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Nata

LumCAT: 3-1547-A3
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No:
LampCAT: BRIDGELUX V9 HD
Lamp flux(lm): 1141.8
Number of Lamps: 1
Length(mm): 84
Phm Type: C

Voltage(V): 34.0000
Current(A): 0.3000
Power (W): 10.2000
PF: 0.0000
Ballast type: DC
Width(mm): 84
Height(mm): 0

Photometric Results

Lumens(lm): 1057.88
Efficiency(%): 92.65%
Lumens(lm)/Power(W): 105.13
Central intensity(cd): 2575.263
Maximum intensity(cd): 2575.263
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.0
 [C90/270]Total=35.0
Field angle(10%Imax): [C0/180]Total=68.4
 [C90/270]Total=68.4
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.59 C90_270=0.59
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.363%

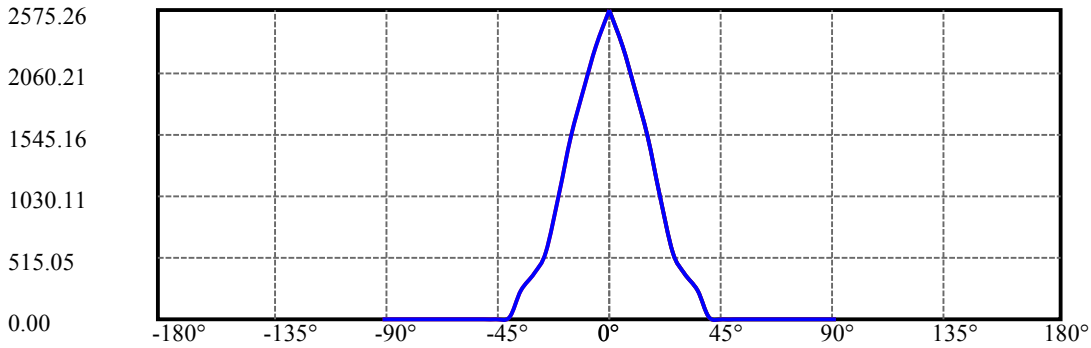
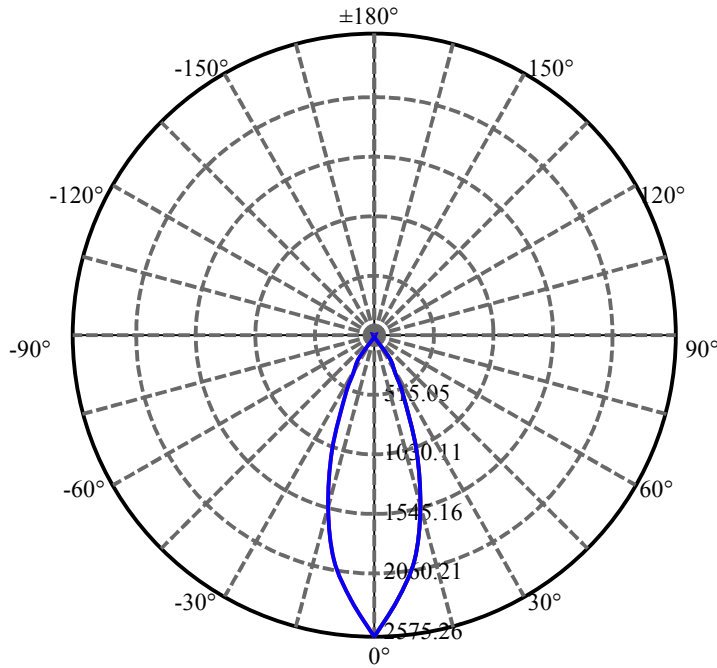
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2575.263	15.401	15.401	1.349%	1.456%
5.0	2275.550	108.711	124.111	9.521%	11.732%
10.0	1941.013	184.752	308.863	16.180%	29.196%
15.0	1525.957	216.485	525.348	18.959%	49.660%
20.0	1052.988	197.408	722.756	17.289%	68.321%
25.0	564.645	130.802	853.557	11.455%	80.686%
30.0	377.219	103.384	956.941	9.054%	90.458%
35.0	234.272	73.655	1030.596	6.451%	97.421%
40.0	12.050	4.246	1034.842	.372%	97.822%
45.0	5.808	2.251	1037.093	.197%	98.035%
50.0	5.340	2.242	1039.336	.196%	98.247%
55.0	5.113	2.296	1041.631	.201%	98.464%
60.0	4.996	2.372	1044.003	.208%	98.688%
65.0	4.886	2.427	1046.431	.213%	98.918%
70.0	4.824	2.485	1048.916	.218%	99.152%
75.0	4.769	2.525	1051.441	.221%	99.391%
80.0	4.749	2.563	1054.004	.224%	99.633%
85.0	4.735	2.585	1056.59	.226%	99.878%
90.0	4.714	1.292	1057.882	.113%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	956.94	83.81%	90.46%
0-40	1034.84	90.63%	97.82%
0-60	1044.00	91.43%	98.69%
0-90	1056.59	92.53%	99.88%
0-120	1056.59	92.53%	99.88%
0-180	1057.88	92.65%	100.00%
60-90	14.96	1.31%	1.41%
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%
0-24.72	846.31	74.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	308.86
10-20	413.89
20-30	234.19
30-40	77.90
40-50	4.49
50-60	4.67
60-70	4.91
70-80	5.09
80-90	2.59
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: —————

