
Client:

LumCAT: LM01D03060AE

Luminaire:

Report No: nt0100

Voltage(V): 34.9100

Test No: GC2019122015

Current(A): 0.1970

LampCAT: LUMINUS CXM-6-AC40

Power (W): 6.8700

Lamp flux(lm): 861.0

PF: 1.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 744.49, Efficiency(%): 86.47% , Luminous Efficacy(lm/W): 108.37

Central intensity(cd): 701.114, Maximum intensity(cd): 701.114

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=57.2

[C90/270]Total=57.2

Field angle(10%Imax): [C0/180]Total=96.2

[C90/270]Total=96.2

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(%): 86.47%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 91.524%

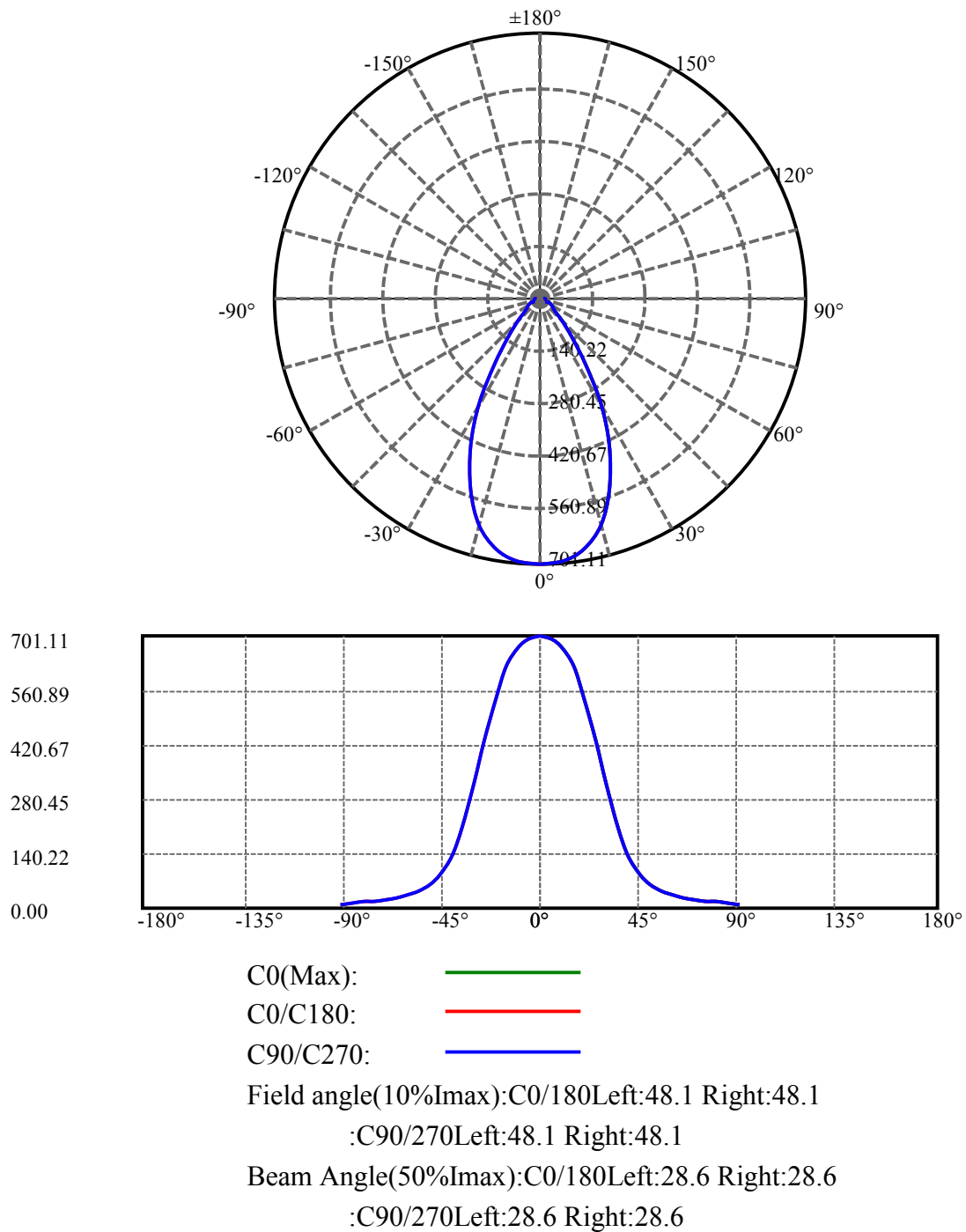
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	701.114	0.000	0	.000%	.000%
5.0	693.886	16.677	16.677	1.937%	2.240%
10.0	671.048	48.828	65.505	5.671%	8.799%
15.0	621.633	76.681	142.186	8.906%	19.098%
20.0	538.439	95.606	237.792	11.104%	31.940%
25.0	429.061	101.473	339.265	11.785%	45.570%
30.0	321.377	94.969	434.233	11.030%	58.326%
35.0	209.981	78.246	512.48	9.088%	68.836%
40.0	133.334	57.279	569.759	6.653%	76.530%
45.0	84.930	40.413	610.173	4.694%	81.958%
50.0	60.827	29.452	639.625	3.421%	85.914%
55.0	45.654	23.153	662.778	2.689%	89.024%
60.0	34.868	18.612	681.39	2.162%	91.524%
65.0	26.220	14.850	696.241	1.725%	93.519%
70.0	21.382	12.053	708.294	1.400%	95.137%
75.0	19.322	10.639	718.933	1.236%	96.567%
80.0	18.872	10.220	729.153	1.187%	97.939%
85.0	15.188	9.255	738.407	1.075%	99.182%
90.0	7.045	6.088	744.495	.707%	100.000%

