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Nata

LumCAT: 4-2267-M
Luminaire: 92.70.135.00
Report No: GC2017122802
Test No: NT-0010
LampCAT: NICHIA NVEWJ048Z-V1
Lamp flux(lm): 3051.0
Number of Lamps: 1
Length(mm): 100
Phm Type: C

Voltage(V): 43.7000
Current(A): 0.5000
Power (W): 21.7000
PF: 0.0000
Ballast type: DC
Width(mm): 100
Height(mm): 0

Photometric Results

Lumens(lm): 2740.76
Efficiency(%): 89.83%
Lumens(lm)/Power(W): 126.30
Central intensity(cd): 6127.089
Maximum intensity(cd): 6127.089
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.5
 [C90/270]Total=34.5
Field angle(10%Imax): [C0/180]Total=69.7
 [C90/270]Total=69.7
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.83%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.406%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/12/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

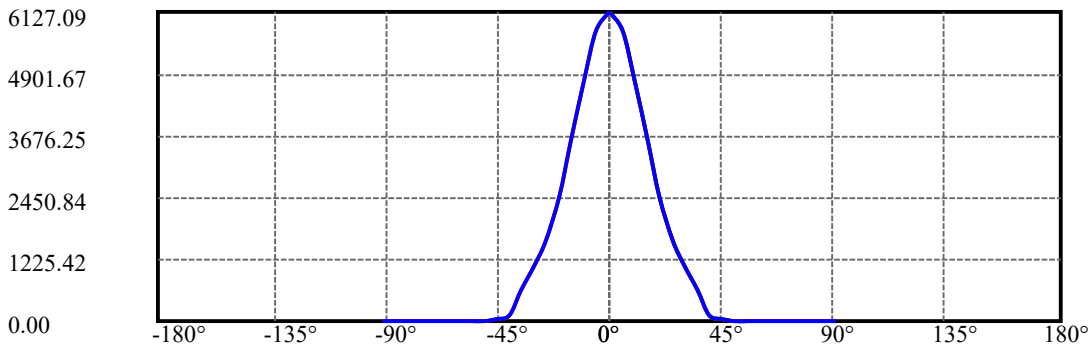
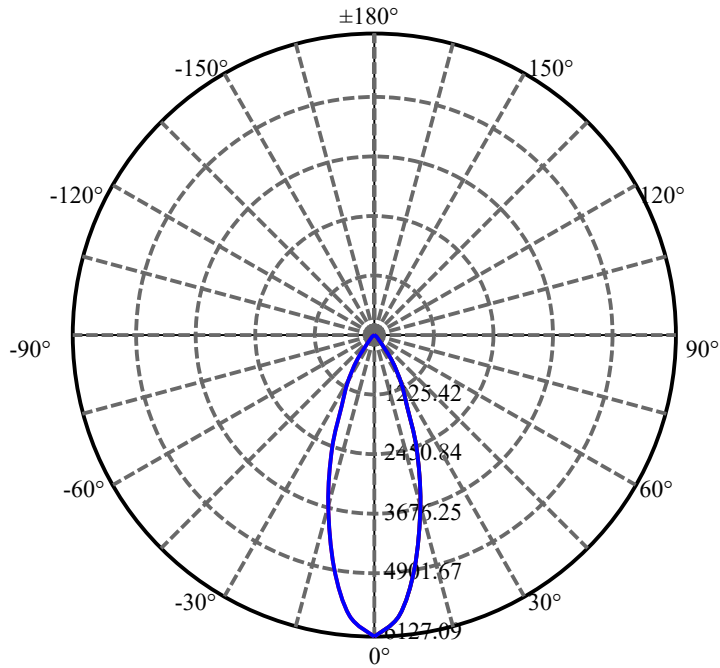
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6127.089	0.000	0	.000%	.000%
5.0	5737.221	141.834	141.834	4.649%	5.175%
10.0	4795.068	376.773	518.608	12.349%	18.922%
15.0	3569.995	496.210	1014.817	16.264%	37.027%
20.0	2456.685	496.683	1511.501	16.279%	55.149%
25.0	1592.644	424.700	1936.201	13.920%	70.645%
30.0	1105.911	341.504	2277.705	11.193%	83.105%
35.0	598.807	251.032	2528.737	8.228%	92.264%
40.0	123.464	120.505	2649.242	3.950%	96.661%
45.0	20.942	26.738	2675.98	.876%	97.636%
50.0	16.820	7.630	2683.61	.250%	97.915%
55.0	14.796	6.874	2690.485	.225%	98.166%
60.0	13.702	6.587	2697.072	.216%	98.406%
65.0	13.337	6.573	2703.646	.215%	98.646%
70.0	13.805	6.873	2710.518	.225%	98.897%
75.0	16.152	7.830	2718.349	.257%	99.182%
80.0	13.799	8.014	2726.363	.263%	99.475%
85.0	13.124	7.316	2733.678	.240%	99.742%
90.0	12.739	7.081	2740.76	.232%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2277.70	74.65%	83.10%
0-40	2649.24	86.83%	96.66%
0-60	2697.07	88.40%	98.41%
0-90	2733.68	89.60%	99.74%
0-120	2733.68	89.60%	99.74%
0-180	2740.76	89.83%	100.00%
60-90	43.19	1.42%	1.58%
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%
0-28.75	2192.61	71.87%	80.00%

