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Nata

LumCAT: 2-2532-L	
Luminaire: 92.70.135.00	
Report No: 220914-B008	Voltage(V): 34.7800
Test No: 220914-C008	Current(A): 0.4850
LampCAT: LUMILEDS LUXEON1205	Power (W): 16.8680
Lamp flux(lm): 2455.9	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): 2105.86
Efficiency(%): 85.75%
Lumens(lm)/Power(W): 124.84
Central intensity(cd): 4577.520
Maximum intensity(cd): 4577.520
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=37.5
 [C90/270]Total=37.5
Field angle(10%Imax): [C0/180]Total=65.9
 [C90/270]Total=65.9
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.75%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.107%

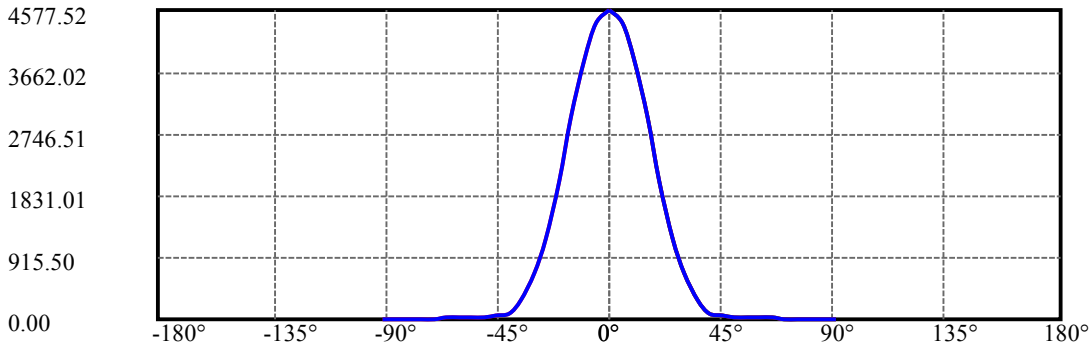
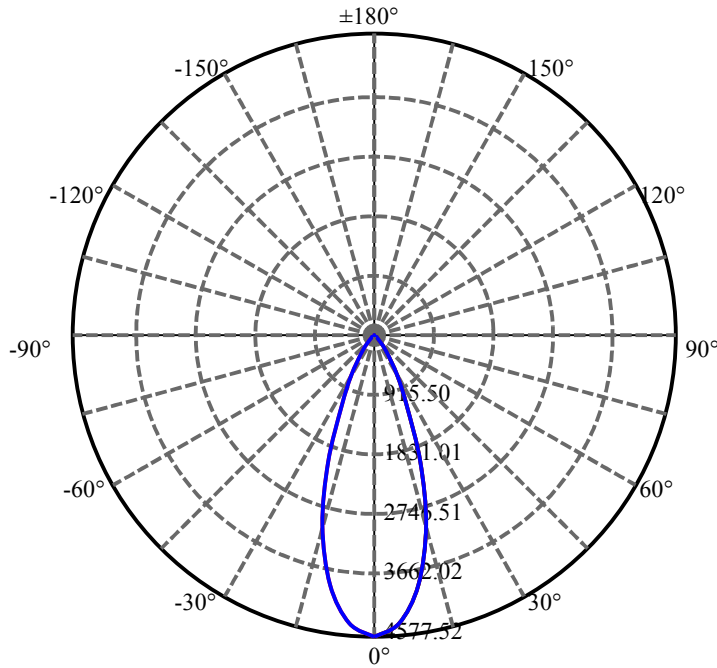
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4577.520	0.000	0	.000%	.000%
5.0	4389.896	107.203	107.203	4.365%	5.091%
10.0	3836.211	294.274	401.477	11.983%	19.065%
15.0	2998.251	405.416	806.892	16.508%	38.316%
20.0	2052.064	416.217	1223.109	16.948%	58.081%
25.0	1187.395	339.759	1562.869	13.835%	74.215%
30.0	692.349	237.883	1800.752	9.686%	85.511%
35.0	296.994	145.688	1946.44	5.932%	92.429%
40.0	76.304	62.282	2008.722	2.536%	95.387%
45.0	43.157	22.119	2030.841	.901%	96.437%
50.0	29.735	14.729	2045.57	.600%	97.137%
55.0	21.840	11.214	2056.784	.457%	97.669%
60.0	18.053	9.221	2066.005	.375%	98.107%
65.0	15.805	8.231	2074.235	.335%	98.498%
70.0	14.102	7.572	2081.808	.308%	98.858%
75.0	12.361	6.917	2088.725	.282%	99.186%
80.0	10.972	6.243	2094.968	.254%	99.483%
85.0	9.852	5.658	2100.627	.230%	99.751%
90.0	9.277	5.238	2105.864	.213%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1800.75	73.32%	85.51%
0-40	2008.72	81.79%	95.39%
0-60	2066.00	84.13%	98.11%
0-90	2100.63	85.54%	99.75%
0-120	2100.63	85.54%	99.75%
0-180	2105.86	85.75%	100.00%
60-90	43.84	1.79%	2.08%
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%
0-27.56	1684.69	68.60%	80.00%

