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Nata

LumCAT: 1-0915-S	
Luminaire: 92.70.188.00	
Report No: 220526-B004	Voltage(V): 35.5900
Test No: 220526-C004	Current(A): 0.3810
LampCAT: PHILIPS CentaFlux SLM 1204	Power (W): 13.5590
Lamp flux(lm): 1408.6	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): 1094.81
Efficiency(%): 77.72%
Lumens(lm)/Power(W): 80.74
Central intensity(cd): 1503.383
Maximum intensity(cd): 1503.383
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=53.1
 [C90/270]Total=53.1
Field angle(10%Imax): [C0/180]Total=72.7
 [C90/270]Total=72.7
Maximum s/h(1/2): C0_180=0.86 C90_270=0.86
Maximum s/h(1/4): C0_180=0.79 C90_270=0.79
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.873%

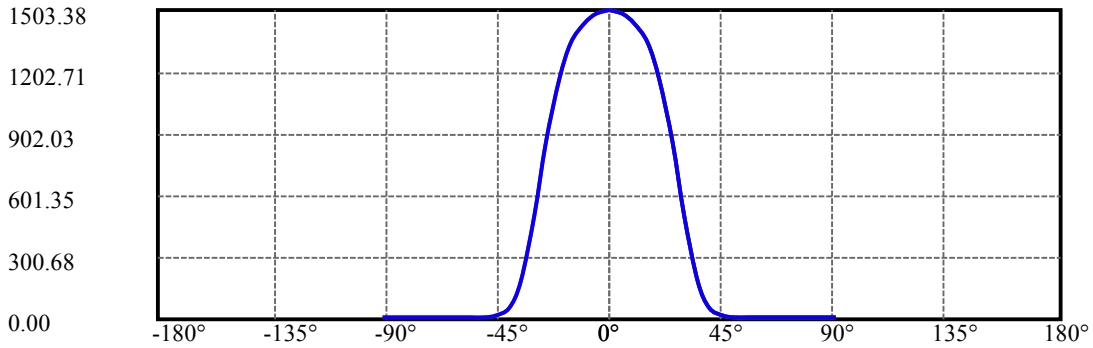
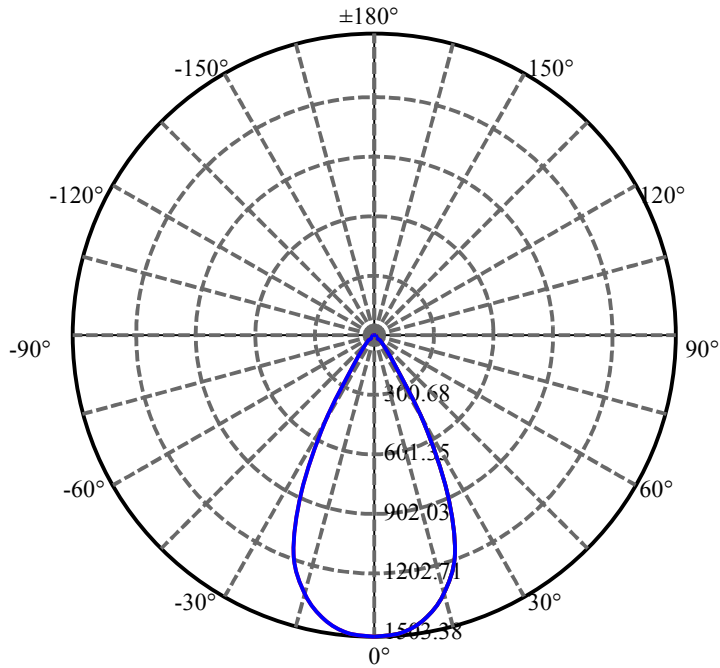
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1503.383	0.000	0	.000%	.000%
5.0	1487.250	35.752	35.752	2.538%	3.266%
10.0	1439.298	104.692	140.444	7.432%	12.828%
15.0	1342.304	165.003	305.447	11.714%	27.899%
20.0	1162.963	206.469	511.916	14.658%	46.758%
25.0	863.048	212.491	724.407	15.085%	66.167%
30.0	507.086	173.392	897.799	12.309%	82.005%
35.0	186.115	102.079	999.878	7.247%	91.329%
40.0	54.173	40.090	1039.968	2.846%	94.991%
45.0	22.781	14.249	1054.217	1.012%	96.292%
50.0	13.661	7.364	1061.58	.523%	96.965%
55.0	10.658	5.288	1066.868	.375%	97.448%
60.0	9.478	4.655	1071.523	.330%	97.873%
65.0	8.731	4.427	1075.949	.314%	98.277%
70.0	8.156	4.276	1080.225	.304%	98.668%
75.0	7.626	4.125	1084.351	.293%	99.045%
80.0	7.096	3.939	1088.29	.280%	99.404%
85.0	6.028	3.566	1091.856	.253%	99.730%
90.0	4.765	2.955	1094.811	.210%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	897.80	63.74%	82.00%
0-40	1039.97	73.83%	94.99%
0-60	1071.52	76.07%	97.87%
0-90	1091.86	77.51%	99.73%
0-120	1091.86	77.51%	99.73%
0-180	1094.81	77.72%	100.00%
60-90	24.99	1.77%	2.28%
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%
0-29.37	875.85	62.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	140.44
10-20	371.47
20-30	385.88
30-40	142.17
40-50	21.61
50-60	9.94
60-70	8.70
70-80	8.06
80-90	3.57
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: —————