ZONAL LUMEN SUMMARY

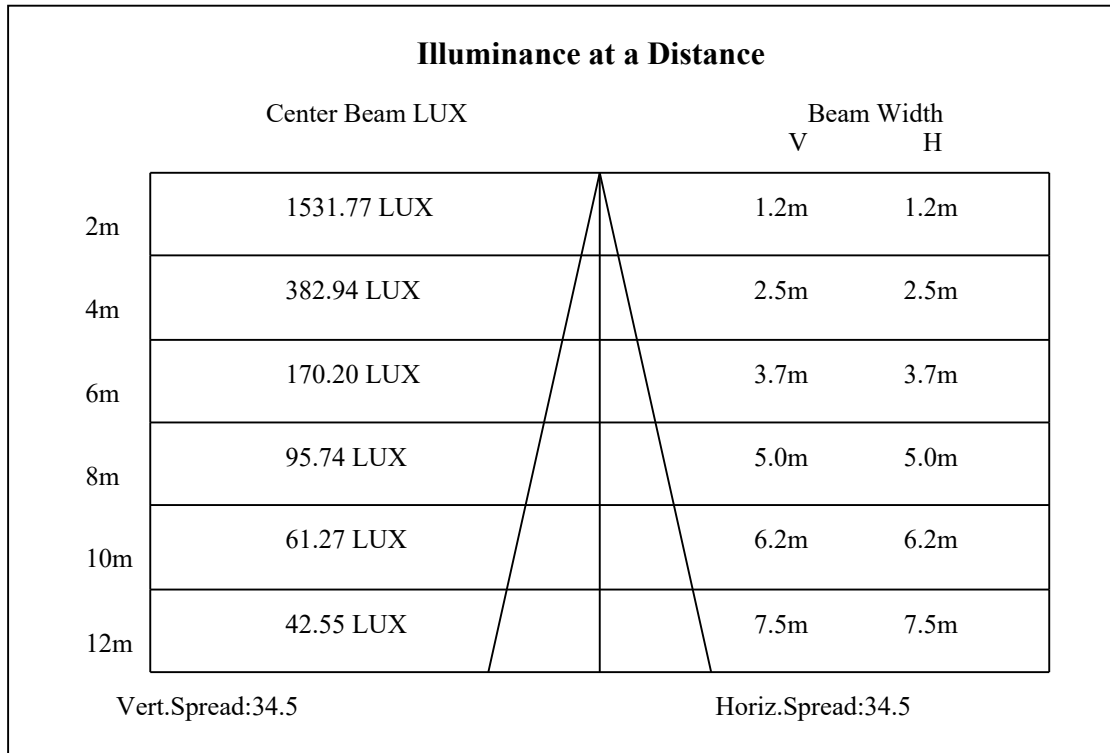
0-10	518.61
10-20	992.89
20-30	766.20
30-40	371.54
40-50	34.37
50-60	13.46
60-70	13.45
70-80	15.84
80-90	7.32
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