ZONAL LUMEN SUMMARY

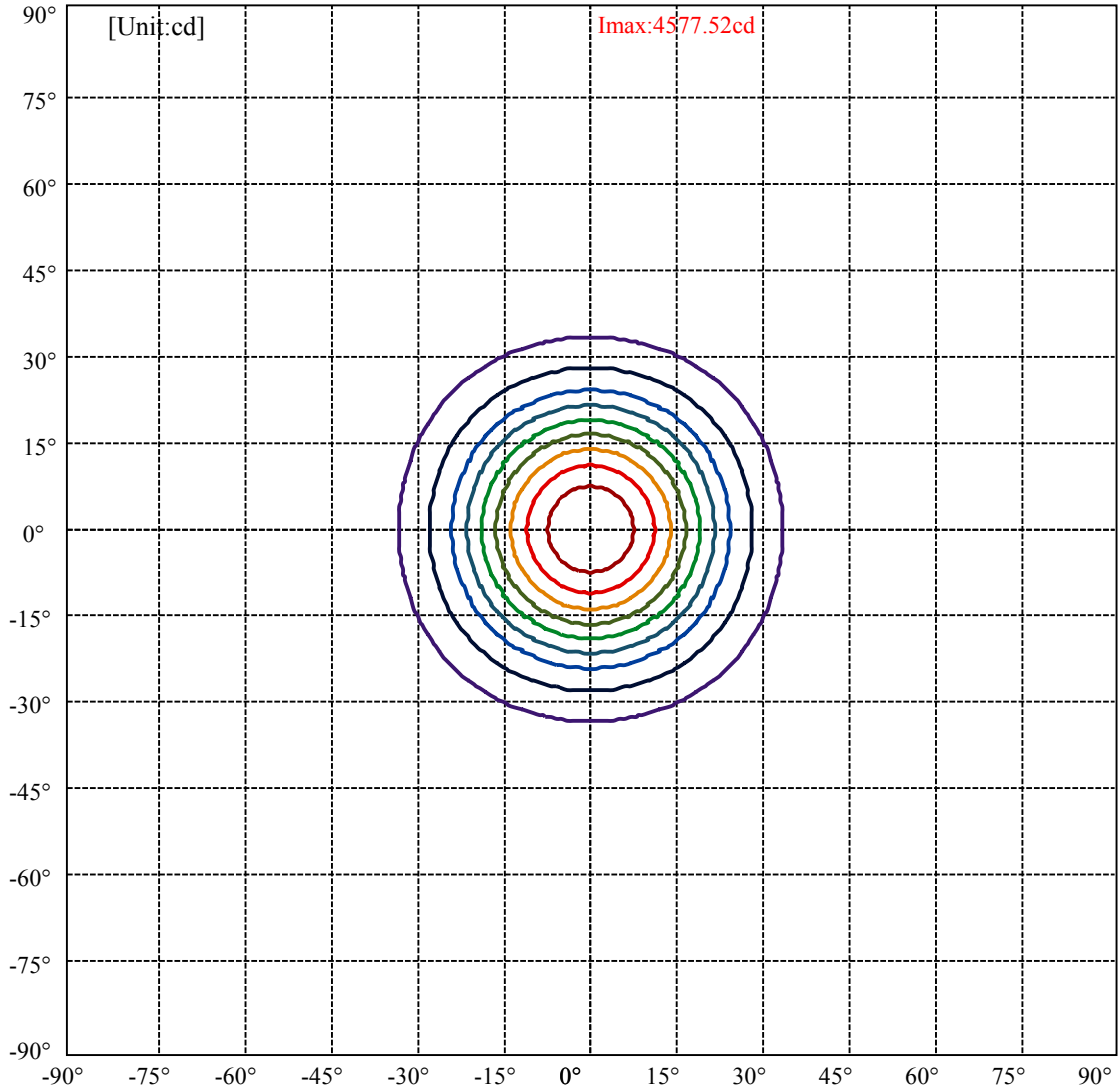
0-10	401.48
10-20	821.63
20-30	577.64
30-40	207.97
40-50	36.85
50-60	20.43
60-70	15.80
70-80	13.16
80-90	5.66
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



