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Nata

LumCAT: 5-1014-A
Luminaire: 92.76.172.00
Report No: NT2017071502
Test No: GC2017071502
LampCAT: PHILIPS SLM G6 1208 L15
Lamp flux(lm): 2640.0
Number of Lamps: 1
Length(mm): 140
Phm Type: C

Voltage(V): 37.0000
Current(A): 0.5440
Power (W): 20.1500
PF: 0.0000
Ballast type: DC
Width(mm): 140
Height(mm): 0

Photometric Results

Lumens(lm): 2434.85
Efficiency(%): 92.23%
Lumens(lm)/Power(W): 120.84
Central intensity(cd): 2930.682
Maximum intensity(cd): 2930.682
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=57.4
 [C90/270]Total=57.4
Field angle(10%Imax): [C0/180]Total=83.0
 [C90/270]Total=83.0
Maximum s/h(1/2): C0_180=0.88 C90_270=0.88
Maximum s/h(1/4): C0_180=0.88 C90_270=0.88
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.760%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/7/4
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.46

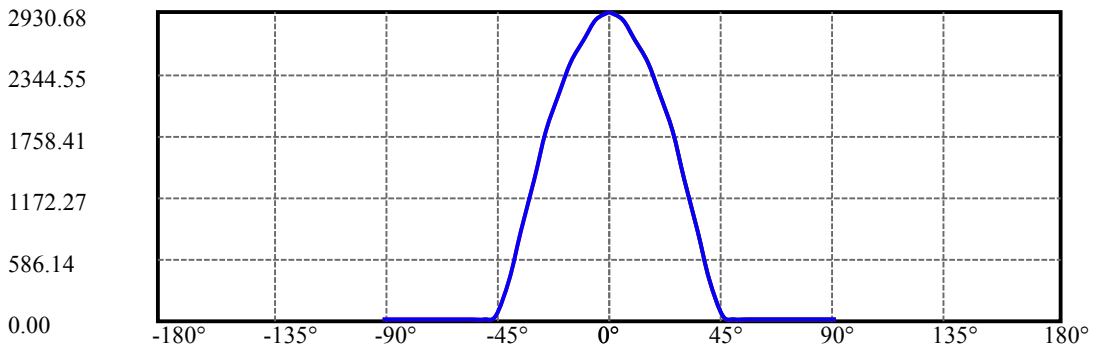
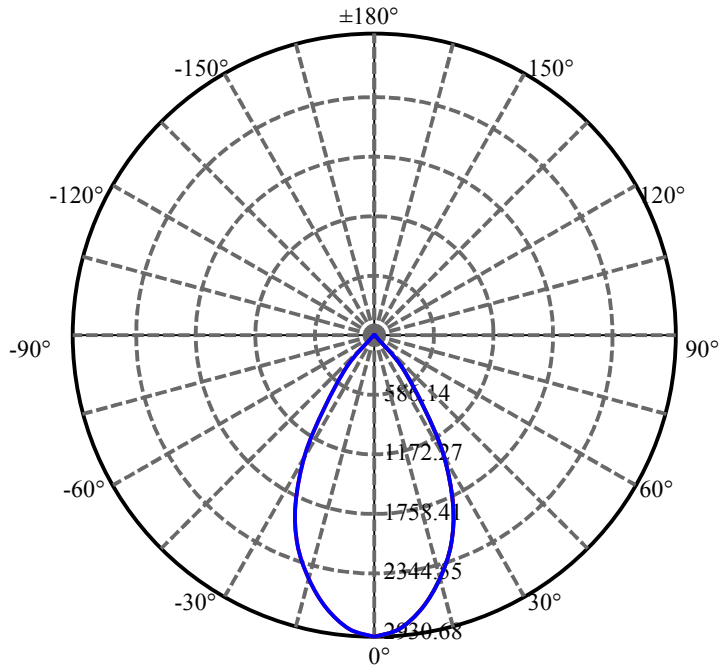
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2930.682	0.000	0	.000%	.000%
5.0	2860.463	69.231	69.231	2.622%	2.843%
10.0	2682.515	198.290	267.521	7.511%	10.987%
15.0	2449.379	304.420	571.942	11.531%	23.490%
20.0	2160.083	379.884	951.826	14.390%	39.092%
25.0	1803.700	415.728	1367.554	15.747%	56.166%
30.0	1345.127	398.487	1766.041	15.094%	72.532%
35.0	854.784	323.952	2089.993	12.271%	85.837%
40.0	396.545	208.775	2298.768	7.908%	94.411%
45.0	47.608	82.239	2381.006	3.115%	97.789%
50.0	15.888	12.830	2393.837	.486%	98.316%
55.0	11.267	5.904	2399.741	.224%	98.558%
60.0	9.973	4.909	2404.651	.186%	98.760%
65.0	9.618	4.762	2409.413	.180%	98.955%
70.0	9.590	4.863	2414.277	.184%	99.155%
75.0	9.597	5.015	2419.292	.190%	99.361%
80.0	9.576	5.130	2424.422	.194%	99.572%
85.0	9.555	5.198	2429.62	.197%	99.785%
90.0	9.541	5.229	2434.849	.198%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1766.04	66.90%	72.53%
0-40	2298.77	87.07%	94.41%
0-60	2404.65	91.09%	98.76%
0-90	2429.62	92.03%	99.79%
0-120	2429.62	92.03%	99.79%
0-180	2434.85	92.23%	100.00%
60-90	29.88	1.13%	1.23%
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%
0-32.81	1947.88	73.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	267.52
10-20	684.30
20-30	814.21
30-40	532.73
40-50	95.07
50-60	10.81
60-70	9.63
70-80	10.15
80-90	5.20
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: —————