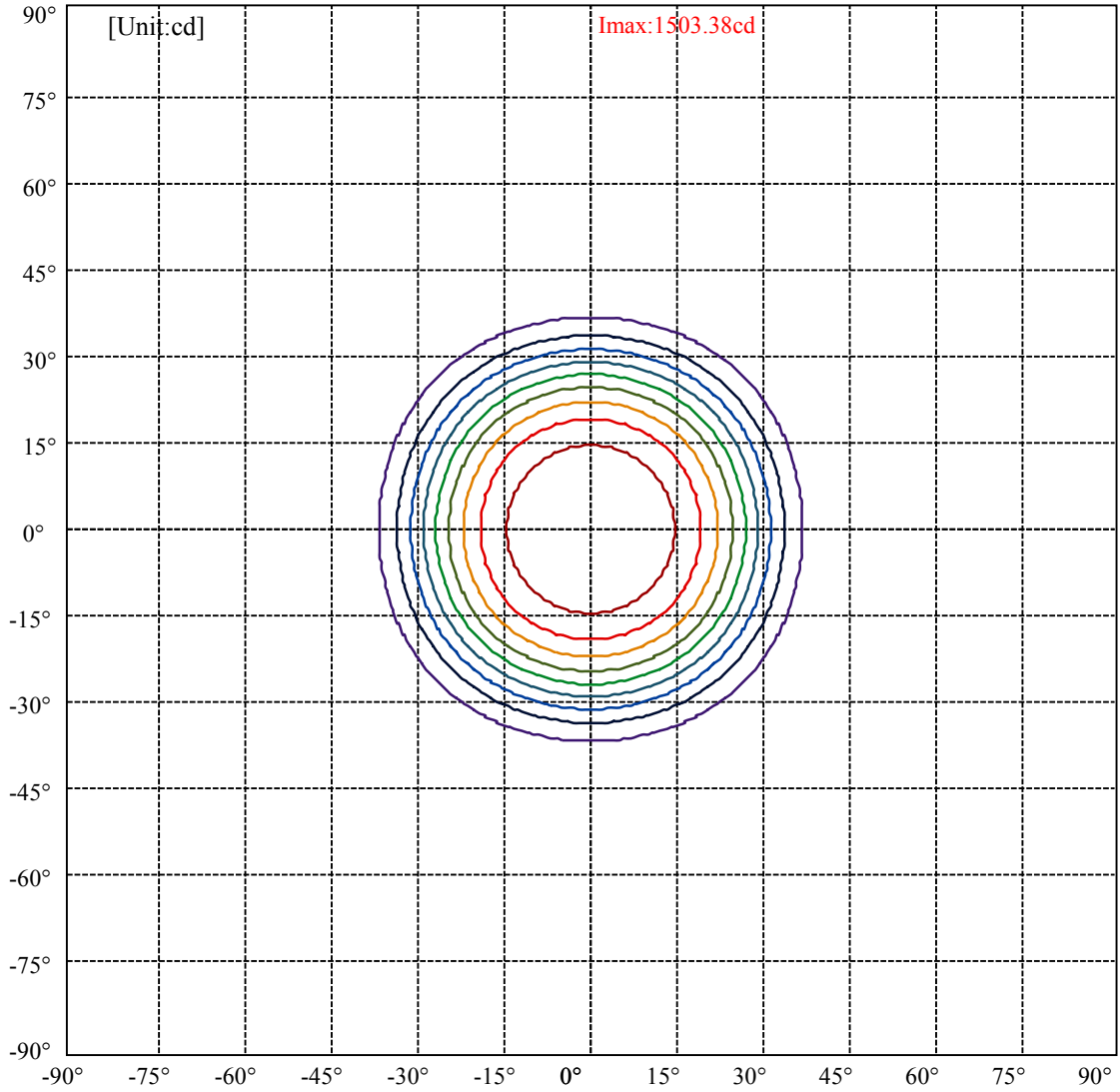
C90/C270: —————

Field angle(10%Imax):C0/180Left:36.4 Right:36.4

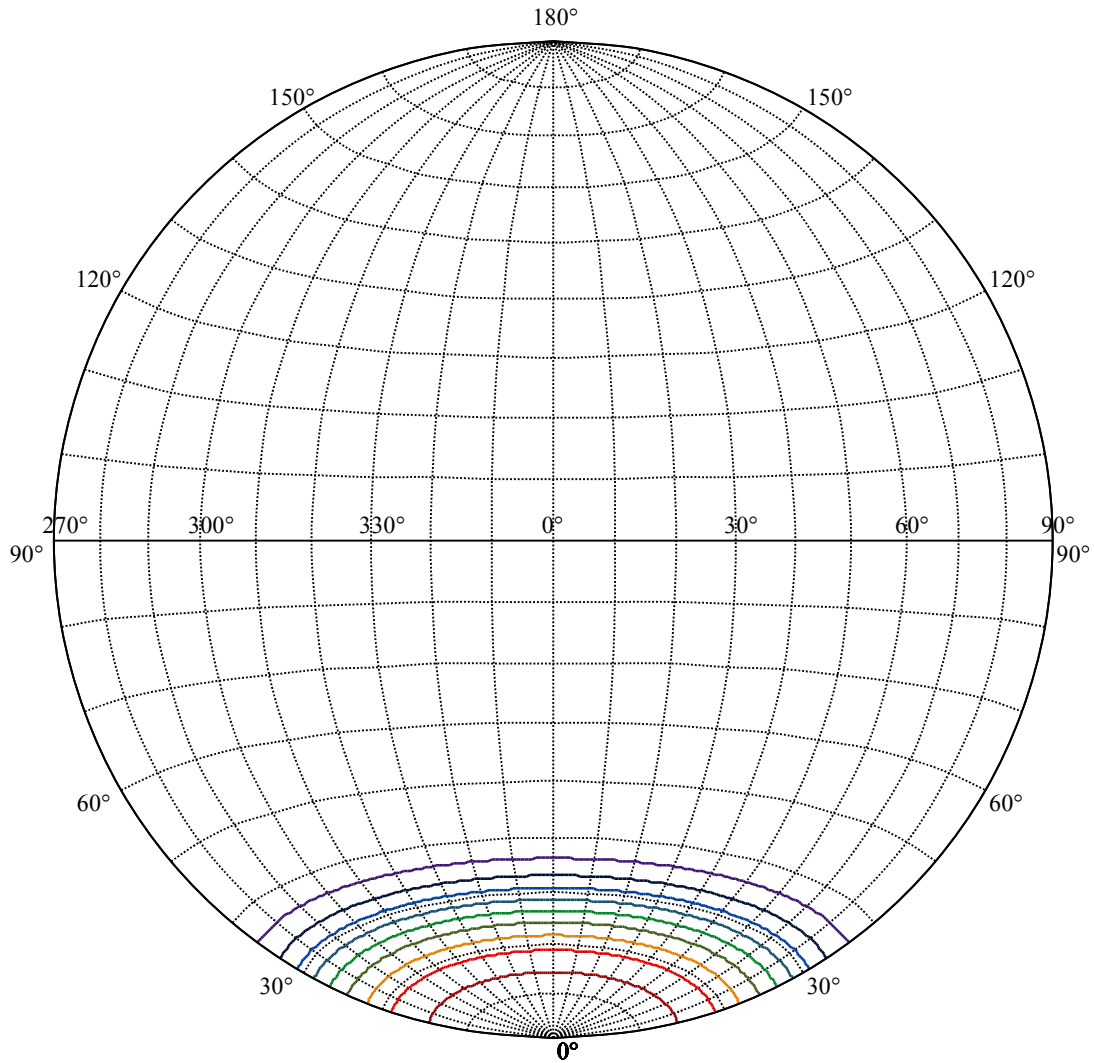
:C90/270Left:36.4 Right:36.4

Beam Angle(50%Imax):C0/180Left:26.6 Right:26.6

:C90/270Left:26.6 Right:26.6



(10%Imax) 150.338	—
(20%Imax) 300.677	—
(30%Imax) 451.015	—
(40%Imax) 601.353	—
(50%Imax) 751.691	—
(60%Imax) 902.03	—
(70%Imax) 1052.37	—
(80%Imax) 1202.71	—
(90%Imax) 1353.04	—



