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Nata

LumCAT: 3-1742-N
Luminaire: 92.70.065.00+92.70.061.00
Report No: NATA0100
Test No: GC20180712010
LampCAT: BRIDGELUX V9 HD
Lamp flux(lm): 1191.0
Number of Lamps: 1
Length(mm): 86
Phm Type: C

Voltage(V): 34.1000
Current(A): 0.3000
Power (W): 10.2300
PF: 0.0000
Ballast type: DC
Width(mm): 86
Height(mm): 0

Photometric Results

Lumens(lm): 940.03
Efficiency(%): 78.93%
Lumens(lm)/Power(W): 92.25
Central intensity(cd): 4011.685
Maximum intensity(cd): 4011.685
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=22.9
 [C90/270]Total=22.9
Field angle(10%Imax): [C0/180]Total=44.0
 [C90/270]Total=44.0
Maximum s/h(1/2): C0_180=0.39 C90_270=0.39
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 79.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.152%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4011.685	3.839	3.839	.322%	.408%
2.0	3942.520	30.176	34.015	2.534%	3.618%
4.0	3755.259	57.450	91.465	4.824%	9.730%
6.0	3439.580	78.851	170.315	6.621%	18.118%
8.0	2994.518	91.400	261.716	7.674%	27.841%
10.0	2434.938	92.731	354.446	7.786%	37.706%
12.0	1836.406	83.736	438.182	7.031%	46.614%
14.0	1291.396	68.517	506.7	5.753%	53.903%
16.0	911.245	55.086	561.785	4.625%	59.763%
18.0	643.726	43.626	605.412	3.663%	64.404%
20.0	497.854	37.344	642.755	3.136%	68.376%
22.0	401.740	33.005	675.761	2.771%	71.887%
24.0	327.785	29.239	705	2.455%	74.998%
26.0	276.369	26.570	731.571	2.231%	77.824%
28.0	229.014	23.580	755.15	1.980%	80.333%
30.0	192.828	21.145	776.295	1.775%	82.582%
32.0	163.118	18.957	795.252	1.592%	84.599%
34.0	139.919	17.159	812.412	1.441%	86.424%
36.0	120.229	15.499	827.911	1.301%	88.073%
38.0	104.277	14.080	841.99	1.182%	89.571%
40.0	90.802	12.801	854.791	1.075%	90.933%
42.0	77.919	11.434	866.225	.960%	92.149%
44.0	65.214	9.935	876.161	.834%	93.206%
46.0	53.852	8.496	884.656	.713%	94.110%
48.0	44.197	7.203	891.86	.605%	94.876%
50.0	35.931	6.037	897.896	.507%	95.518%
52.0	29.703	5.133	903.029	.431%	96.064%
54.0	24.294	4.310	907.34	.362%	96.523%
56.0	20.123	3.659	910.999	.307%	96.912%
58.0	16.847	3.133	914.132	.263%	97.245%
60.0	14.294	2.715	916.847	.228%	97.534%
62.0	12.415	2.404	919.251	.202%	97.790%
64.0	11.300	2.227	921.478	.187%	98.027%
66.0	10.516	2.107	923.585	.177%	98.251%
68.0	9.800	1.993	925.578	.167%	98.463%
70.0	9.167	1.889	927.467	.159%	98.664%
72.0	8.548	1.783	929.25	.150%	98.853%
74.0	7.983	1.683	930.933	.141%	99.033%