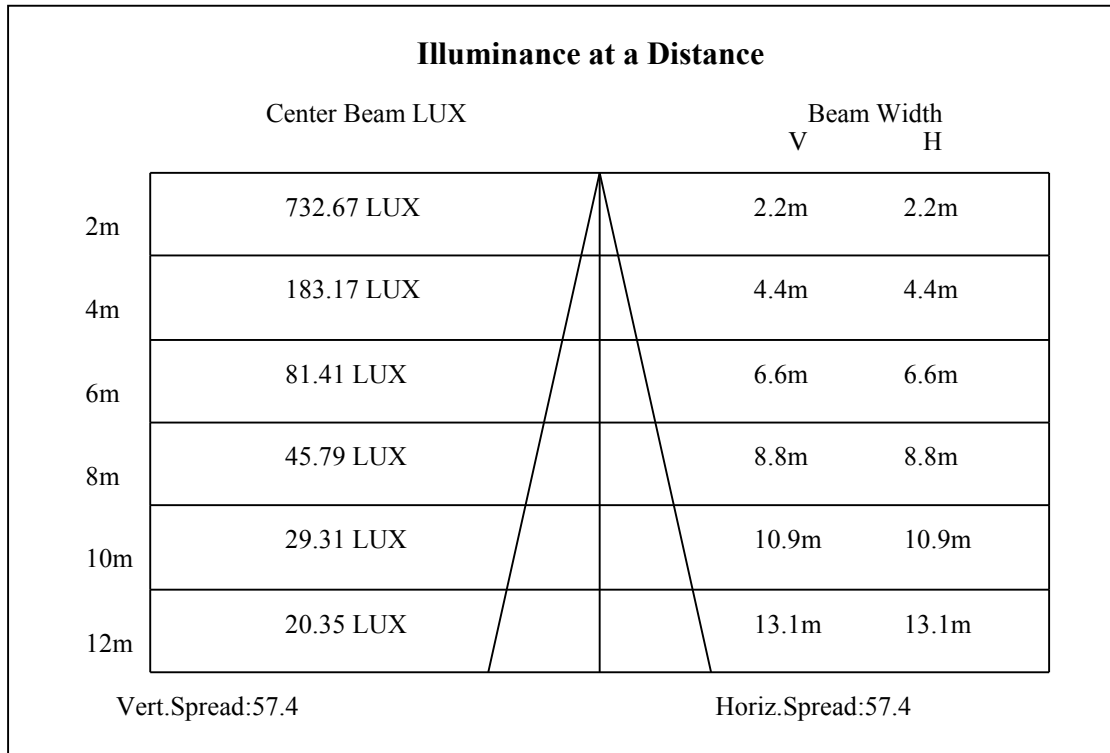
C90/C270: —————

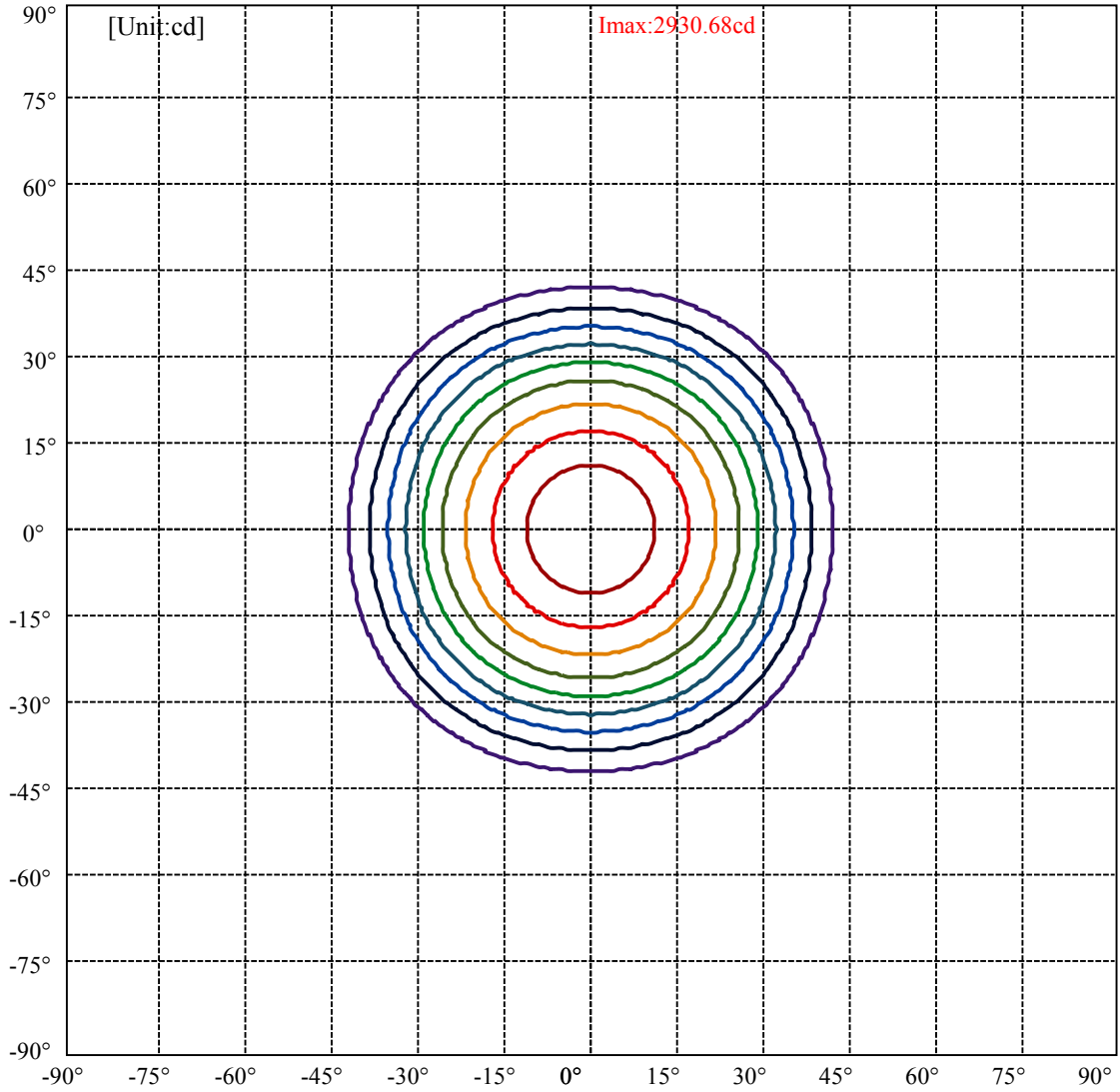
Field angle(10%Imax):C0/180Left:41.5 Right:41.5

