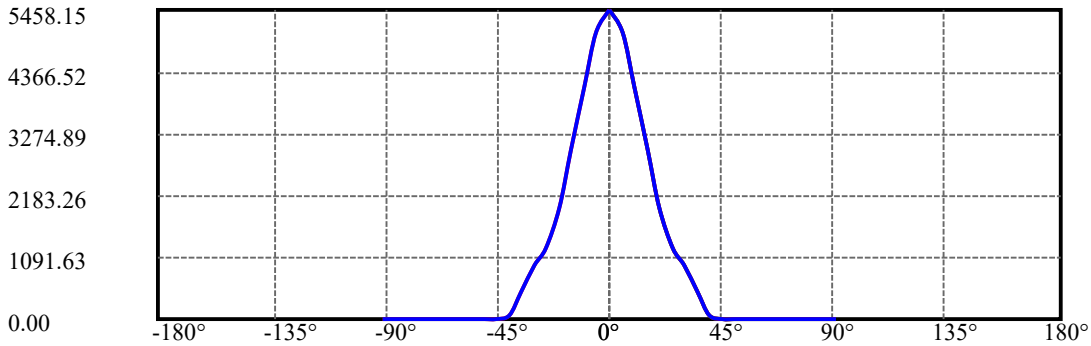
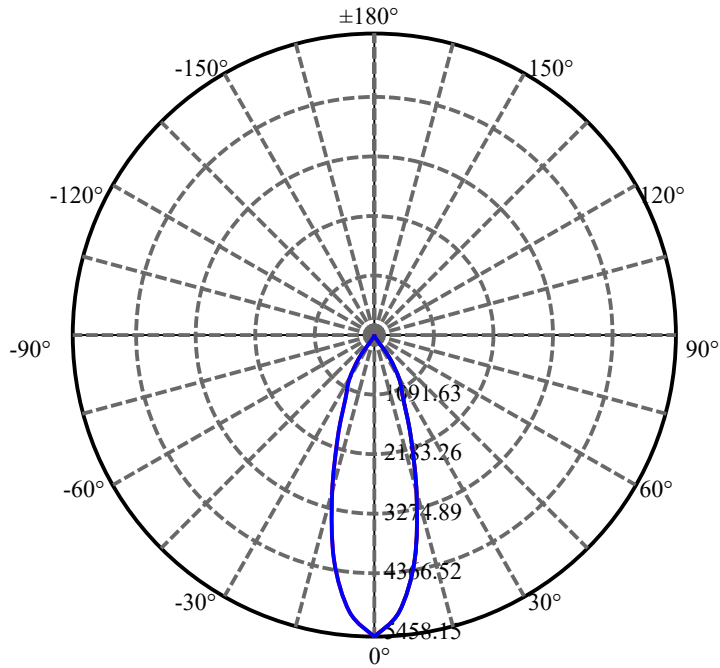
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5458.154	0.000	0	.000%	.000%
5.0	5037.179	125.469	125.469	4.946%	5.541%
10.0	4118.838	327.540	453.008	12.911%	20.006%
15.0	2982.061	421.221	874.229	16.603%	38.608%
20.0	1957.737	407.109	1281.338	16.047%	56.587%
25.0	1248.521	336.277	1617.615	13.255%	71.437%
30.0	938.354	276.751	1894.366	10.909%	83.659%
35.0	489.073	210.199	2104.564	8.285%	92.942%
40.0	70.314	93.329	2197.894	3.679%	97.064%
45.0	16.854	16.140	2214.034	.636%	97.777%
50.0	13.454	6.124	2220.158	.241%	98.047%
55.0	11.638	5.456	2225.614	.215%	98.288%
60.0	10.736	5.172	2230.785	.204%	98.516%
65.0	10.371	5.131	2235.916	.202%	98.743%
70.0	10.571	5.303	2241.219	.209%	98.977%
75.0	12.243	5.963	2247.182	.235%	99.240%
80.0	10.399	6.058	2253.241	.239%	99.508%
85.0	10.227	5.604	2258.845	.221%	99.756%
90.0	9.993	5.536	2264.381	.218%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1894.37	74.67%	83.66%
0-40	2197.89	86.63%	97.06%
0-60	2230.79	87.93%	98.52%
0-90	2258.85	89.04%	99.76%
0-120	2258.85	89.04%	99.76%
0-180	2264.38	89.25%	100.00%
60-90	33.23	1.31%	1.47%
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%
0-28.50	1811.51	71.40%	80.00%