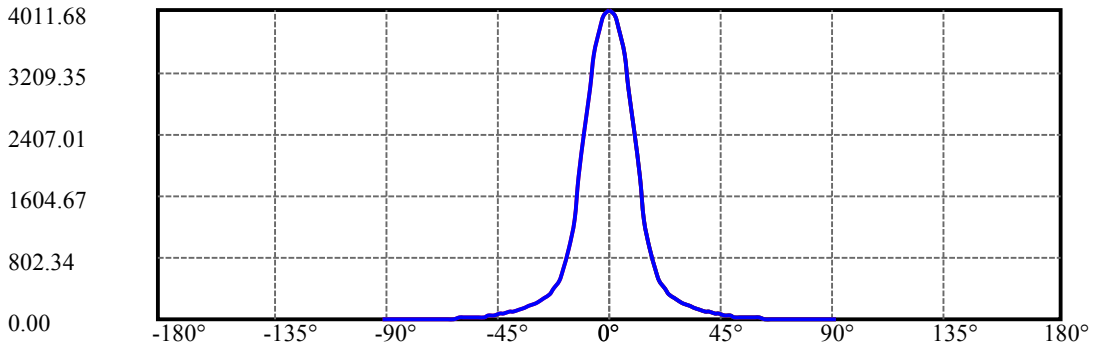
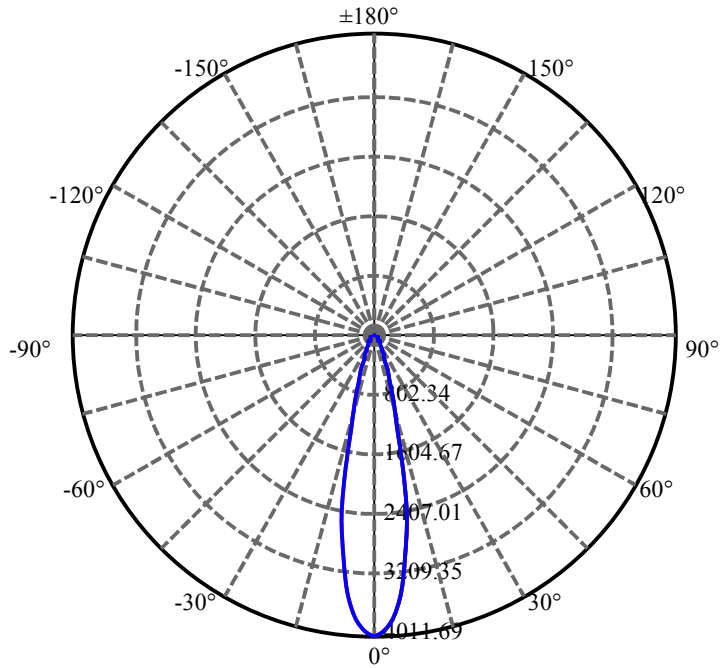
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.398	1.574	932.507	.132%	99.200%
78.0	6.806	1.460	933.968	.123%	99.355%
80.0	6.228	1.345	935.313	.113%	99.498%
82.0	5.678	1.233	936.546	.104%	99.630%
84.0	5.106	1.114	937.66	.094%	99.748%
86.0	4.597	1.006	938.665	.084%	99.855%
88.0	4.198	0.920	939.585	.077%	99.953%
90.0	4.033	0.442	940.028	.037%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	776.30	65.18%	82.58%
0-40	854.79	71.77%	90.93%
0-60	916.85	76.98%	97.53%
0-90	939.59	78.89%	99.95%
0-120	939.59	78.89%	99.95%
0-180	940.03	78.93%	100.00%
60-90	25.45	2.14%	2.71%
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%
0-27.73	752.02	63.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	354.45
10-20	288.31
20-30	133.54
30-40	78.50
40-50	43.11
50-60	18.95
60-70	10.62
70-80	7.85
80-90	4.27
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