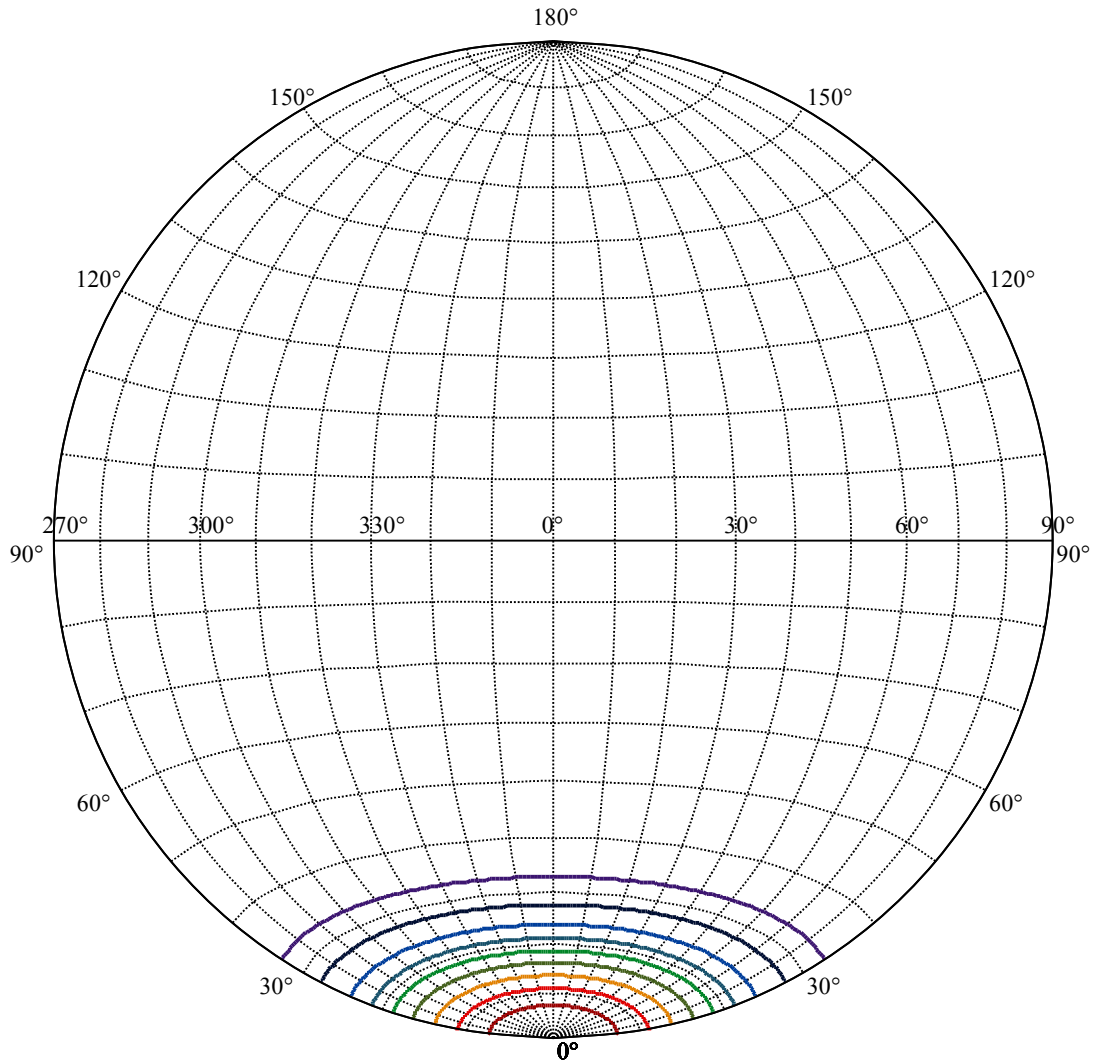
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:33.0 Right:33.0
:C90/270Left:33.0 Right:33.0