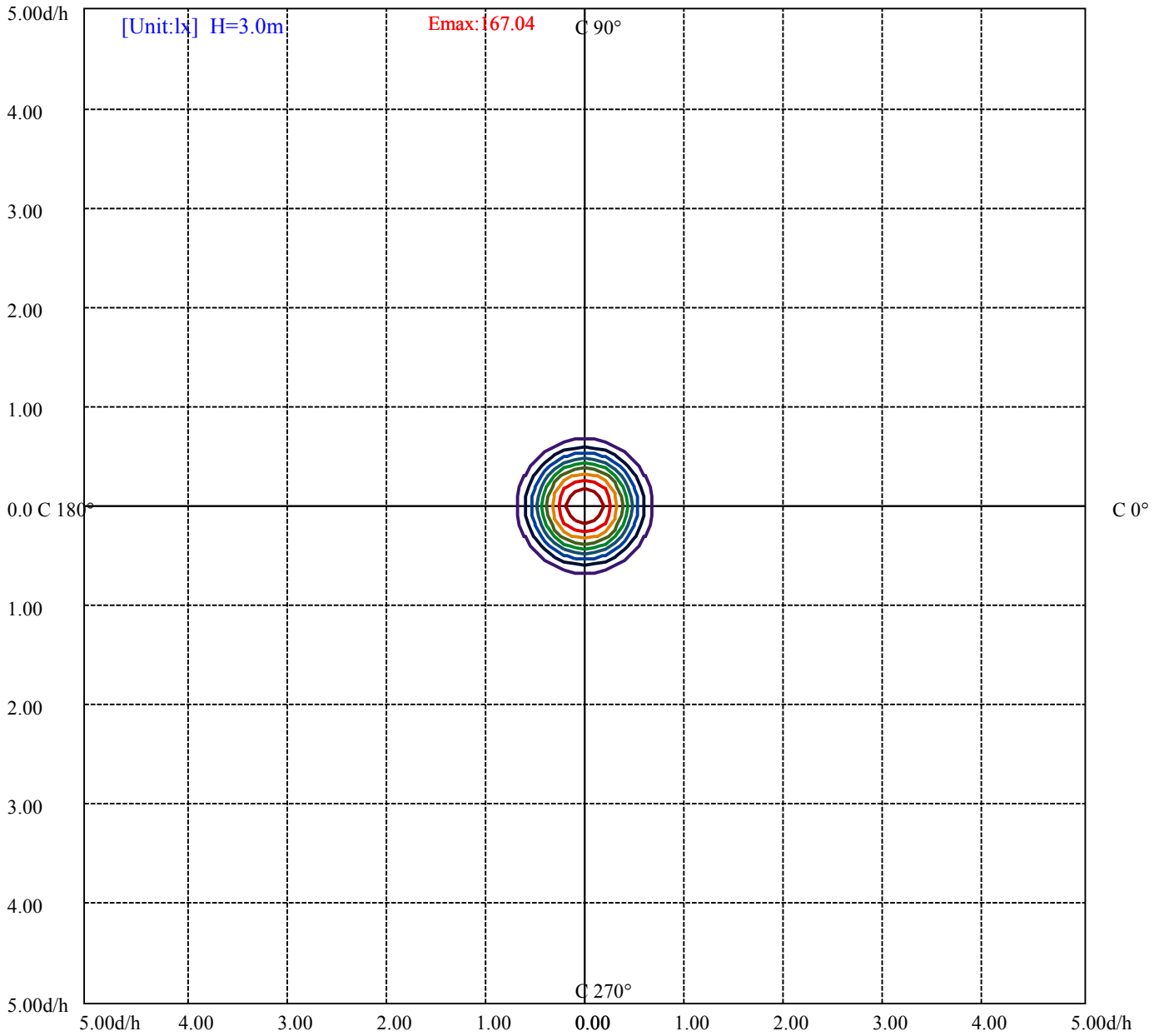
House

[Unit:cd]

