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Nata

LumCAT: 4-2220-A	
Luminaire: BJB 47.319.2141	
Report No: NT2017041507	Voltage(V): 35.0000
Test No: GC2017041507	Current(A): 0.8000
LampCAT: BRIDGELUX V18B	Power (W): 27.0000
Lamp flux(lm): 3874.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(feet)(ft.):0.328	Width(feet)(ft.):0.328
Phm Type: C	Height(feet)(ft.):0

Photometric Results

Lumens(lm): 3487.69
Efficiency(%): 90.03%
Lumens(lm)/Power(W): 131.70
Central intensity(cd): 11945.860
Maximum intensity(cd): 11945.860
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=26.7
 [C90/270]Total=26.7
Field angle(10%Imax): [C0/180]Total=59.9
 [C90/270]Total=59.9
Maximum s/h(1/2): C0_180=0.45 C90_270=0.45
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.79%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.942%

Equipment: gms1980
Temperature(°C): 25.0

Date: 2017/4/15
Humidity(%): 60.0%

Operator: NT07
Distance(feet): 24.34

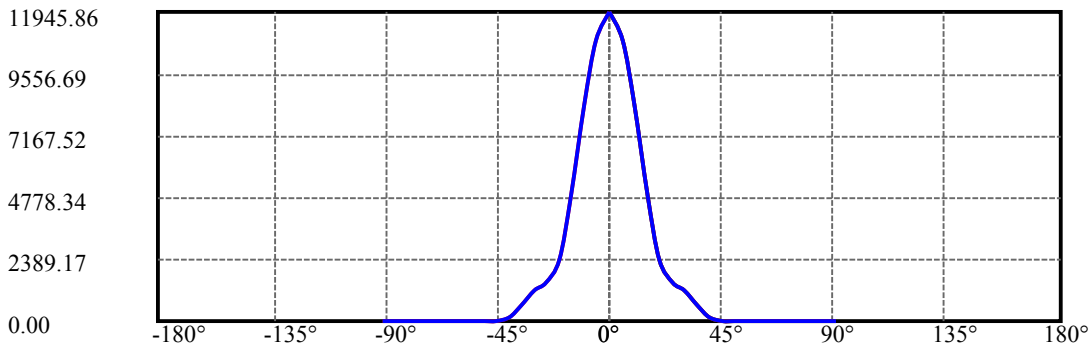
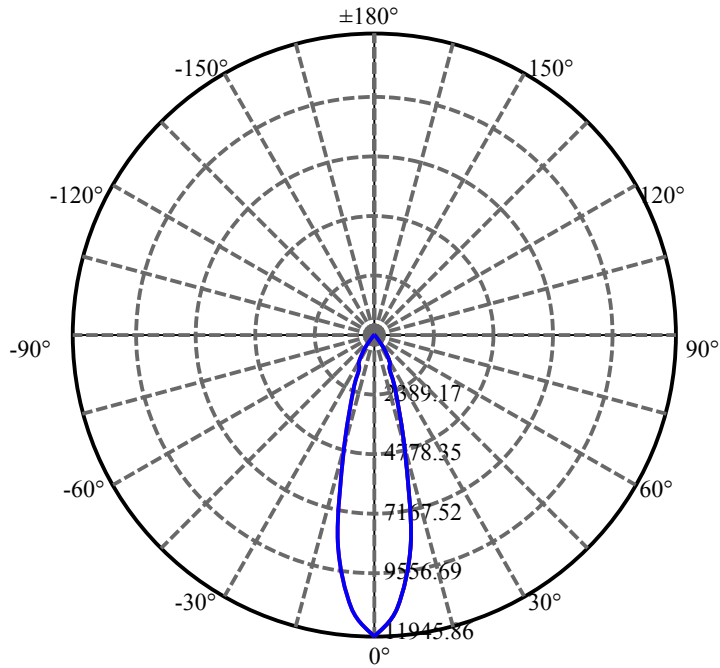
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11945.862	71.439	71.439	1.844%	2.048%
5.0	10817.688	516.797	588.236	13.340%	16.866%
10.0	8381.924	797.817	1386.053	20.594%	39.741%
15.0	4795.963	680.396	2066.448	17.563%	59.250%
20.0	2357.309	441.934	2508.382	11.408%	71.921%
25.0	1494.437	346.191	2854.573	8.936%	81.847%
30.0	1191.710	326.610	3181.183	8.431%	91.212%
35.0	623.245	195.948	3377.131	5.058%	96.830%
40.0	118.048	41.592	3418.723	1.074%	98.022%
45.0	19.793	7.672	3426.395	.198%	98.242%
50.0	16.372	6.875	3433.27	.177%	98.440%
55.0	15.209	6.829	3440.099	.176%	98.635%
60.0	14.714	6.985	3447.083	.180%	98.836%
65.0	14.342	7.125	3454.208	.184%	99.040%
70.0	14.156	7.292	3461.5	.188%	99.249%
75.0	13.977	7.400	3468.9	.191%	99.461%
80.0	13.874	7.489	3476.39	.193%	99.676%
85.0	13.826	7.550	3483.94	.195%	99.892%
90.0	13.702	3.755	3487.695	.097%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3181.18	82.12%	91.21%
0-40	3418.72	88.25%	98.02%
0-60	3447.08	88.98%	98.84%
0-90	3483.94	89.93%	99.89%
0-120	3483.94	89.93%	99.89%
0-180	3487.69	90.03%	100.00%
60-90	43.84	1.13%	1.26%
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%
0-24.07	2790.16	72.02%	80.00%