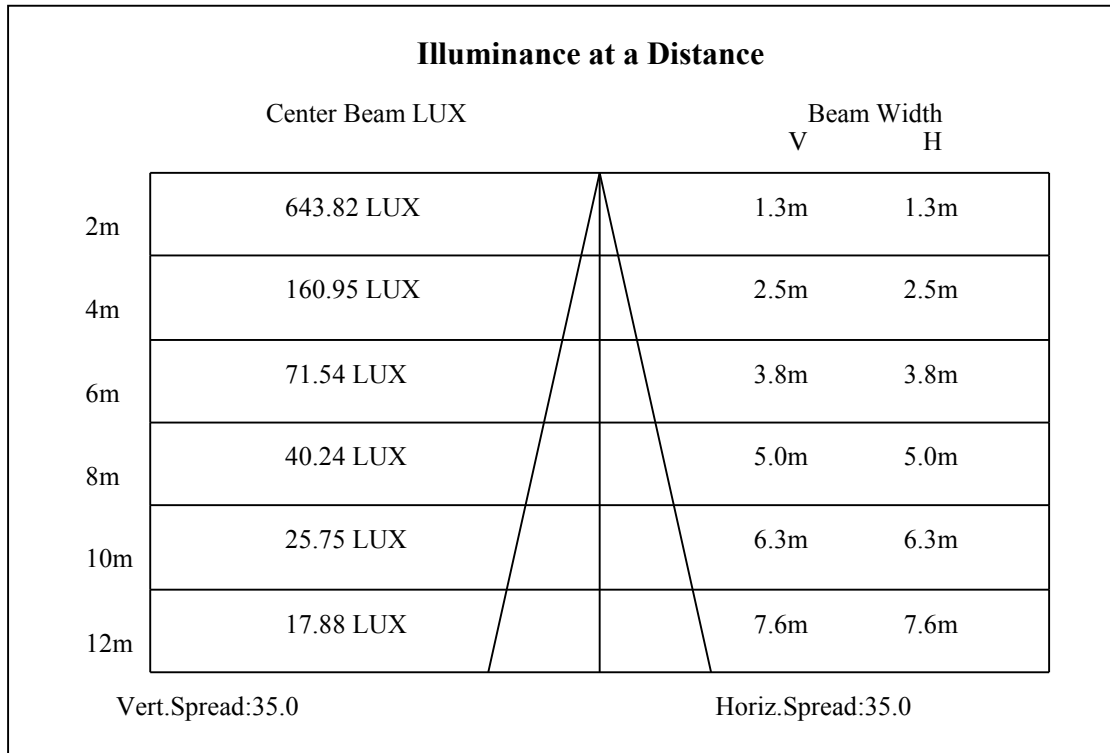
C90/C270: —————

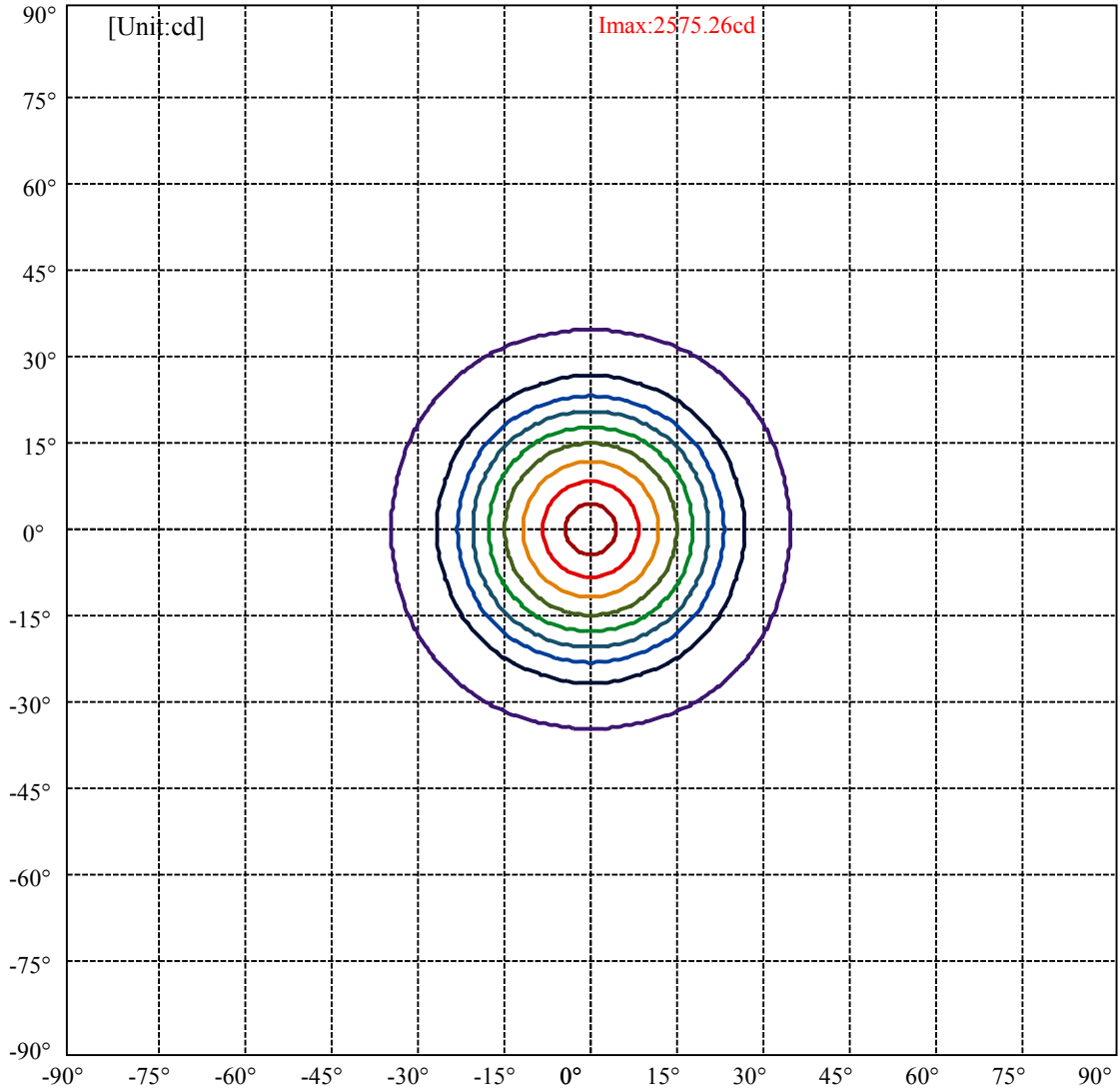
Field angle(10%Imax):C0/180Left:34.2 Right:34.2