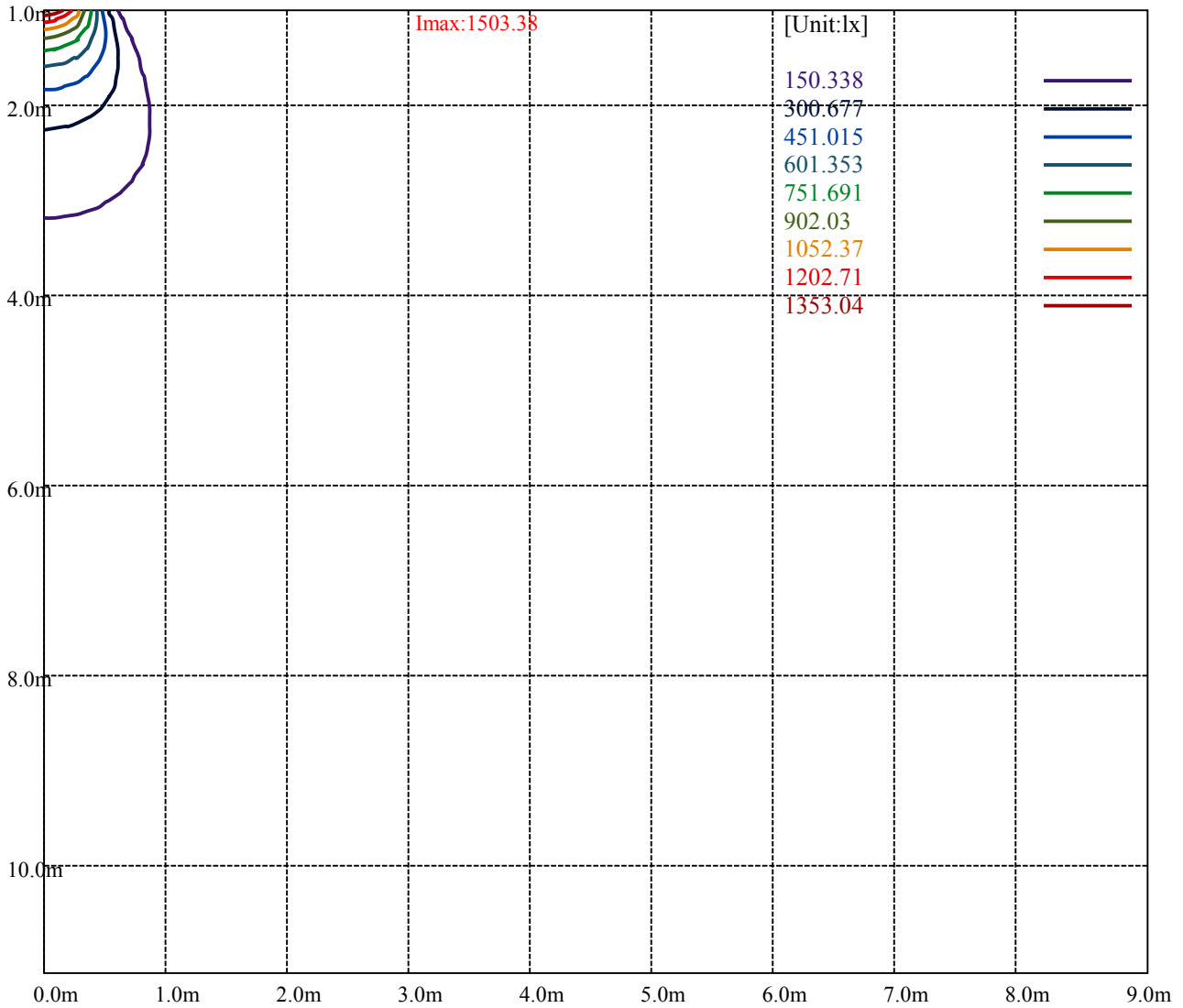
Road

Imax:1503.38

(10%Imax) 150.338	—
(20%Imax) 300.677	—
(30%Imax) 451.015	—
(40%Imax) 601.353	—
(50%Imax) 751.691	—
(60%Imax) 902.03	—
(70%Imax) 1052.37	—
(80%Imax) 1202.71	—
(90%Imax) 1353.04	—



(10%E _{max}) 16.70422	—
(20%E _{max}) 33.40844	—
(30%E _{max}) 50.11278	—
(40%E _{max}) 66.817	—
(50%E _{max}) 83.52122	—
(60%E _{max}) 100.2254	—
(70%E _{max}) 116.93	—
(80%E _{max}) 133.6344	—
(90%E _{max}) 150.3378	—



