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Nata

LumCAT: 2-1536-A
Luminaire: 92.76.323.00
Report No: NT2016120701
Test No:
LampCAT: PHILIPS SLM G6 1208
Lamp flux(lm): 2505.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 34.7000
Current(A): 0.6200
Power (W): 20.1510
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 2297.51
Efficiency(%): 91.72%
Lumens(lm)/Power(W): 114.01
Central intensity(cd): 14155.000
Maximum intensity(cd): 14155.000
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=16.1
 [C90/270]Total=16.1
Field angle(10%Imax): [C0/180]Total=36.5
 [C90/270]Total=36.5
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.01%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.337%

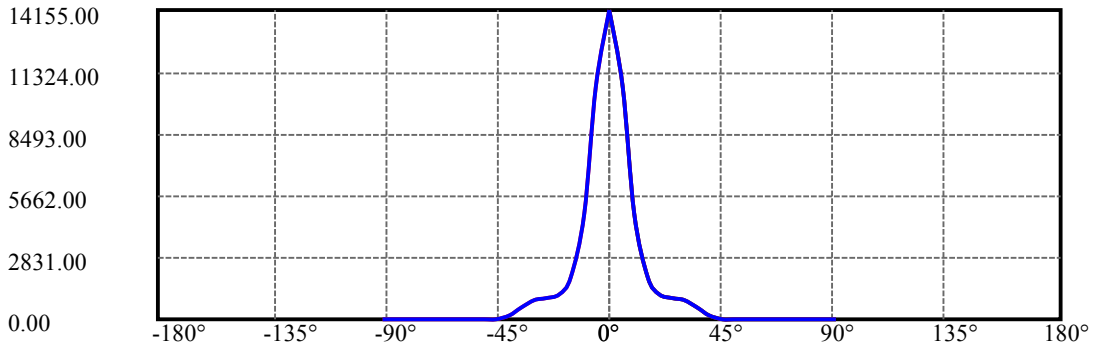
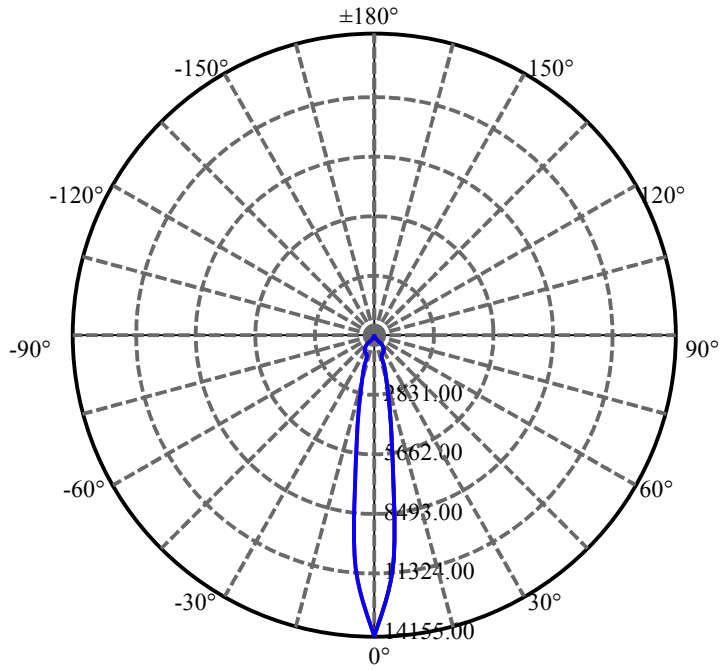
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14155.000	84.650	84.65	3.379%	3.684%
5.0	10636.621	508.147	592.796	20.285%	25.802%
10.0	4810.002	457.831	1050.627	18.277%	45.729%
15.0	1972.189	279.791	1330.418	11.169%	57.907%
20.0	1118.003	209.596	1540.015	8.367%	67.030%
25.0	954.767	221.175	1761.19	8.829%	76.657%
30.0	848.288	232.489	1993.679	9.281%	86.776%
35.0	568.141	178.623	2172.302	7.131%	94.550%
40.0	207.666	73.168	2245.47	2.921%	97.735%
45.0	21.830	8.461	2253.931	.338%	98.103%
50.0	12.044	5.057	2258.988	.202%	98.323%
55.0	11.101	4.984	2263.972	.199%	98.540%
60.0	10.585	5.025	2268.997	.201%	98.759%
65.0	10.316	5.125	2274.122	.205%	98.982%
70.0	9.958	5.129	2279.251	.205%	99.205%
75.0	9.800	5.189	2284.44	.207%	99.431%
80.0	9.697	5.234	2289.674	.209%	99.659%
85.0	9.614	5.250	2294.924	.210%	99.888%
90.0	9.428	2.584	2297.508	.103%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1993.68	79.59%	86.78%
0-40	2245.47	89.64%	97.74%
0-60	2269.00	90.58%	98.76%
0-90	2294.92	91.61%	99.89%
0-120	2294.92	91.61%	99.89%
0-180	2297.51	91.72%	100.00%
60-90	30.95	1.24%	1.35%
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%
0-26.65	1838.01	73.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	1050.63
10-20	489.39
20-30	453.66
30-40	251.79
40-50	13.52
50-60	10.01
60-70	10.25
70-80	10.42
80-90	5.25
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



