
Nata

LumCAT: 3-2054-A
Luminaire: TE 2213480-1+92.76.365.00
Report No: GC2017101701
Test No: NT-0010
LampCAT: CREECXA3050
Lamp flux(lm): 2161.0
Number of Lamps: 1
Length(mm): 79
Phm Type: C

Voltage(V): 34.5000
Current(A): 0.5000
Power (W): 17.2500
PF: 0.0000
Ballast type: DC
Width(mm): 79
Height(mm): 0

Photometric Results

Lumens(lm): 1800.60
Efficiency(%): 83.32%
Lumens(lm)/Power(W): 104.38
Central intensity(cd): 4753.569
Maximum intensity(cd): 4753.569
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=28.7
 [C90/270]Total=28.7
Field angle(10%Imax): [C0/180]Total=67.6
 [C90/270]Total=67.6
Maximum s/h(1/2): C0_180=0.48 C90_270=0.48
Maximum s/h(1/4): C0_180=0.51 C90_270=0.51
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.32%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.973%

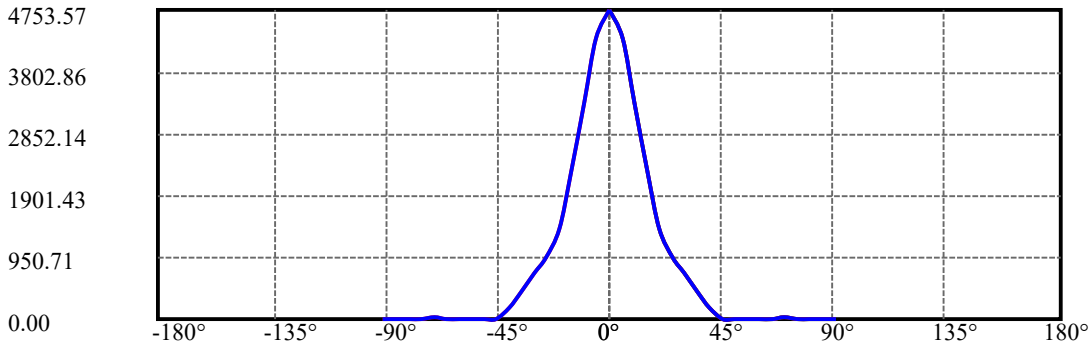
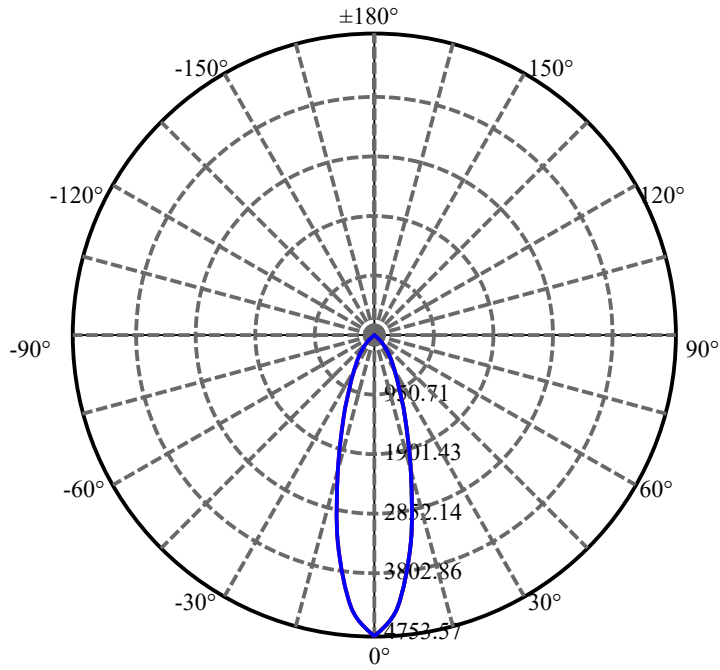
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4753.570	0.000	0	.000%	.000%
5.0	4316.009	108.424	108.424	5.017%	6.022%
10.0	3324.925	273.340	381.764	12.649%	21.202%
15.0	2233.845	329.742	711.507	15.259%	39.515%
20.0	1381.950	297.992	1009.499	13.790%	56.065%
25.0	936.000	243.110	1252.609	11.250%	69.566%
30.0	696.291	206.568	1459.177	9.559%	81.038%
35.0	406.991	162.466	1621.643	7.518%	90.061%
40.0	166.497	95.682	1717.325	4.428%	95.375%
45.0	13.909	33.404	1750.729	1.546%	97.230%
50.0	10.165	4.864	1755.593	.225%	97.500%
55.0	9.346	4.242	1759.836	.196%	97.736%
60.0	9.139	4.273	1764.109	.198%	97.973%
65.0	14.239	5.683	1769.792	.263%	98.289%
70.0	15.202	7.455	1777.247	.345%	98.703%
75.0	13.372	7.469	1784.715	.346%	99.118%
80.0	10.254	6.322	1791.037	.293%	99.469%
85.0	8.589	5.120	1796.157	.237%	99.753%
90.0	7.639	4.443	1800.601	.206%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1459.18	67.52%	81.04%
0-40	1717.33	79.47%	95.38%
0-60	1764.11	81.63%	97.97%
0-90	1796.16	83.12%	99.75%
0-120	1796.16	83.12%	99.75%
0-180	1800.60	83.32%	100.00%
60-90	36.32	1.68%	2.02%
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%
0-29.55	1440.48	66.66%	80.00%