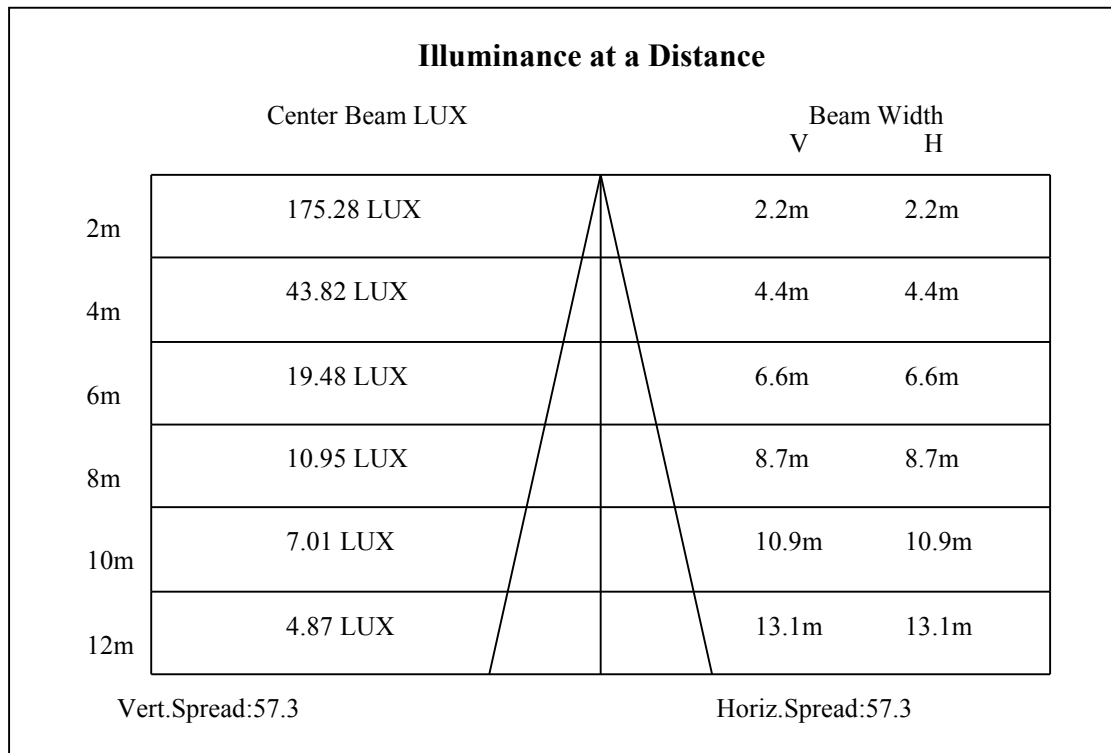
ZONAL LUMEN SUMMARY

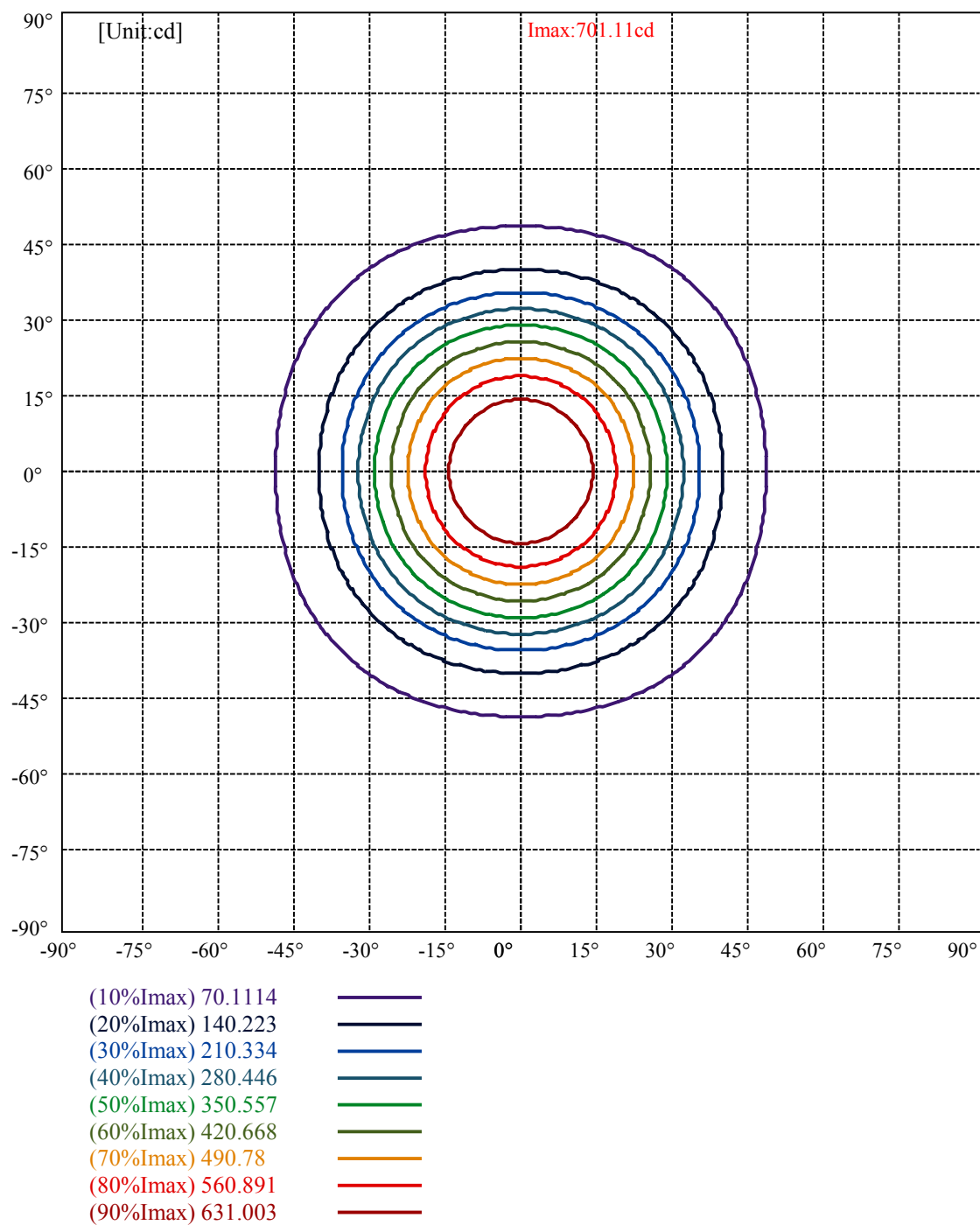
Zone	Lumens	%Lamp	%Fixt
0-30	434.23	50.43%	58.33%
0-40	569.76	66.17%	76.53%
0-60	681.39	79.14%	91.52%
0-90	738.41	85.76%	99.18%
0-120	738.41	85.76%	99.18%
0-180	744.49	86.47%	100.00%
60-90	75.63	8.78%	10.16%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-43.20	595.60	69.17%	80.00%