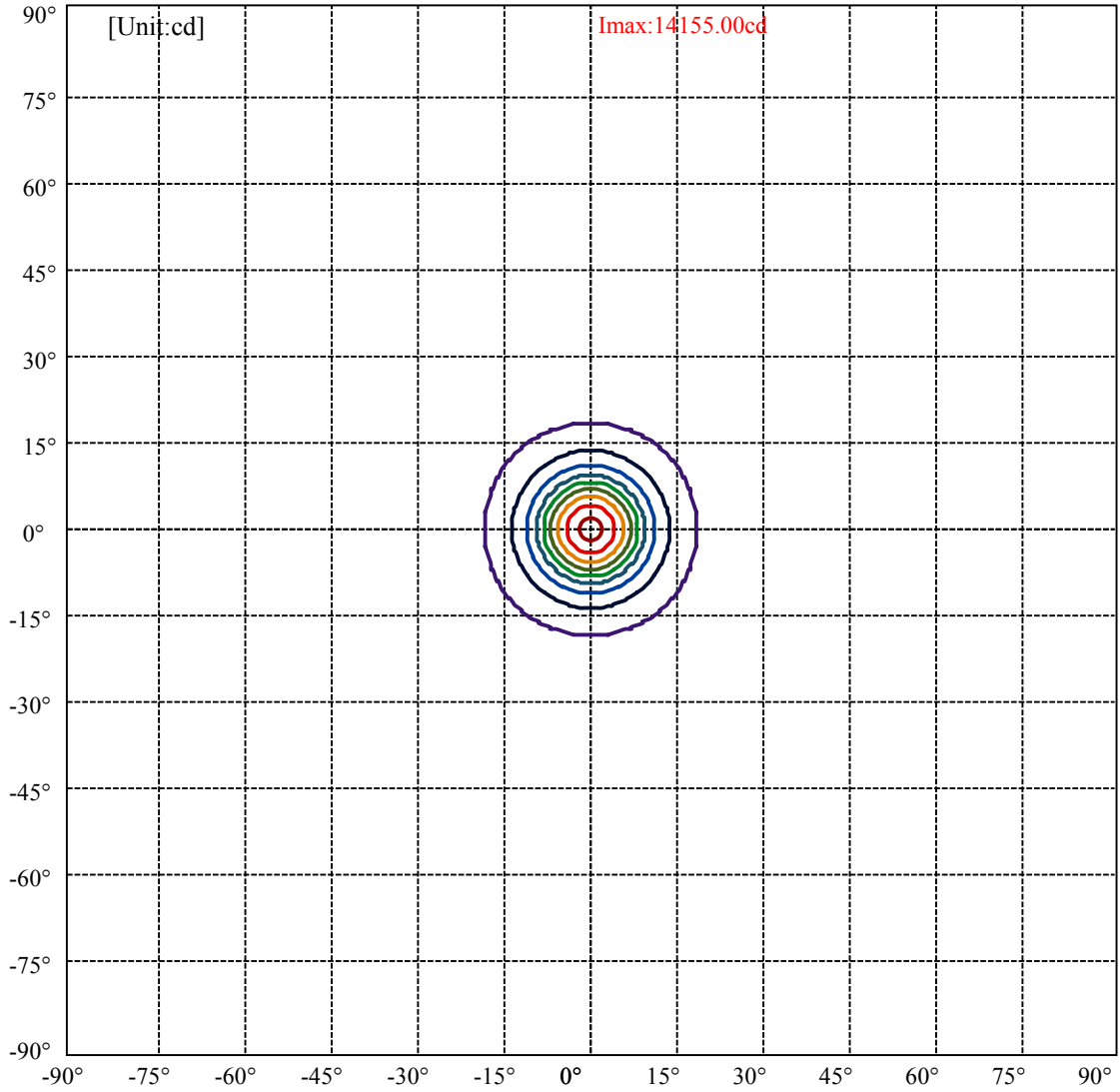
C0(Max): —————

C0/C180: —————

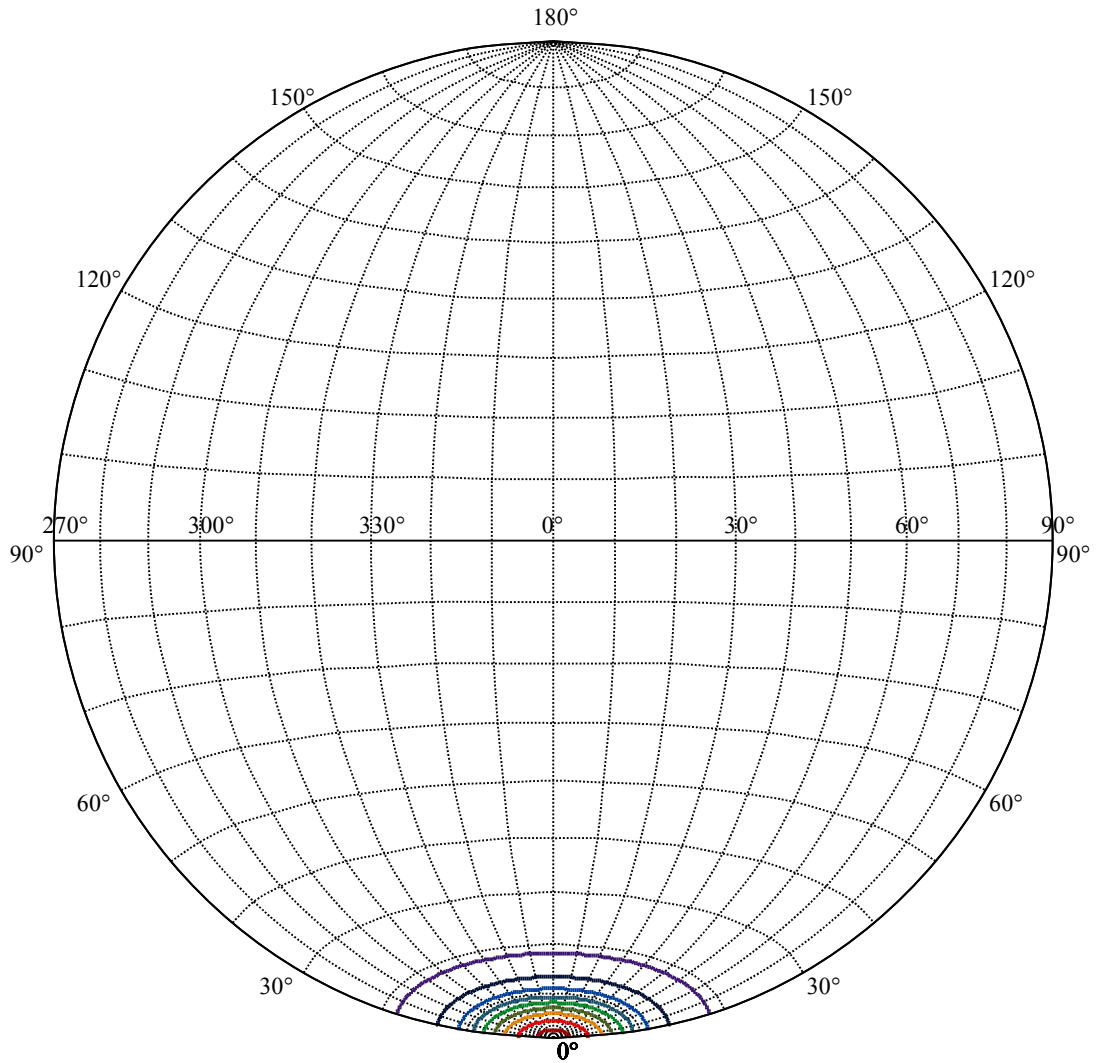
C90/C270: —————

Field angle(10%Imax):C0/180Left:18.3 Right:18.3
:C90/270Left:18.3 Right:18.3

Beam Angle(50%Imax):C0/180Left:8.1 Right:8.1
:C90/270Left:8.1 Right:8.1



(10%Imax) 1415.5	—
(20%Imax) 2831	—
(30%Imax) 4246.5	—
(40%Imax) 5662	—
(50%Imax) 7077.5	—
(60%Imax) 8493	—
(70%Imax) 9908.5	—
(80%Imax) 11324	—
(90%Imax) 12739.5	—