ZONAL LUMEN SUMMARY

0-10	381.76
10-20	627.73
20-30	449.68
30-40	258.15
40-50	38.27
50-60	8.52
60-70	13.14
70-80	13.79
80-90	5.12
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: —————

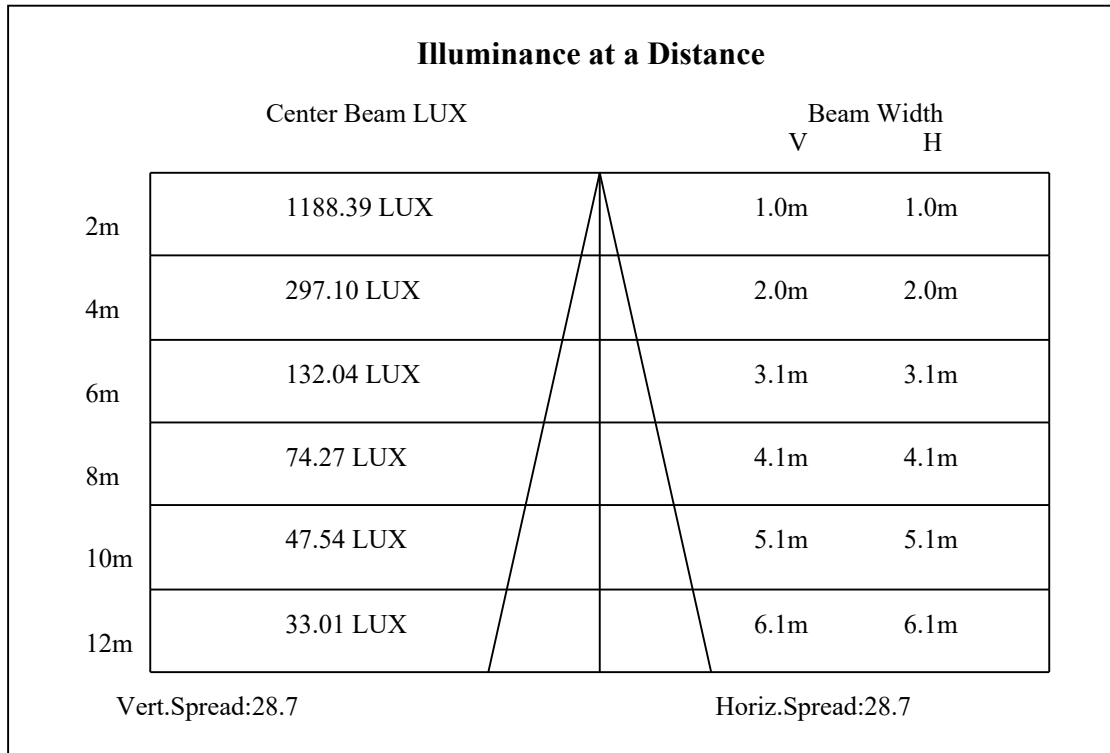
C90/C270: —————

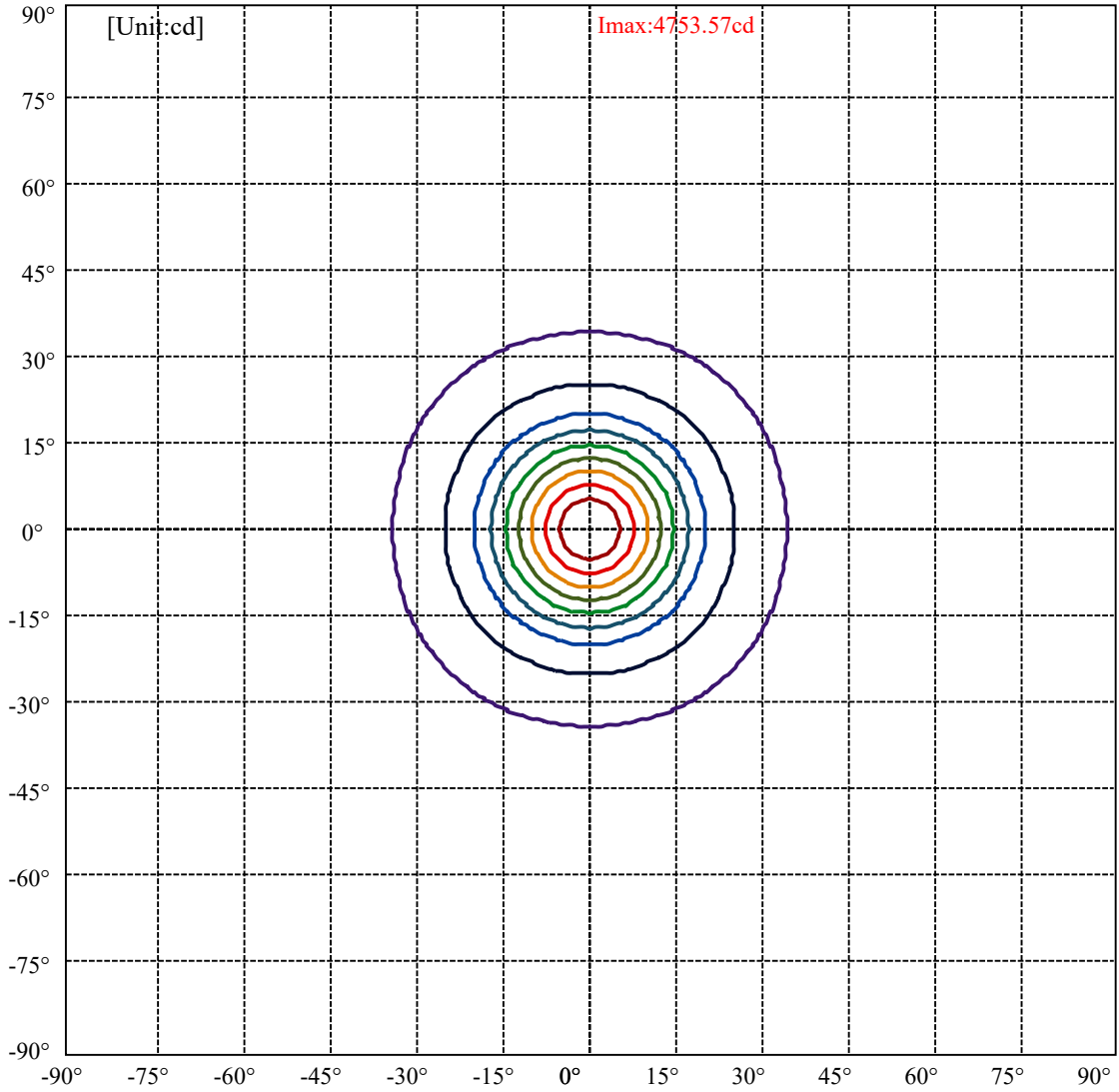
Field angle(10%Imax):C0/180Left:33.8 Right:33.8