:C90/270Left:34.2 Right:34.2

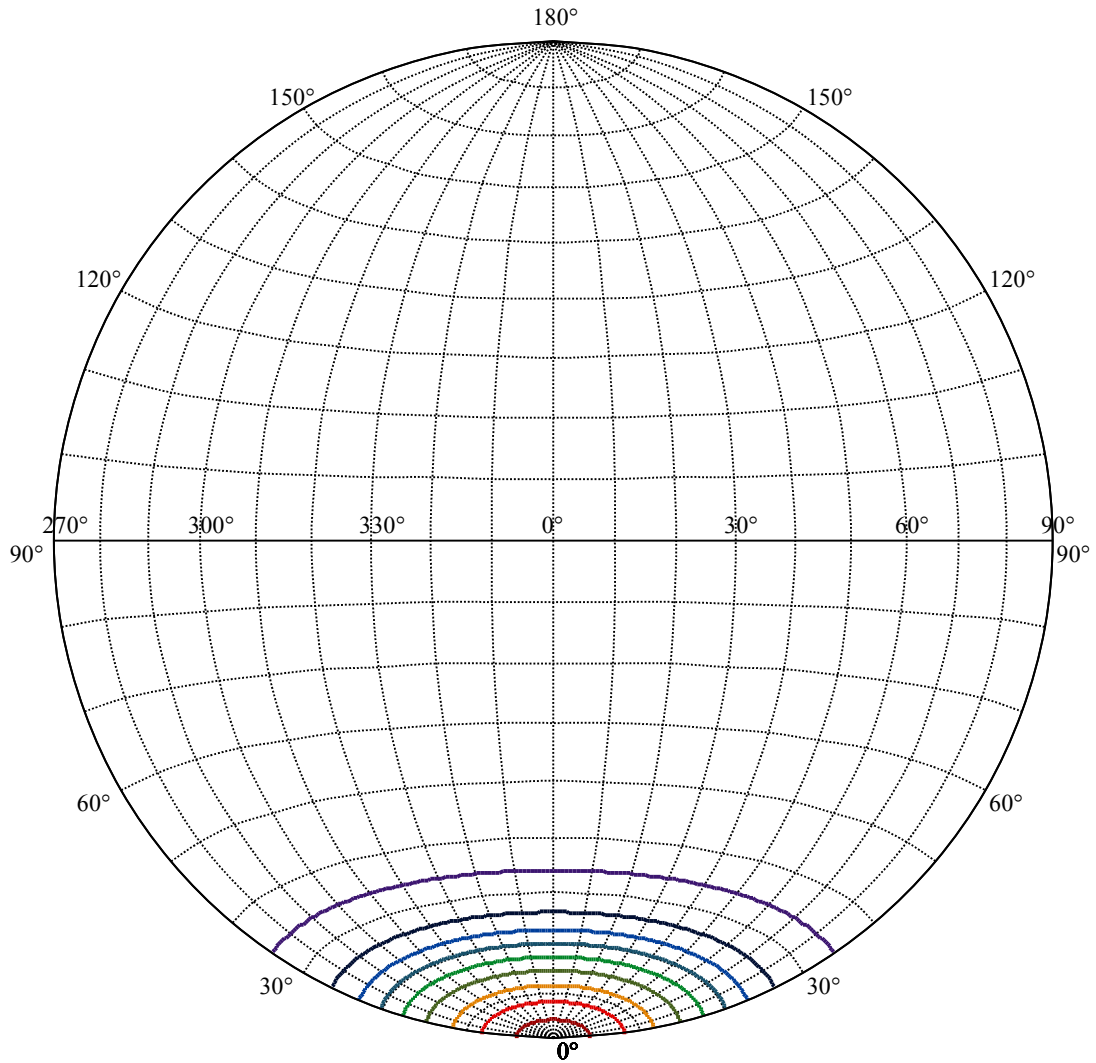
Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5

