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NATA

LumCAT: 3-1703-N
Luminaire: 92.70.045.00+92.70.061.00
Report No: NATA0100
Test No: GC2018110814
LampCAT: PHILIPS 1205 G7
Lamp flux(lm): 2969.0
Number of Lamps: 1
Length(mm): 86
Phm Type: C

Voltage(V): 35.8000
Current(A): 0.6000
Power (W): 21.5600
PF: 0.0000
Ballast type: DC
Width(mm): 86
Height(mm): 0

Photometric Results

Lumens(lm): 2338.46
Efficiency(%): 78.76%
Lumens(lm)/Power(W): 109.82
Central intensity(cd): 5262.328
Maximum intensity(cd): 5262.328
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=64.4
 [C90/270]Total=64.4
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 79.75%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.573%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/11/8
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

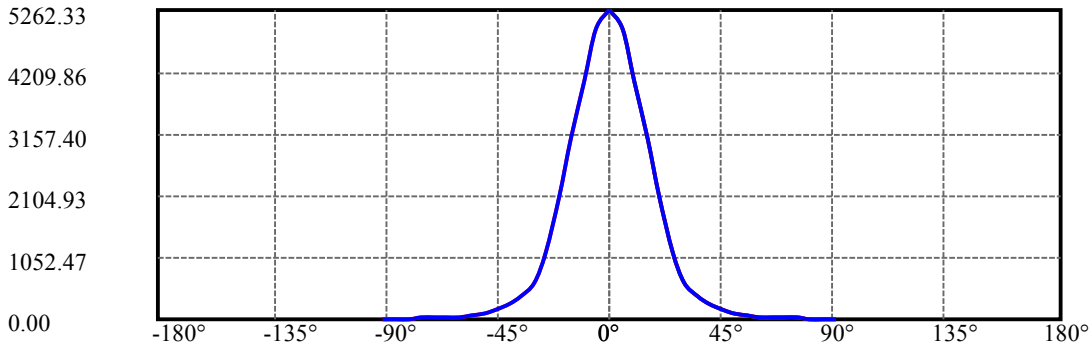
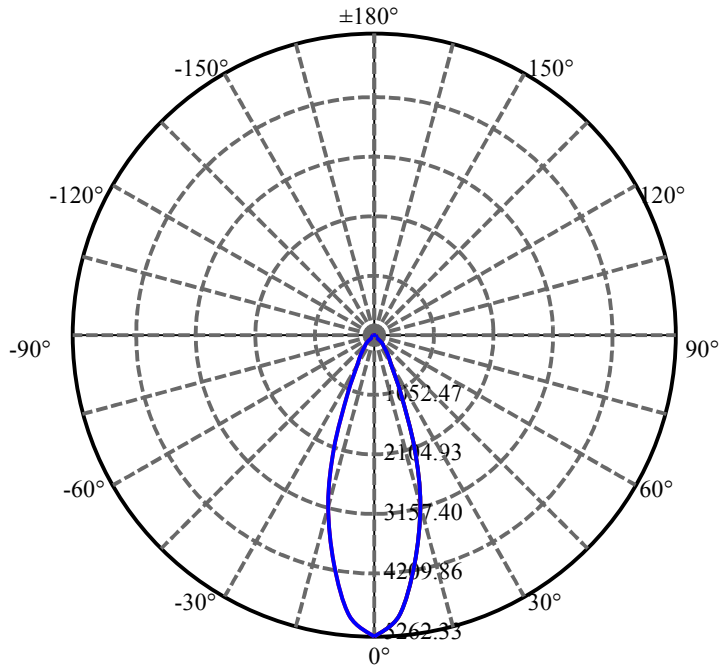
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5262.328	31.470	31.47	1.060%	1.346%
5.0	4920.258	235.057	266.527	7.917%	11.398%
10.0	4044.586	384.976	651.503	12.967%	27.860%
15.0	3061.758	434.367	1085.87	14.630%	46.435%
20.0	2095.031	392.764	1478.634	13.229%	63.231%
25.0	1130.955	261.989	1740.623	8.824%	74.434%
30.0	628.172	172.162	1912.785	5.799%	81.797%
35.0	395.241	124.263	2037.048	4.185%	87.111%
40.0	272.967	96.176	2133.224	3.239%	91.223%
45.0	169.706	65.777	2199.001	2.215%	94.036%
50.0	102.902	43.208	2242.209	1.455%	95.884%
55.0	59.730	26.819	2269.029	.903%	97.031%
60.0	36.970	17.550	2286.579	.591%	97.781%
65.0	26.902	13.364	2299.943	.450%	98.353%
70.0	22.507	11.593	2311.536	.390%	98.848%
75.0	18.499	9.795	2321.33	.330%	99.267%
80.0	15.068	8.134	2329.464	.274%	99.615%
85.0	11.651	6.362	2335.826	.214%	99.887%
90.0	9.626	2.638	2338.464	.089%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1912.78	64.43%	81.80%
0-40	2133.22	71.85%	91.22%
0-60	2286.58	77.02%	97.78%
0-90	2335.83	78.67%	99.89%
0-120	2335.83	78.67%	99.89%
0-180	2338.46	78.76%	100.00%
60-90	66.80	2.25%	2.86%
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%
0-28.78	1870.77	63.01%	80.00%