Luminance Table

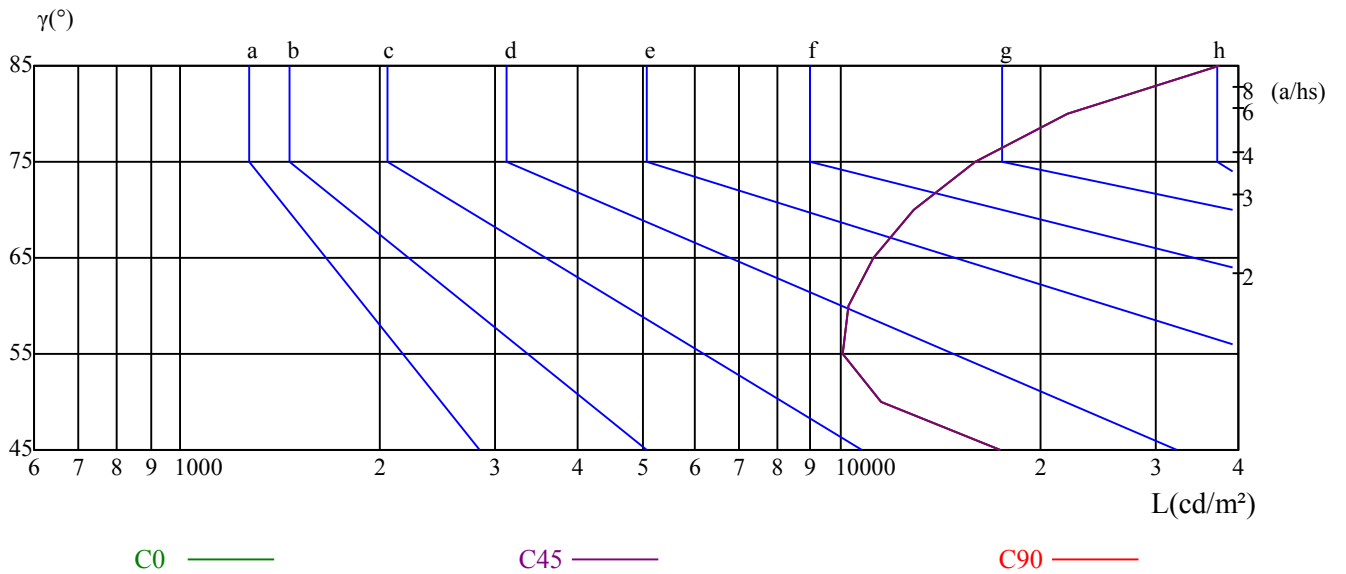
γ	45	50	55	60	65	70	75	80	85
C0	17424	11494	10050	10252	11174	12897	15935	22100	37403
C45	17424	11494	10050	10252	11174	12897	15935	22100	37403
C90	17424	11494	10050	10252	11174	12897	15935	22100	37403

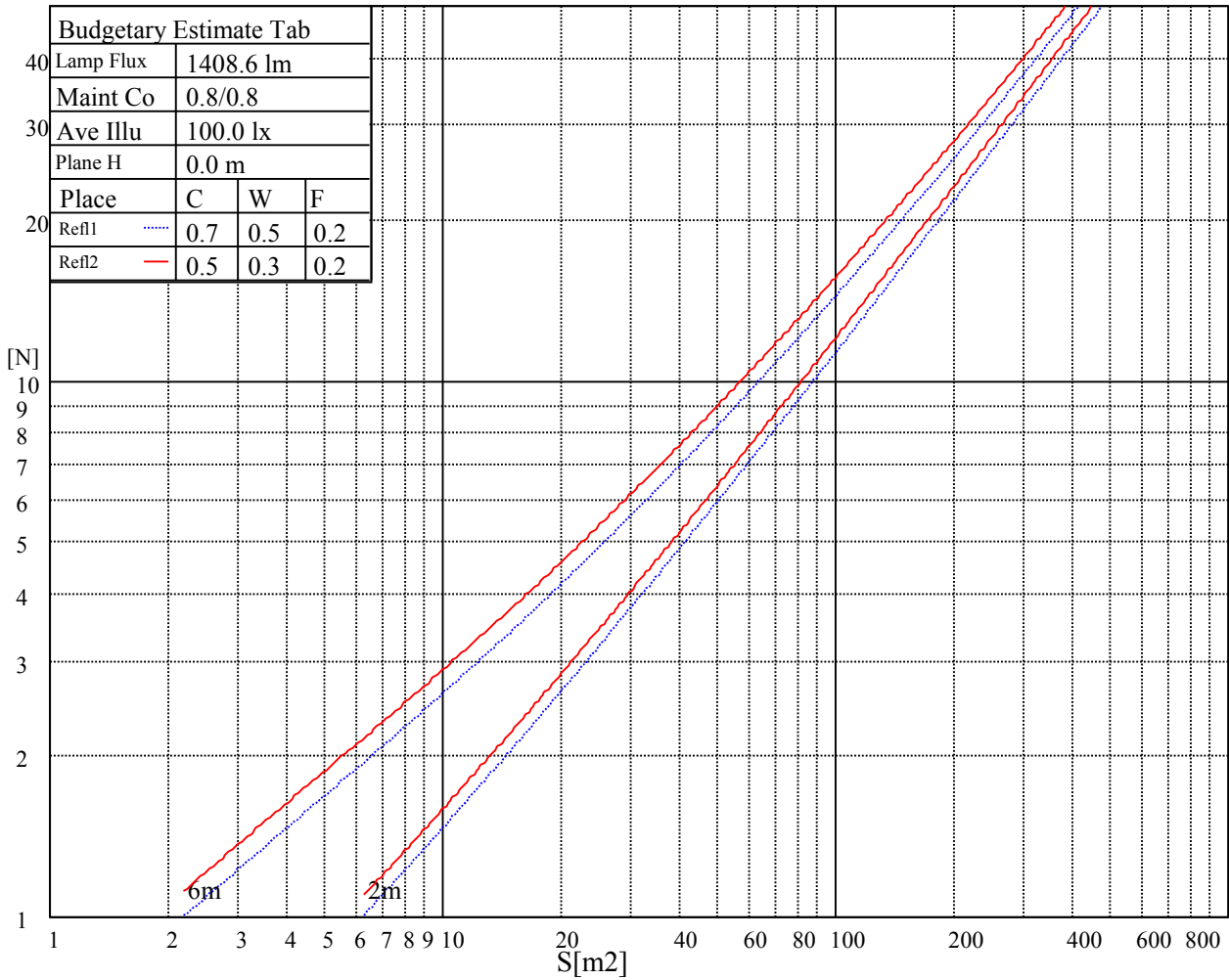
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11174	11174	11174	15935	15935	15935	37403	37403	37403