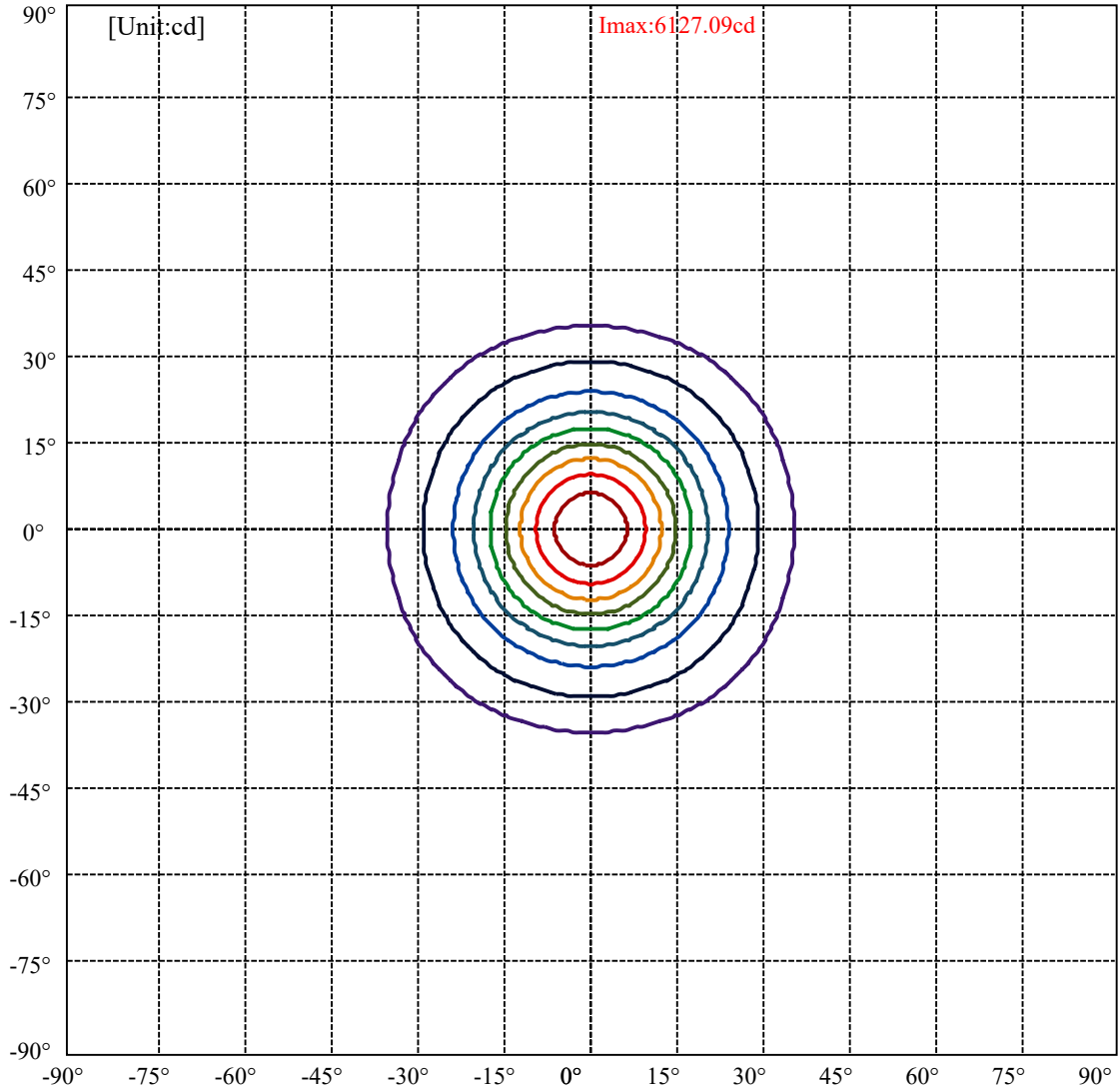


C0(Max): ———
C0/C180: ———
C90/C270: ———