ZONAL LUMEN SUMMARY

0-10	651.50
10-20	827.13
20-30	434.15
30-40	220.44
40-50	108.99
50-60	44.37
60-70	24.96
70-80	17.93
80-90	6.36
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: —————

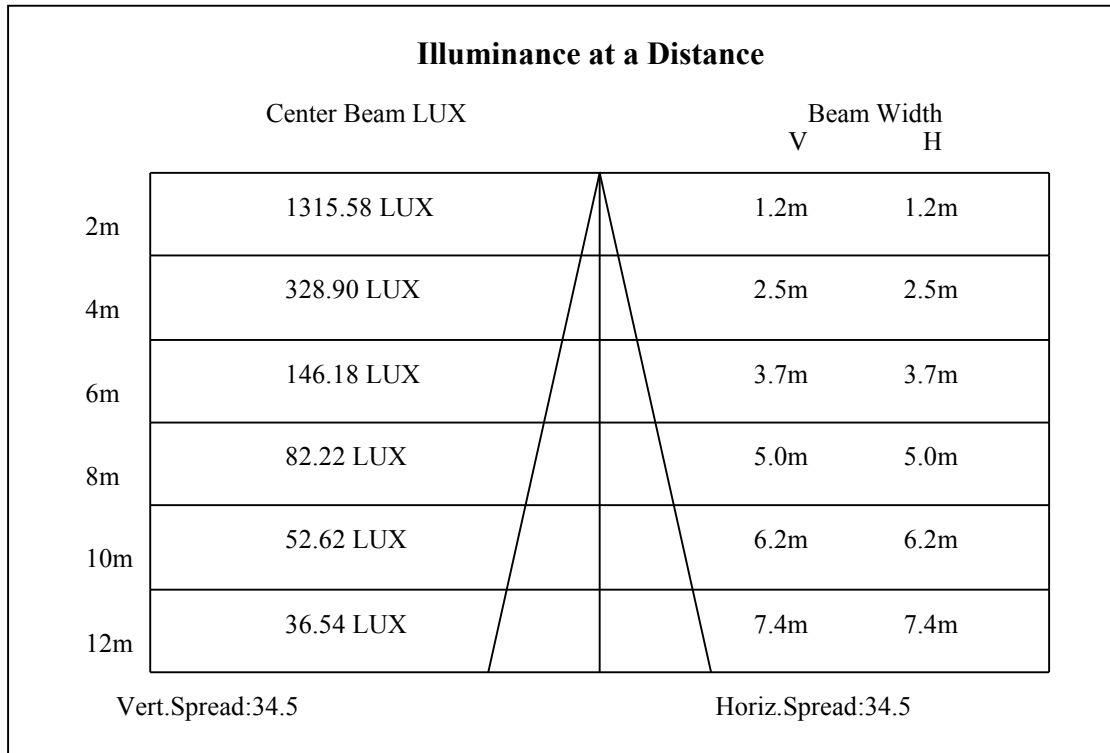