ZONAL LUMEN SUMMARY

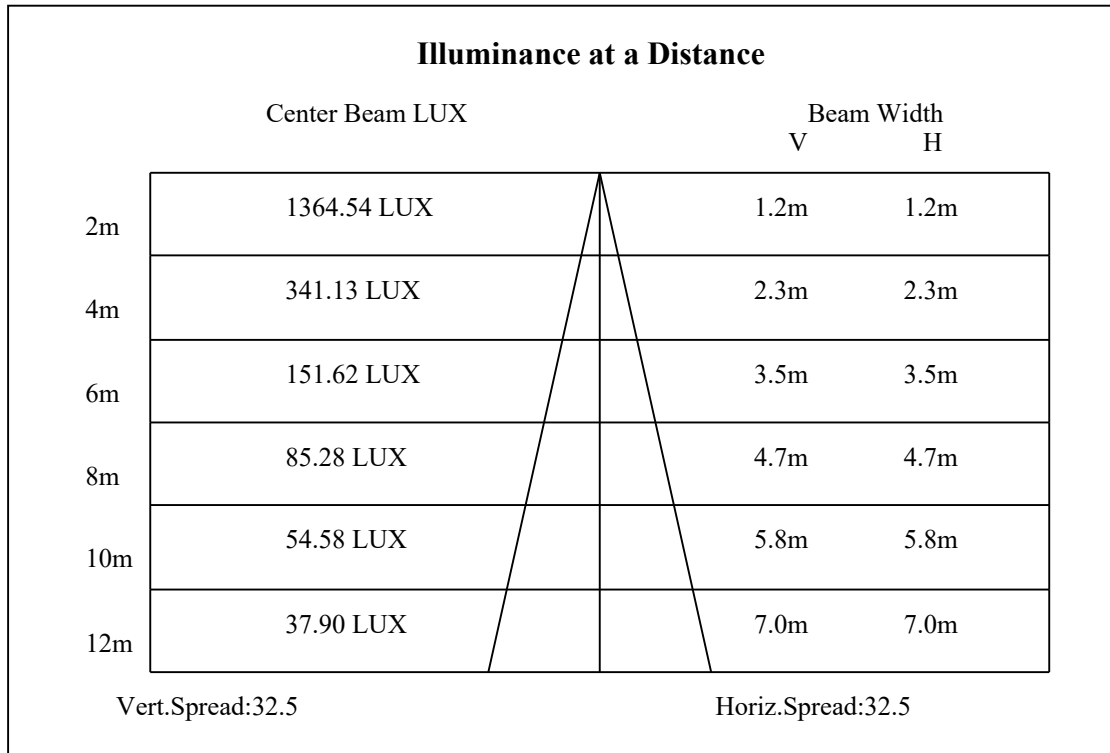
0-10	453.01
10-20	828.33
20-30	613.03
30-40	303.53
40-50	22.26
50-60	10.63
60-70	10.43
70-80	12.02
80-90	5.60
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