ZONAL LUMEN SUMMARY

0-10	1386.05
10-20	1122.33
20-30	672.80
30-40	237.54
40-50	14.55
50-60	13.81
60-70	14.42
70-80	14.89
80-90	7.55
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



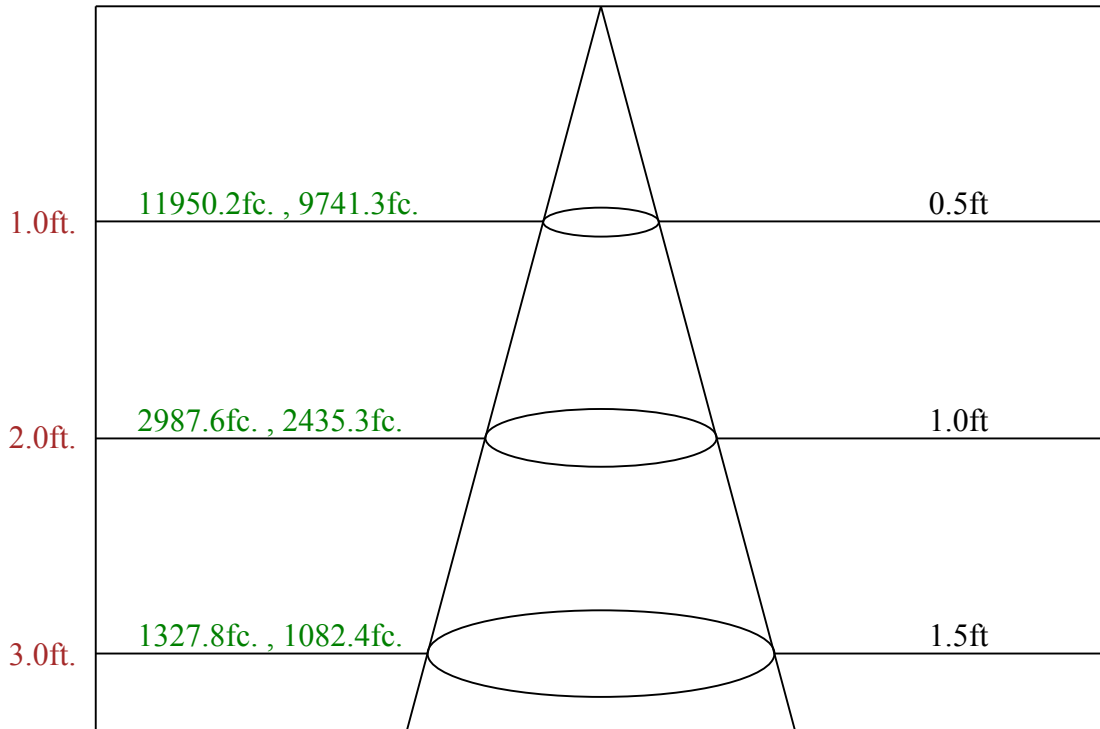
C0(Max): —————