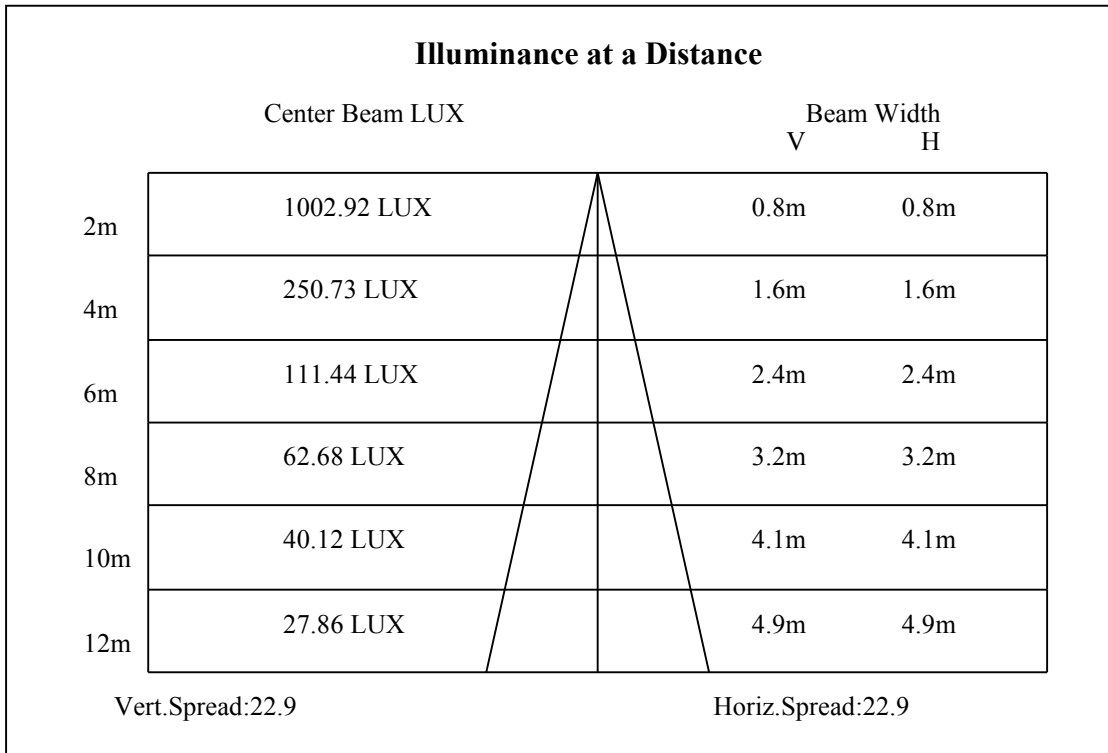
C0(Max): —————

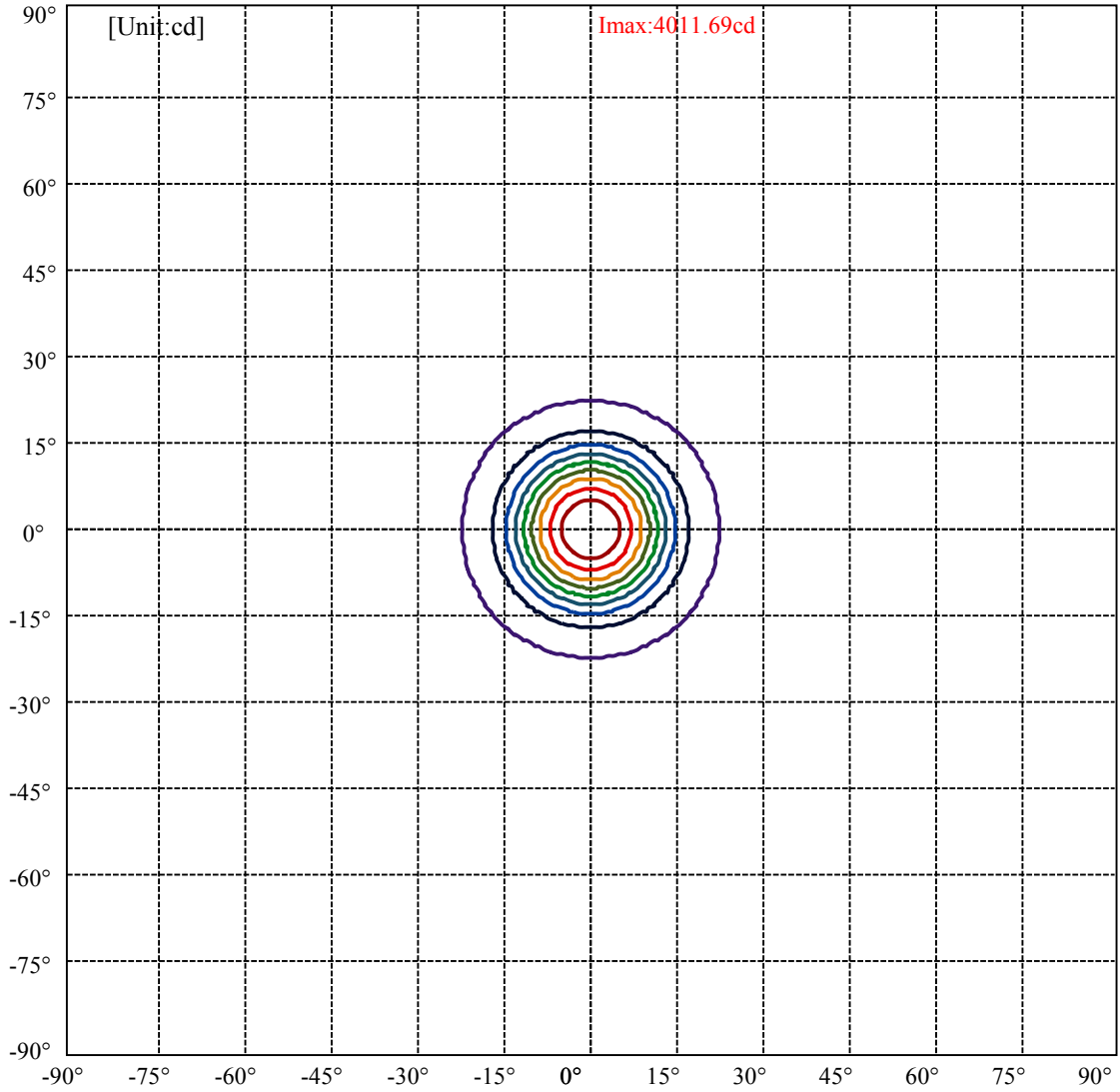
C0/C180: —————

C90/C270: —————

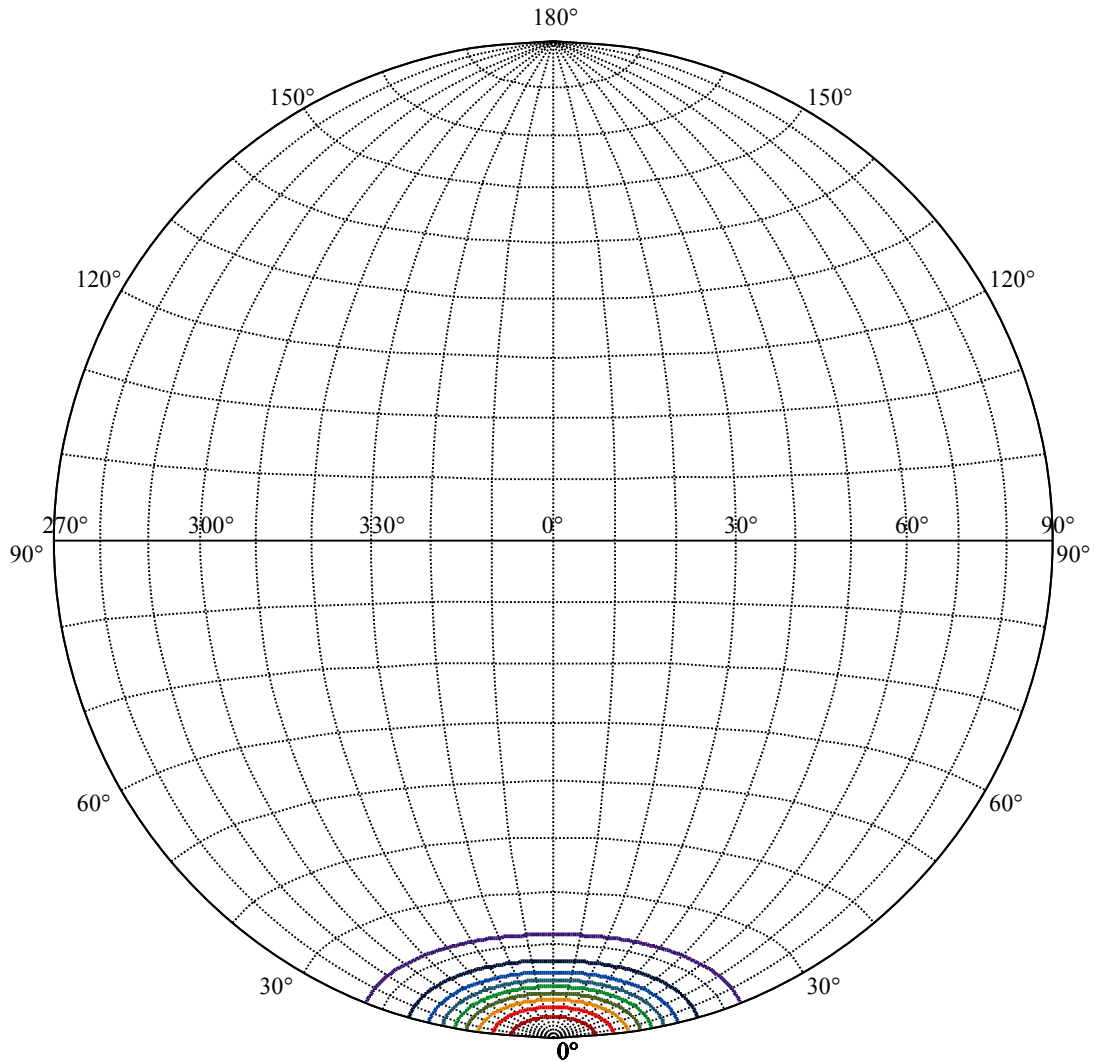
Field angle(10%Imax):C0/180Left:22.0 Right:22.0
:C90/270Left:22.0 Right:22.0

Beam Angle(50%Imax):C0/180Left:11.4 Right:11.4
:C90/270Left:11.4 Right:11.4





(10%Imax) 401.168	—
(20%Imax) 802.337	—
(30%Imax) 1203.51	—
(40%Imax) 1604.67	—
(50%Imax) 2005.84	—
(60%Imax) 2407.01	—
(70%Imax) 2808.18	—
(80%Imax) 3209.35	—
(90%Imax) 3610.52	—