C90/C270: —————

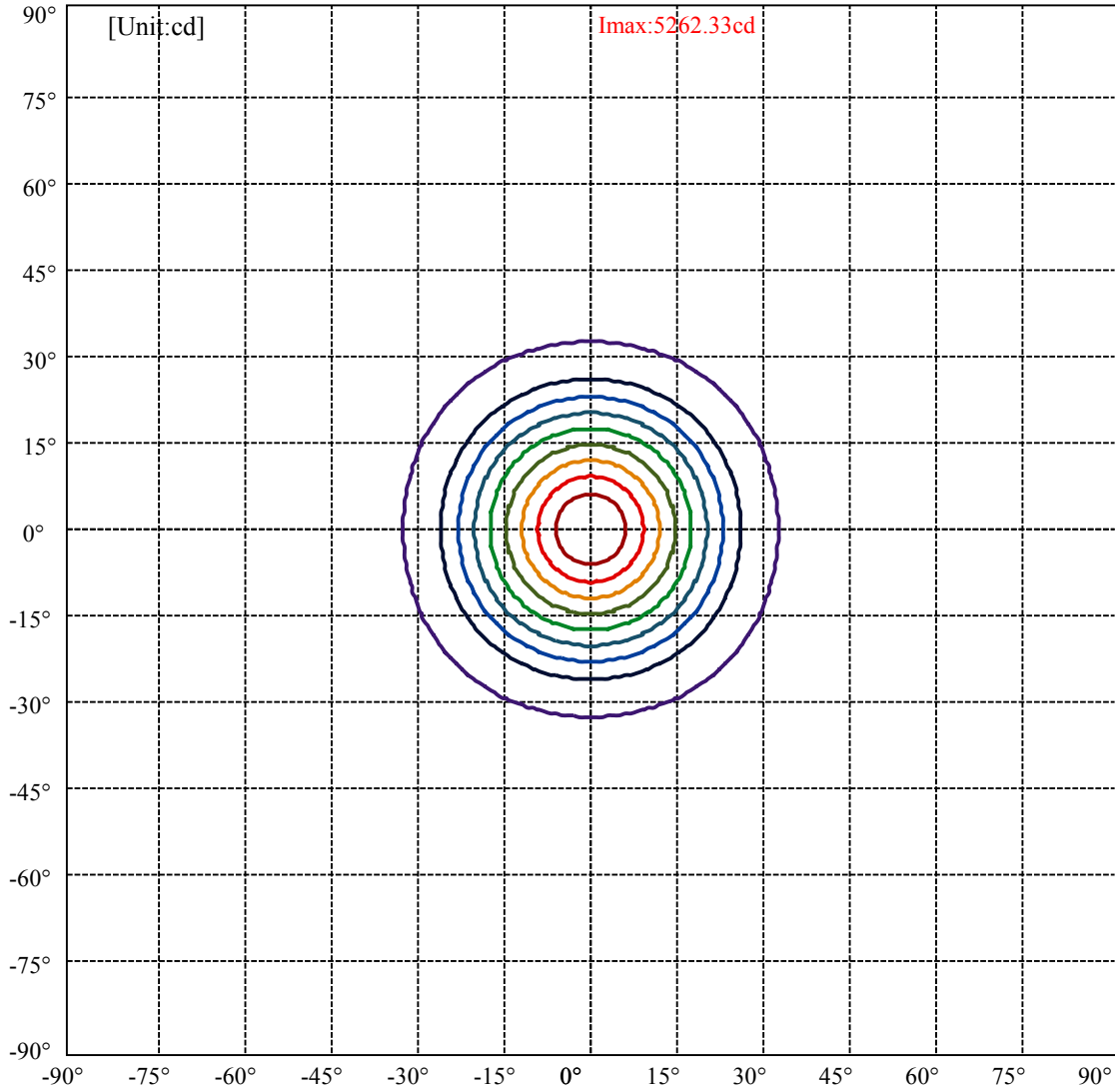
Field angle(10%Imax):C0/180Left:32.2 Right:32.2

:C90/270Left:32.2 Right:32.2

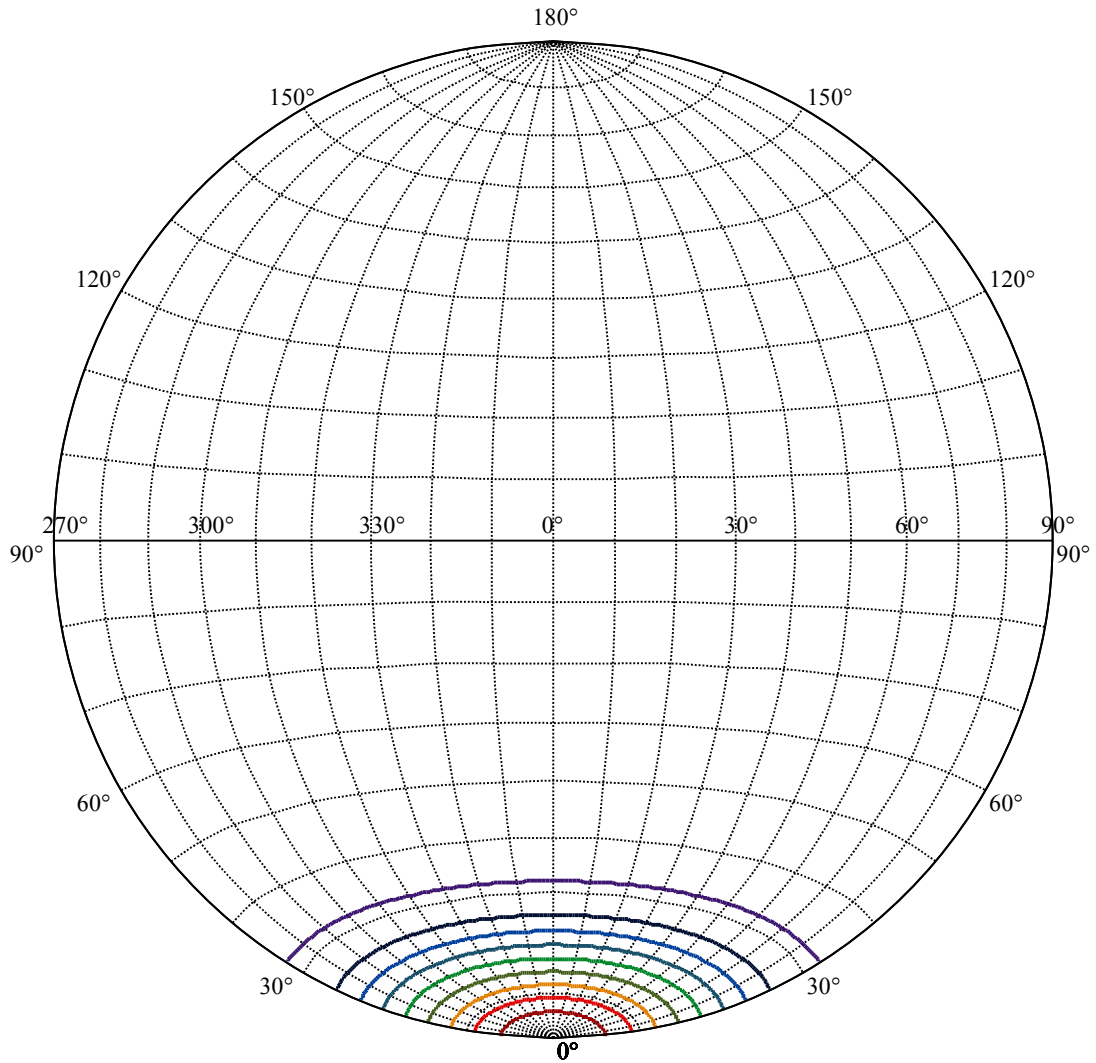
Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2