C0/C180: —————

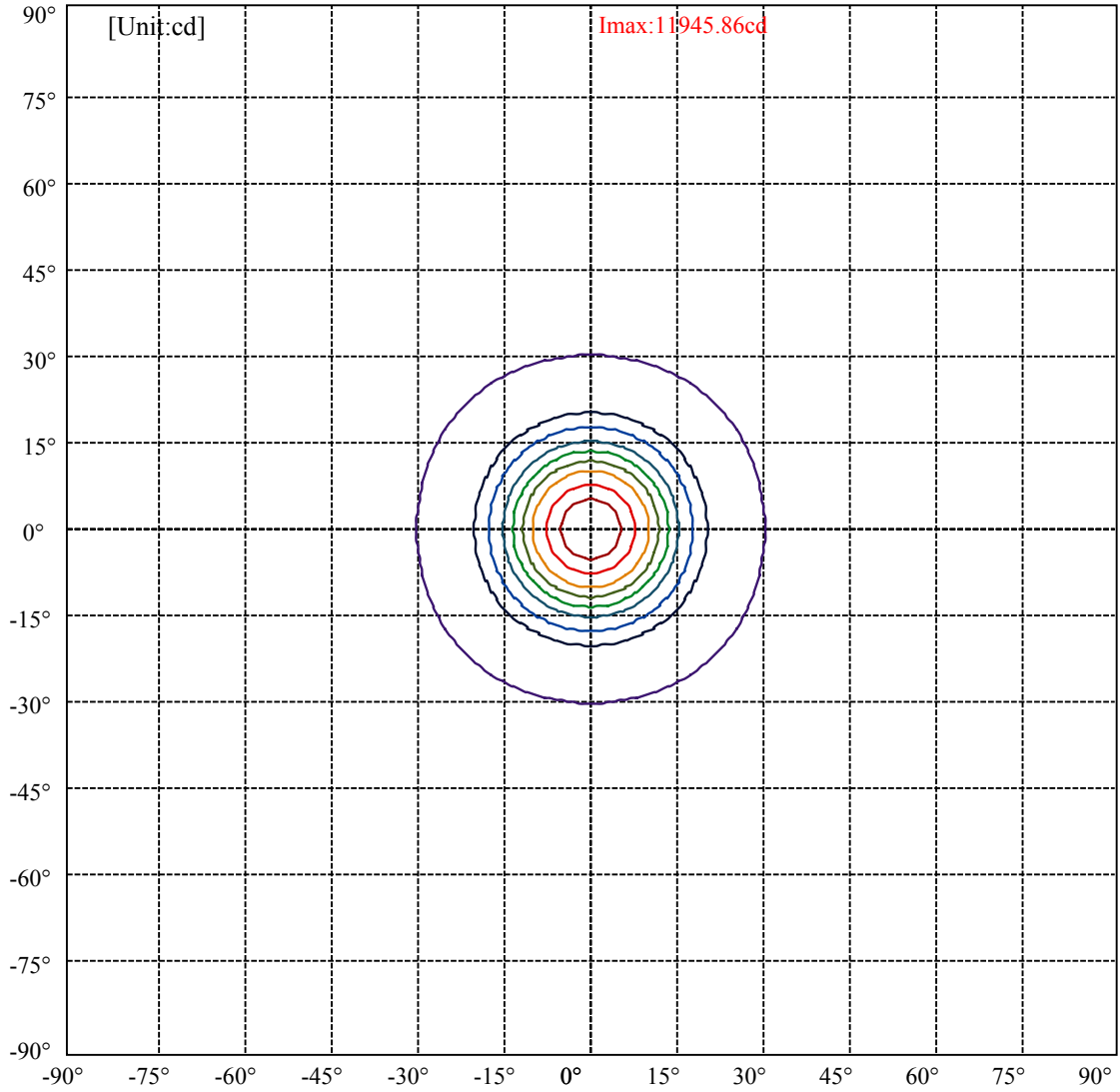
C90/C270: —————

Field angle(10%Imax):C0/180Left:30.0 Right:30.0
:C90/270Left:30.0 Right:30.0

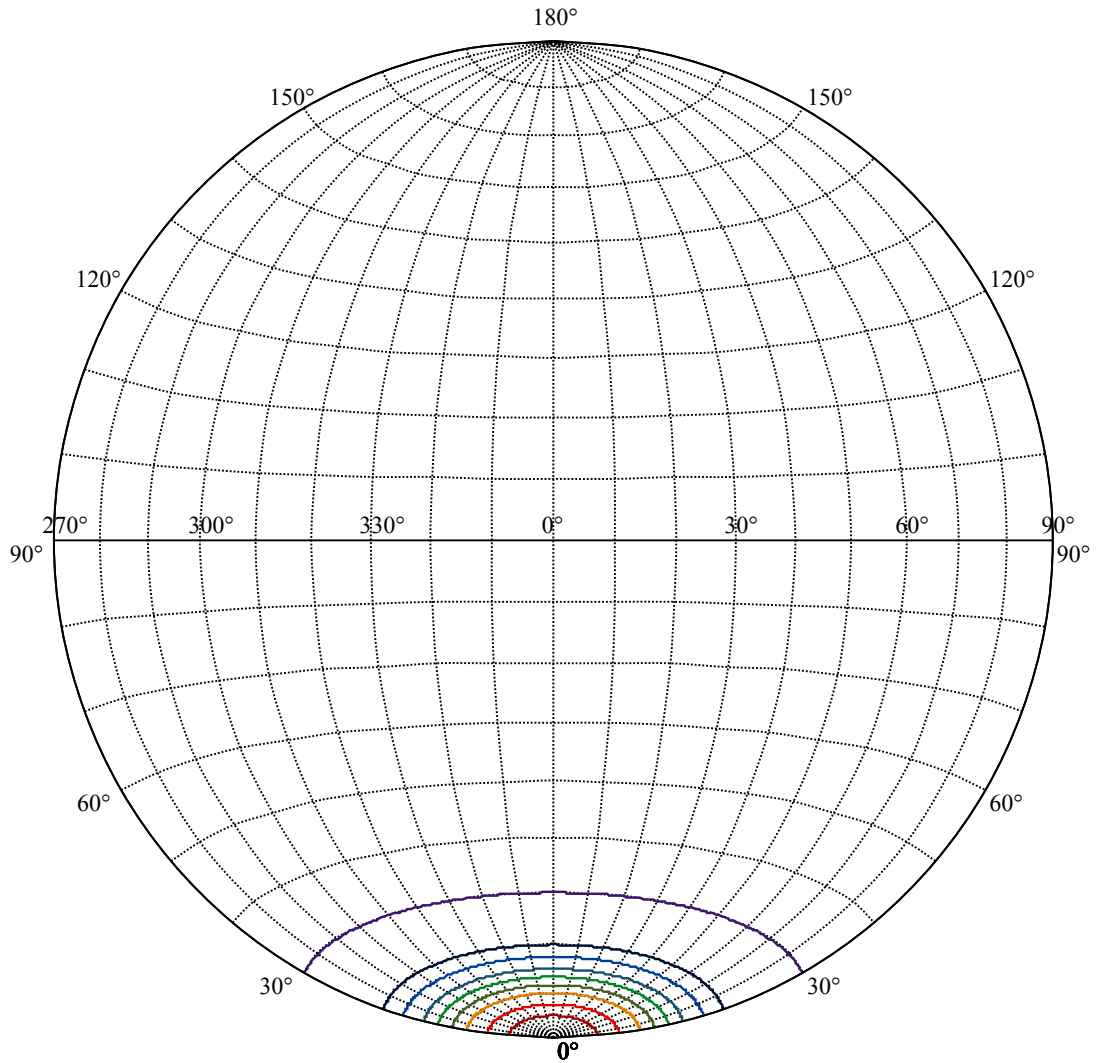
Beam Angle(50%Imax):C0/180Left:13.4 Right:13.4
:C90/270Left:13.4 Right:13.4



Max , Ave Beam angle of C0 plane 28.29



(10%Imax) 1194.59	—
(20%Imax) 2389.17	—
(30%Imax) 3583.76	—
(40%Imax) 4778.34	—
(50%Imax) 5972.93	—
(60%Imax) 7167.52	—
(70%Imax) 8362.1	—
(80%Imax) 9556.69	—
(90%Imax) 10751.3	—