:C90/270Left:41.5 Right:41.5

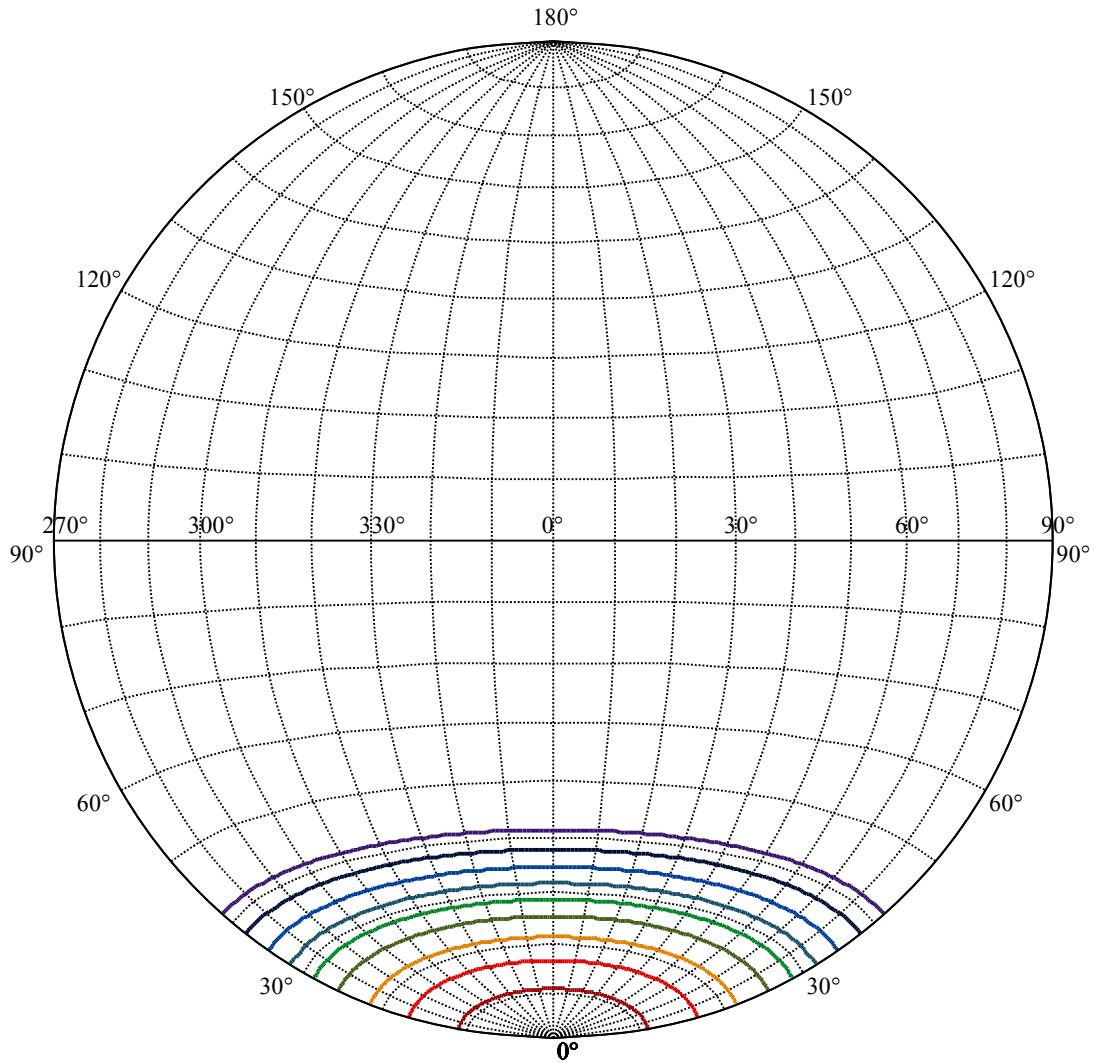
Beam Angle(50%Imax):C0/180Left:28.7 Right:28.7

:C90/270Left:28.7 Right:28.7





(10%Imax) 293.068	—
(20%Imax) 586.136	—
(30%Imax) 879.204	—
(40%Imax) 1172.27	—
(50%Imax) 1465.34	—
(60%Imax) 1758.41	—
(70%Imax) 2051.48	—
(80%Imax) 2344.55	—
(90%Imax) 2637.61	—