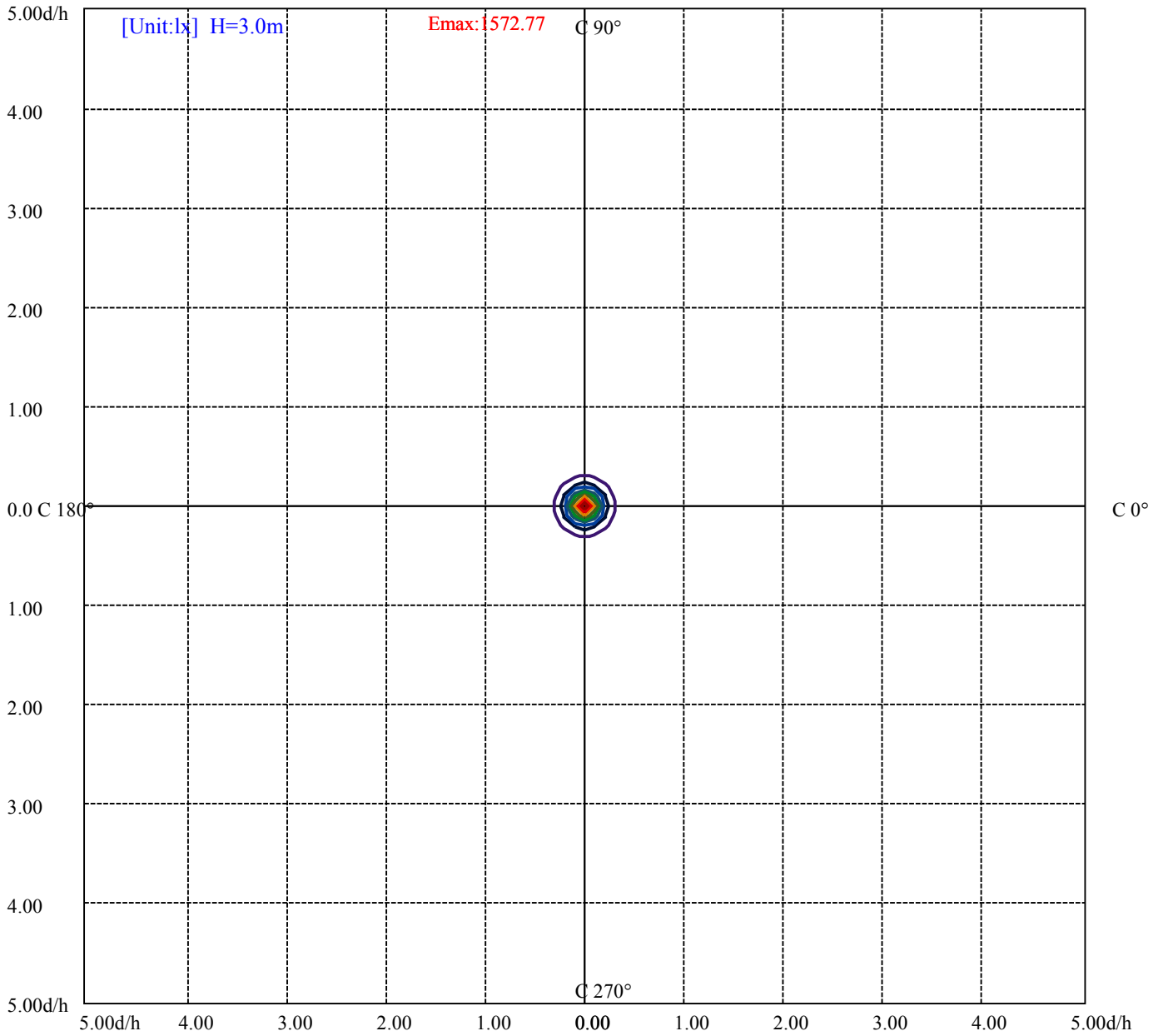
House

[Unit:cd]