:C90/270Left:33.8 Right:33.8

Beam Angle(50%Imax):C0/180Left:14.3 Right:14.3

:C90/270Left:14.3 Right:14.3



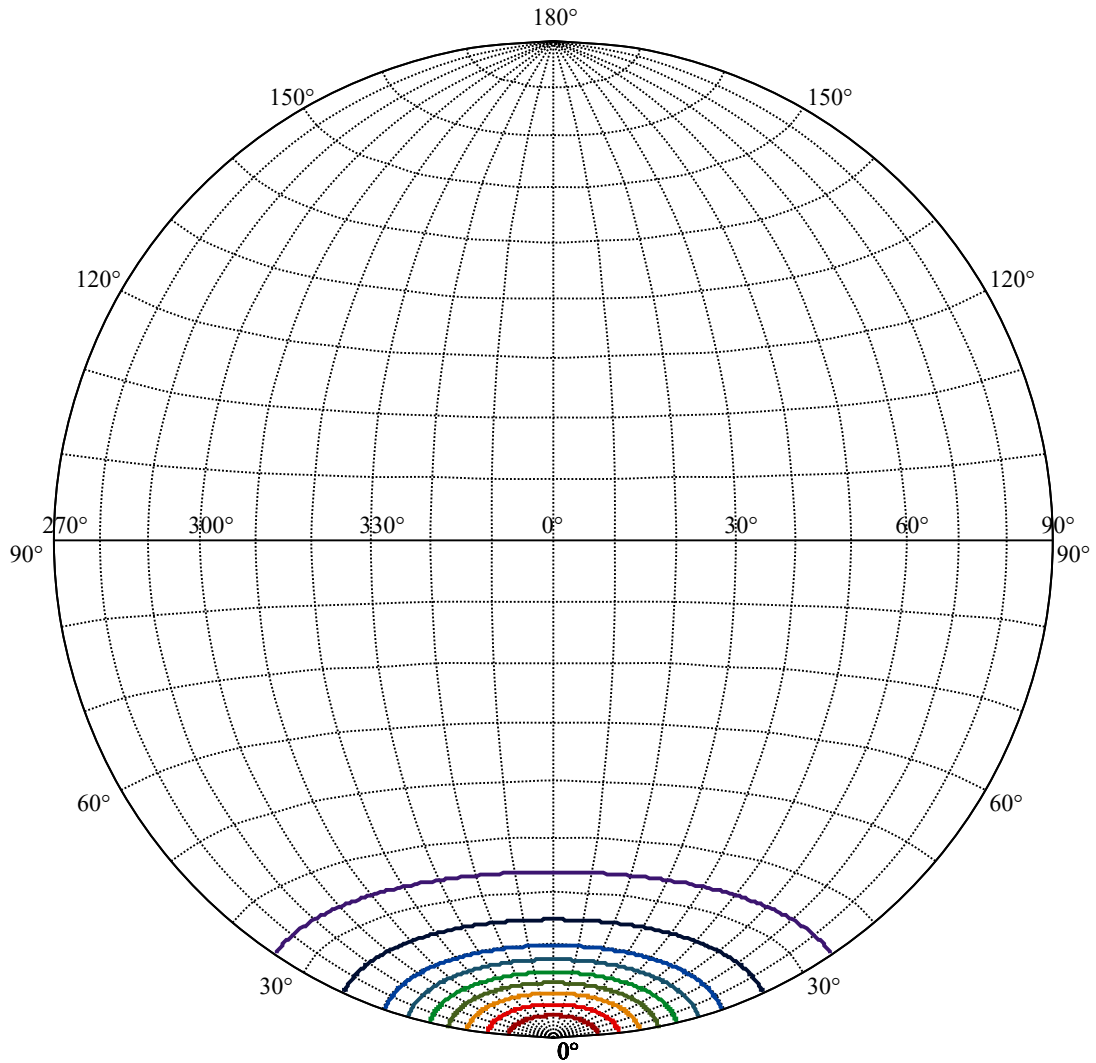


(10%Imax) 475.357	—
(20%Imax) 950.714	—
(30%Imax) 1426.07	—
(40%Imax) 1901.43	—
(50%Imax) 2376.78	—
(60%Imax) 2852.14	—
(70%Imax) 3327.5	—
(80%Imax) 3802.86	—
(90%Imax) 4278.21	—

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/10/25
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42