:C90/270Left:17.5 Right:17.5





(10%Imax) 257.526	—
(20%Imax) 515.053	—
(30%Imax) 772.579	—
(40%Imax) 1030.11	—
(50%Imax) 1287.63	—
(60%Imax) 1545.16	—
(70%Imax) 1802.68	—
(80%Imax) 2060.21	—
(90%Imax) 2317.74	—



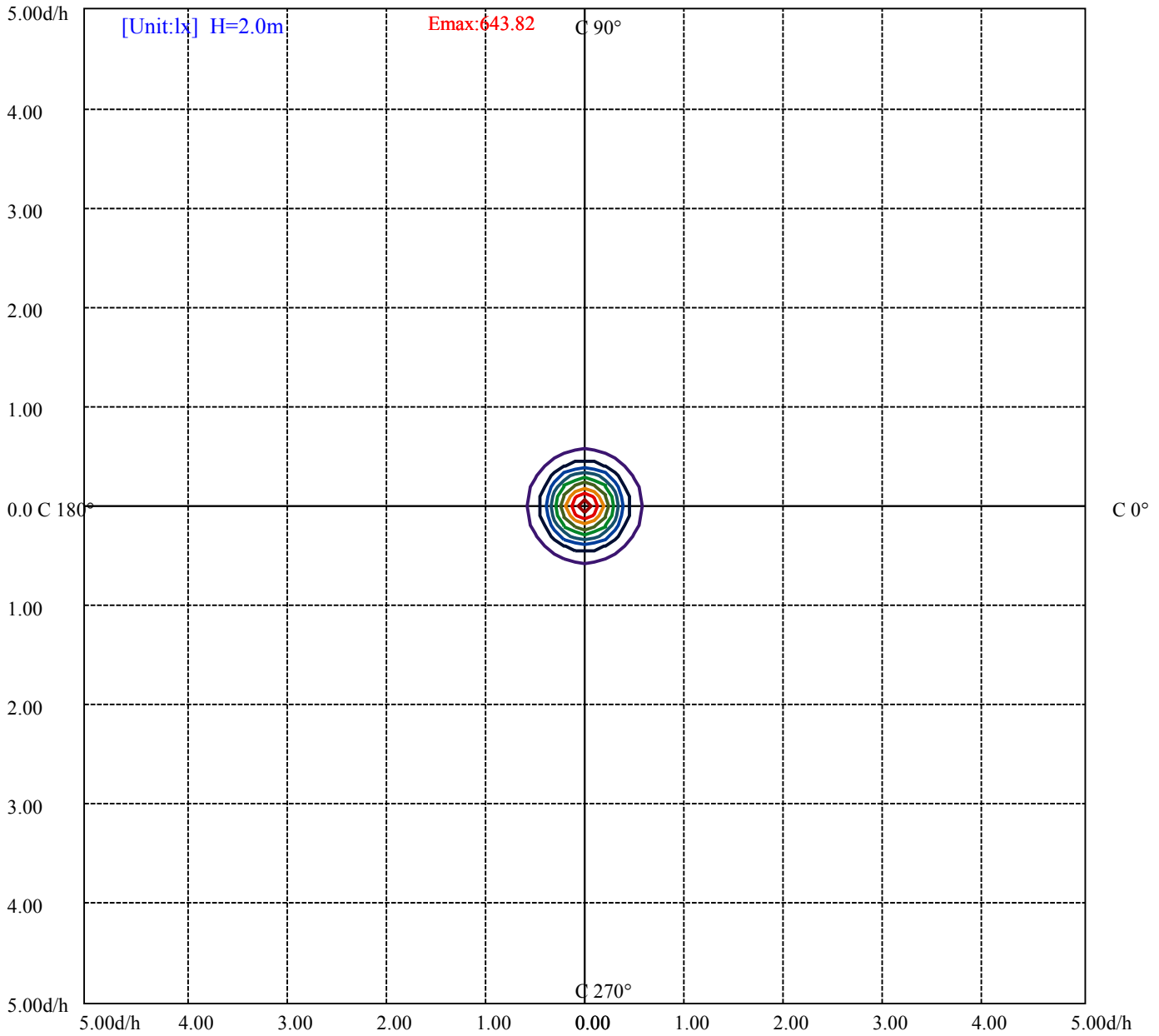
House

[Unit:cd]