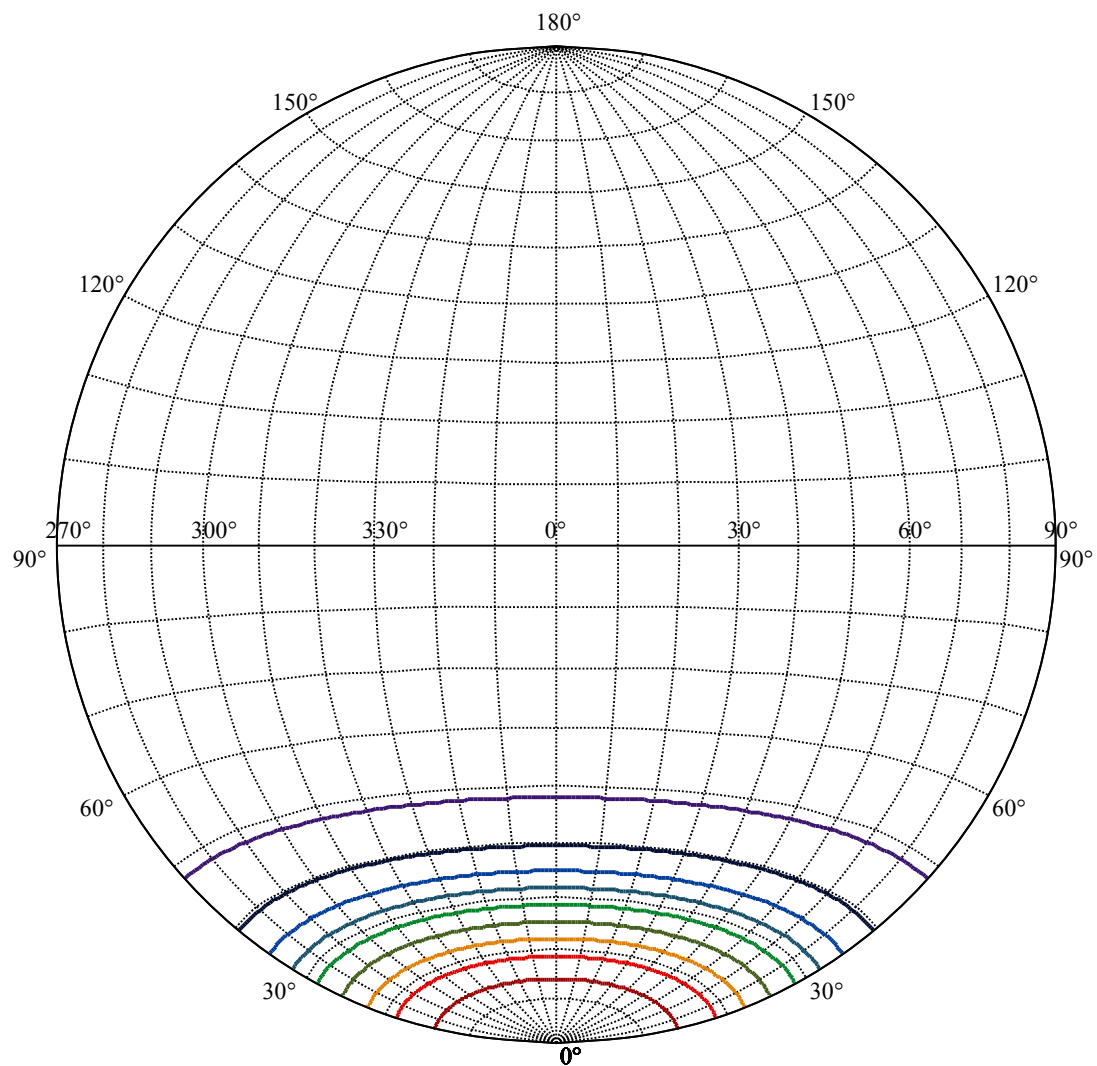
ZONAL LUMEN SUMMARY

0-10	65.50
10-20	172.29
20-30	196.44
30-40	135.53
40-50	69.87
50-60	41.76
60-70	26.90
70-80	20.86
80-90	9.25
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