Beam Angle(50%Imax):C0/180Left:18.7 Right:18.7
:C90/270Left:18.7 Right:18.7



(10%Imax) 457.752	—
(20%Imax) 915.504	—
(30%Imax) 1373.26	—
(40%Imax) 1831.01	—
(50%Imax) 2288.76	—
(60%Imax) 2746.51	—
(70%Imax) 3204.26	—
(80%Imax) 3662.02	—
(90%Imax) 4119.77	—



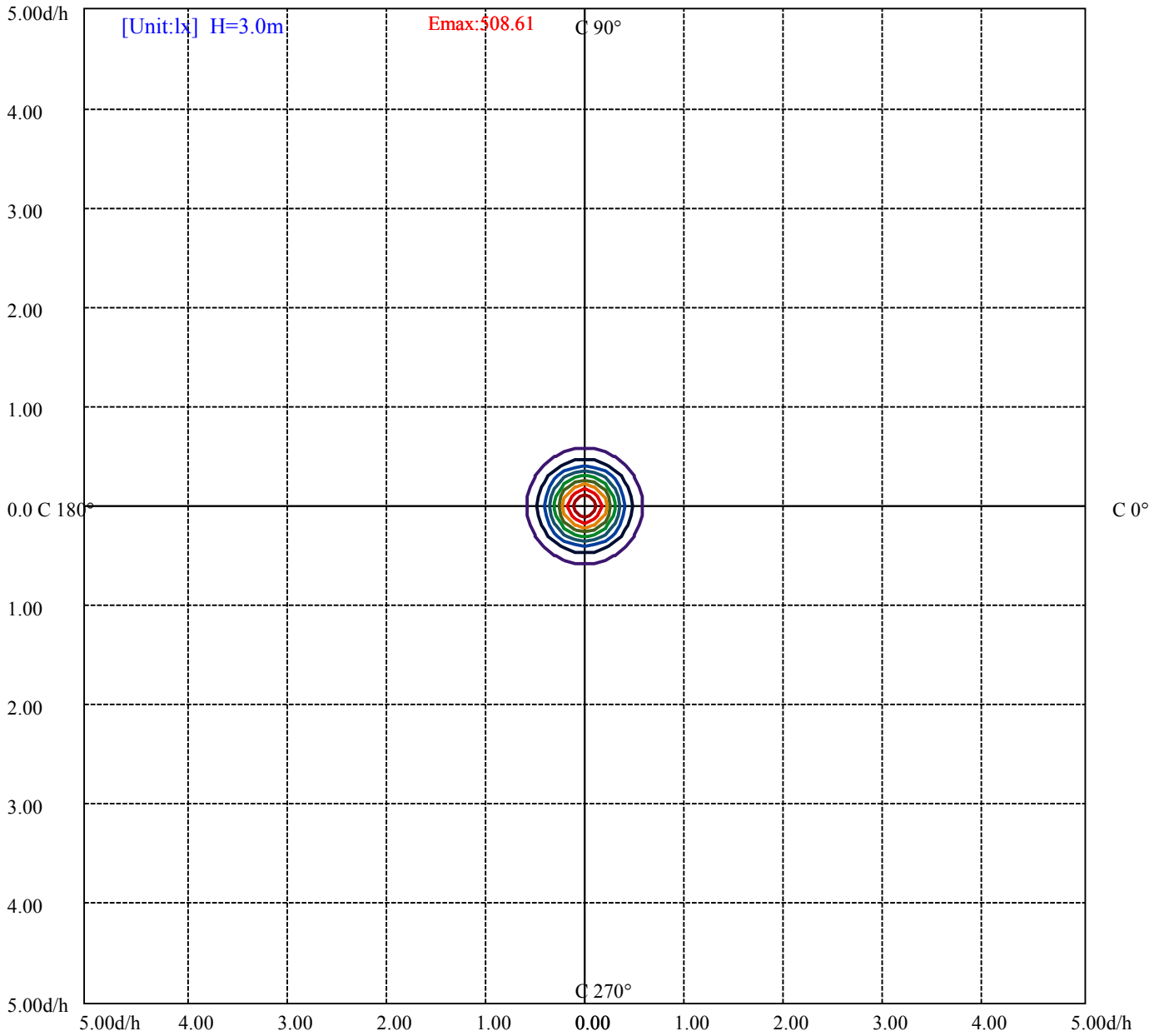
House

[Unit:cd]