Glare Table

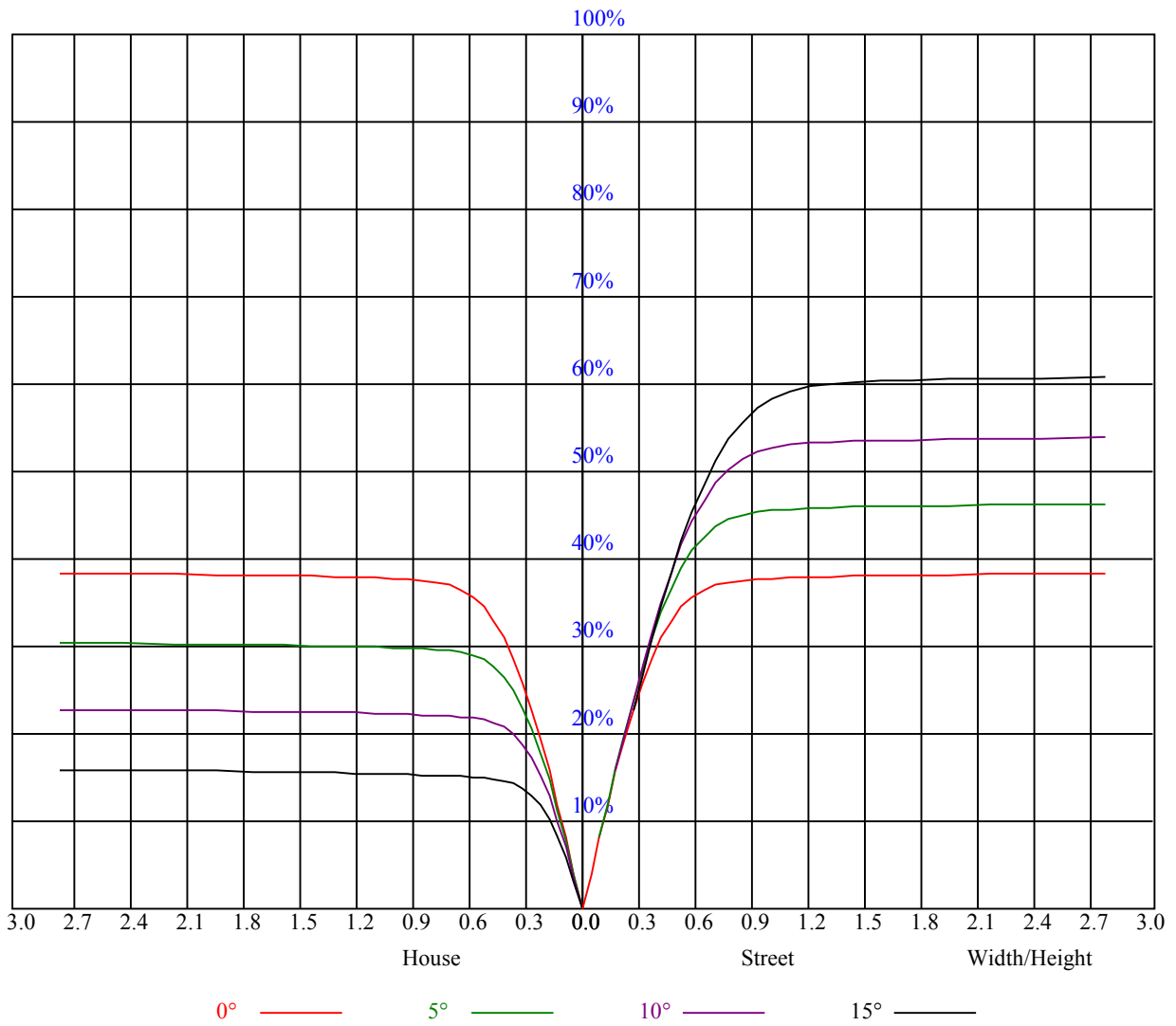
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.93	0.93	0.93	0.90	0.90	0.90	0.86	0.86	0.86	0.83	0.83	0.83	0.79	0.79	0.79	0.78
1	0.86	0.84	0.82	0.84	0.83	0.81	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73
2	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.74	0.72	0.74	0.72	0.71	0.72	0.71	0.69	0.68
3	0.75	0.72	0.69	0.74	0.71	0.68	0.72	0.70	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.64
4	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.64	0.62	0.66	0.63	0.61	0.60
5	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.62	0.60	0.58	0.57
6	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
7	0.60	0.56	0.53	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51
8	0.57	0.53	0.50	0.57	0.52	0.50	0.56	0.52	0.49	0.55	0.52	0.49	0.54	0.51	0.49	0.48
9	0.54	0.50	0.47	0.54	0.50	0.47	0.53	0.49	0.47	0.52	0.49	0.47	0.52	0.49	0.46	0.45
10	0.52	0.47	0.45	0.51	0.47	0.45	0.51	0.47	0.44	0.50	0.47	0.44	0.50	0.46	0.44	0.43