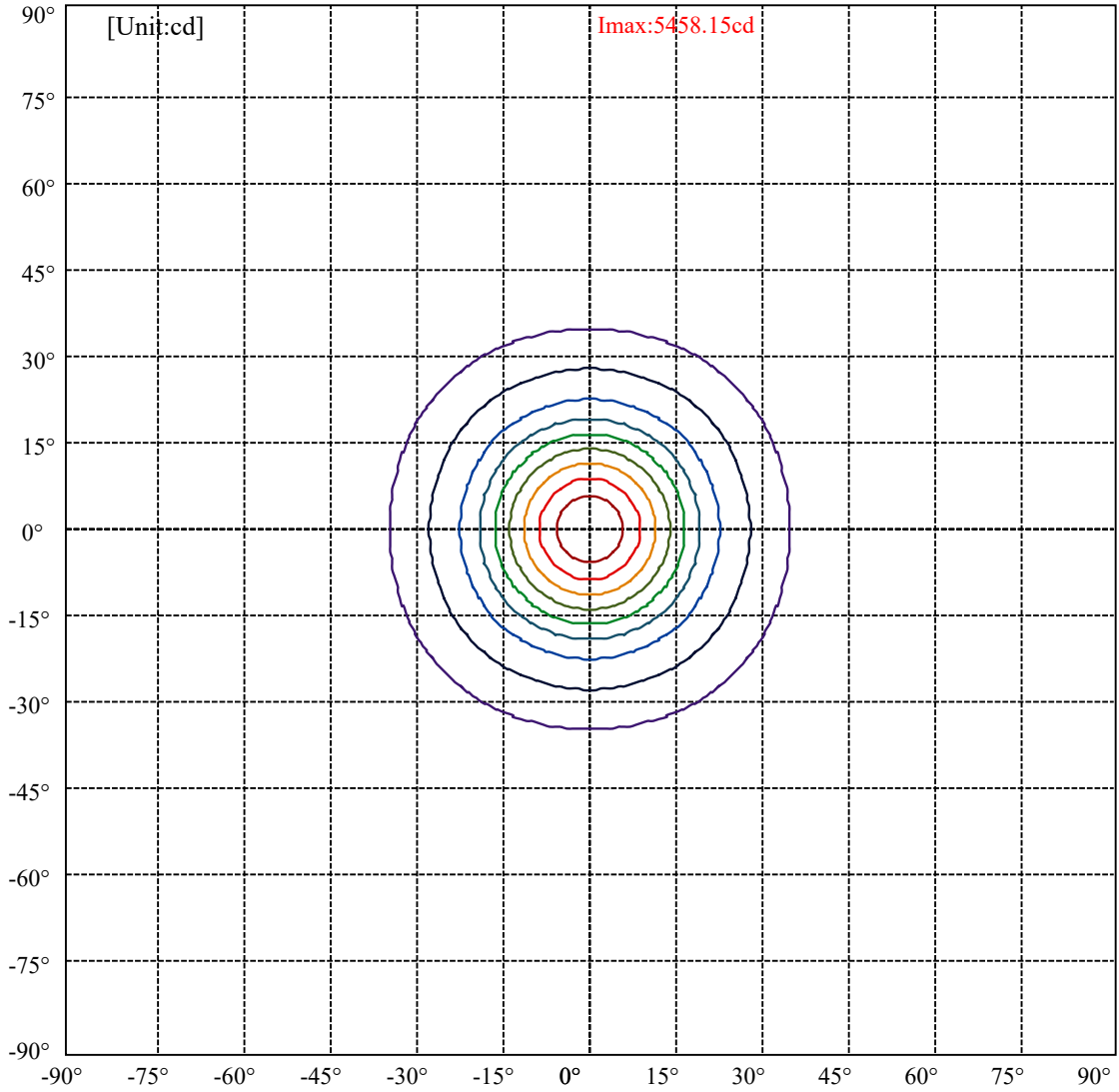


C0(Max): ———
 C0/C180: ———
 C90/C270: ———

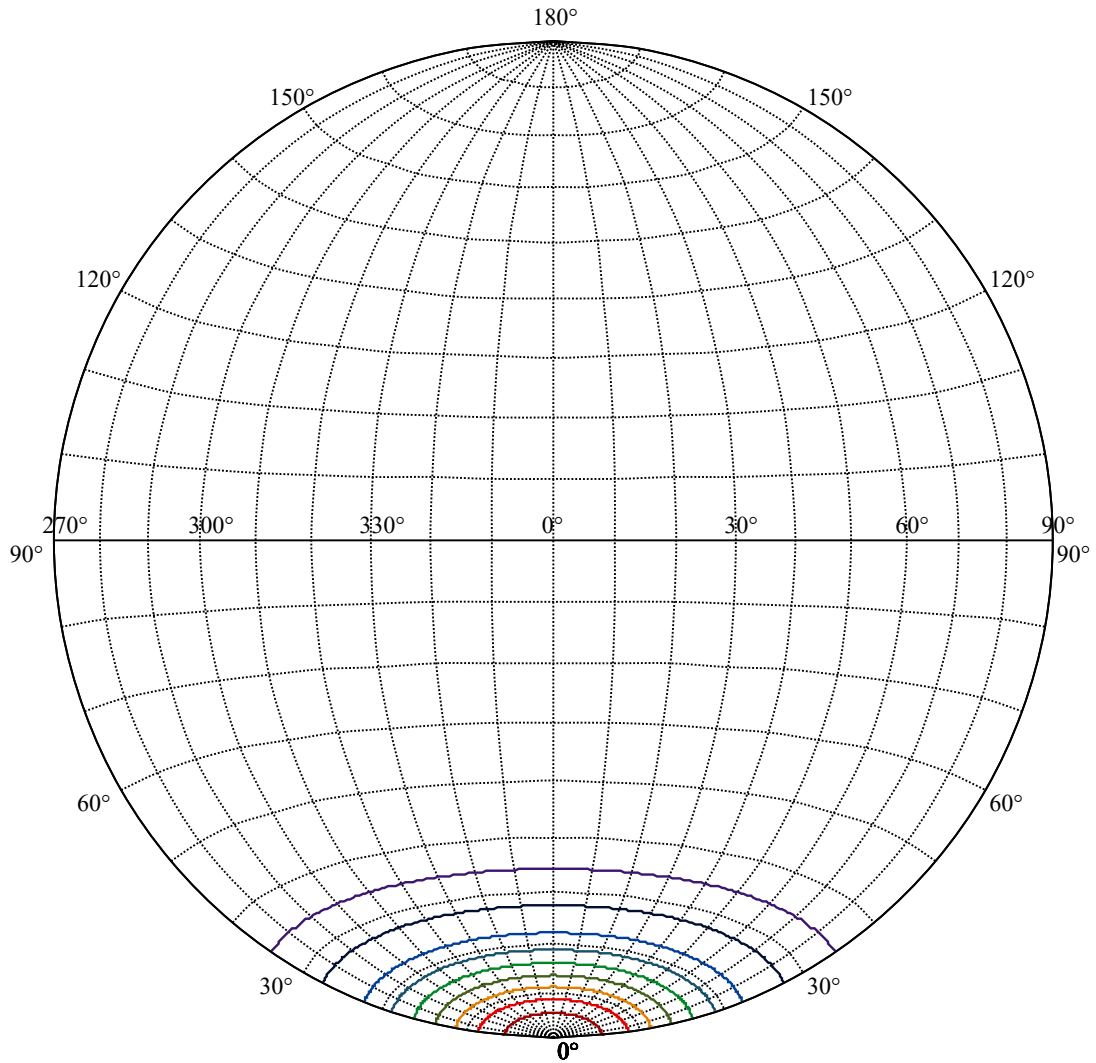
Field angle(10%Imax):C0/180Left:34.4 Right:34.4
 :C90/270Left:34.4 Right:34.4