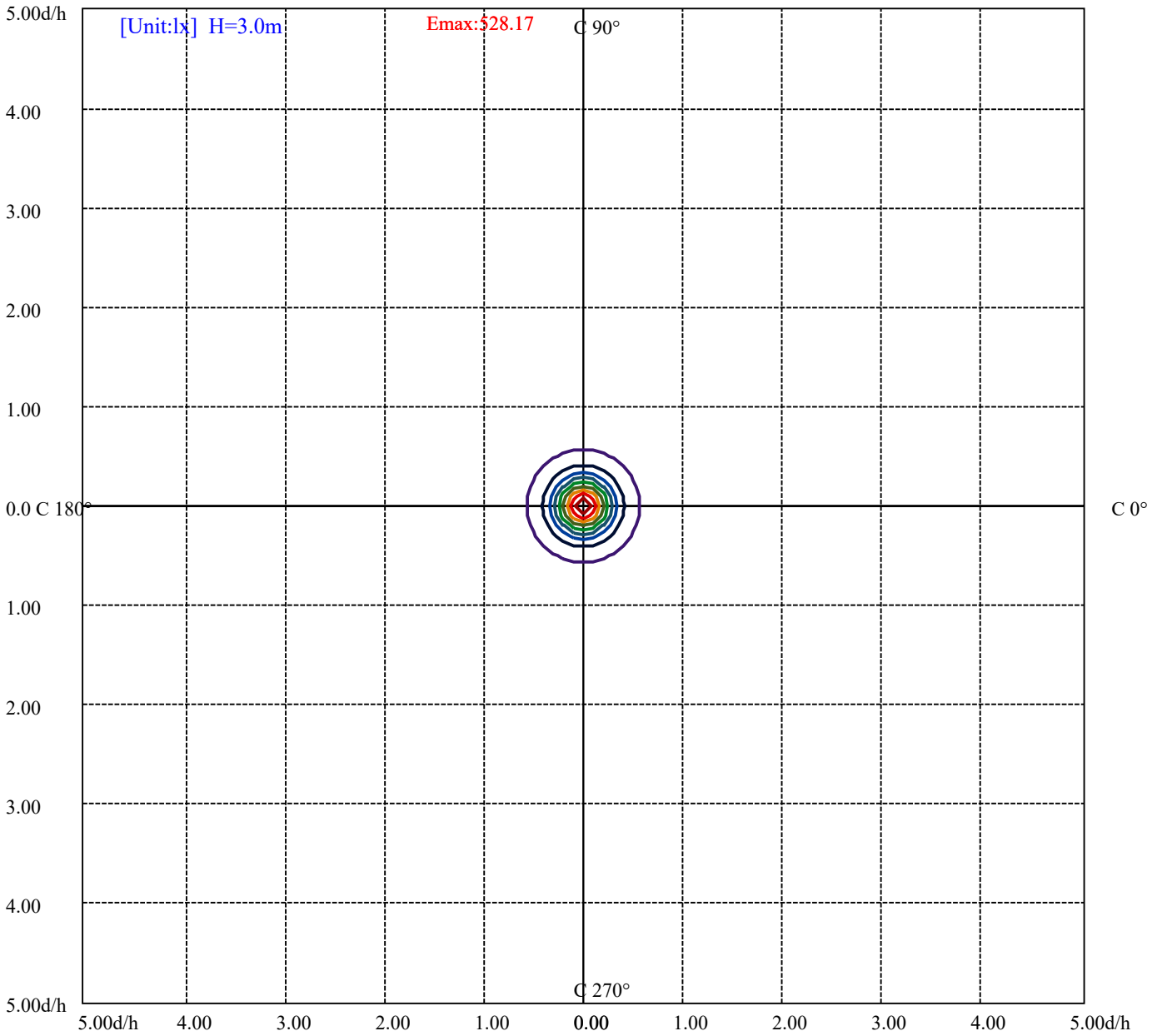
House

[Unit:cd]