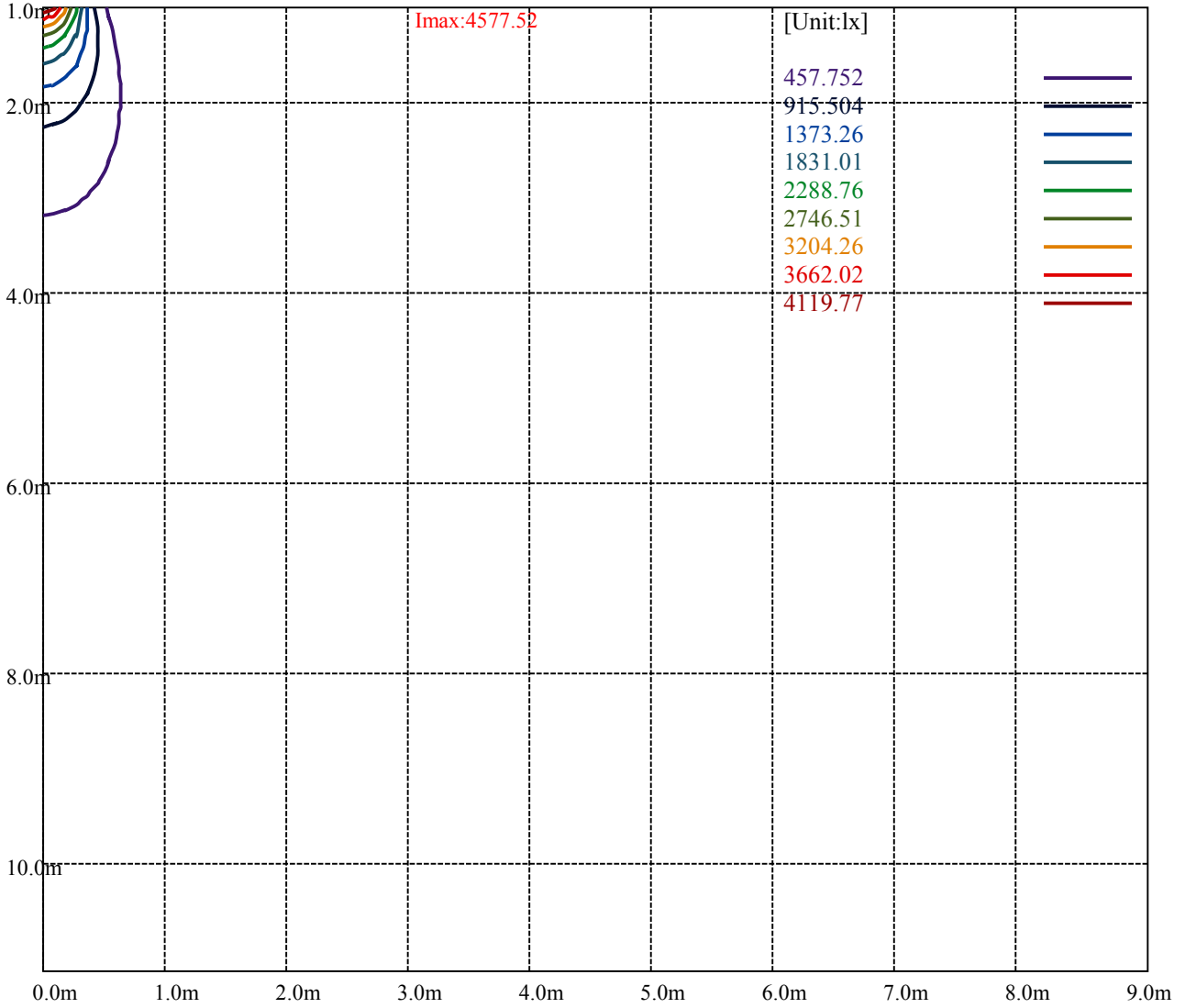
Road

Imax:4577.52

(10%Imax) 457.752	—
(20%Imax) 915.504	—
(30%Imax) 1373.26	—
(40%Imax) 1831.01	—
(50%Imax) 2288.76	—
(60%Imax) 2746.51	—
(70%Imax) 3204.26	—
(80%Imax) 3662.02	—
(90%Imax) 4119.77	—



(10%Emax) 50.86122	—
(20%Emax) 101.7226	—
(30%Emax) 152.5833	—
(40%Emax) 203.4456	—
(50%Emax) 254.3067	—
(60%Emax) 305.1678	—
(70%Emax) 356.0289	—
(80%Emax) 406.89	—
(90%Emax) 457.7511	—