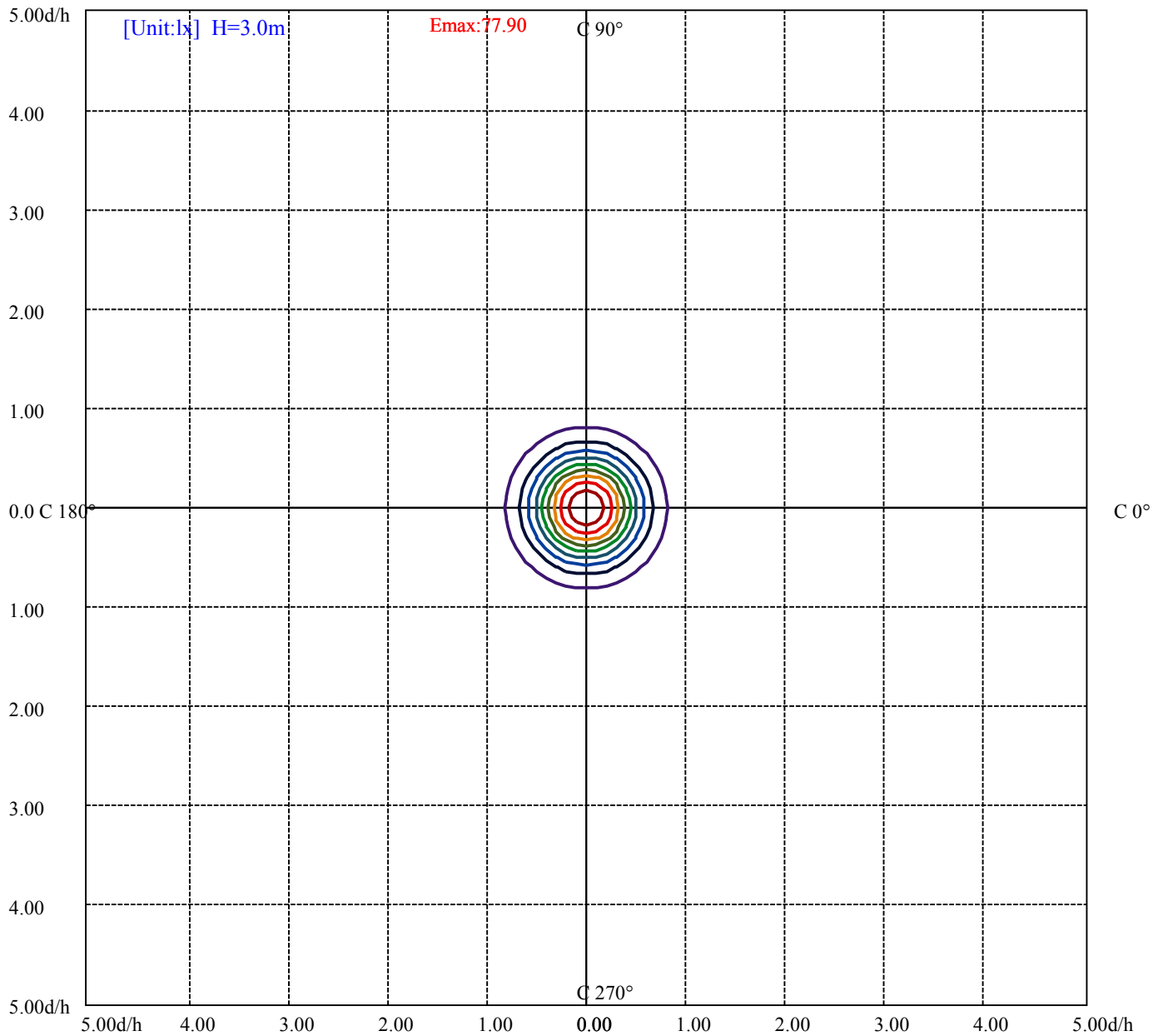
House