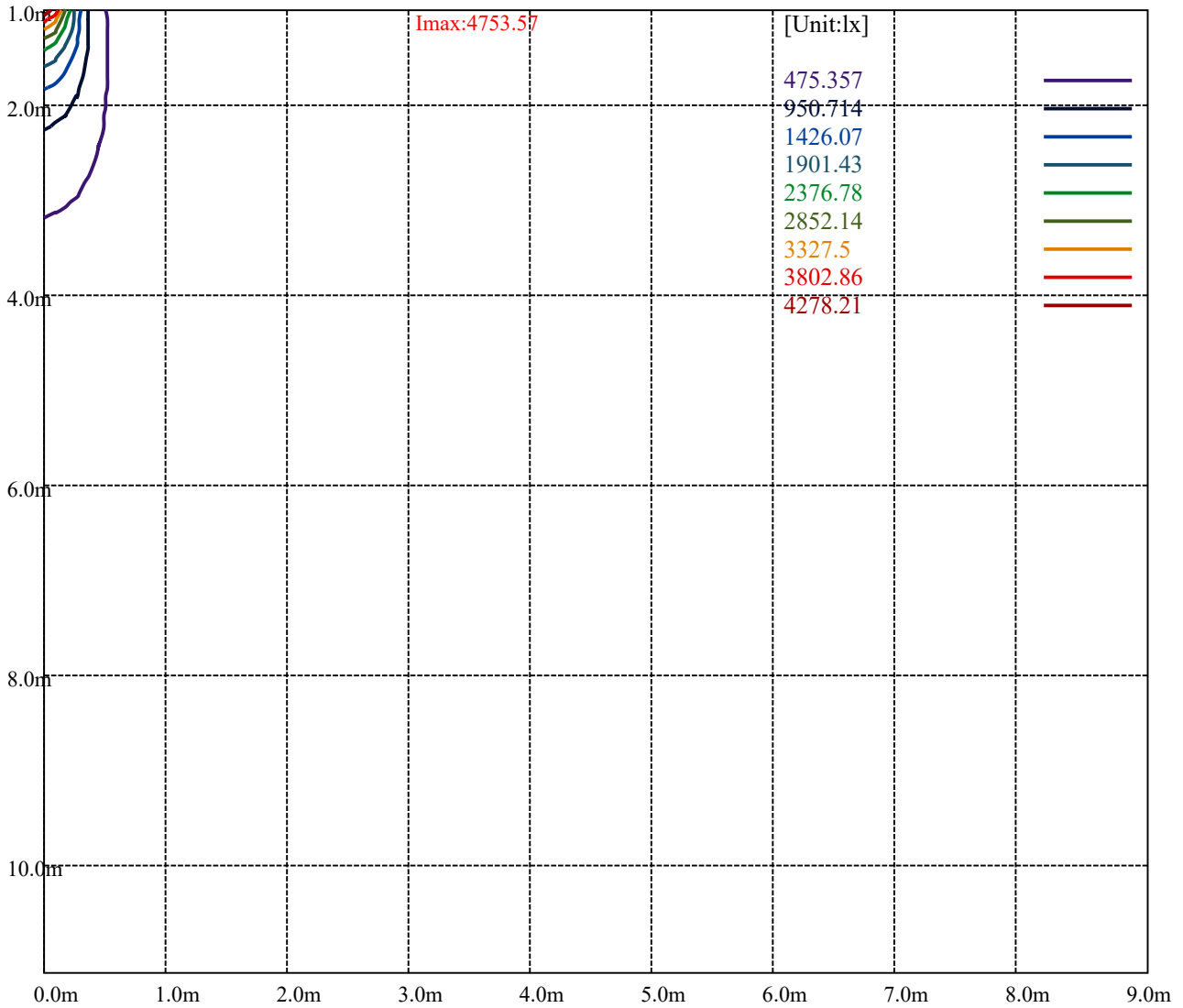
Road

Imax:4753.57

(10%Imax) 475.357	—
(20%Imax) 950.714	—
(30%Imax) 1426.07	—
(40%Imax) 1901.43	—
(50%Imax) 2376.78	—
(60%Imax) 2852.14	—
(70%Imax) 3327.5	—
(80%Imax) 3802.86	—
(90%Imax) 4278.21	—



- (10%Emax) 52.81733
- (20%Emax) 105.6346
- (30%Emax) 158.4522
- (40%Emax) 211.2689