Luminance Table

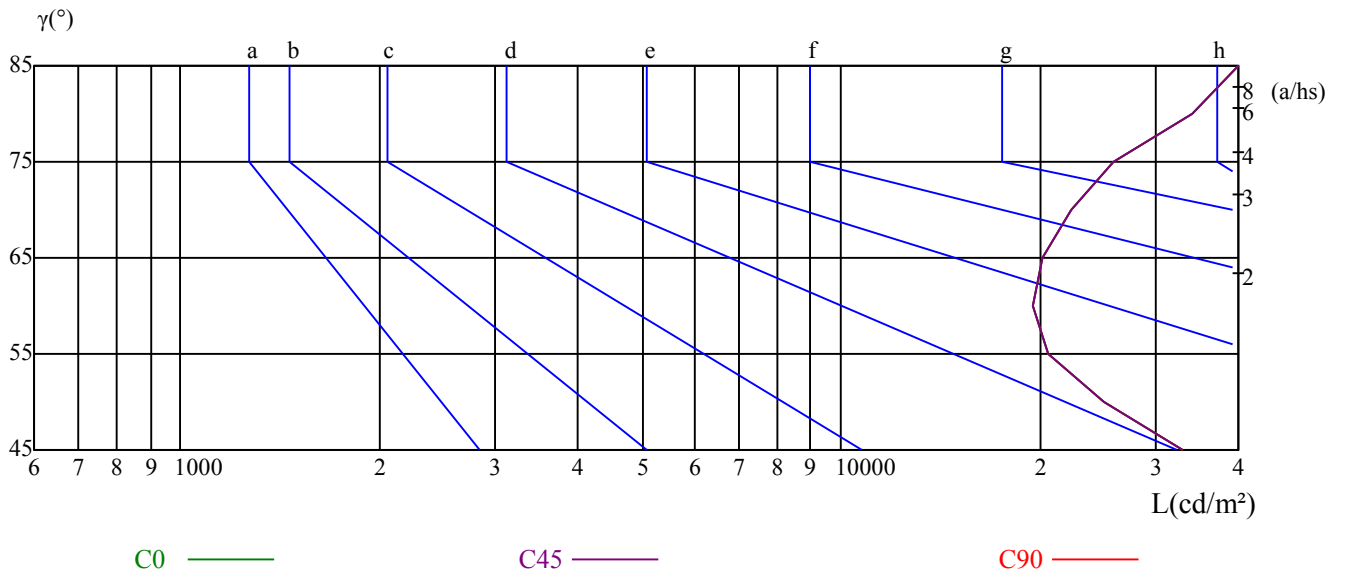
γ	45	50	55	60	65	70	75	80	85
C0	33008	25018	20593	19527	20226	22299	25831	34173	61134
C45	33008	25018	20593	19527	20226	22299	25831	34173	61134
C90	33008	25018	20593	19527	20226	22299	25831	34173	61134