:C90/270Left:17.2 Right:17.2





(10%Imax) 526.233	—
(20%Imax) 1052.47	—
(30%Imax) 1578.7	—
(40%Imax) 2104.93	—
(50%Imax) 2631.16	—
(60%Imax) 3157.4	—
(70%Imax) 3683.63	—
(80%Imax) 4209.86	—
(90%Imax) 4736.1	—



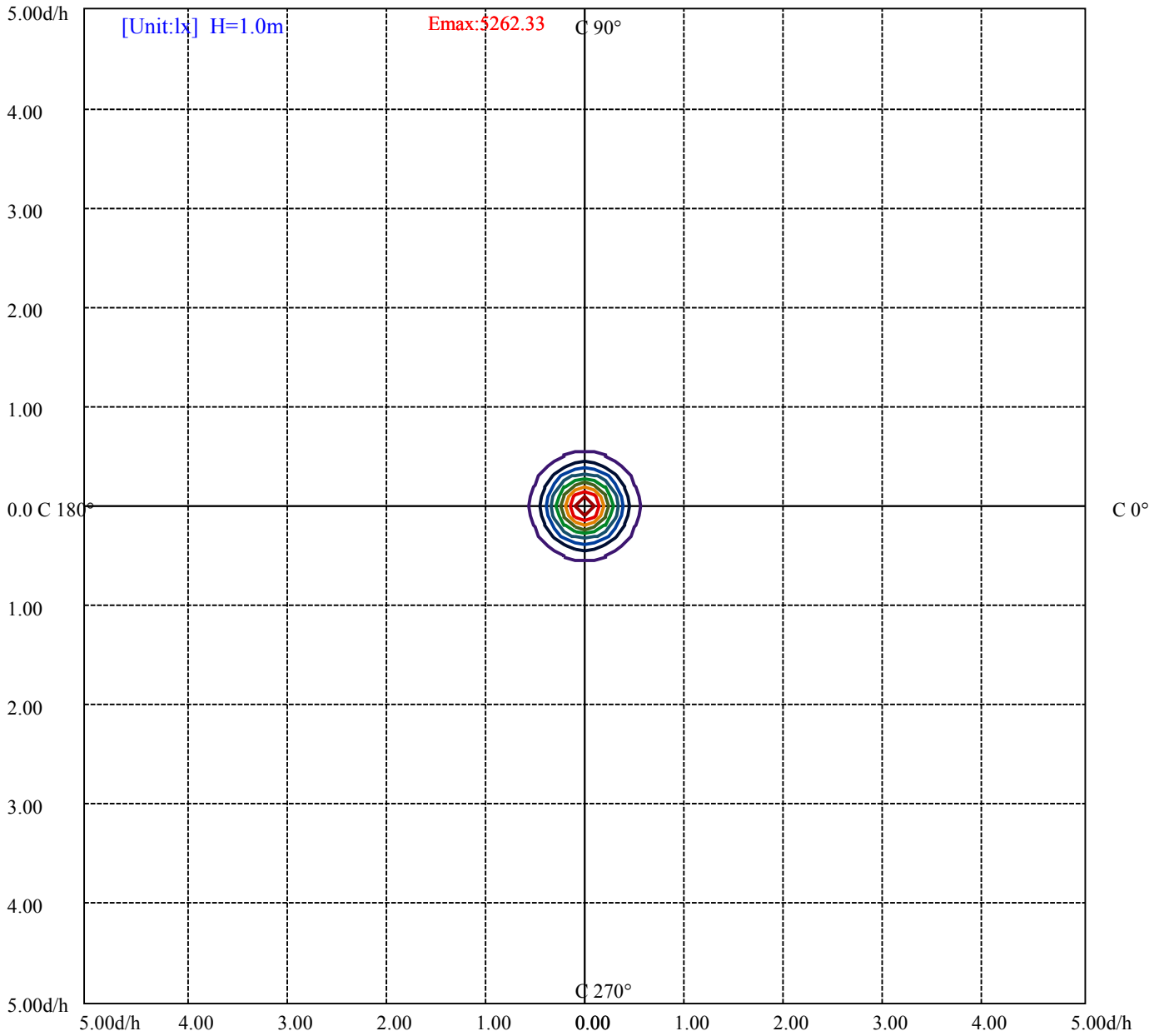