Beam Angle(50%Imax):C0/180Left:16.2 Right:16.2
 :C90/270Left:16.2 Right:16.2





(10%Imax) 545.815	—
(20%Imax) 1091.63	—
(30%Imax) 1637.45	—
(40%Imax) 2183.26	—
(50%Imax) 2729.08	—
(60%Imax) 3274.89	—
(70%Imax) 3820.71	—
(80%Imax) 4366.52	—
(90%Imax) 4912.34	—



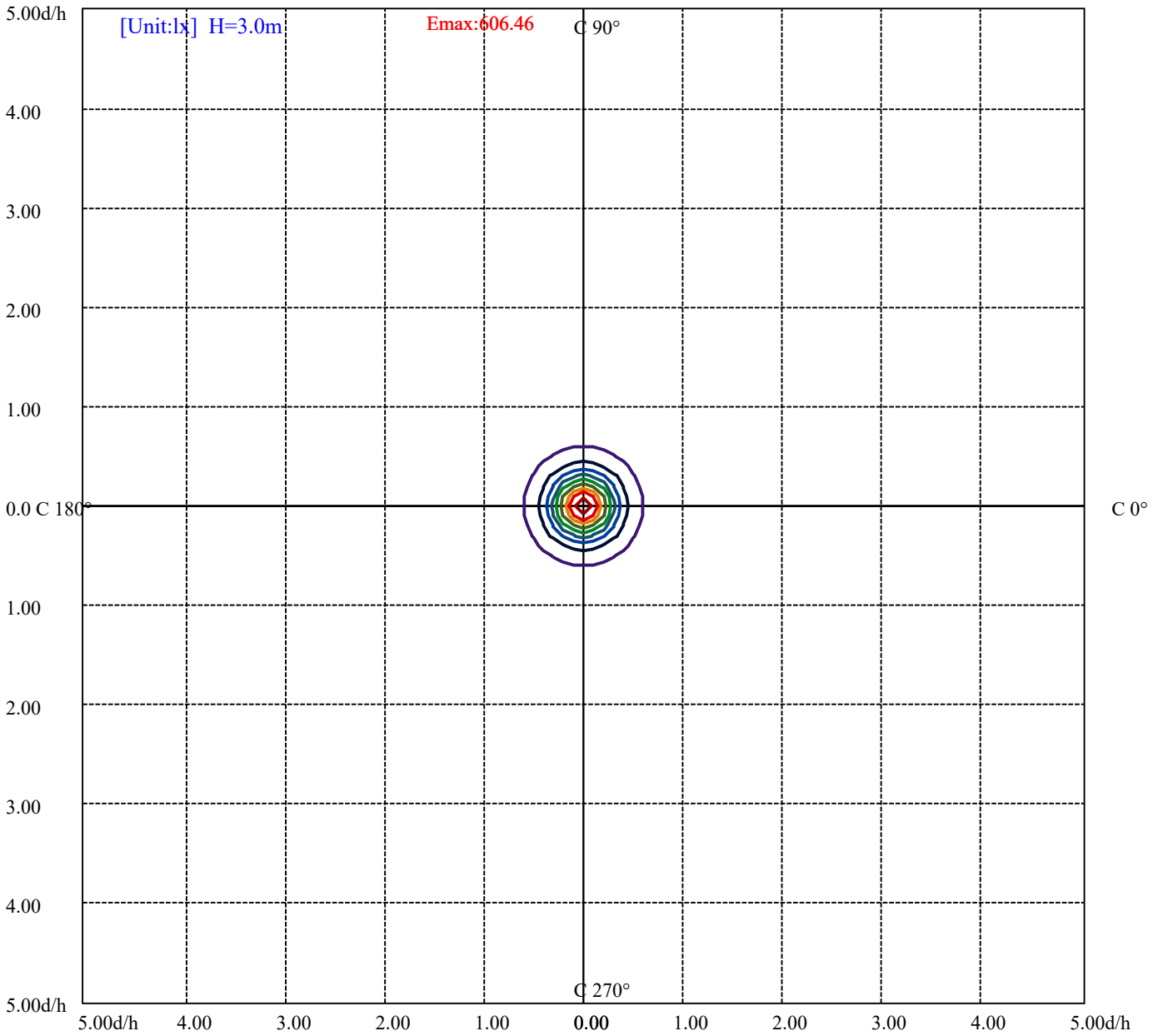
House

[Unit:cd]

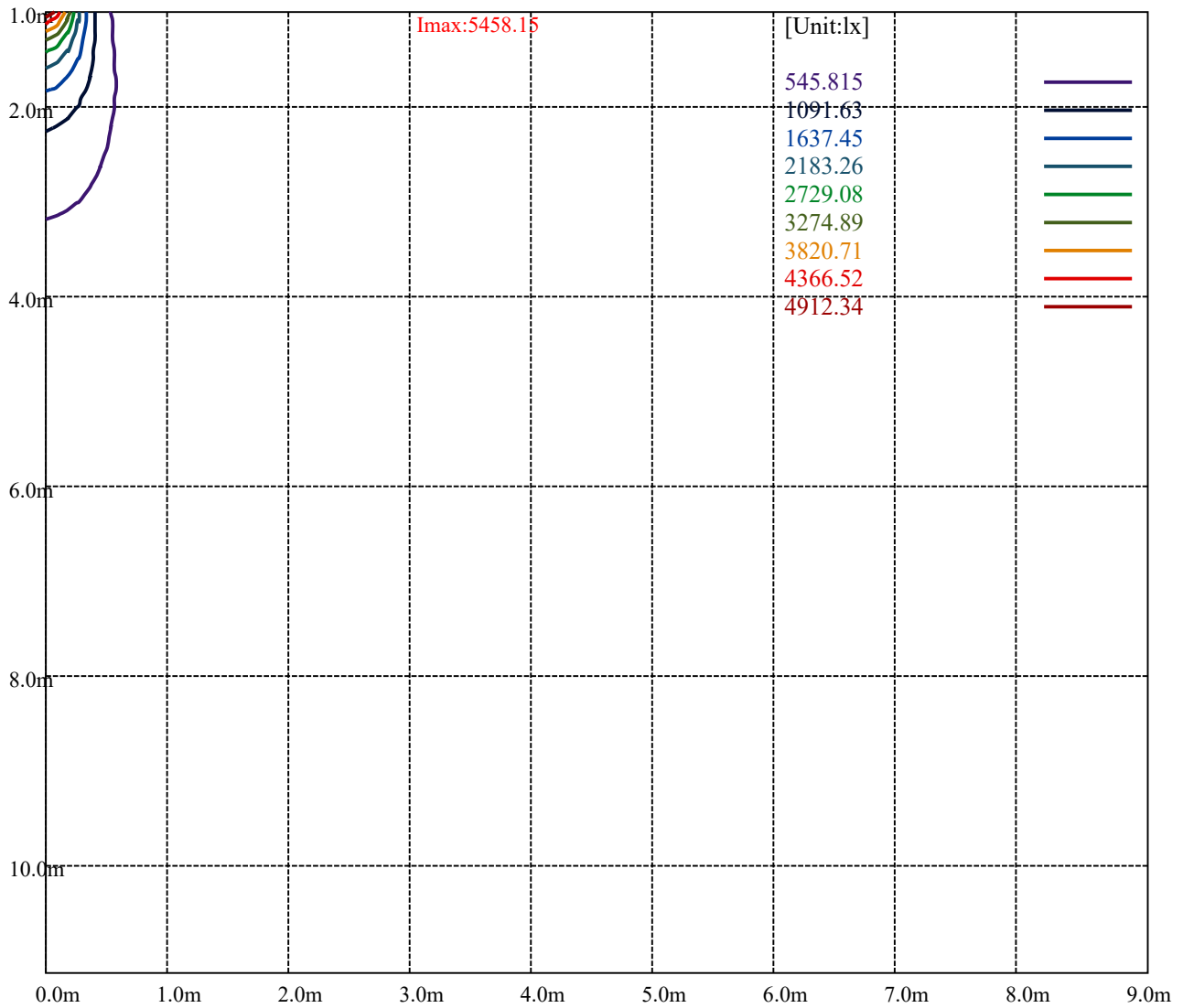
Road

Imax:5458.15

(10%Imax)	545.815	—
(20%Imax)	1091.63	—
(30%Imax)	1637.45	—
(40%Imax)	2183.26	—
(50%Imax)	2729.08	—
(60%Imax)	3274.89	—
(70%Imax)	3820.71	—
(80%Imax)	4366.52	—
(90%Imax)	4912.34	—