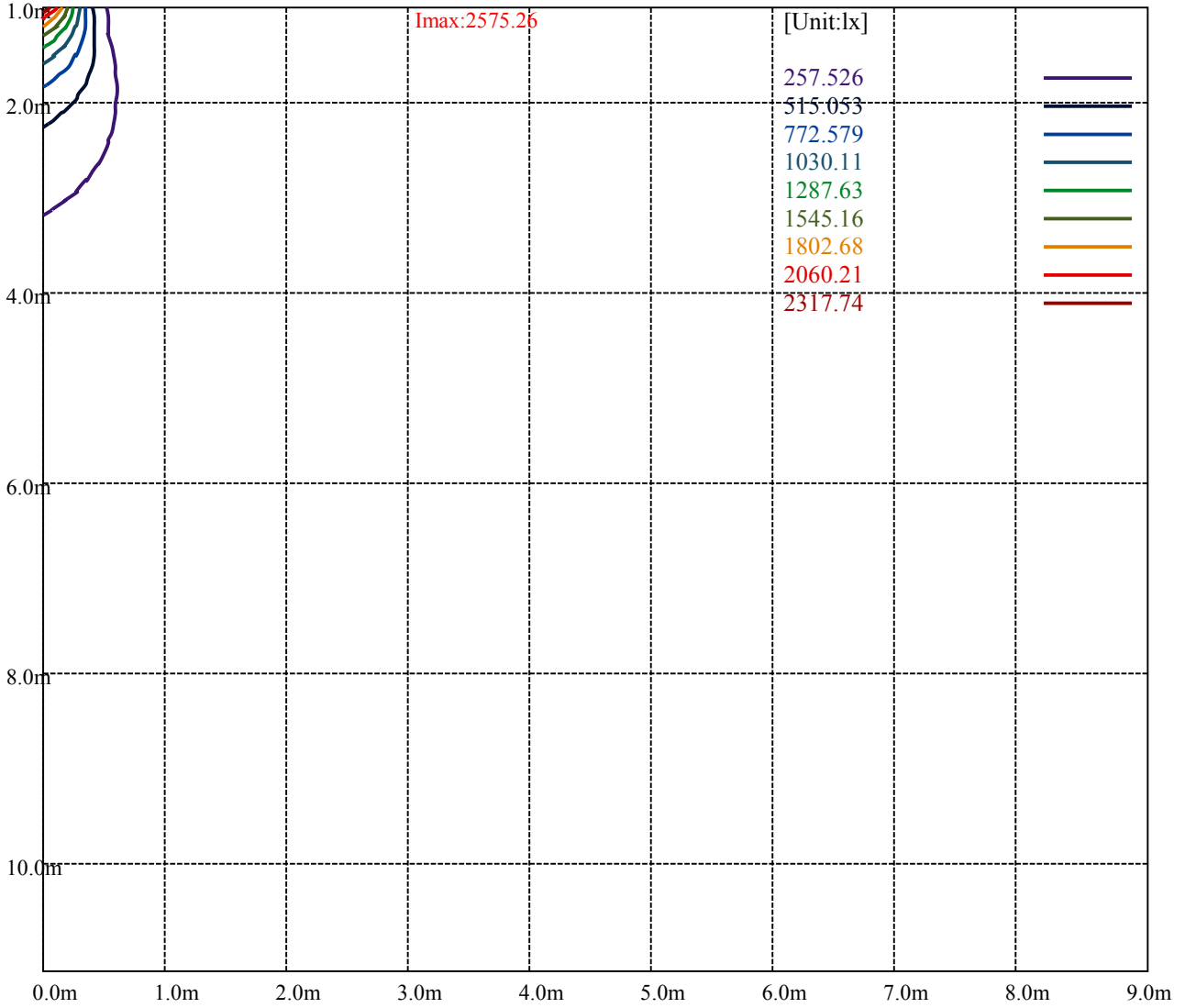
Road

Imax:2575.26

(10%Imax) 257.526	—
(20%Imax) 515.053	—
(30%Imax) 772.579	—
(40%Imax) 1030.11	—
(50%Imax) 1287.63	—
(60%Imax) 1545.16	—
(70%Imax) 1802.68	—
(80%Imax) 2060.21	—
(90%Imax) 2317.74	—



(10%Emax) 64.38125	—
(20%Emax) 128.7628	—
(30%Emax) 193.144	—
(40%Emax) 257.525	—