- (50%Emax) 264.0867
- (60%Emax) 316.9033
- (70%Emax) 369.7211
- (80%Emax) 422.5378
- (90%Emax) 475.3556



Luminance Table

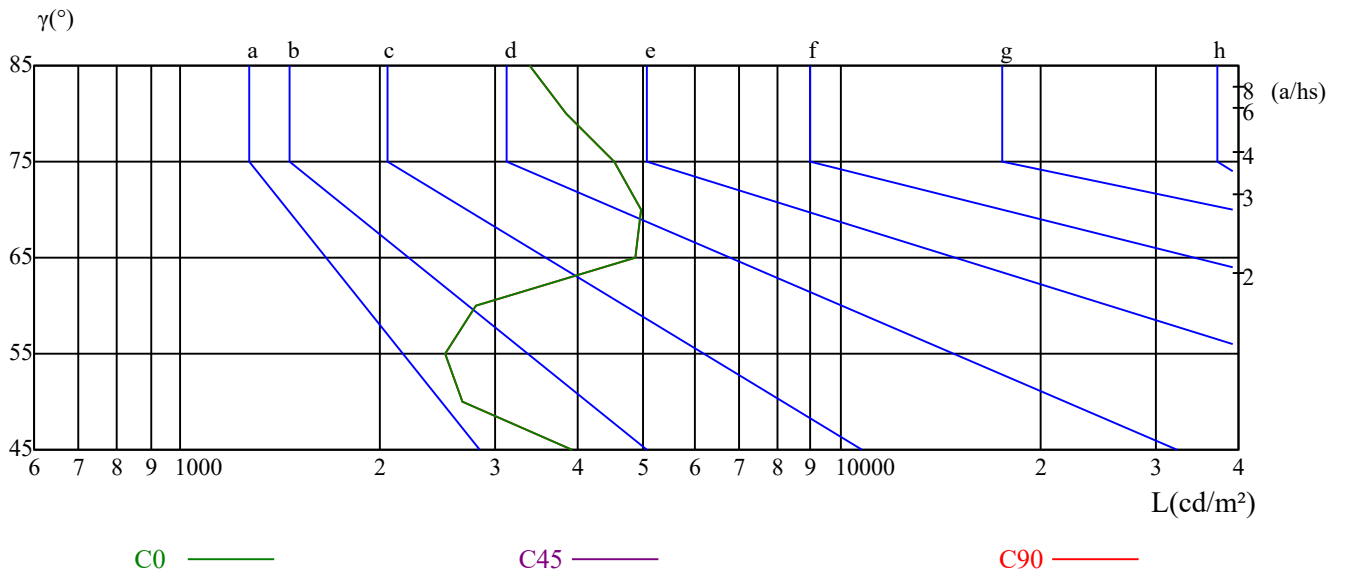
γ	45	50	55	60	65	70	75	80	85
C0	3910	2674	2509	2792	4876	4984	4548	3844	3382
C45	0	0	0	0	0	0	0	0	0
C90	3910	2674	2509	2792	4876	4984	4548	3844	3382