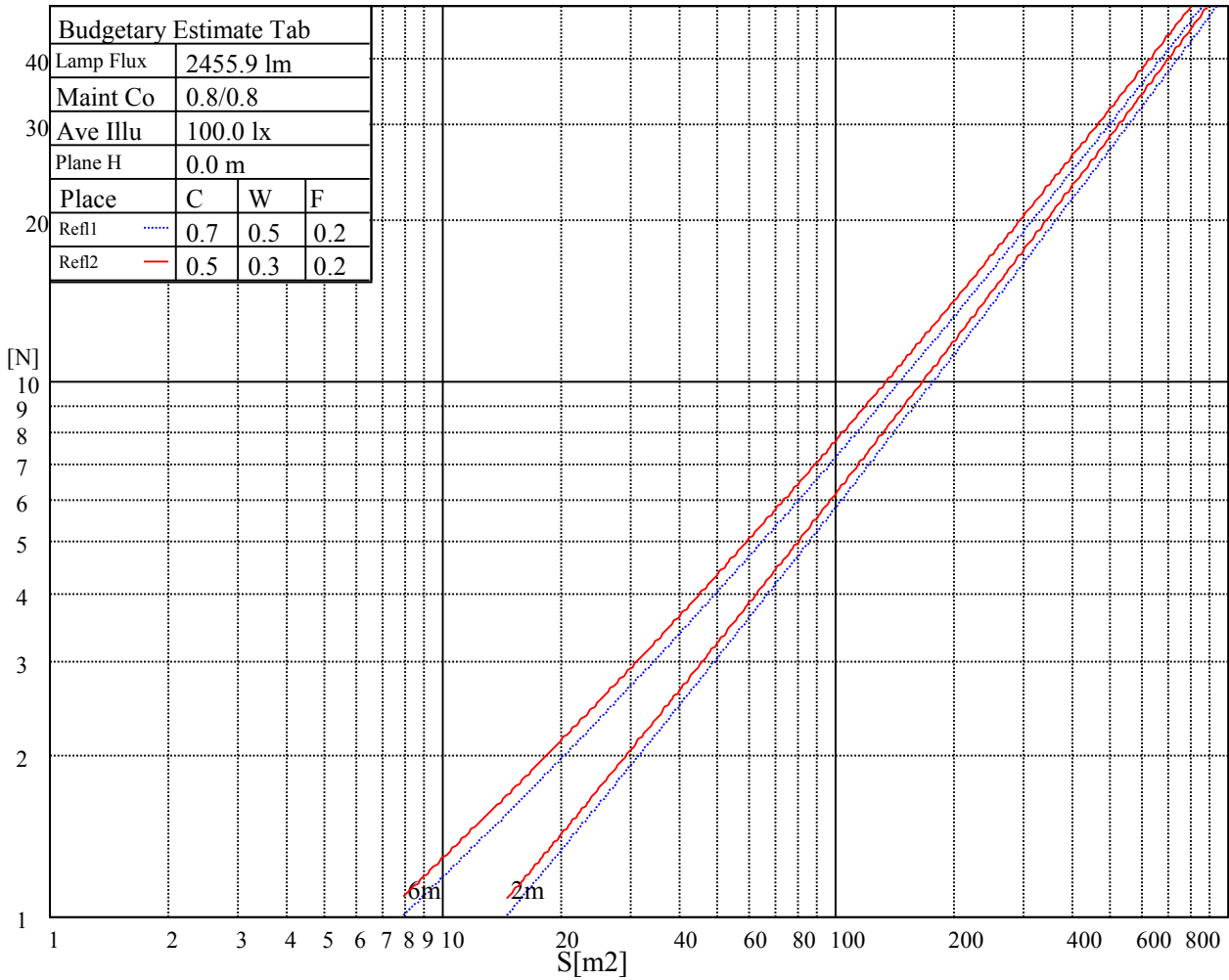
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
20226	20226	20226	25831	25831	25831	61134	61134	61134