(50%Emax) 321.9075	—
(60%Emax) 386.2875	—
(70%Emax) 450.67	—
(80%Emax) 515.05	—
(90%Emax) 579.4325	—



Luminance Table

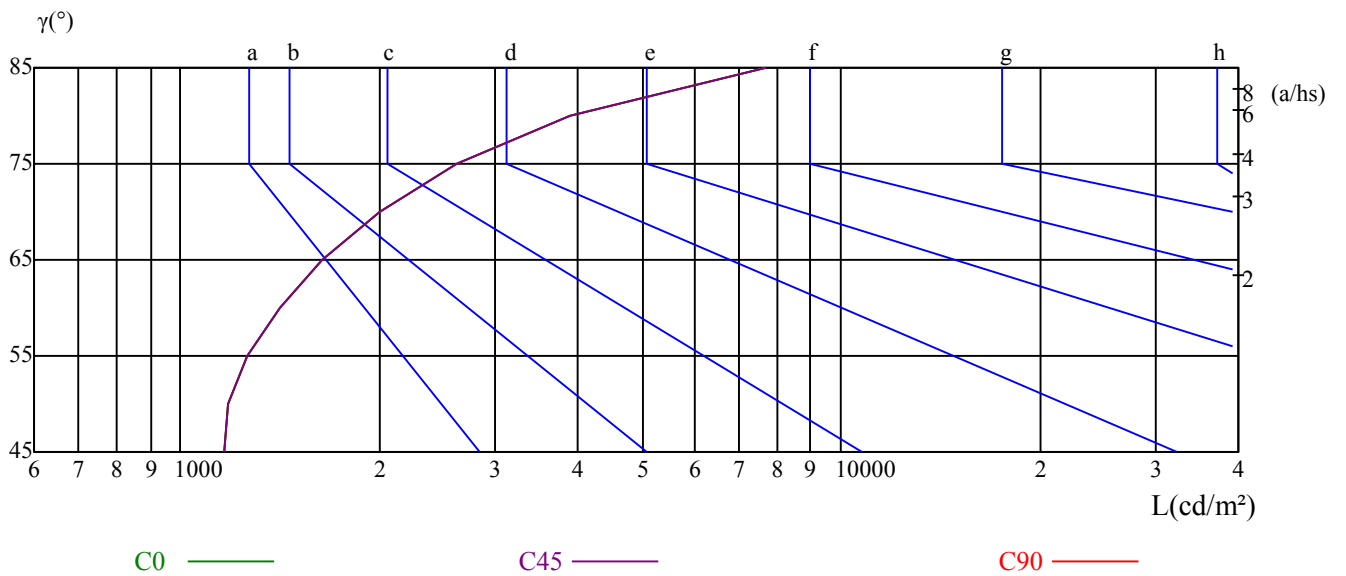
γ	45	50	55	60	65	70	75	80	85
C0	1164	1177	1263	1416	1639	1999	2612	3876	7699
C45	1164	1177	1263	1416	1639	1999	2612	3876	7699
C90	1164	1177	1263	1416	1639	1999	2612	3876	7699