House

[Unit:cd]

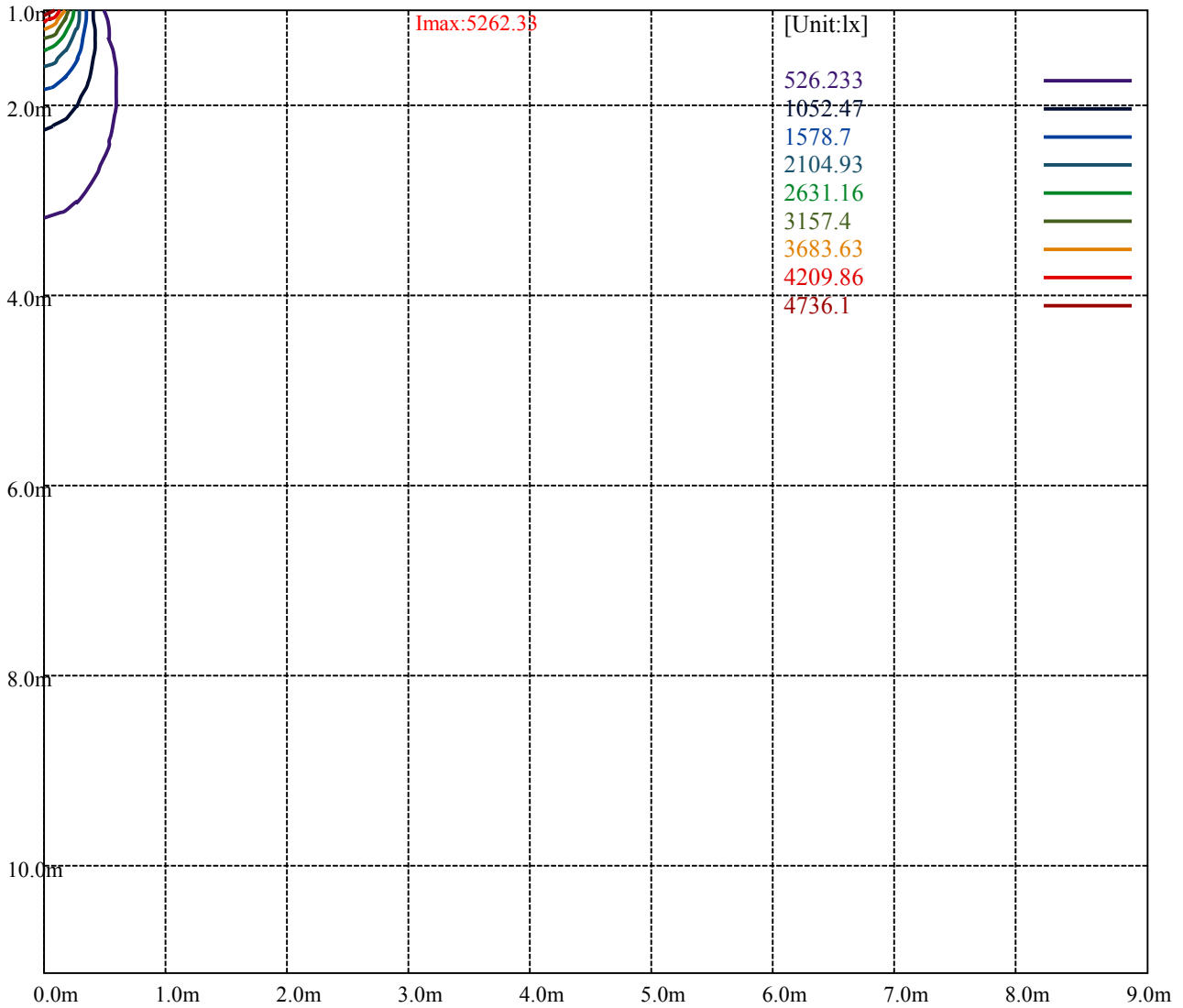
Road

Imax:5262.33

(10%Imax) 526.233	—
(20%Imax) 1052.47	—
(30%Imax) 1578.7	—
(40%Imax) 2104.93	—
(50%Imax) 2631.16	—
(60%Imax) 3157.4	—
(70%Imax) 3683.63	—
(80%Imax) 4209.86	—
(90%Imax) 4736.1	—