(10%E _{max}) 60.646	—
(20%E _{max}) 121.2922	—
(30%E _{max}) 181.9378	—
(40%E _{max}) 242.5844	—
(50%E _{max}) 303.23	—
(60%E _{max}) 363.8755	—
(70%E _{max}) 424.5222	—
(80%E _{max}) 485.1678	—
(90%E _{max}) 545.8145	—



Luminance Table

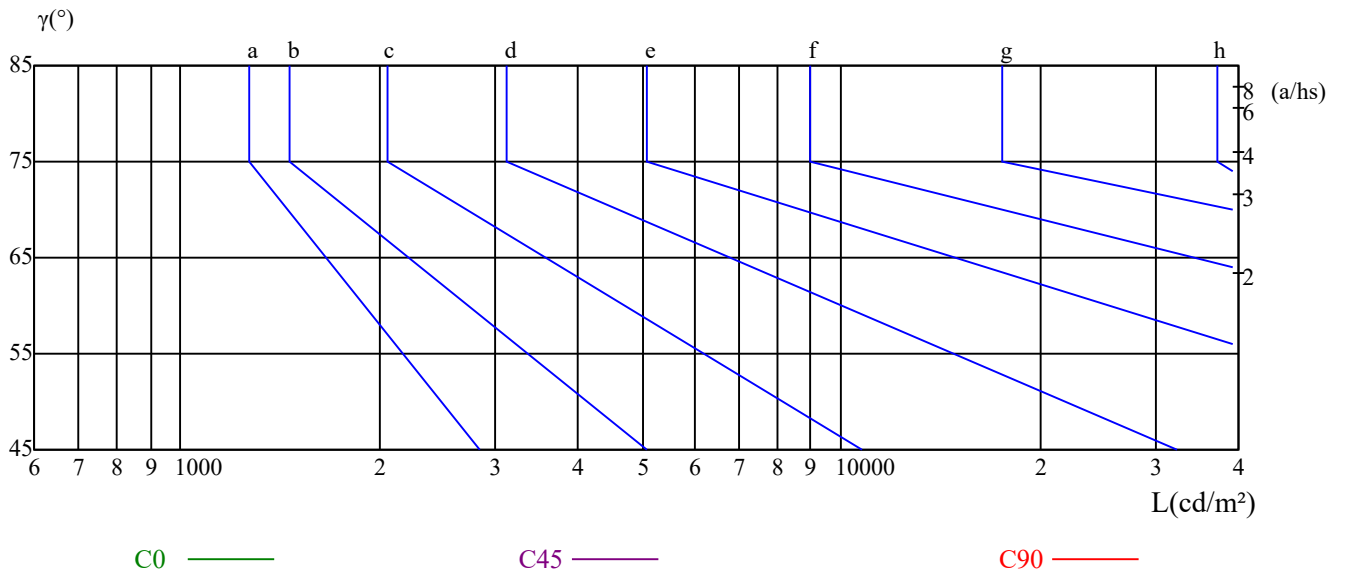
γ	45	50	55	60	65	70	75	80	85
C0	306	230	189	168	157	157	179	151	149
C45	225	168	138	122	113	113	128	108	106
C90	306	230	189	168	157	157	179	151	149