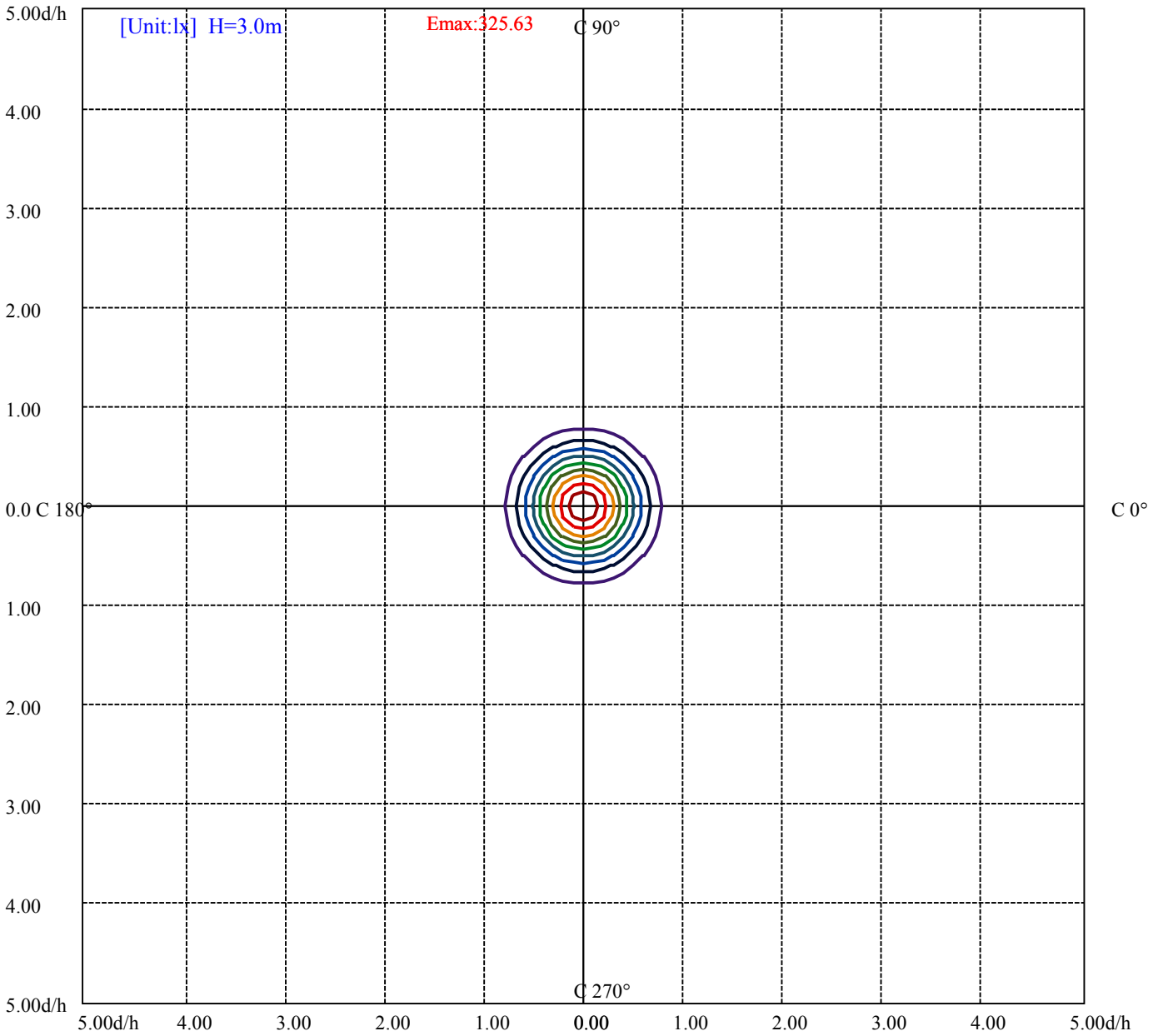
House

[Unit:cd]