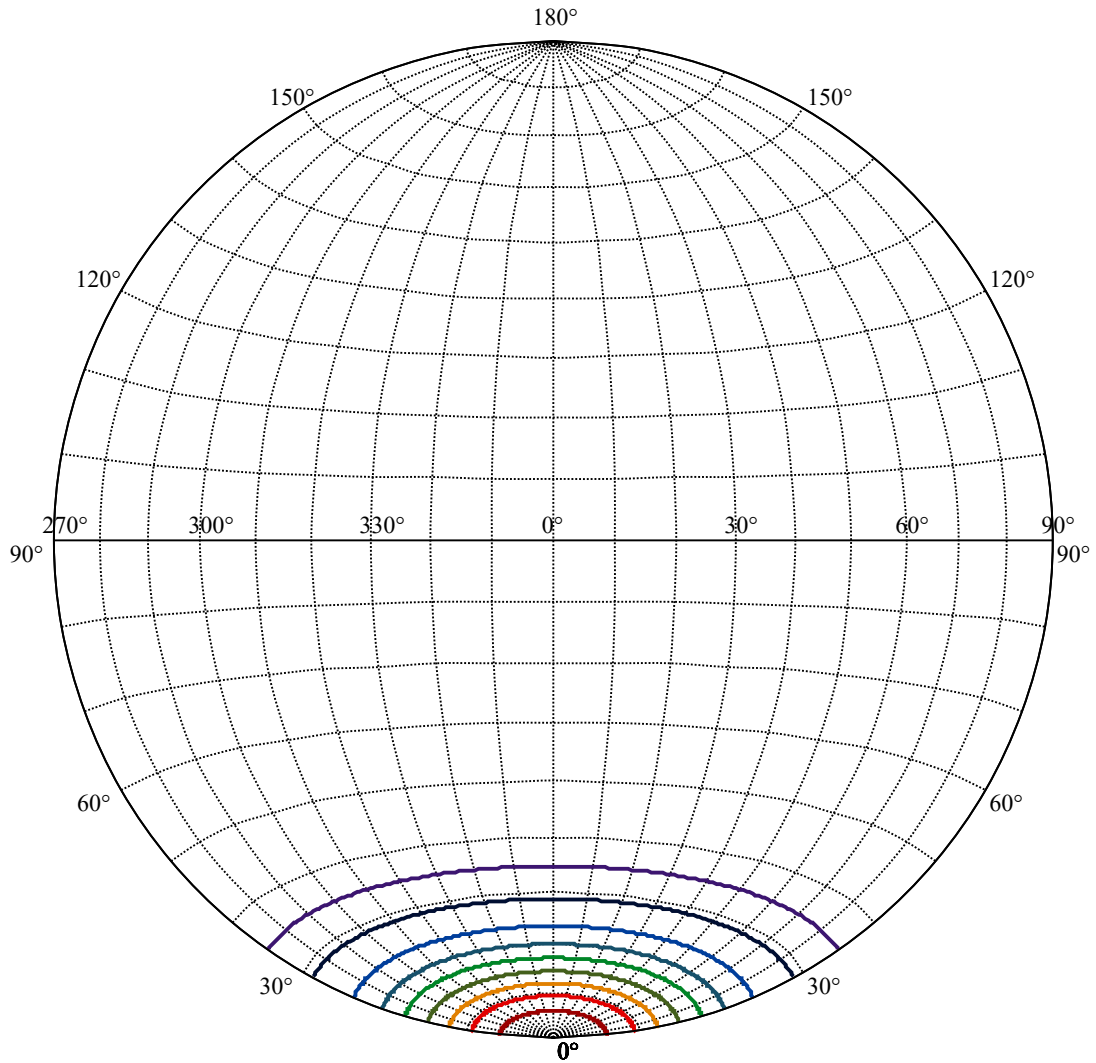
Field angle(10%Imax):C0/180Left:34.9 Right:34.9
:C90/270Left:34.9 Right:34.9

Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3
:C90/270Left:17.3 Right:17.3





(10%Imax) 612.709	—
(20%Imax) 1225.42	—
(30%Imax) 1838.13	—
(40%Imax) 2450.84	—
(50%Imax) 3063.54	—
(60%Imax) 3676.25	—
(70%Imax) 4288.96	—
(80%Imax) 4901.67	—
(90%Imax) 5514.38	—



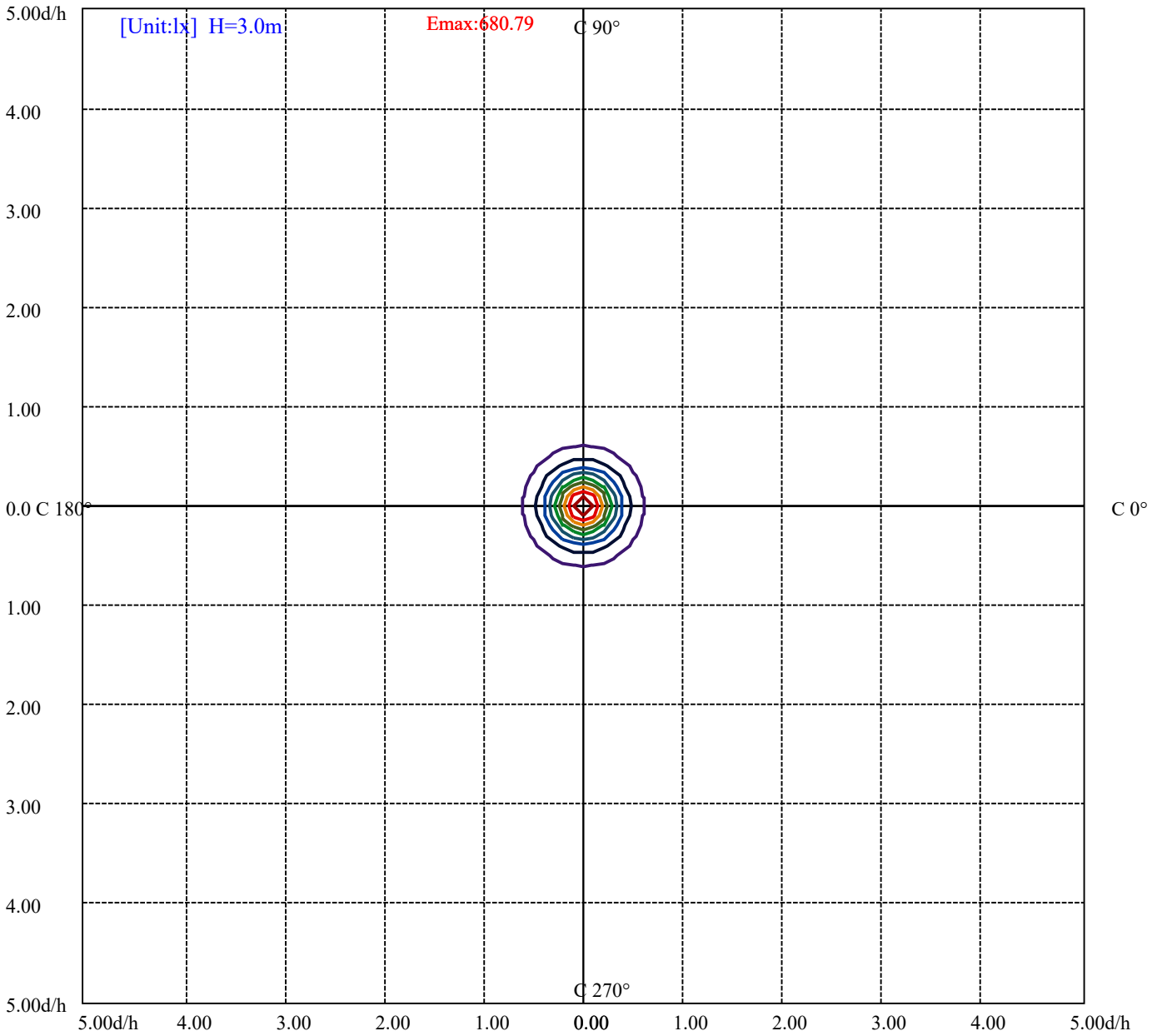
House

[Unit:cd]