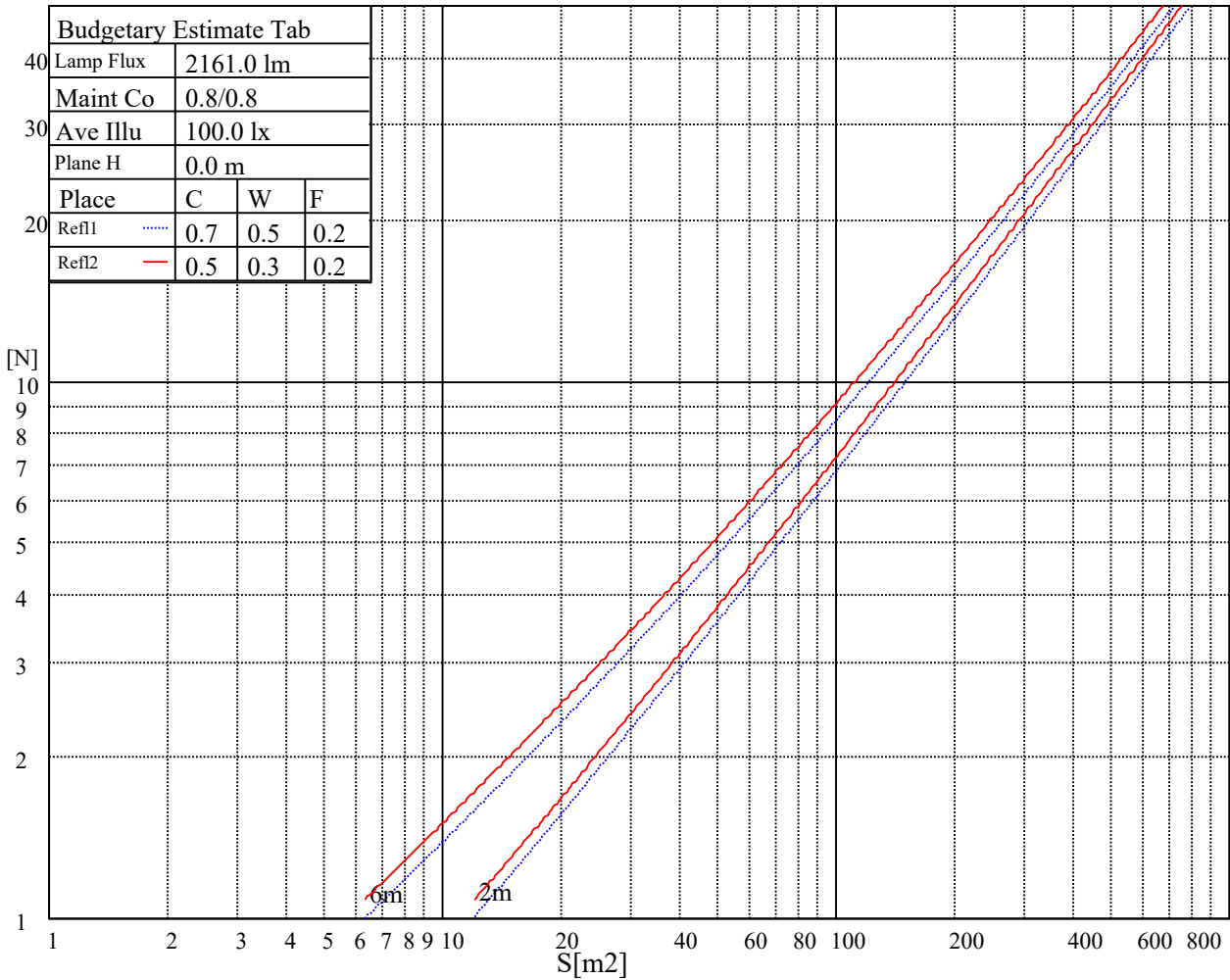
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11713	11713	0	15646	15646	0	28657	28657	0