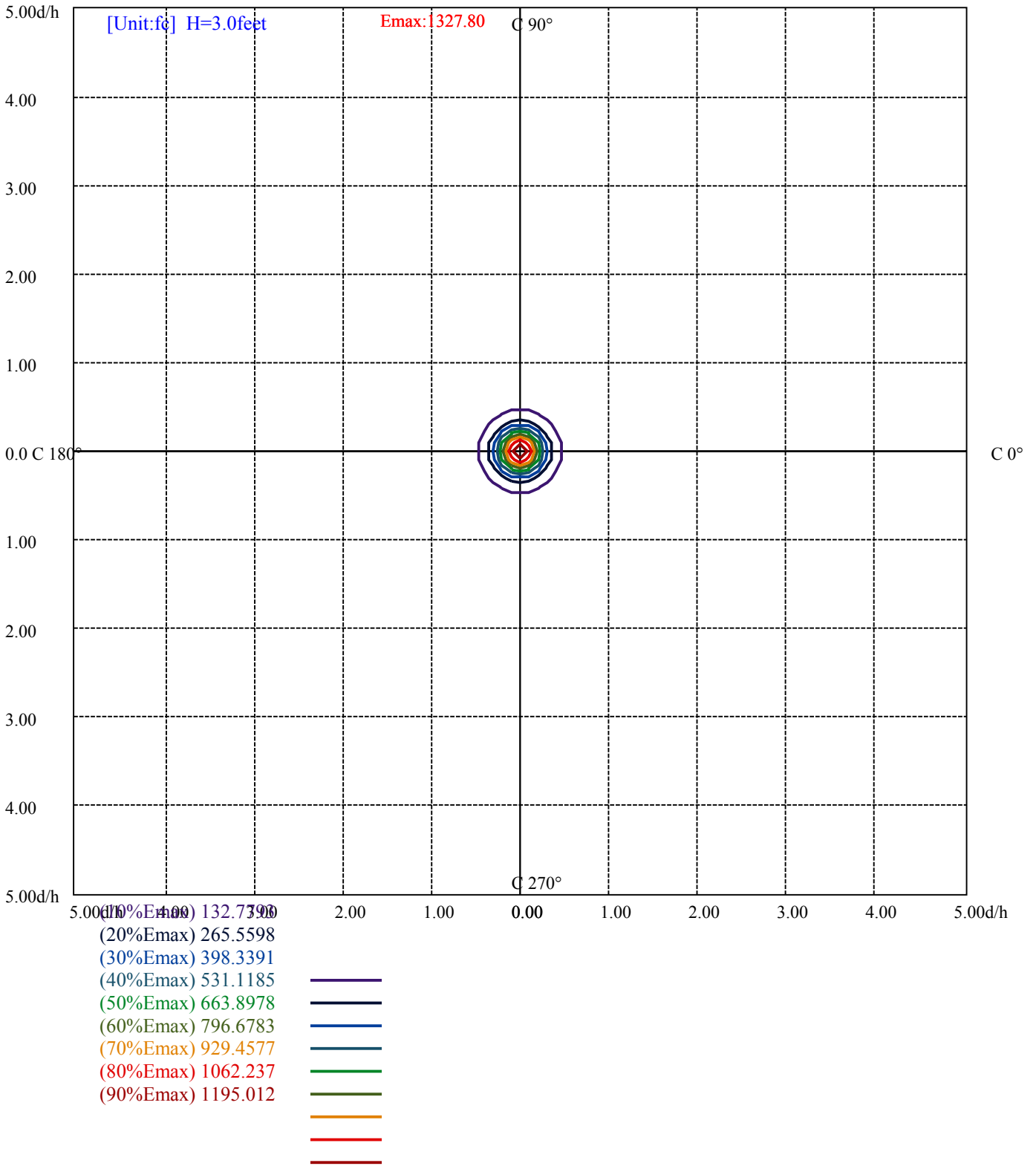
House

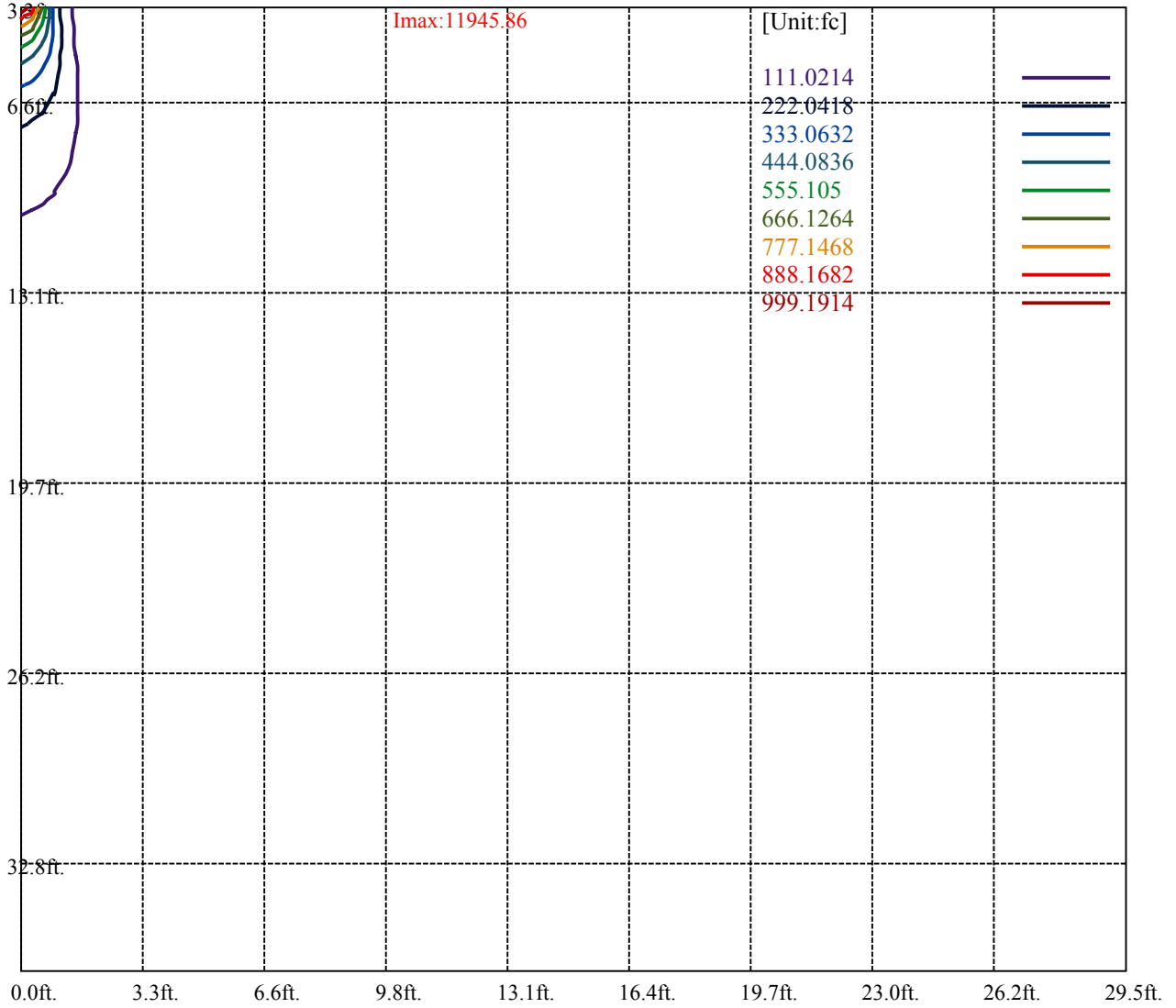
[Unit:cd]

Road

Imax:11945.86

(10%Imax)	1194.59	—
(20%Imax)	2389.17	—
(30%Imax)	3583.76	—
(40%Imax)	4778.34	—
(50%Imax)	5972.93	—
(60%Imax)	7167.52	—
(70%Imax)	8362.1	—
(80%Imax)	9556.69	—
(90%Imax)	10751.3	—