Glare Table

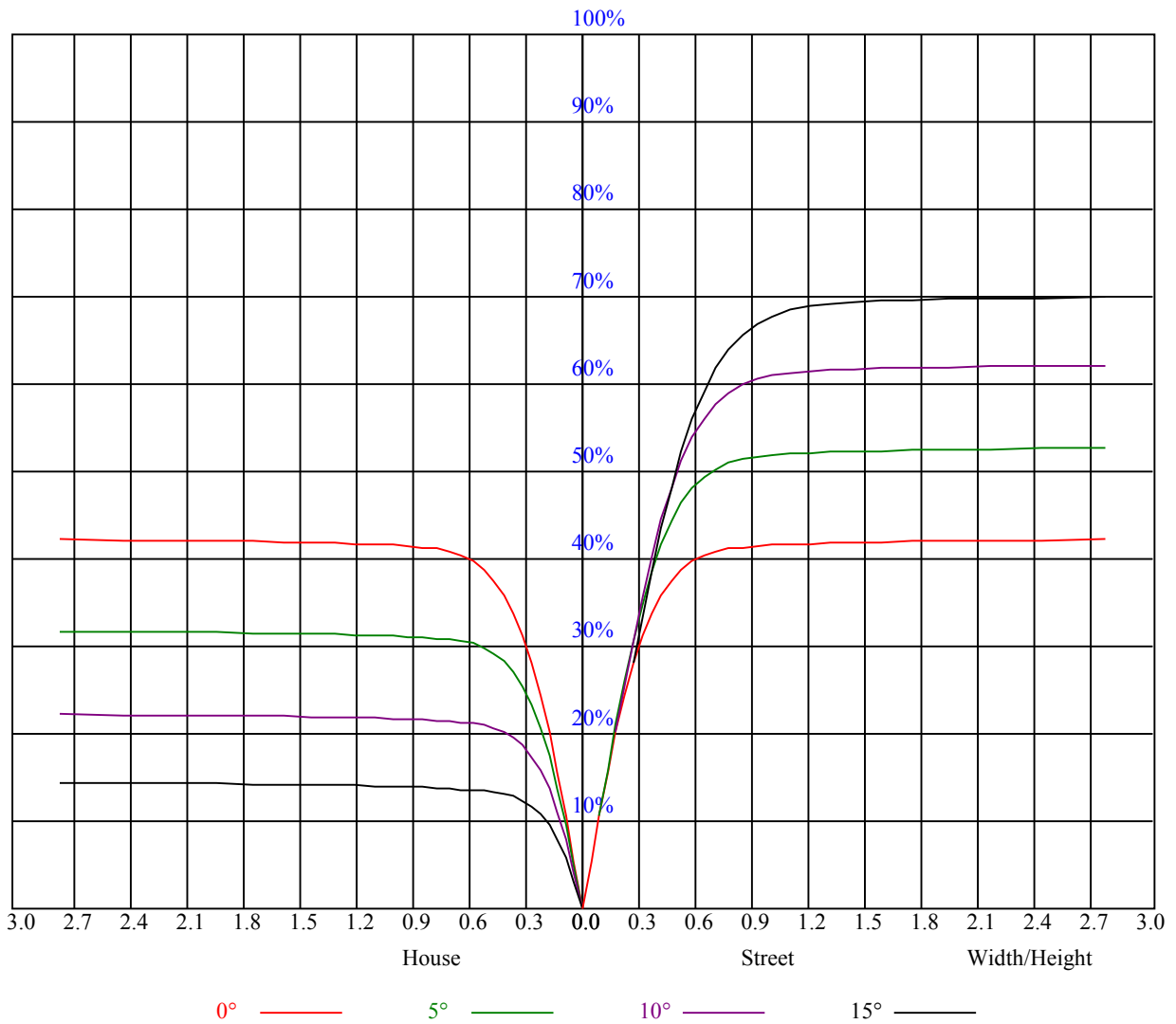
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.95	0.93	0.92	0.94	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.76
3	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.77	0.75	0.74	0.72
4	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.69	0.67	0.71	0.69	0.67	0.65
6	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.68	0.66	0.63	0.62
7	0.69	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.59
8	0.66	0.62	0.59	0.66	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.55	0.54
10	0.61	0.56	0.54	0.60	0.56	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.52



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	4564.52	4529.27	4128.93	3337.20	2408.04	1487.85	881.95	400.34	105.94
45.0	4596.79	4396.02	3789.53	2945.82	1995.75	1156.82	641.75	306.53	66.92
90.0	4562.13	4243.65	3559.48	2643.47	1729.85	1019.38	528.22	175.20	58.86
135.0	4586.63	4331.49	3704.68	2859.77	1857.12	1083.92	604.70	316.09	63.34
180.0	4564.52	4205.41	3510.48	2639.29	1680.25	960.71	527.92	158.52	59.45
225.0	4596.79	4416.34	3879.16	3064.13	2113.46	1175.04	727.79	295.36	75.89
270.0	4562.13	4522.70	4091.88	3321.07	2396.69	1439.45	844.91	396.76	96.68
315.0	4586.63	4474.30	4025.55	3175.27	2235.36	1176.00	781.57	327.15	83.36
360.0	4564.52	4529.27	4128.93	3337.20	2408.04	1487.85	881.95	400.34	105.94
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	49.89	33.34	23.96	19.18	16.49	14.76	13.03	11.53	10.10
45.0	39.50	27.43	20.67	17.27	15.30	13.74	12.13	10.82	9.62
90.0	35.79	25.34	19.60	16.73	14.82	13.38	11.77	10.40	9.56
135.0	39.14	27.19	20.38	17.39	15.30	13.68	12.01	10.76	9.62
180.0	37.76	26.53	20.26	17.27	15.36	13.56	11.77	10.58	9.68
225.0	44.64	31.55	22.71	18.46	16.13	14.28	12.49	10.99	10.04
270.0	51.09	34.72	24.32	19.36	16.73	14.88	12.91	11.53	10.10
315.0	47.44	31.79	22.83	18.76	16.31	14.52	12.79	11.17	10.10
360.0	49.89	33.34	23.96	19.18	16.49	14.76	13.03	11.53	10.10
C/ γ (°)	90.0								
0.0	9.38								
45.0	9.20								
90.0	9.20								
135.0	9.20								
180.0	9.26								
225.0	9.26								
270.0	9.32								
315.0	9.38								
360.0	9.38								