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	1497.41	1496.21	1466.34	1401.80	1266.76	985.92	630.99	316.09	71.17
45.0	1509.96	1485.46	1423.31	1320.54	1137.70	822.80	444.56	138.99	43.38
90.0	1503.98	1474.70	1393.44	1192.31	1032.59	708.79	340.05	97.46	36.03
135.0	1502.19	1478.88	1433.47	1352.81	1165.18	832.96	464.28	124.47	40.57
180.0	1497.41	1478.88	1443.03	1348.03	1115.11	776.19	406.86	108.33	38.12
225.0	1509.96	1498.60	1453.19	1380.89	1190.46	934.06	593.23	209.14	64.95
270.0	1503.98	1498.60	1453.79	1373.72	1215.37	916.61	610.67	302.35	77.08
315.0	1502.19	1486.65	1447.81	1368.34	1180.54	927.07	566.04	192.11	62.08
360.0	1497.41	1496.21	1466.34	1401.80	1266.76	985.92	630.99	316.09	71.17
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	28.86	16.31	12.01	10.10	9.08	8.37	7.83	7.29	6.63
45.0	20.26	12.79	10.76	9.86	9.20	8.66	8.07	7.47	5.14
90.0	17.27	11.77	10.10	9.20	8.54	8.13	7.65	6.93	4.96
135.0	19.42	12.13	9.92	9.14	8.48	7.95	7.35	6.87	6.15
180.0	18.88	12.25	10.16	9.20	8.43	7.83	7.29	6.75	5.44
225.0	23.48	13.98	10.64	9.56	9.02	8.43	7.89	7.41	6.87
270.0	29.04	15.66	10.99	9.38	8.54	7.95	7.53	7.17	6.63
315.0	25.04	14.40	10.70	9.38	8.54	7.95	7.41	6.87	6.39
360.0	28.86	16.31	12.01	10.10	9.08	8.37	7.83	7.29	6.63
C/γ(°)	90.0								
0.0	4.90								
45.0	4.66								
90.0	4.66								
135.0	4.66								
180.0	4.66								
225.0	4.90								
270.0	4.84								
315.0	4.84								
360.0	4.90								