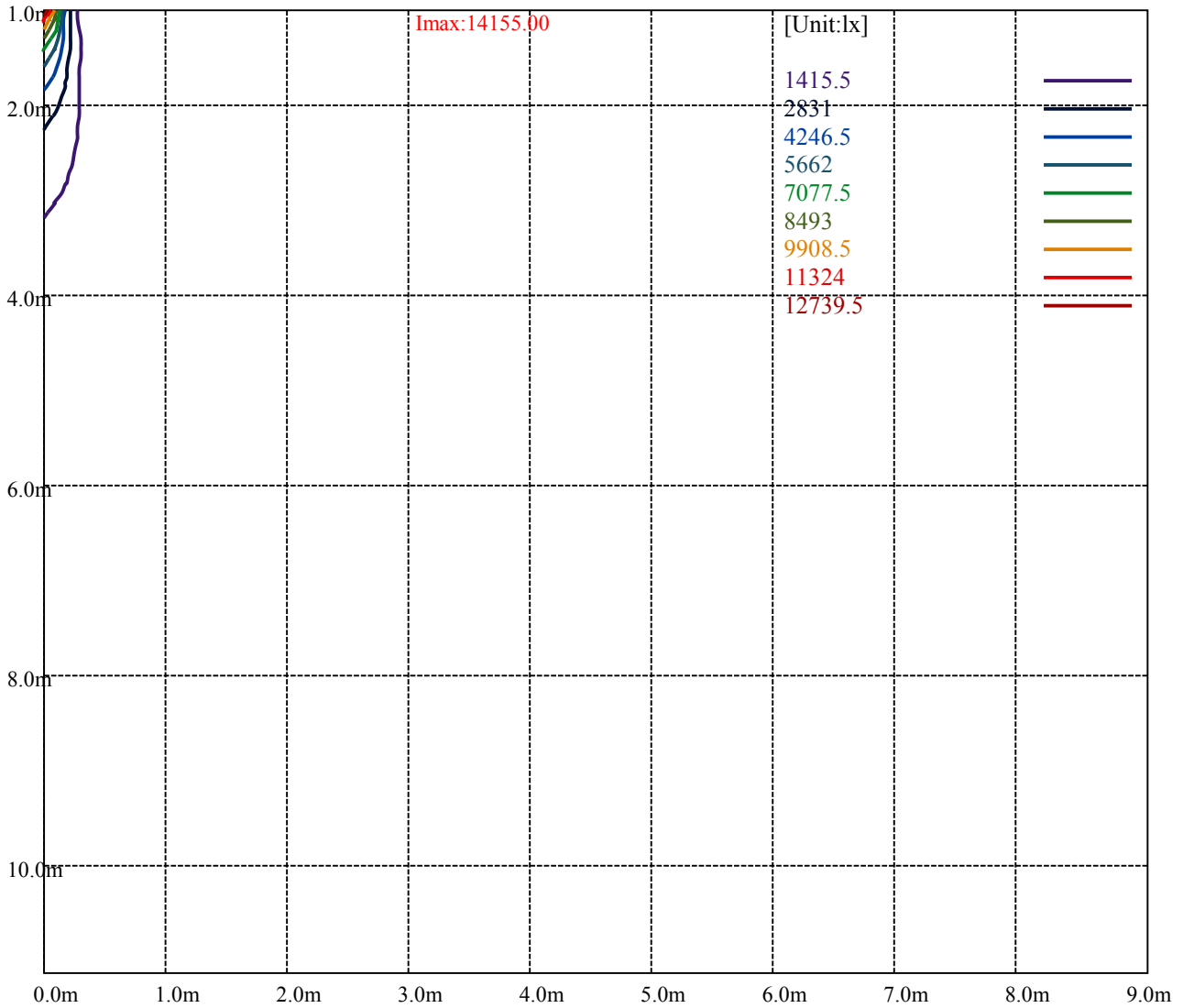
Road

Imax:14155.00

(10%Imax) 1415.5	—
(20%Imax) 2831	—
(30%Imax) 4246.5	—
(40%Imax) 5662	—
(50%Imax) 7077.5	—
(60%Imax) 8493	—
(70%Imax) 9908.5	—
(80%Imax) 11324	—
(90%Imax) 12739.5	—



(10%Emax) 157.2767	—
(20%Emax) 314.5533	—
(30%Emax) 471.83	—
(40%Emax) 629.1067	—
(50%Emax) 786.3834	—
(60%Emax) 943.66	—
(70%Emax) 1100.937	—
(80%Emax) 1258.211	—
(90%Emax) 1415.489	—