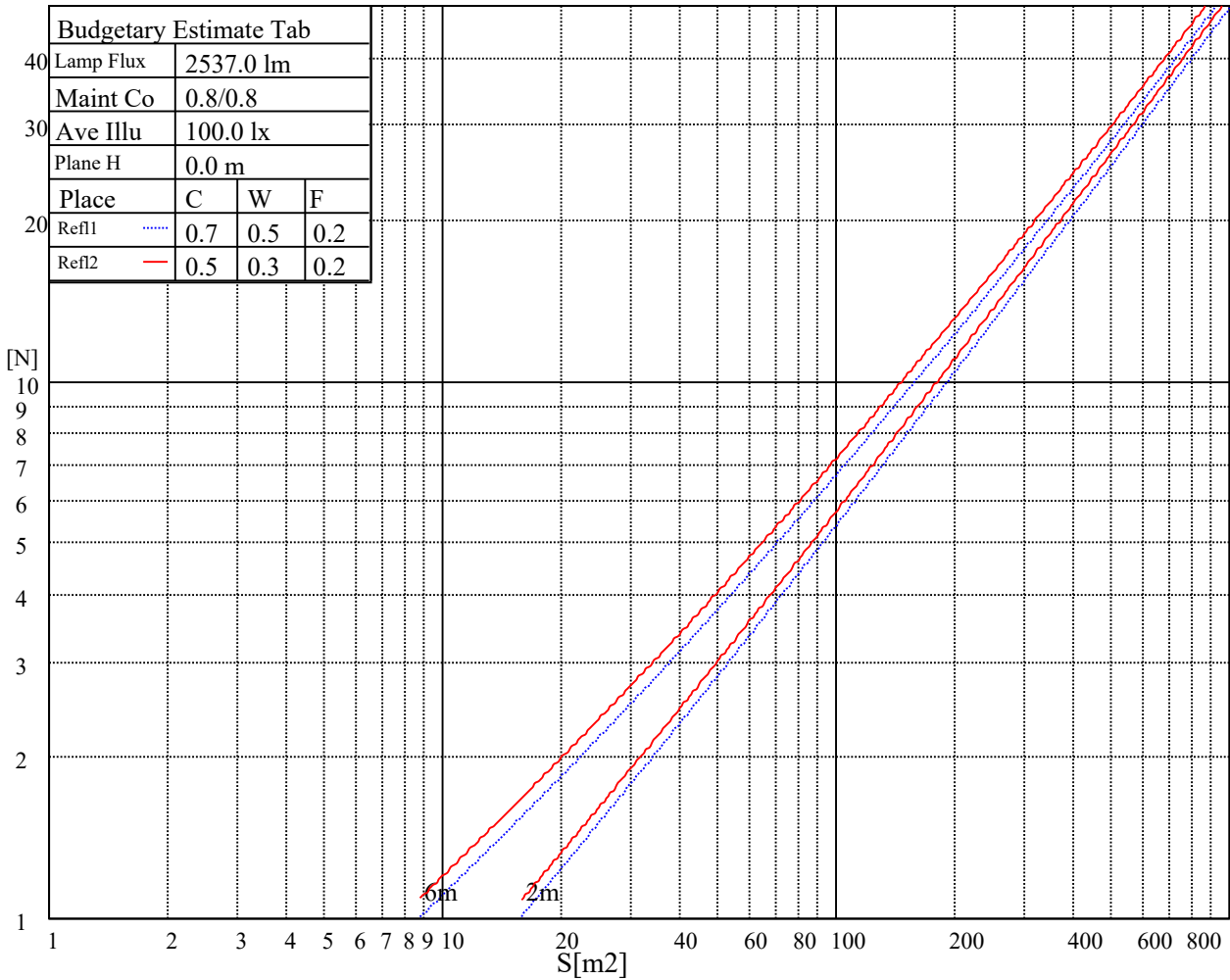
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2454	2454	2454	4730	4730	4730	11734	11734	11734