Glare Table

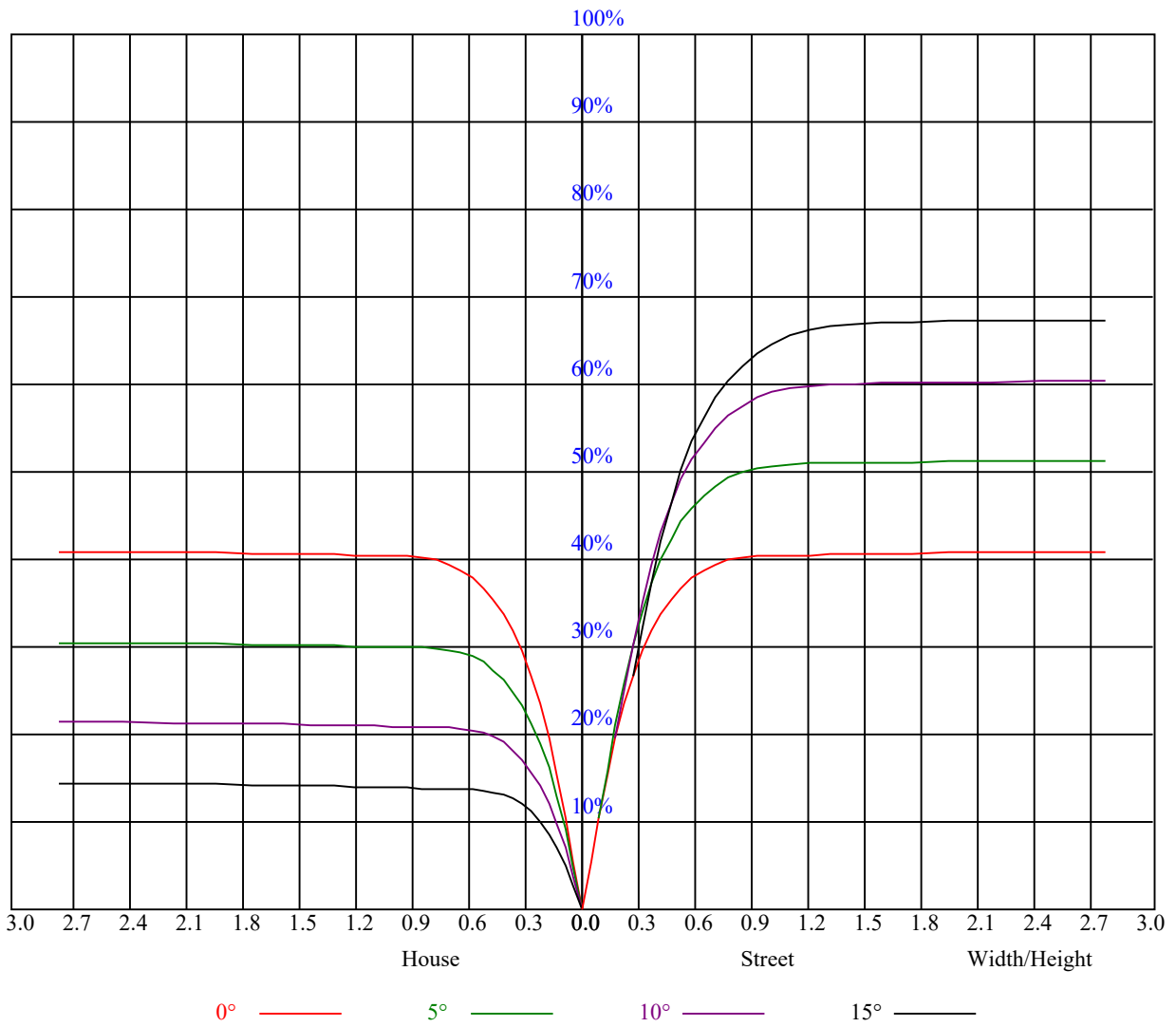
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.99	0.99	0.99	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.78
2	0.87	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.80	0.79	0.77	0.78	0.77	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.74	0.72	0.75	0.73	0.71	0.70
4	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.72	0.70	0.68	0.66
5	0.74	0.69	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
6	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
7	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.58	0.57
8	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
9	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.53	0.52
10	0.59	0.54	0.52	0.58	0.54	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.57	0.53	0.51	0.50



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	4740.36	4544.36	3586.37	2517.73	1566.91	1008.63	768.59	476.79	278.03
45.0	4750.82	4437.55	3480.67	2352.56	1487.62	971.19	725.64	425.04	206.24
90.0	4751.37	4153.45	3129.96	2082.78	1207.39	878.48	649.61	352.20	95.96
135.0	4771.74	4307.06	3274.75	2209.41	1376.41	916.14	676.09	391.45	121.56
180.0	4740.36	4039.49	3074.90	1988.64	1092.59	869.67	635.68	335.24	82.64
225.0	4750.82	4194.20	3167.95	2064.06	1338.42	894.94	667.06	383.25	106.81
270.0	4751.37	4503.61	3501.59	2394.40	1540.48	999.82	740.51	460.82	285.74
315.0	4771.74	4348.35	3383.22	2261.17	1445.78	949.12	707.14	431.15	154.98
360.0	4740.36	4544.36	3586.37	2517.73	1566.91	1008.63	768.59	476.79	278.03

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	20.81	10.13	9.47	8.75	12.44	14.37	12.61	9.47	8.59
45.0	16.13	10.85	9.52	8.92	15.14	16.30	13.27	10.52	8.59
90.0	11.67	10.63	9.58	10.46	14.92	15.64	13.82	11.12	8.64
135.0	12.06	10.52	9.69	9.52	16.19	16.30	14.42	10.46	8.53
180.0	11.40	10.30	9.74	9.52	16.52	17.95	14.81	9.80	8.64
225.0	10.57	9.58	8.86	8.64	13.49	13.98	12.55	9.69	8.42
270.0	15.36	9.58	8.92	8.53	11.67	12.88	12.50	10.96	8.75
315.0	13.27	9.74	8.97	8.75	13.54	14.20	12.99	10.02	8.53
360.0	20.81	10.13	9.47	8.75	12.44	14.37	12.61	9.47	8.59

C/γ(°)	90.0
0.0	7.71
45.0	7.60
90.0	7.60
135.0	7.65
180.0	7.65
225.0	7.60
270.0	7.65
315.0	7.65
360.0	7.71