(10%E _{max}) 526.232	—
(20%E _{max}) 1052.46	—
(30%E _{max}) 1578.7	—
(40%E _{max}) 2104.93	—
(50%E _{max}) 2631.16	—
(60%E _{max}) 3157.39	—
(70%E _{max}) 3683.62	—
(80%E _{max}) 4209.85	—
(90%E _{max}) 4736.09	—



Luminance Table

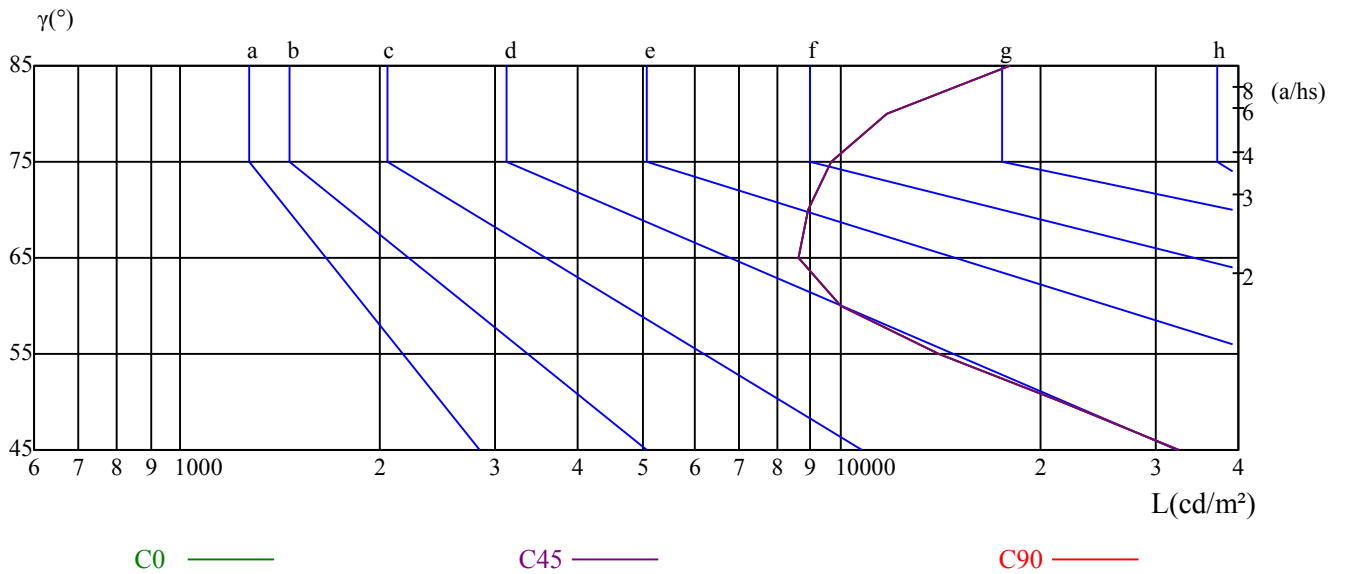
γ	45	50	55	60	65	70	75	80	85
C0	32450	21645	14080	9997	8607	8898	9664	11732	18074
C45	32450	21645	14080	9997	8607	8898	9664	11732	18074
C90	32450	21645	14080	9997	8607	8898	9664	11732	18074