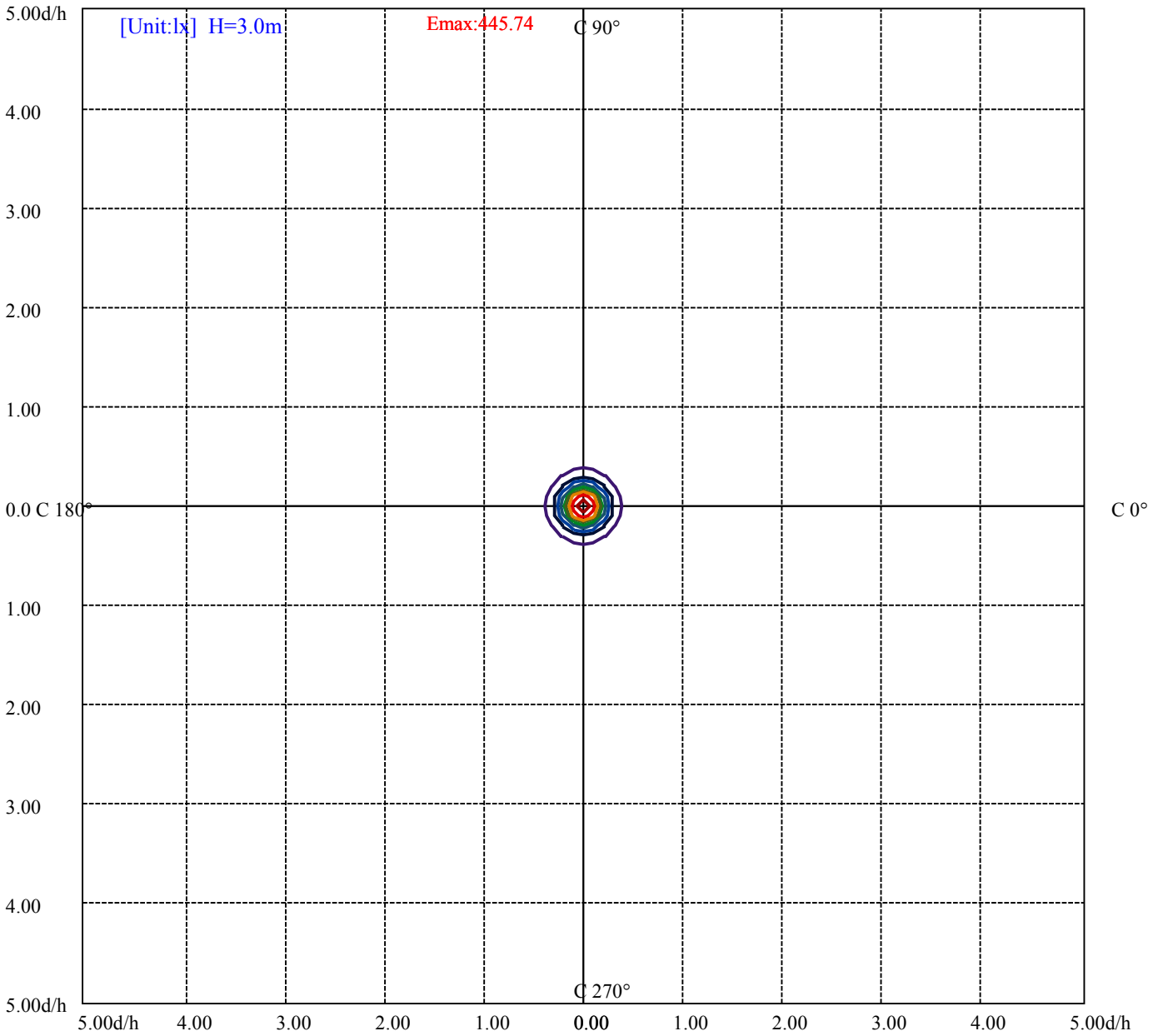
House

[Unit:cd]

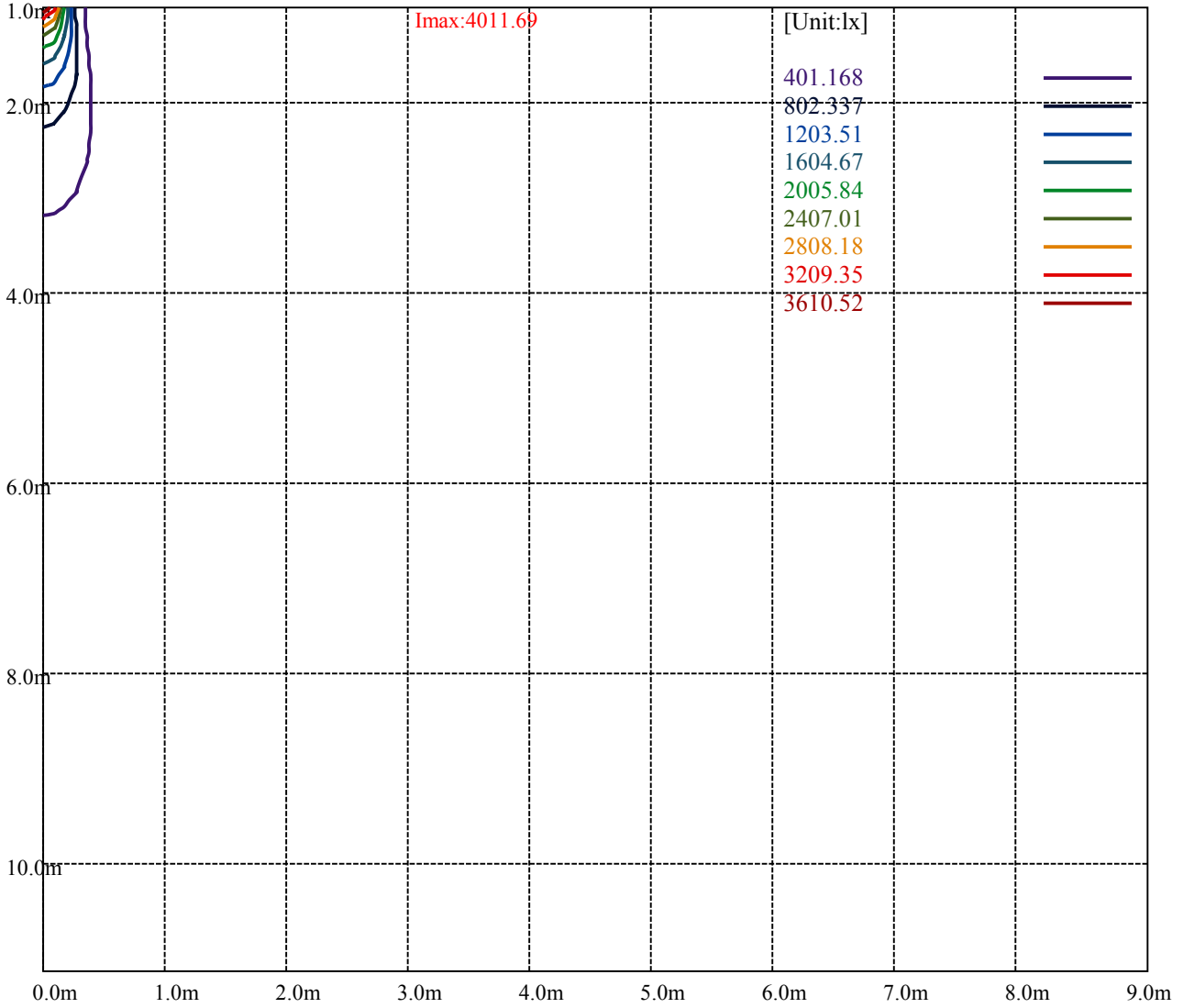
Road

Imax:4011.69

(10%Imax) 401.168	—
(20%Imax) 802.337	—
(30%Imax) 1203.51	—
(40%Imax) 1604.67	—
(50%Imax) 2005.84	—
(60%Imax) 2407.01	—
(70%Imax) 2808.18	—
(80%Imax) 3209.35	—
(90%Imax) 3610.52	—