Luminance Table

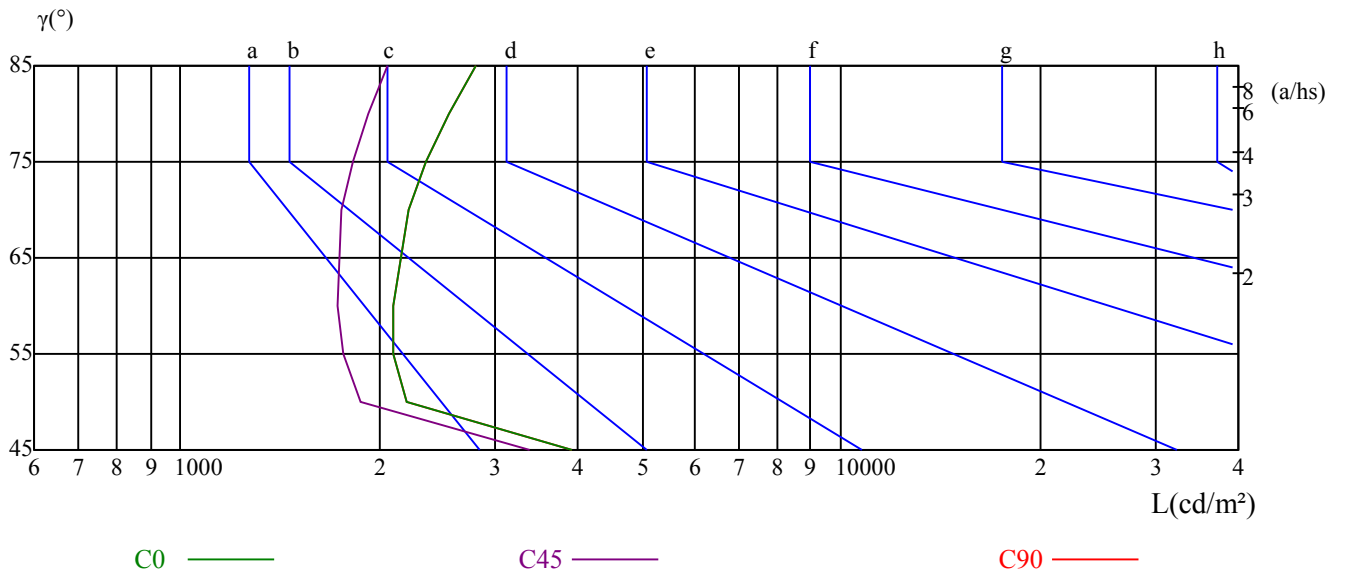
γ	45	50	55	60	65	70	75	80	85
C0	3903	2208	2104	2093	2150	2211	2347	2542	2807
C45	3371	1879	1763	1725	1740	1754	1822	1923	2060
C90	3903	2208	2104	2093	2150	2211	2347	2542	2807