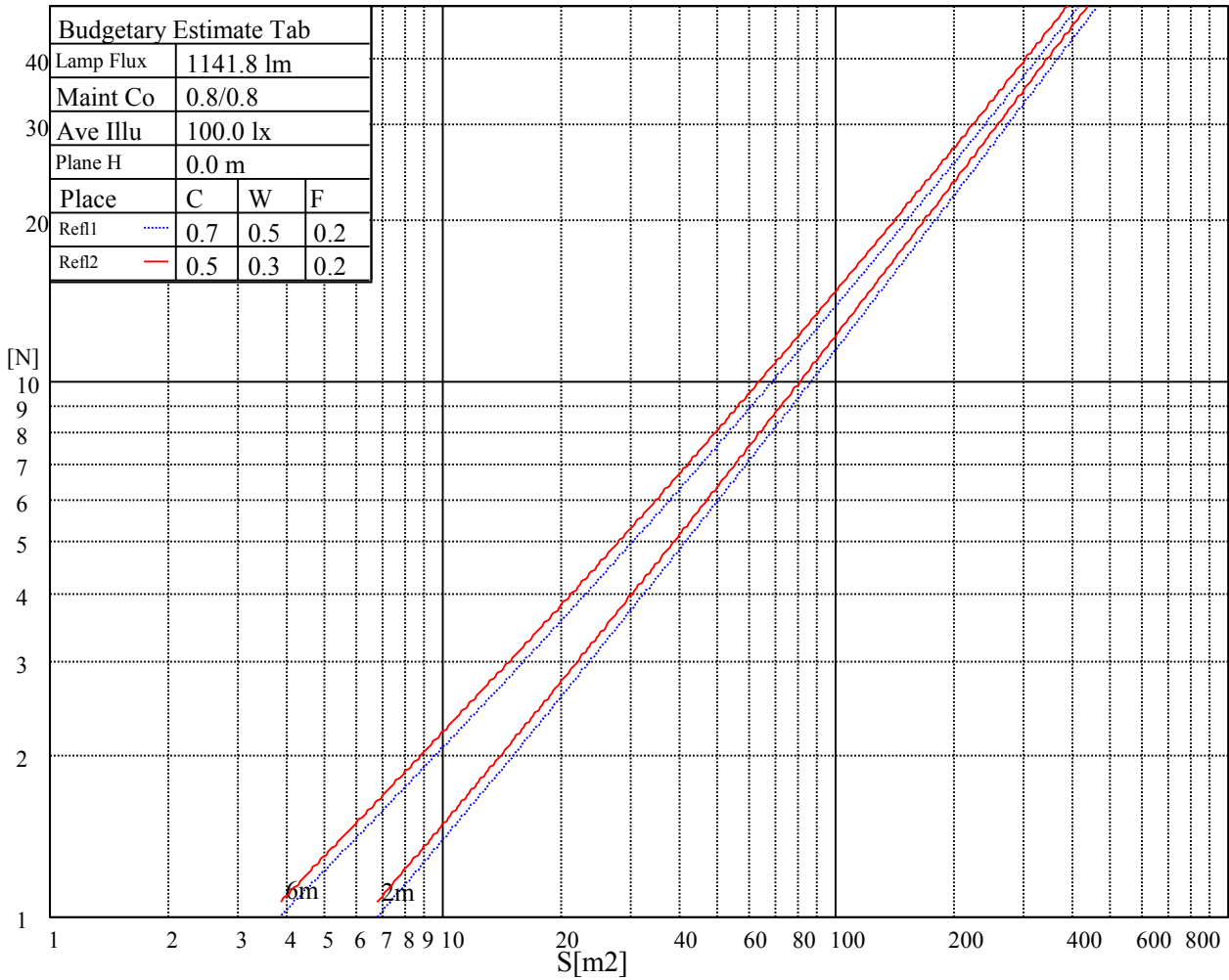
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1639	1639	1639	2612	2612	2612	7699	7699	7699