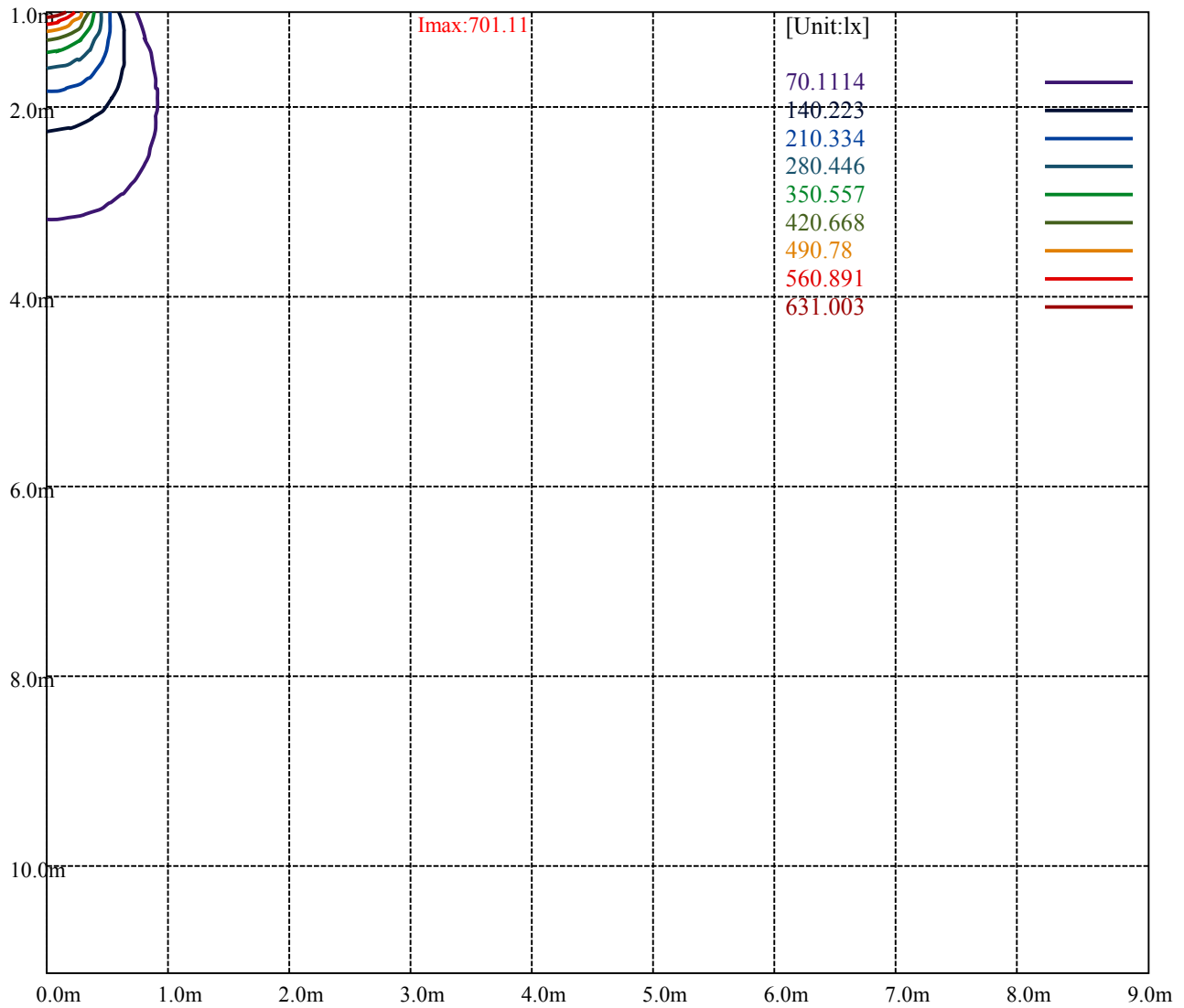
[Unit:cd]