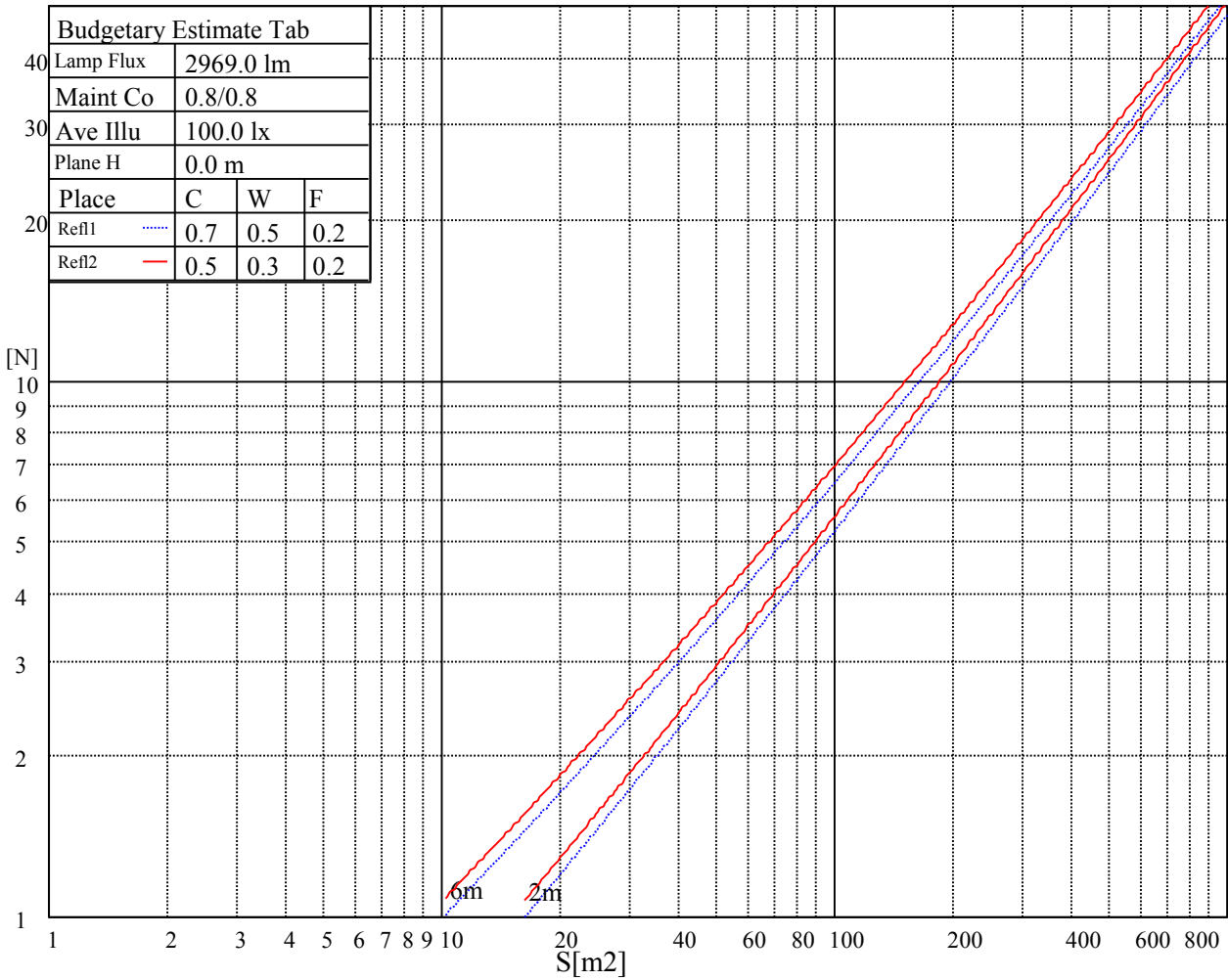
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8607	8607	8607	9664	9664	9664	18074	18074	18074