Glare Table

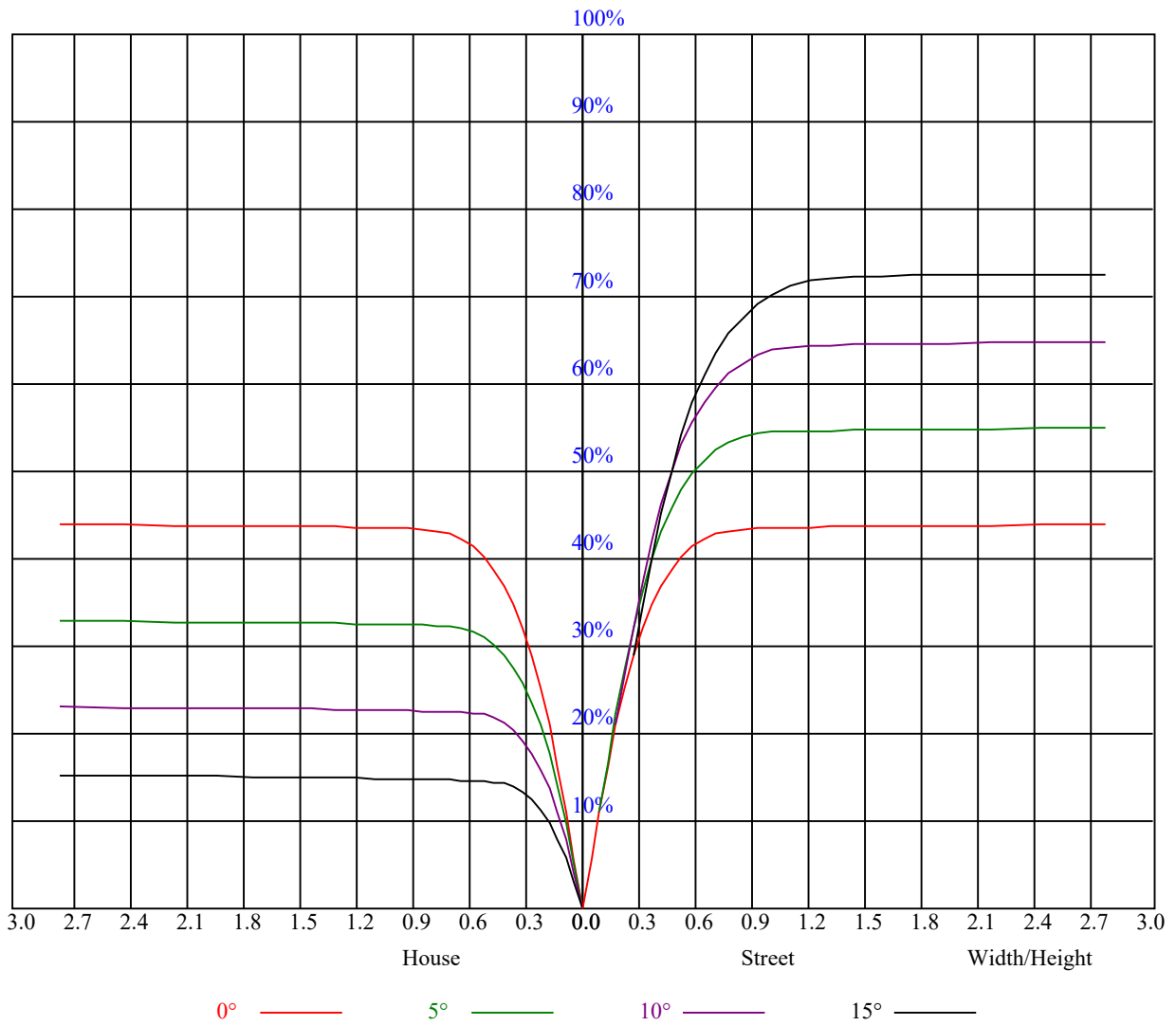
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.95	0.97	0.96	0.94	0.94	0.92	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.84
2	0.93	0.90	0.87	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.79	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.71	0.76	0.72	0.70	0.74	0.72	0.69	0.68
6	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
7	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.54



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	5447.28	5148.32	4244.30	3147.57	2090.49	1320.25	973.95	568.73	52.47
45.0	5477.56	5002.98	4031.23	2915.79	1899.45	1229.96	921.64	457.52	33.86
90.0	5431.31	4814.68	3792.84	2701.62	1694.09	1092.65	846.71	330.45	26.98
135.0	5476.46	4981.50	4084.63	2932.30	1934.68	1242.62	938.16	480.64	34.19
180.0	5447.28	4889.01	3946.44	2802.37	1828.42	1081.36	906.56	389.80	33.47
225.0	5477.56	5142.82	4177.68	3016.54	1995.79	1299.33	954.57	524.30	50.71
270.0	5431.31	5271.10	4489.30	3329.81	2245.20	1440.83	1024.05	653.52	285.19
315.0	5476.46	5047.02	4184.29	3010.48	1973.77	1281.16	941.19	507.62	45.64
360.0	5447.28	5148.32	4244.30	3147.57	2090.49	1320.25	973.95	568.73	52.47

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	17.45	13.71	11.78	10.85	10.30	10.24	10.19	10.13	10.08
45.0	16.08	13.21	11.51	10.68	10.35	10.35	13.27	10.52	10.35
90.0	15.25	12.99	11.40	10.63	10.79	12.94	22.85	11.29	10.41
135.0	15.64	13.10	11.56	10.79	10.46	10.46	11.12	10.85	10.68
180.0	15.86	13.21	11.62	10.68	10.35	10.24	10.30	10.24	10.24
225.0	17.29	13.49	11.67	10.68	10.24	10.08	10.02	10.02	10.02
270.0	19.99	14.37	11.95	10.90	10.24	10.13	10.08	10.08	10.02
315.0	17.29	13.54	11.62	10.68	10.24	10.13	10.13	10.08	10.02
360.0	17.45	13.71	11.78	10.85	10.30	10.24	10.19	10.13	10.08

C/γ(°)	90.0
0.0	10.02
45.0	9.97
90.0	9.97
135.0	10.02
180.0	10.02
225.0	9.97
270.0	9.97
315.0	10.02
360.0	10.02