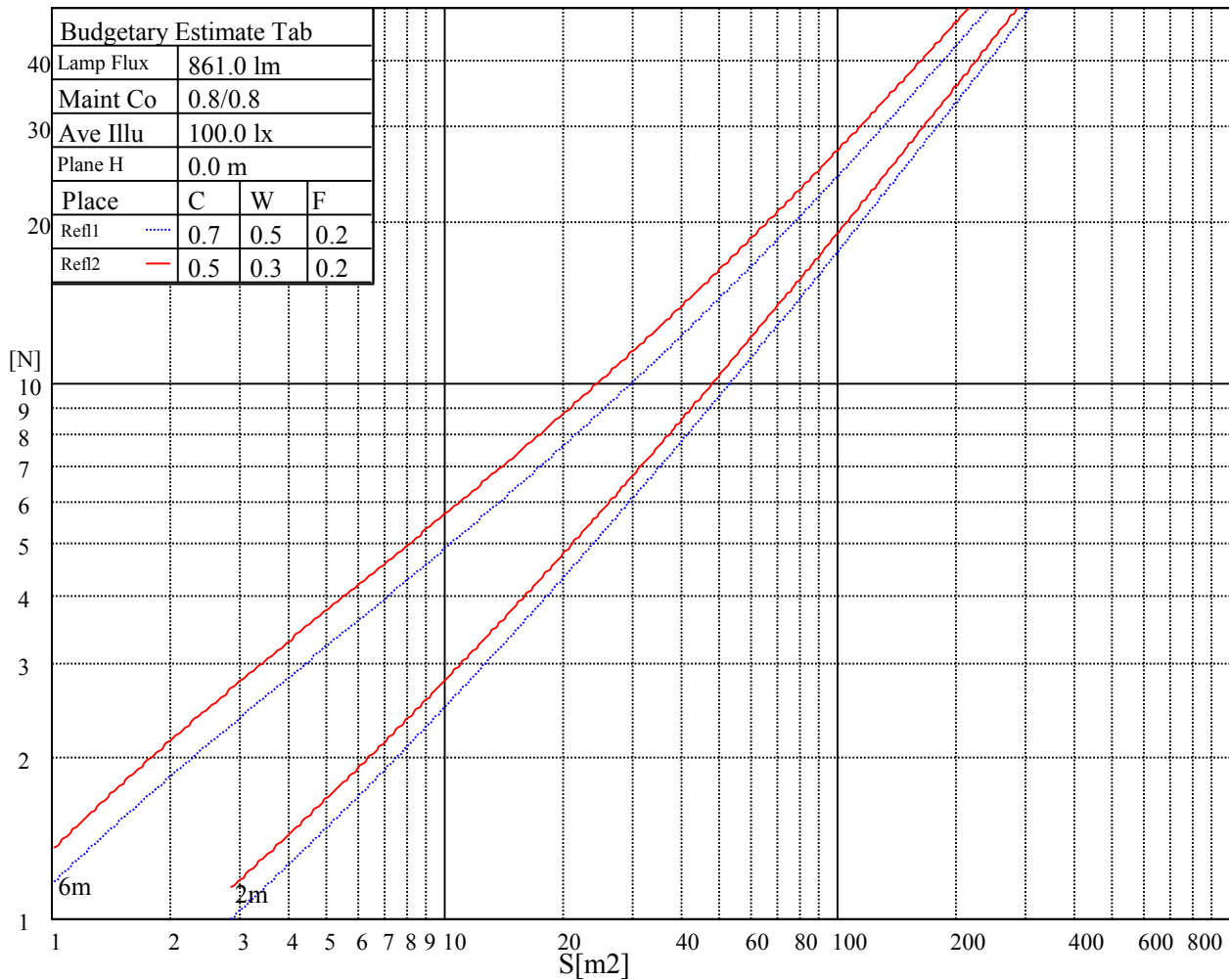
Road

Imax:701.11
(10%Imax) 70.1114
(20%Imax) 140.223
(30%Imax) 210.334
(40%Imax) 280.446
(50%Imax) 350.557
(60%Imax) 420.668
(70%Imax) 490.78
(80%Imax) 560.891
(90%Imax) 631.003