Luminance Table

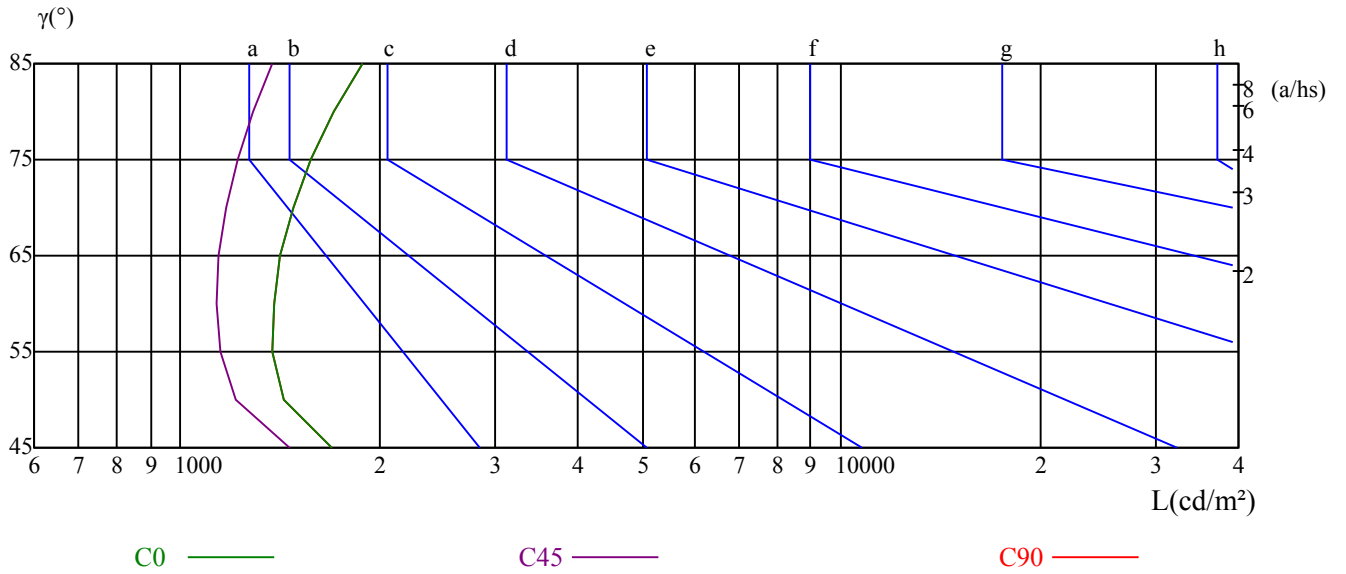
γ	45	50	55	60	65	70	75	80	85
C0	1696	1435	1375	1384	1418	1486	1576	1705	1882
C45	1458	1216	1147	1135	1142	1174	1219	1286	1379
C90	1696	1435	1375	1384	1418	1486	1576	1705	1882

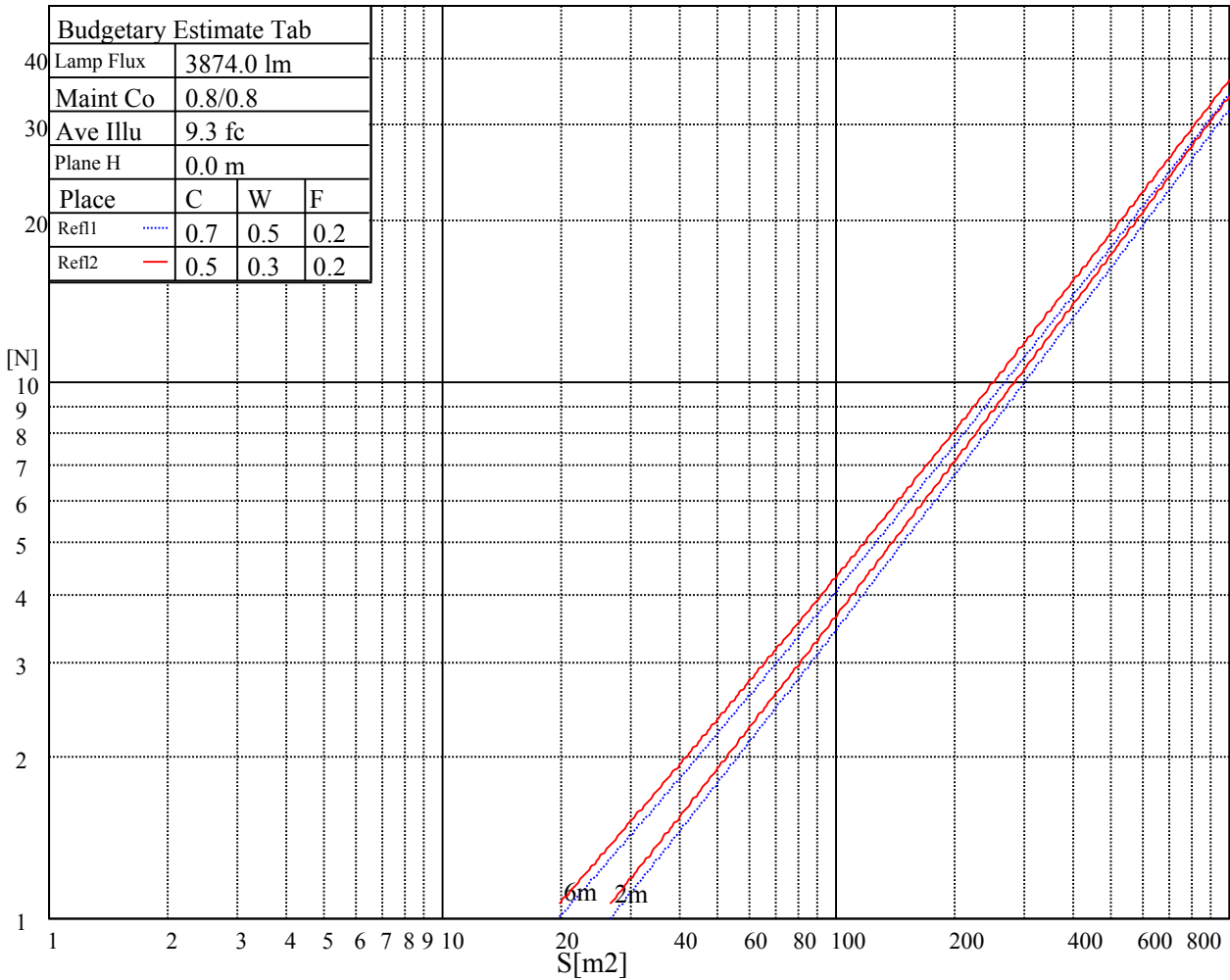
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3394	3394	3394	5400	5400	5400	15864	15864	15864