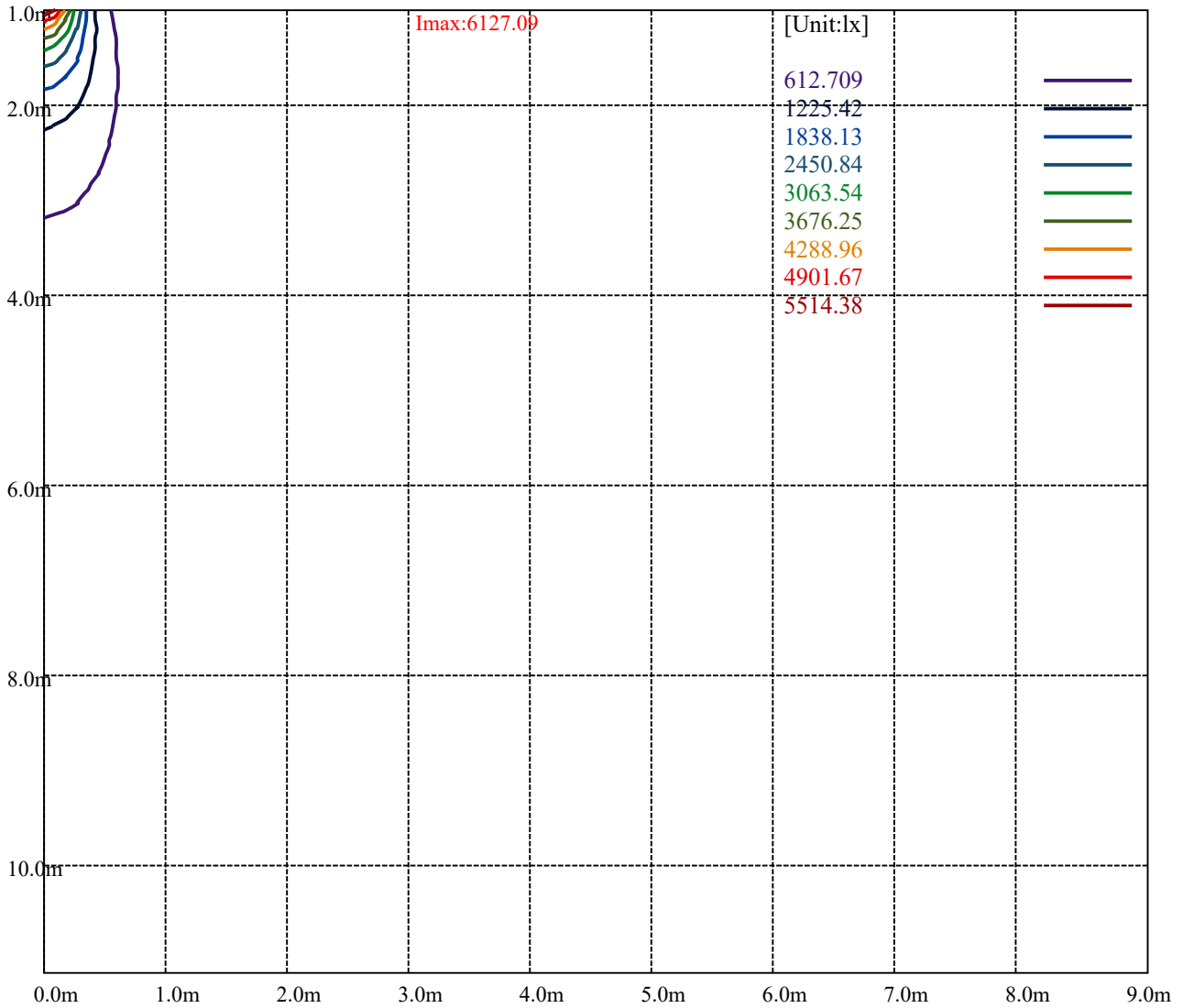
Road

Imax:6127.09

(10%Imax)	612.709	—
(20%Imax)	1225.42	—
(30%Imax)	1838.13	—
(40%Imax)	2450.84	—
(50%Imax)	3063.54	—
(60%Imax)	3676.25	—
(70%Imax)	4288.96	—
(80%Imax)	4901.67	—
(90%Imax)	5514.38	—



(10%E _{max}) 68.07867	—
(20%E _{max}) 136.1578	—
(30%E _{max}) 204.2355	—
(40%E _{max}) 272.3145	—
(50%E _{max}) 340.3933	—
(60%E _{max}) 408.4722	—
(70%E _{max}) 476.55	—
(80%E _{max}) 544.6289	—
(90%E _{max}) 612.7078	—



Luminance Table

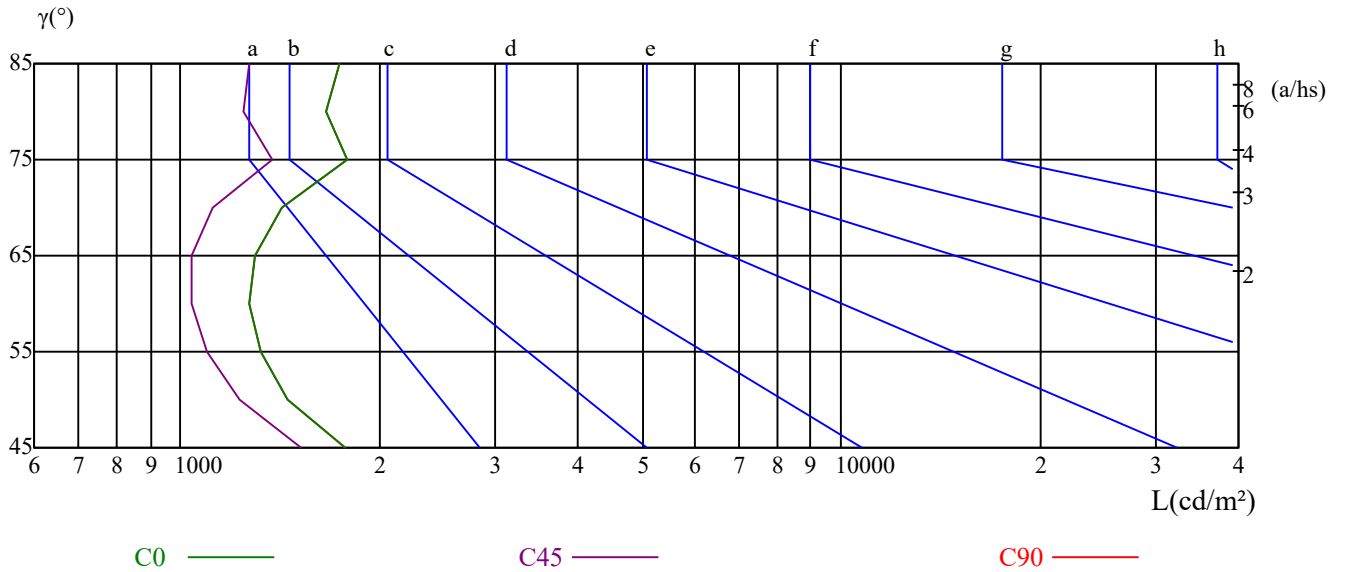
γ	45	50	55	60	65	70	75	80	85
C0	1773	1455	1318	1268	1295	1421	1783	1656	1739
C45	1521	1229	1096	1038	1041	1120	1376	1247	1273
C90	1773	1455	1318	1268	1295	1421	1783	1656	1739