Glare Table

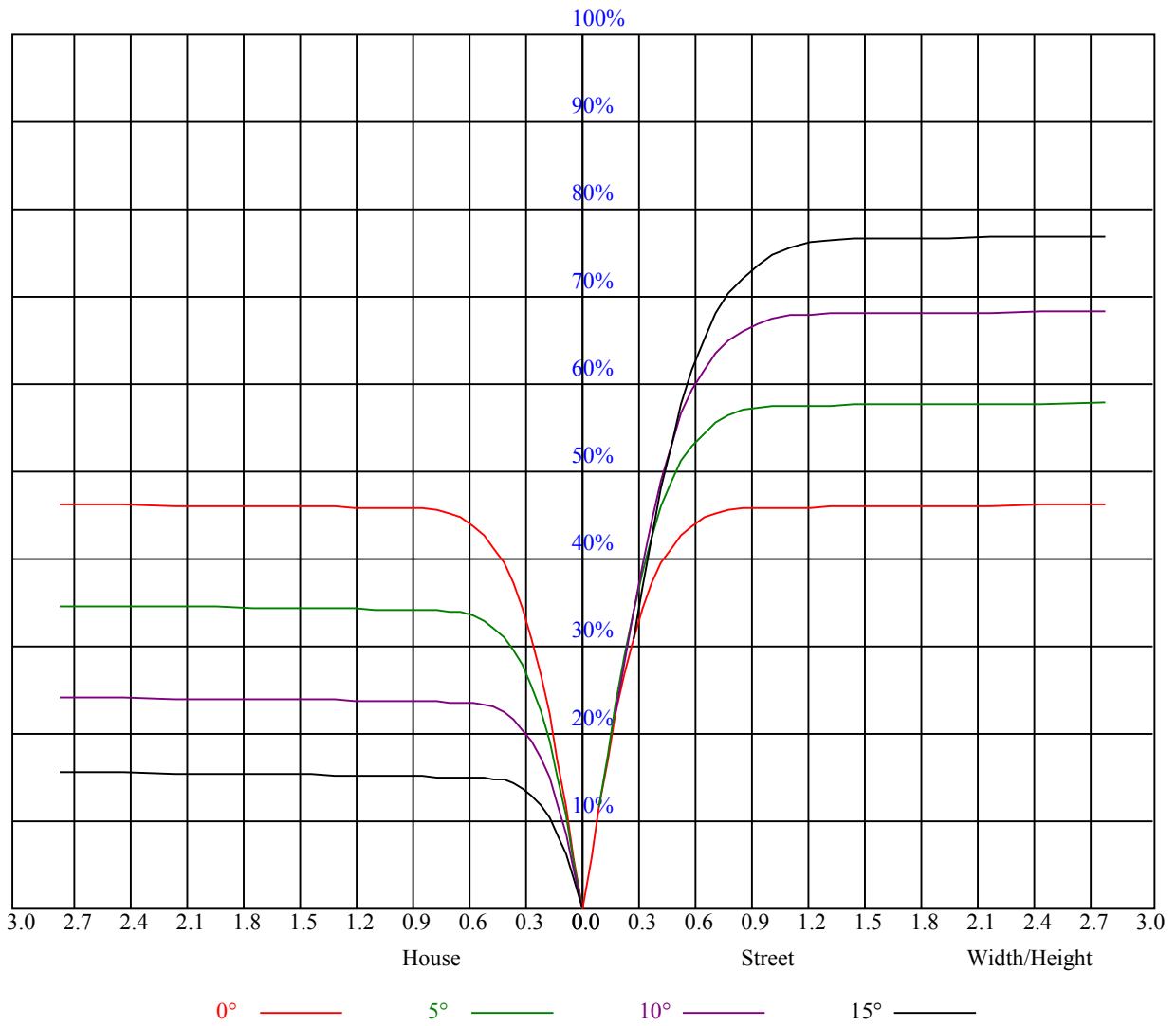
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.87
2	0.98	0.94	0.91	0.96	0.93	0.90	0.93	0.91	0.88	0.91	0.88	0.87	0.88	0.86	0.85	0.83
3	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.80
4	0.89	0.84	0.81	0.88	0.84	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
5	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.73
6	0.81	0.77	0.73	0.81	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61



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	2579.39	2361.92	1961.66	1571.31	1194.72	623.79	393.65	289.05	13.65
45.0	2554.07	2363.57	2023.87	1621.96	1127.00	605.62	388.15	287.94	12.99
90.0	2587.10	2306.86	2020.57	1550.94	977.86	562.73	367.67	223.20	12.39
135.0	2580.49	2378.99	2039.84	1610.95	1101.13	596.26	379.89	278.59	13.05
180.0	2579.39	2209.41	1879.63	1418.25	944.93	504.81	357.32	155.15	10.41
225.0	2554.07	2184.09	1858.70	1430.92	989.58	526.67	371.85	171.28	11.07
270.0	2587.10	2225.38	1881.28	1528.37	1087.36	570.38	387.05	291.25	12.06
315.0	2580.49	2174.18	1862.56	1474.96	1001.31	526.89	372.18	177.72	10.79
360.0	2579.39	2361.92	1961.66	1571.31	1194.72	623.79	393.65	289.05	13.65
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.11	5.40	5.18	5.01	4.90	4.79	4.73	4.73	4.68
45.0	6.17	5.45	5.18	5.07	4.96	4.90	4.84	4.79	4.79
90.0	5.73	5.34	5.12	5.01	4.90	4.84	4.79	4.73	4.73
135.0	5.78	5.34	5.12	5.01	4.90	4.79	4.79	4.73	4.73
180.0	5.62	5.29	5.07	4.96	4.84	4.79	4.73	4.73	4.73
225.0	5.67	5.34	5.12	5.01	4.90	4.84	4.79	4.79	4.79
270.0	5.78	5.34	5.07	4.96	4.84	4.84	4.73	4.73	4.73
315.0	5.62	5.23	5.07	4.96	4.84	4.79	4.73	4.73	4.68
360.0	6.11	5.40	5.18	5.01	4.90	4.79	4.73	4.73	4.68
C/ γ (°)	90.0								
0.0	4.68								
45.0	4.73								
90.0	4.73								
135.0	4.68								
180.0	4.68								
225.0	4.73								
270.0	4.73								
315.0	4.73								
360.0	4.68								