(10%Emax) 44.57422	—
(20%Emax) 89.14845	—
(30%Emax) 133.7222	—
(40%Emax) 178.2967	—
(50%Emax) 222.8711	—
(60%Emax) 267.4456	—
(70%Emax) 312.02	—
(80%Emax) 356.5934	—
(90%Emax) 401.1678	—



Luminance Table

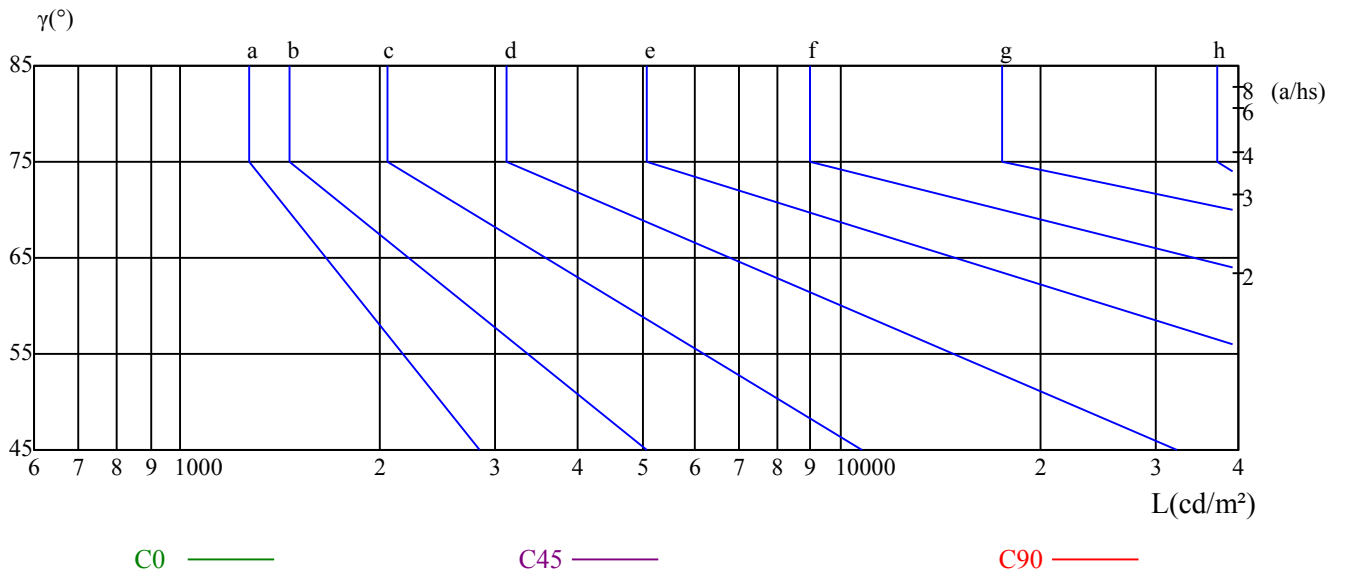
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

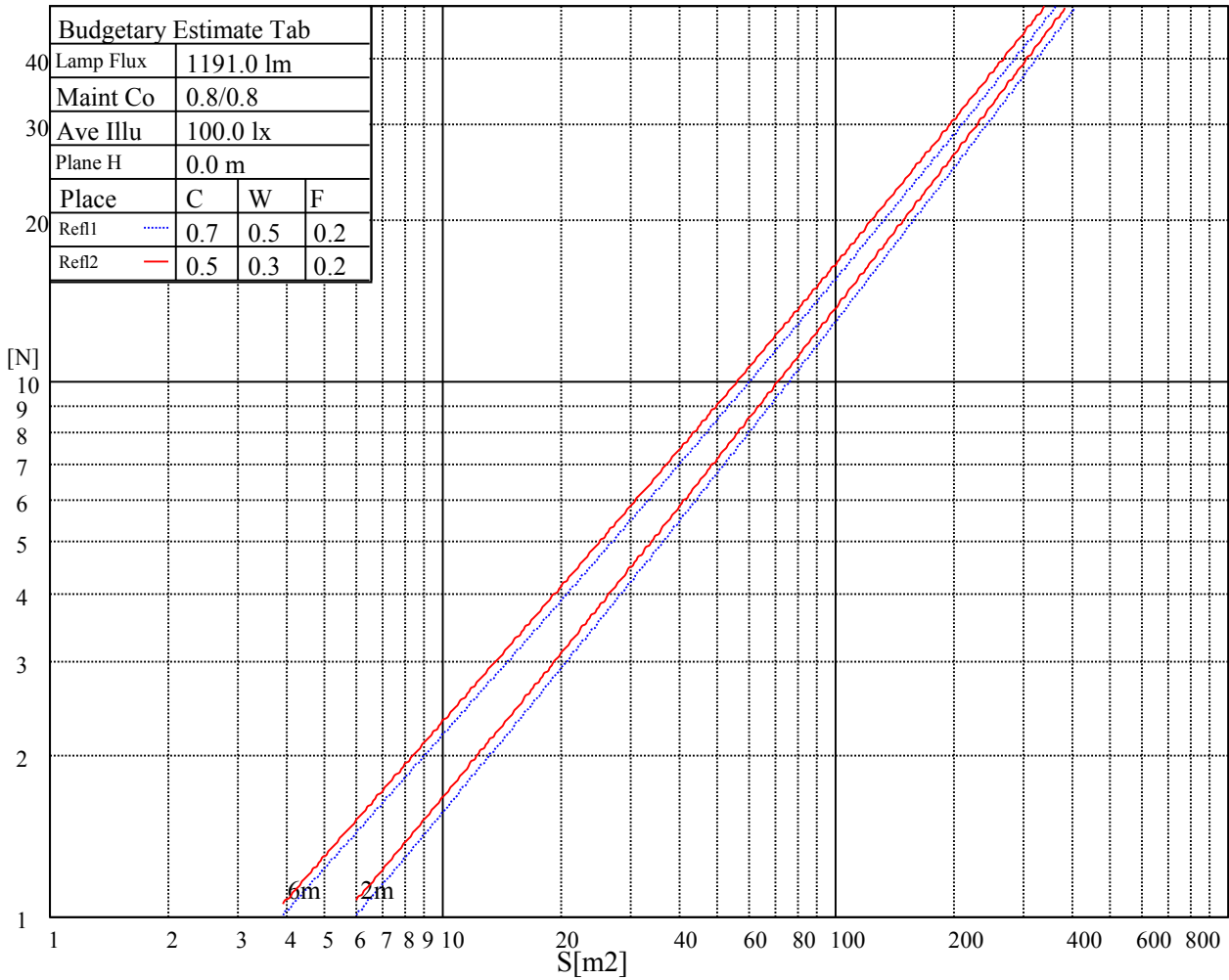
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