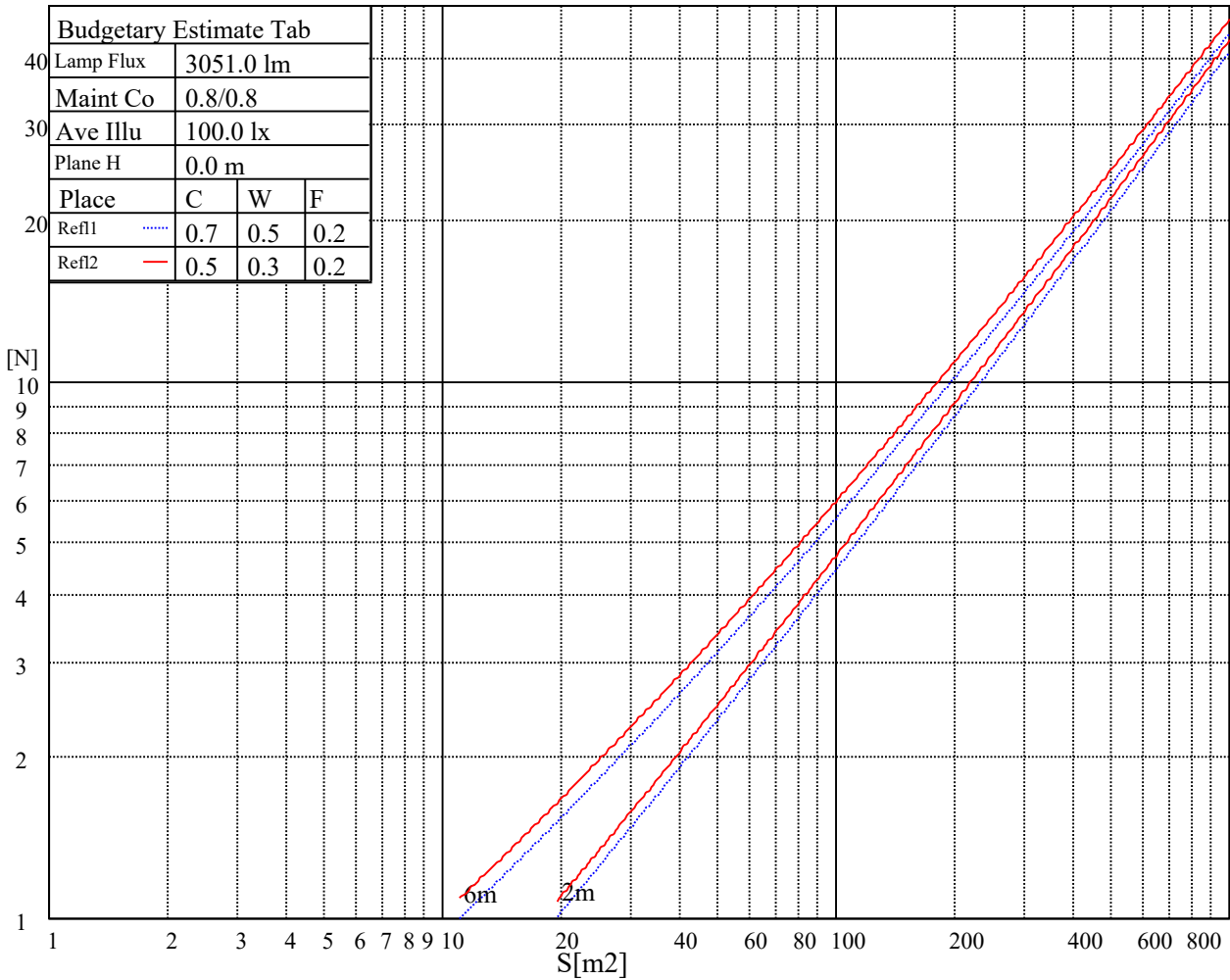
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3156	3156	3156	6241	6241	6241	15058	15058	15058