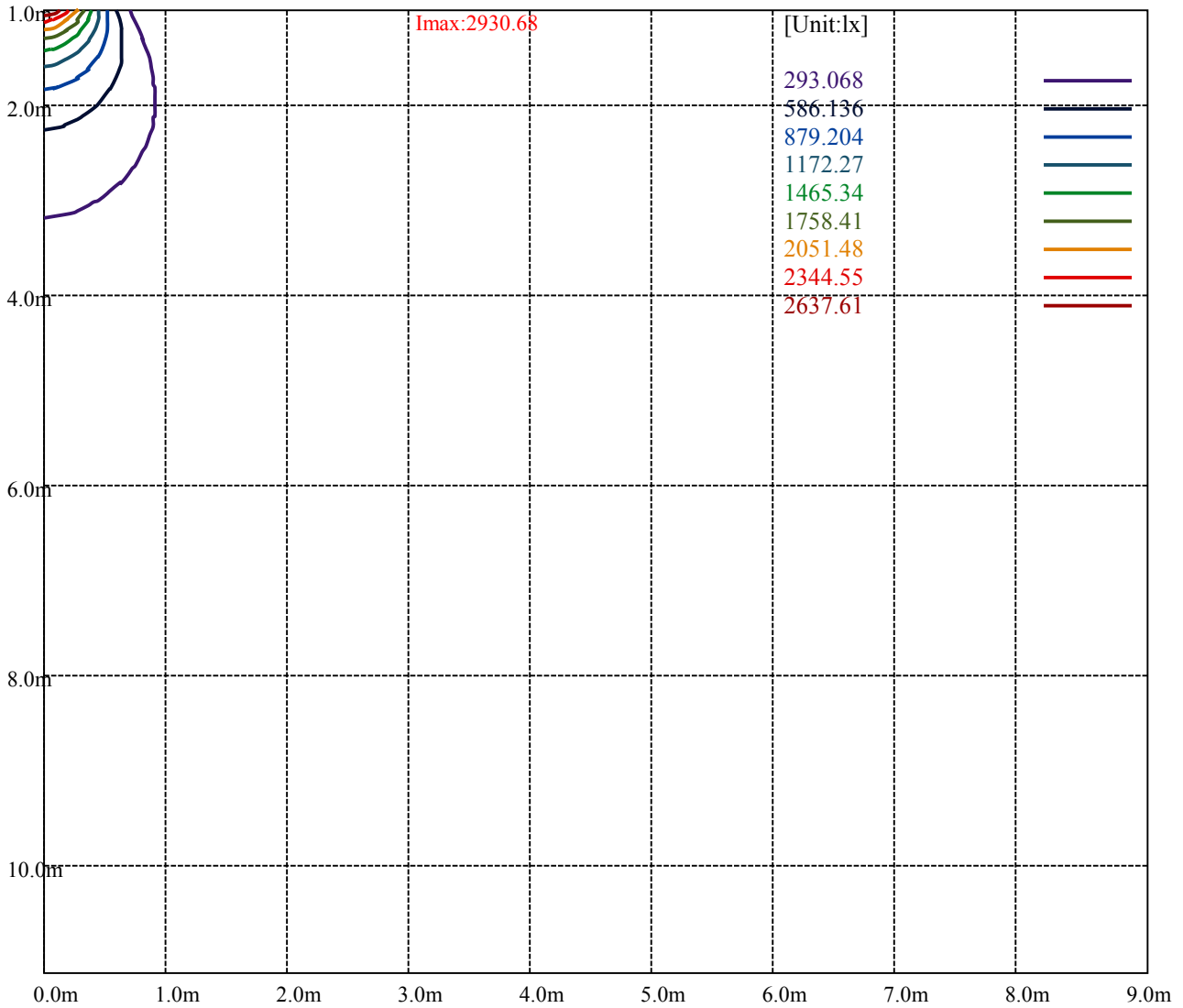
Road

Imax:2930.68

(10%Imax) 293.068	—
(20%Imax) 586.136	—
(30%Imax) 879.204	—
(40%Imax) 1172.27	—
(50%Imax) 1465.34	—
(60%Imax) 1758.41	—
(70%Imax) 2051.48	—
(80%Imax) 2344.55	—
(90%Imax) 2637.61	—



- (10%Emax) 32.56311
- (20%Emax) 65.12622
- (30%Emax) 97.68933
- (40%Emax) 130.2522
- (50%Emax) 162.8156
- (60%Emax) 195.3789
- (70%Emax) 227.9422
- (80%Emax) 260.5045
- (90%Emax) 293.0678