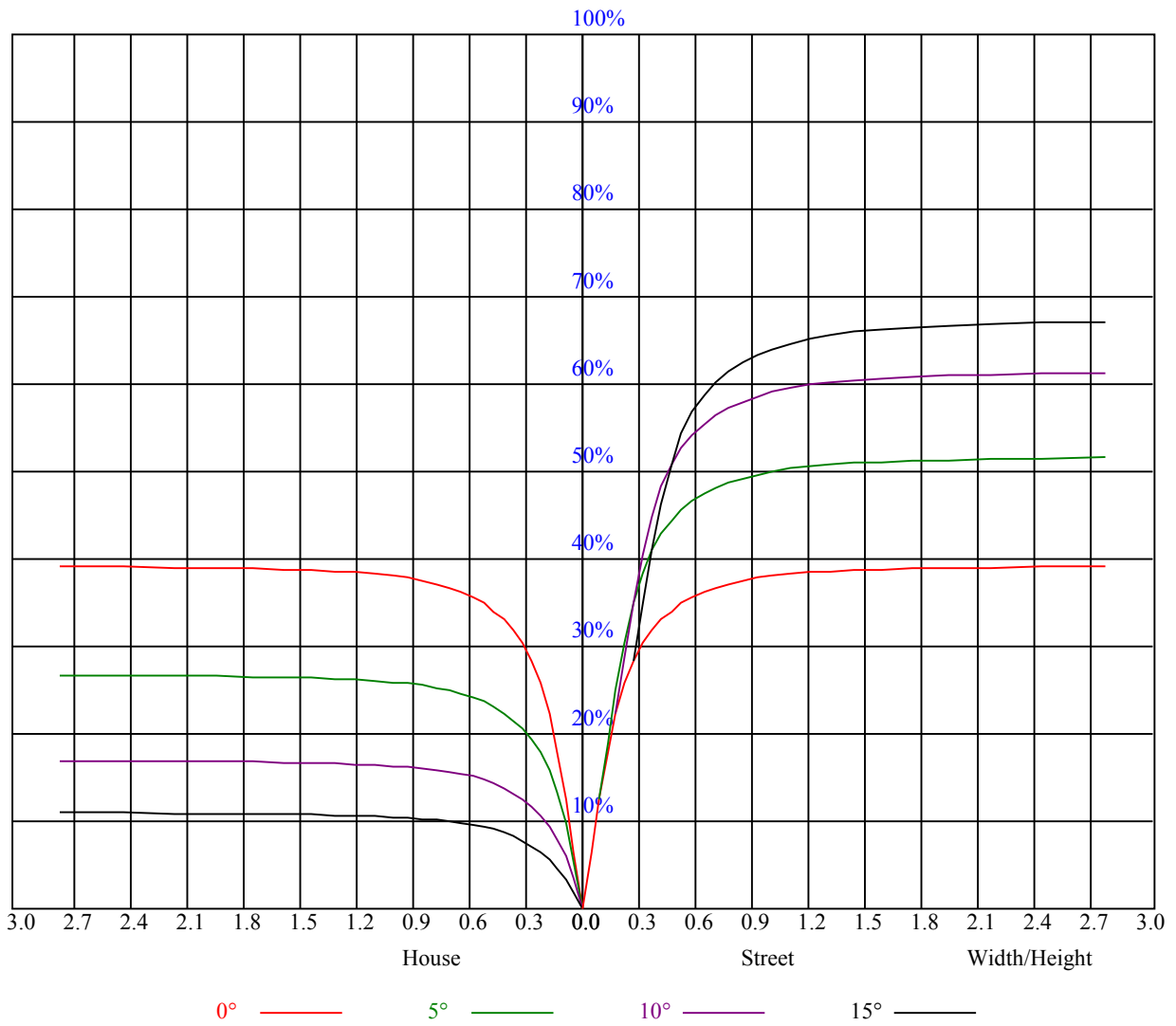
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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