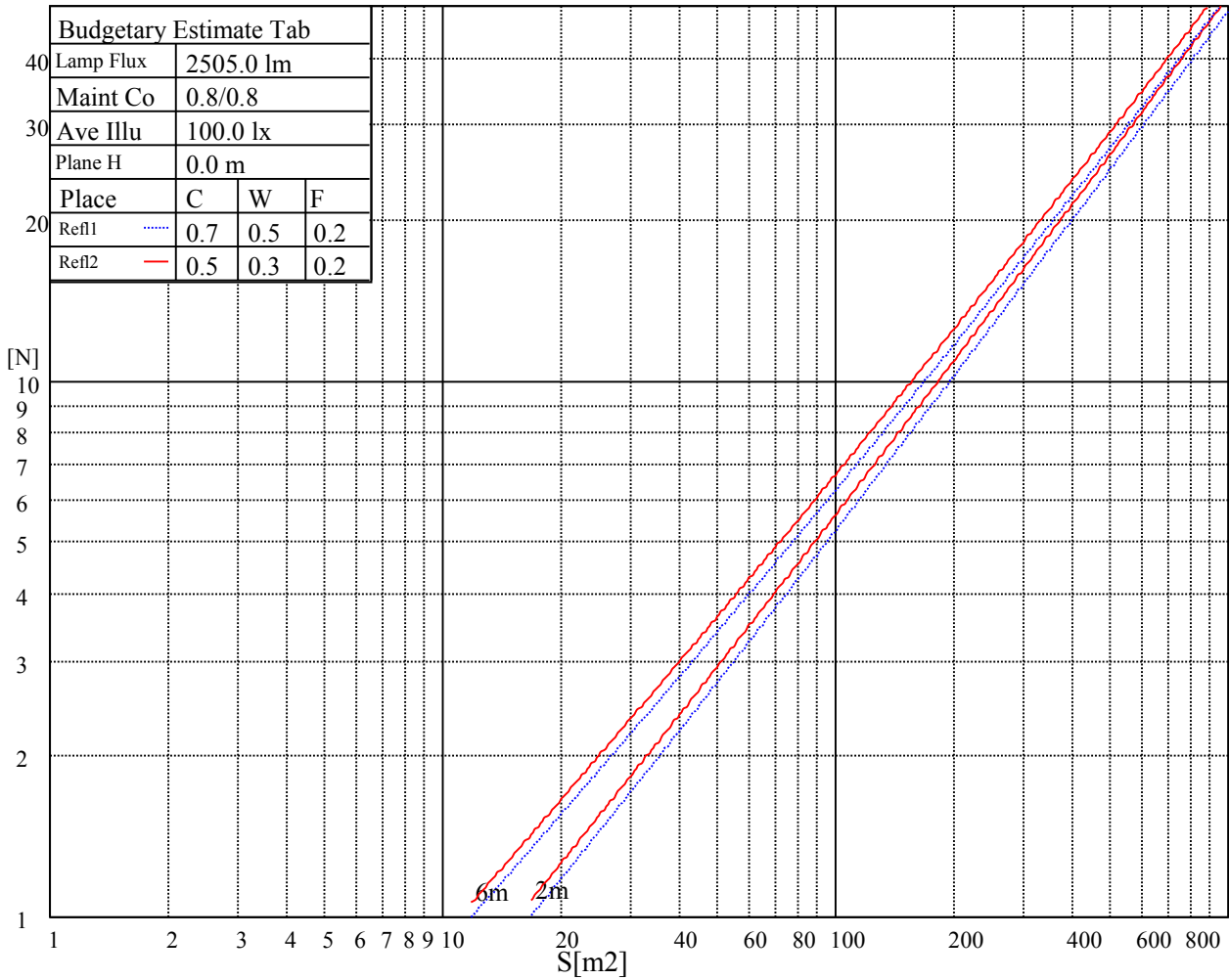
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4982	4982	4982	7727	7727	7727	22512	22512	22512