Glare Table

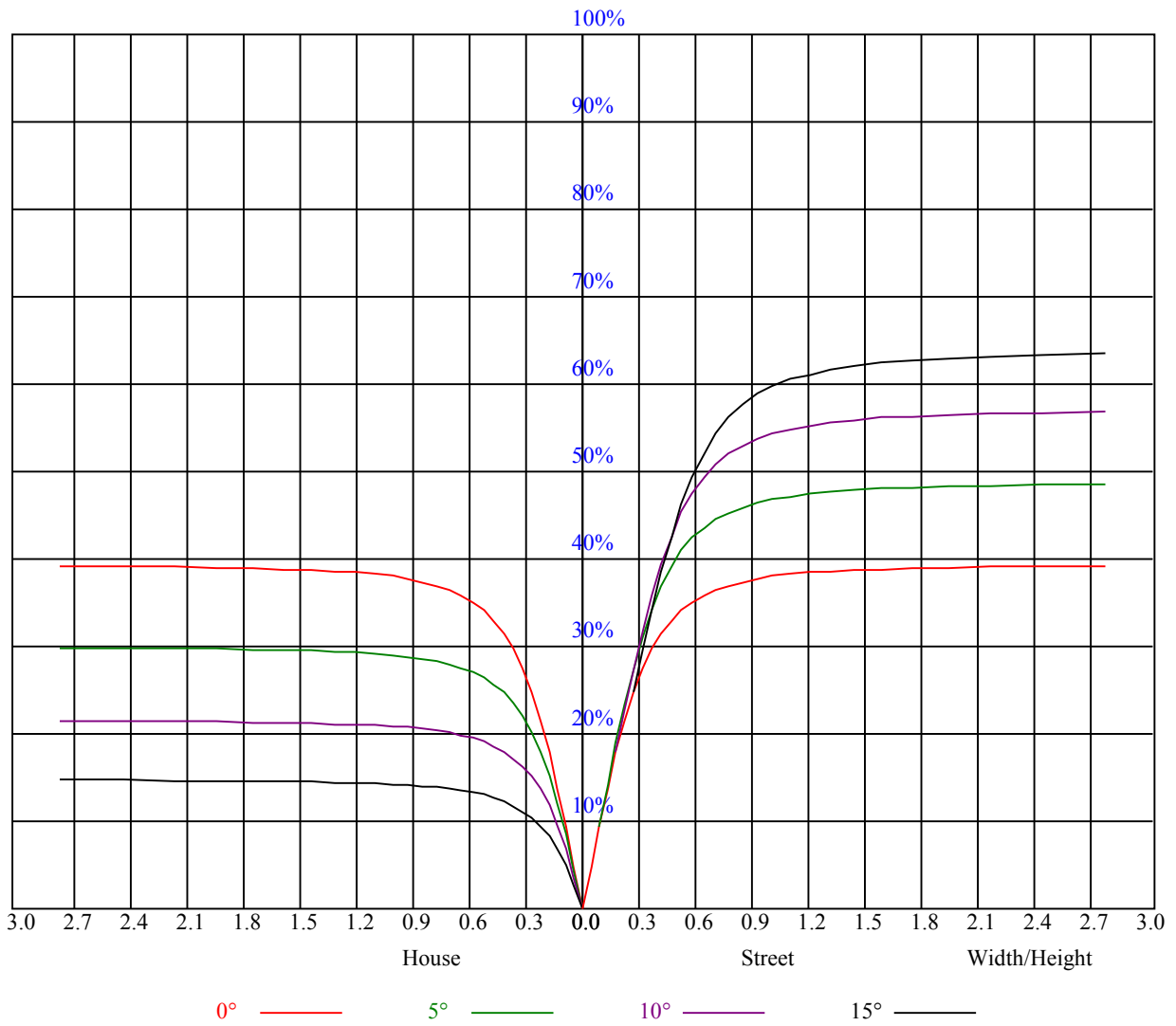
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.95	0.95	0.95	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.81	0.81	0.81	0.80
1	0.87	0.85	0.83	0.86	0.84	0.82	0.83	0.81	0.79	0.80	0.78	0.77	0.77	0.76	0.75	0.73
2	0.82	0.79	0.76	0.81	0.78	0.75	0.78	0.76	0.74	0.76	0.74	0.72	0.74	0.72	0.71	0.69
3	0.78	0.74	0.71	0.77	0.73	0.70	0.74	0.72	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.66
4	0.74	0.70	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.69	0.67	0.64	0.68	0.66	0.64	0.63
5	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.65	0.63	0.61	0.60
6	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
7	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.58	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	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.55	0.52	0.50	0.49



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	5256.00	5004.00	4166.44	3186.56	2253.94	1271.81	664.31	425.81	286.88
45.0	5275.69	4801.50	3877.88	2932.88	1952.44	1023.19	577.69	370.13	288.00
90.0	5244.19	4746.38	3854.81	2868.75	1864.13	948.99	560.25	354.43	235.35
135.0	5273.44	4944.38	4119.75	3116.81	2194.88	1155.38	624.38	389.81	286.31
180.0	5256.00	4839.19	3897.00	2899.69	1935.56	1012.73	579.49	373.67	249.58
225.0	5275.69	5031.00	4104.56	3097.69	2138.63	1106.38	658.52	410.23	278.66
270.0	5244.19	5051.81	4294.69	3314.81	2339.44	1442.25	726.75	446.06	291.94
315.0	5273.44	4943.81	4041.56	3076.88	2081.25	1086.92	633.99	391.78	267.02
360.0	5256.00	5004.00	4166.44	3186.56	2253.94	1271.81	664.31	425.81	286.88
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	186.86	116.49	67.05	40.73	28.46	23.63	19.35	15.92	12.26
45.0	167.85	98.21	56.19	34.88	26.55	22.11	18.11	14.79	11.14
90.0	150.86	90.11	51.41	33.24	25.71	21.49	17.55	14.40	10.97
135.0	165.77	100.18	58.89	36.00	26.33	22.28	18.23	14.63	11.19
180.0	151.99	90.96	53.38	33.47	25.54	21.60	17.61	14.06	10.97
225.0	175.56	105.13	62.21	37.86	27.06	22.56	18.79	15.36	12.15
270.0	191.59	116.33	67.39	42.02	28.29	23.68	19.74	16.14	12.54
315.0	167.18	105.81	61.31	37.58	27.28	22.73	18.62	15.24	11.98
360.0	186.86	116.49	67.05	40.73	28.46	23.63	19.35	15.92	12.26
C/ γ (°)	90.0								
0.0	9.56								
45.0	9.62								
90.0	9.62								
135.0	9.56								
180.0	9.56								
225.0	9.73								
270.0	9.73								
315.0	9.62								
360.0	9.56								