Intensity data(cd)

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	4023.52	3912.86	3694.84	3371.65	2935.61	2425.78	1813.56	1294.38	873.75
45.0	4011.41	3843.49	3608.95	3186.66	2657.57	2084.44	1476.06	1015.24	726.74
90.0	4002.05	3875.42	3596.28	3188.32	2625.64	1951.20	1414.40	983.97	692.99
135.0	4009.76	3982.23	3814.86	3494.98	3017.64	2362.47	1762.91	1211.79	832.45
180.0	4023.52	4004.80	3856.15	3547.83	3047.37	2479.19	1809.70	1074.98	877.32
225.0	4011.41	4020.77	3895.79	3662.90	3275.86	2761.63	2159.31	1582.87	1085.71
270.0	4002.05	3991.59	3862.76	3646.94	3340.27	2901.47	2319.53	1754.10	1227.21
315.0	4009.76	3909.00	3712.45	3417.35	3056.18	2513.32	1935.78	1413.85	973.78
360.0	4023.52	3912.86	3694.84	3371.65	2935.61	2425.78	1813.56	1294.38	873.75
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	610.58	476.79	394.20	322.63	279.69	224.35	191.49	162.03	140.23
45.0	539.55	425.04	351.26	284.09	233.88	197.10	167.43	141.61	122.17
90.0	520.94	420.85	337.39	274.40	231.62	195.78	165.17	141.38	121.29
135.0	602.32	464.68	380.44	312.17	279.14	214.72	183.28	151.41	130.37
180.0	611.13	486.53	389.74	321.31	267.02	225.95	189.67	161.92	136.93
225.0	747.50	573.08	454.93	370.20	306.39	255.68	214.78	182.35	155.53
270.0	854.48	610.58	486.15	396.41	325.93	280.24	228.15	192.64	165.11
315.0	663.32	525.29	419.81	341.07	287.28	238.28	202.66	171.61	147.72
360.0	610.58	476.79	394.20	322.63	279.69	224.35	191.49	162.03	140.23
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	122.17	106.37	94.42	82.14	69.32	57.31	46.91	37.88	31.38
45.0	107.08	93.54	83.03	70.03	58.36	48.23	39.86	32.48	26.98
90.0	102.24	90.62	78.40	65.74	54.56	45.04	36.72	30.45	25.16
135.0	111.54	96.18	82.58	69.81	58.08	48.12	39.81	32.59	27.25
180.0	118.10	102.35	87.98	75.04	62.71	51.15	42.45	34.52	28.41
225.0	131.75	114.30	97.95	84.73	70.42	58.86	47.68	38.92	31.99
270.0	141.49	118.54	103.40	89.63	75.76	63.15	51.64	41.51	34.36
315.0	127.46	112.32	98.66	86.22	72.51	58.97	48.50	39.09	32.10
360.0	122.17	106.37	94.42	82.14	69.32	57.31	46.91	37.88	31.38
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	25.49	20.70	17.45	14.59	12.61	11.56	10.74	9.97	9.36
45.0	22.08	18.17	15.53	13.16	11.84	10.96	10.24	9.52	8.92
90.0	20.48	17.34	14.59	12.55	11.40	10.63	9.91	9.30	8.64
135.0	22.35	18.66	15.80	13.60	11.84	11.01	10.24	9.63	9.03
180.0	23.62	19.71	16.46	14.20	12.22	11.07	10.35	9.63	9.03
225.0	26.21	21.91	18.06	15.25	13.16	11.67	10.79	10.08	9.36
270.0	27.97	22.74	19.05	15.80	13.38	11.84	10.96	10.19	9.58
315.0	26.15	21.75	17.84	15.20	12.88	11.67	10.90	10.08	9.41
360.0	25.49	20.70	17.45	14.59	12.61	11.56	10.74	9.97	9.36
C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	8.75	8.09	7.54	6.99	6.33	5.73	5.18	4.68	4.18
45.0	8.31	7.76	7.16	6.50	5.95	5.40	4.90	4.35	4.02
90.0	8.09	7.54	6.94	6.39	5.84	5.34	4.73	4.29	4.02
135.0	8.42	7.87	7.32	6.72	6.11	5.62	4.96	4.46	4.13
180.0	8.42	7.82	7.27	6.66	6.11	5.56	5.01	4.57	4.13
225.0	8.70	8.20	7.60	6.99	6.44	5.89	5.34	4.73	4.35
270.0	8.86	8.31	7.76	7.16	6.66	6.06	5.45	4.90	4.46
315.0	8.81	8.26	7.60	7.05	6.39	5.84	5.29	4.79	4.29
360.0	8.75	8.09	7.54	6.99	6.33	5.73	5.18	4.68	4.18

Intensity data(cd)

C/γ(°)	90.0
0.0	4.02
45.0	4.02
90.0	4.02
135.0	4.02
180.0	4.02
225.0	4.02
270.0	4.07
315.0	4.07
360.0	4.02