Luminance Table

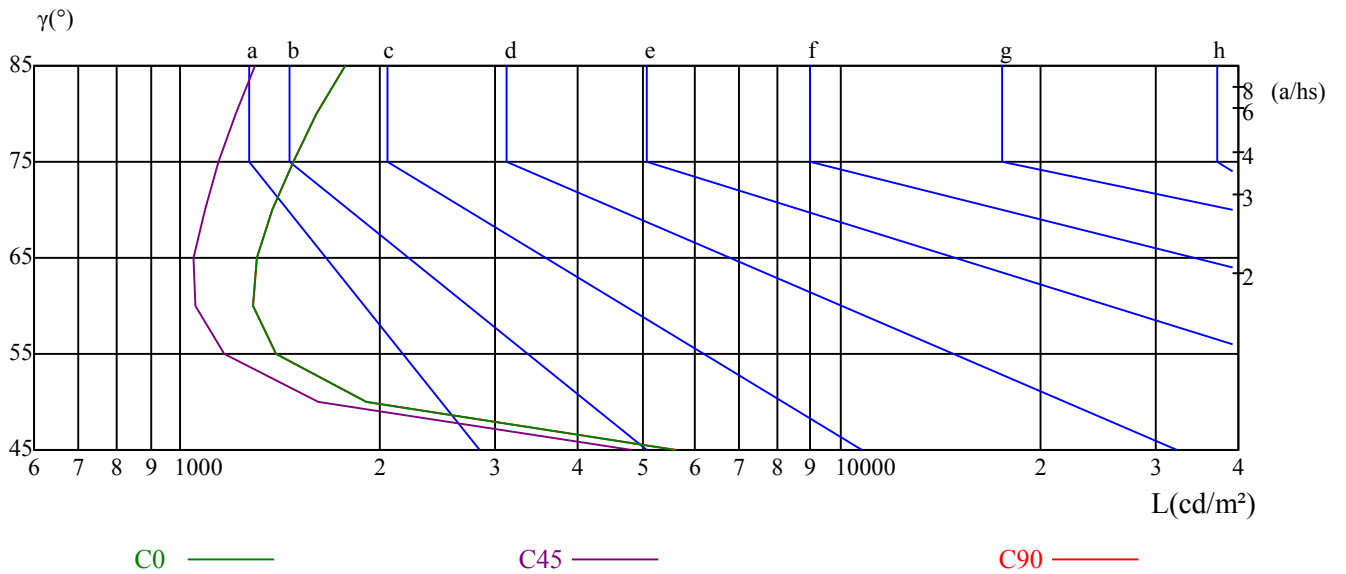
γ	45	50	55	60	65	70	75	80	85
C0	5610	1914	1399	1287	1303	1379	1481	1609	1776
C45	4817	1619	1165	1055	1049	1088	1144	1212	1300