Glare Table

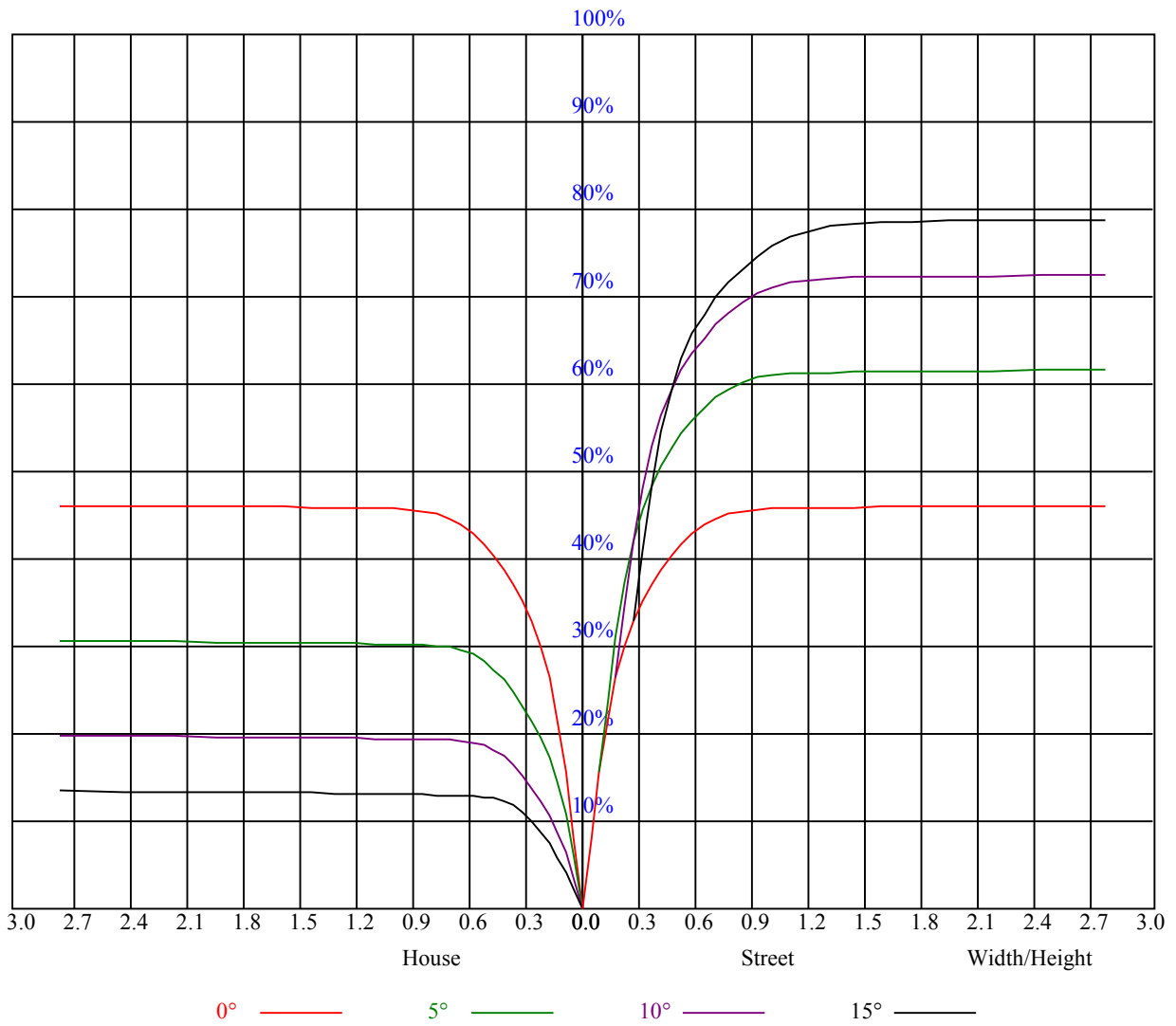
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.13	1.13	1.13	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.02	0.99	0.96	1.00	0.97	0.95	0.96	0.94	0.92	0.93	0.91	0.89	0.89	0.88	0.86	0.85
2	0.97	0.93	0.89	0.95	0.92	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.81
3	0.92	0.88	0.84	0.91	0.87	0.83	0.89	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.78
4	0.88	0.84	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.75
5	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.77	0.73	0.81	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.70
7	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
8	0.76	0.71	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.64
10	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63



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	14160.51	10312.06	3931.03	1811.91	1082.96	910.08	816.49	534.60	106.86
45.0	14237.59	10901.17	4988.11	1971.57	1153.43	957.43	850.07	586.35	306.11
90.0	14143.99	10286.74	4459.57	1794.84	1090.17	957.60	856.90	573.03	181.14
135.0	14077.92	12018.81	6226.88	2868.44	1259.14	1006.98	894.12	688.21	301.16
180.0	14160.51	10924.84	5522.16	2047.00	1085.33	975.71	862.29	631.33	217.42
225.0	14237.59	10339.04	4586.20	1795.94	1086.76	955.89	846.00	550.56	160.98
270.0	14143.99	11209.48	5230.36	1930.28	1145.17	956.88	847.87	559.37	298.96
315.0	14077.92	9100.82	3535.72	1557.55	1041.06	917.57	812.58	421.68	88.70
360.0	14160.51	10312.06	3931.03	1811.91	1082.96	910.08	816.49	534.60	106.86
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.88	11.56	10.79	10.35	10.19	10.02	10.08	10.08	9.86
45.0	21.36	11.56	10.79	10.30	10.02	9.86	9.74	9.69	9.58
90.0	21.58	11.51	10.74	10.30	10.02	9.86	9.80	9.63	9.63
135.0	28.08	12.83	11.29	10.63	10.24	10.02	9.74	9.63	9.58
180.0	25.00	12.44	11.18	10.68	10.46	9.86	9.74	9.63	9.58
225.0	21.42	12.06	11.18	10.68	10.41	10.08	9.74	9.58	9.52
270.0	20.54	12.50	11.67	11.01	10.46	10.08	9.86	9.69	9.63
315.0	17.78	11.89	11.18	10.74	10.74	9.91	9.69	9.63	9.52
360.0	18.88	11.56	10.79	10.35	10.19	10.02	10.08	10.08	9.86
C/ γ (°)	90.0								
0.0	9.41								
45.0	9.47								
90.0	9.47								
135.0	9.47								
180.0	9.41								
225.0	9.36								
270.0	9.41								
315.0	9.41								
360.0	9.41								