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 RHOF=20 CU															
0	1.09	1.09	1.09	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	1.01	0.98	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.88	0.87	0.86	0.85
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.88	0.86	0.85	0.86	0.84	0.83	0.81
3	0.91	0.87	0.84	0.90	0.86	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.78
4	0.87	0.83	0.80	0.86	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.77	0.74	0.80	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	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
8	0.76	0.71	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63

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	11991.28	10548.81	7718.91	3914.51	2000.20	1405.04	1160.59	486.70	33.03
45.0	11941.73	11231.51	8836.55	5296.43	2785.85	1552.59	1252.53	841.81	287.94
90.0	11980.27	10909.43	8854.17	5359.19	2479.19	1543.23	1247.03	663.98	94.86
135.0	11870.16	11638.92	9767.01	6562.72	3072.15	1701.79	1315.30	860.53	308.87
180.0	11991.28	10922.09	9081.55	5354.79	2644.36	1566.91	1260.79	788.90	123.49
225.0	11941.73	10478.88	7646.78	4015.26	1986.43	1398.43	1038.53	525.95	34.30
270.0	11980.27	10680.94	7972.17	4310.92	2065.17	1433.12	1202.98	514.78	34.47
315.0	11870.16	10130.93	7178.25	3553.89	1825.12	1354.39	1055.93	303.31	27.42
360.0	11991.28	10548.81	7718.91	3914.51	2000.20	1405.04	1160.59	486.70	33.03

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	21.14	16.13	15.09	14.65	14.31	14.20	13.98	13.93	13.82
45.0	20.54	16.79	15.47	14.87	14.53	14.26	14.09	13.93	13.87
90.0	19.32	16.19	15.14	14.70	14.31	14.15	13.98	13.87	13.76
135.0	22.30	16.85	15.47	14.87	14.42	14.20	13.98	13.87	13.82
180.0	20.04	16.46	15.14	14.65	14.26	14.09	13.98	13.87	13.76
225.0	18.39	16.30	15.14	14.70	14.31	14.15	13.93	13.87	13.82
270.0	18.66	16.30	15.20	14.76	14.37	14.15	13.98	13.87	13.82
315.0	17.95	15.97	15.03	14.53	14.20	14.04	13.87	13.76	13.93
360.0	21.14	16.13	15.09	14.65	14.31	14.20	13.98	13.93	13.82

C/γ(°)	90.0
0.0	13.60
45.0	13.82
90.0	13.76
135.0	13.71
180.0	13.54
225.0	13.76
270.0	13.76
315.0	13.65
360.0	13.60