C90	5610	1914	1399	1287	1303	1379	1481	1609	1776

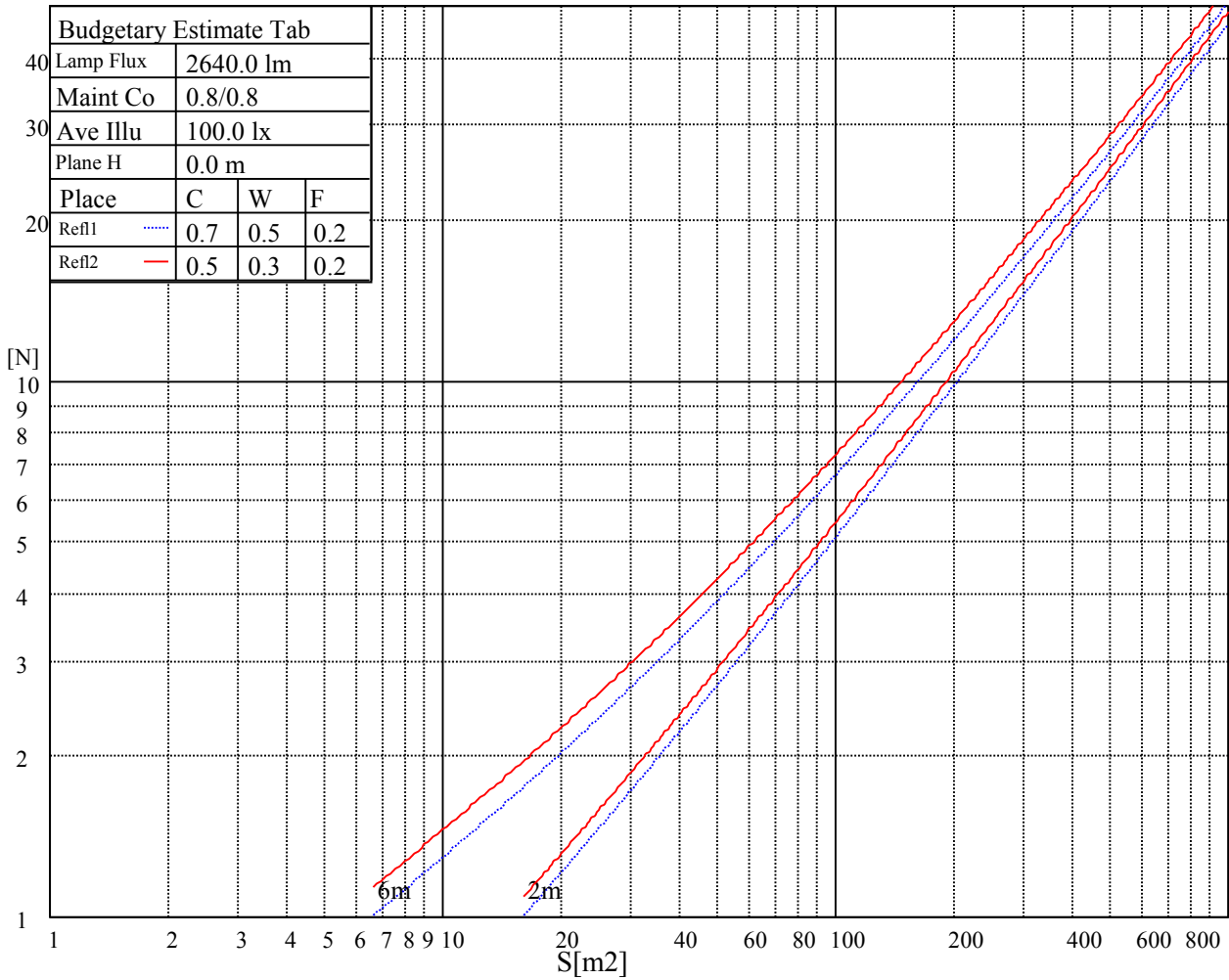
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3147	3147	3147	5127	5127	5127	15160	15160	15160