Glare Table

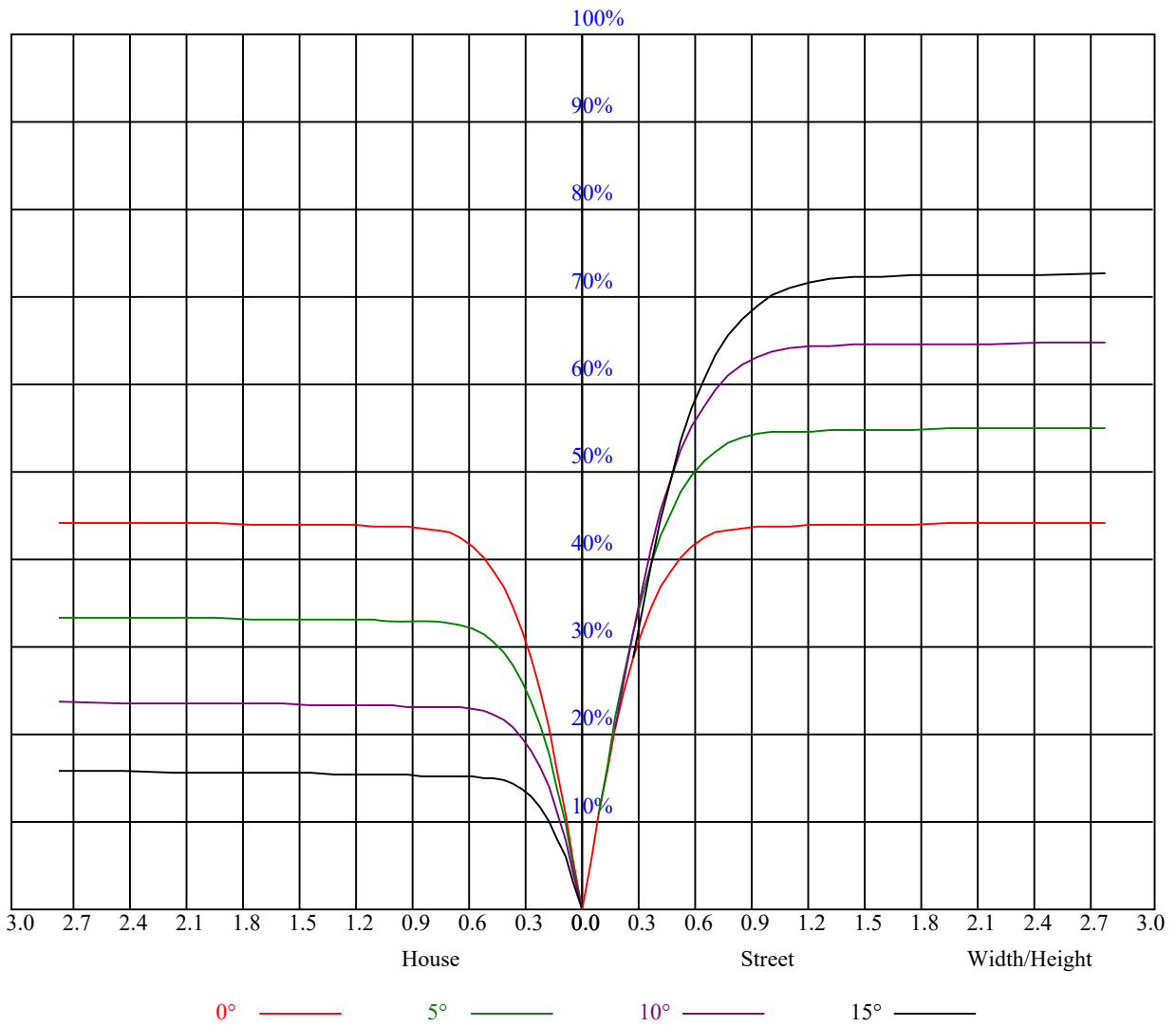
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOF=20 CU															
0	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.89	0.85	0.81	0.87	0.84	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	0.78	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	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	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	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	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	6145.95	5703.29	4688.05	3426.16	2356.41	1534.97	1098.38	578.09	41.51
45.0	6154.20	5534.27	4499.21	3296.78	2182.99	1438.62	1035.61	427.24	35.02
90.0	6083.18	5457.74	4407.26	3165.19	2081.68	1411.65	984.46	369.04	33.86
135.0	6125.02	5753.94	4920.39	3678.32	2527.64	1648.94	1184.26	635.90	286.84
180.0	6145.95	5810.65	4900.57	3600.14	2562.88	1637.38	1083.95	667.94	85.23
225.0	6154.20	5990.69	5137.86	3906.80	2785.85	1765.66	1090.01	775.52	152.84
270.0	6083.18	5959.86	5224.30	4025.17	2828.80	1798.14	1286.67	808.23	309.97
315.0	6125.02	5687.33	4582.89	3461.40	2327.23	1505.79	1083.95	528.49	42.45
360.0	6145.95	5703.29	4688.05	3426.16	2356.41	1534.97	1098.38	578.09	41.51

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	19.43	16.57	14.59	13.60	13.21	13.27	13.87	13.49	13.43
45.0	18.77	16.35	14.65	13.76	13.82	17.12	25.16	14.37	13.49
90.0	18.44	16.02	14.48	13.65	13.71	14.81	25.05	17.67	13.54
135.0	20.81	16.90	15.03	13.76	13.27	13.05	13.05	13.16	13.05
180.0	21.14	17.07	14.92	13.71	13.21	13.05	12.99	12.88	12.88
225.0	23.62	17.40	15.03	13.71	13.10	12.94	12.83	12.83	12.77
270.0	25.33	17.84	15.14	13.82	13.16	12.99	12.94	12.83	12.83
315.0	19.99	16.41	14.53	13.60	13.21	13.21	13.32	13.16	12.99
360.0	19.43	16.57	14.59	13.60	13.21	13.27	13.87	13.49	13.43

C/γ(°)	90.0
0.0	12.72
45.0	12.66
90.0	12.72
135.0	12.77
180.0	12.77
225.0	12.72
270.0	12.77
315.0	12.77
360.0	12.72