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.86
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.85	0.88	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.84	0.80	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.77	0.81	0.78	0.76	0.75
4	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.70
5	0.78	0.73	0.69	0.77	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.65
6	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.61
7	0.69	0.63	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.57
8	0.65	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.54
9	0.61	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.51
10	0.58	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.56	0.52	0.49	0.48

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	2917.32	2803.74	2624.47	2376.17	2074.41	1733.69	1288.85	764.40	355.20
45.0	2948.50	2857.75	2676.25	2428.50	2145.12	1774.89	1336.18	819.52	368.56
90.0	2935.69	2857.75	2662.33	2413.47	2127.86	1770.43	1252.11	813.12	346.79
135.0	2919.55	2881.13	2723.02	2514.24	2227.52	1886.79	1500.42	985.43	505.52
180.0	2917.32	2877.23	2692.40	2493.64	2205.25	1855.06	1449.75	935.27	458.36
225.0	2951.84	2898.39	2721.90	2481.95	2208.59	1845.59	1406.33	893.74	424.79
270.0	2935.69	2887.81	2729.14	2513.13	2217.50	1857.29	1423.03	911.38	433.14
315.0	2919.55	2819.89	2630.60	2373.94	2074.41	1705.85	1104.35	715.41	279.98
360.0	2917.32	2803.74	2624.47	2376.17	2074.41	1733.69	1288.85	764.40	355.20
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	32.40	13.97	10.75	9.80	9.58	9.52	9.58	9.46	9.46
45.0	36.80	15.42	11.08	9.97	9.63	9.69	9.69	9.58	9.58
90.0	40.86	15.42	11.30	9.91	9.63	9.58	9.63	9.63	9.58
135.0	90.53	20.04	12.19	10.30	9.69	9.58	9.58	9.58	9.52
180.0	57.85	16.81	11.58	10.02	9.58	9.58	9.52	9.58	9.52
225.0	45.04	15.98	11.36	10.08	9.69	9.63	9.69	9.63	9.63
270.0	47.60	15.81	11.30	9.97	9.63	9.58	9.58	9.58	9.63
315.0	29.79	13.64	10.58	9.74	9.52	9.58	9.52	9.58	9.52
360.0	32.40	13.97	10.75	9.80	9.58	9.52	9.58	9.46	9.46
C/ γ (°)	90.0								
0.0	9.46								
45.0	9.58								
90.0	9.58								
135.0	9.52								
180.0	9.52								
225.0	9.58								
270.0	9.52								
315.0	9.58								
360.0	9.46								