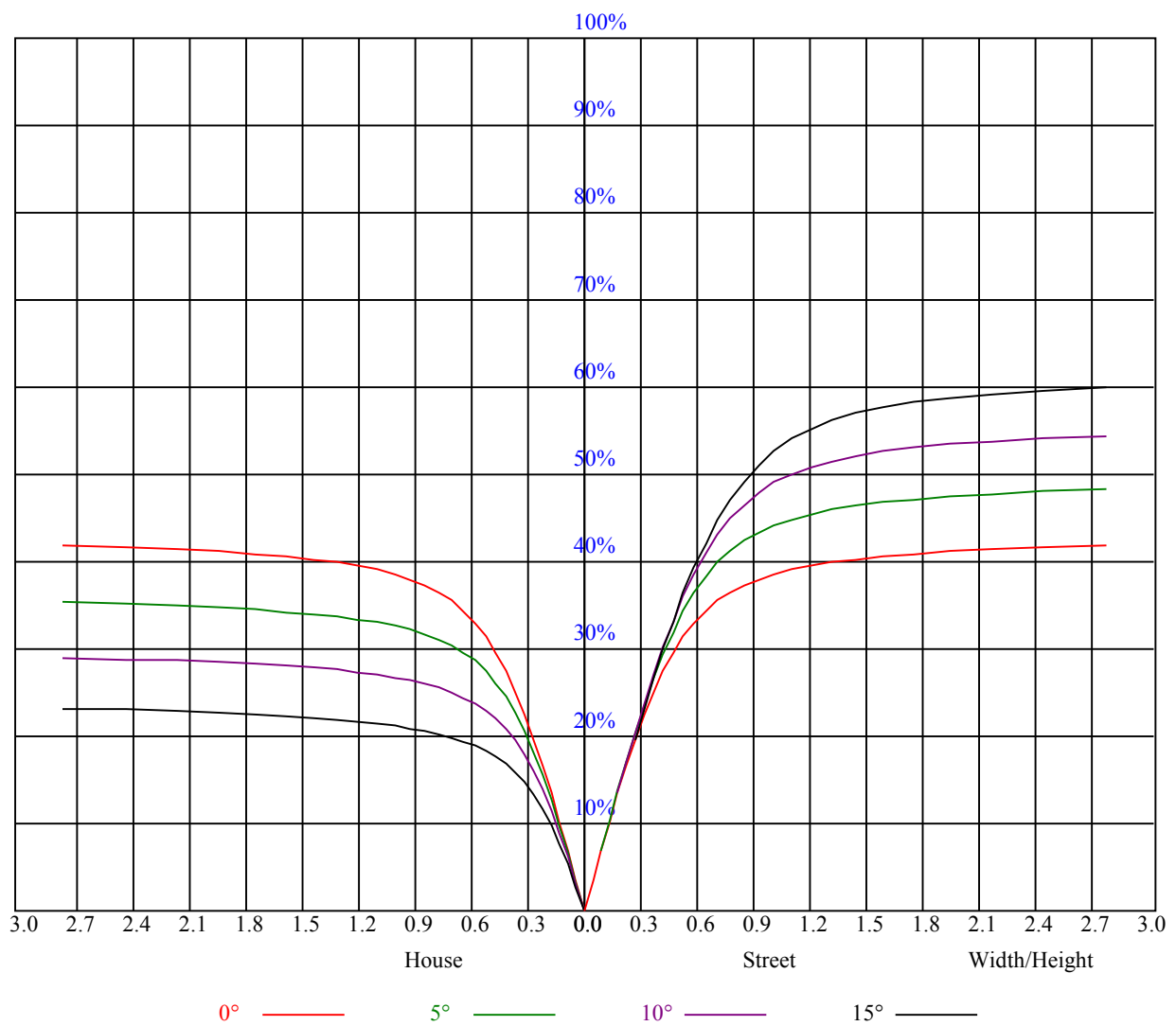


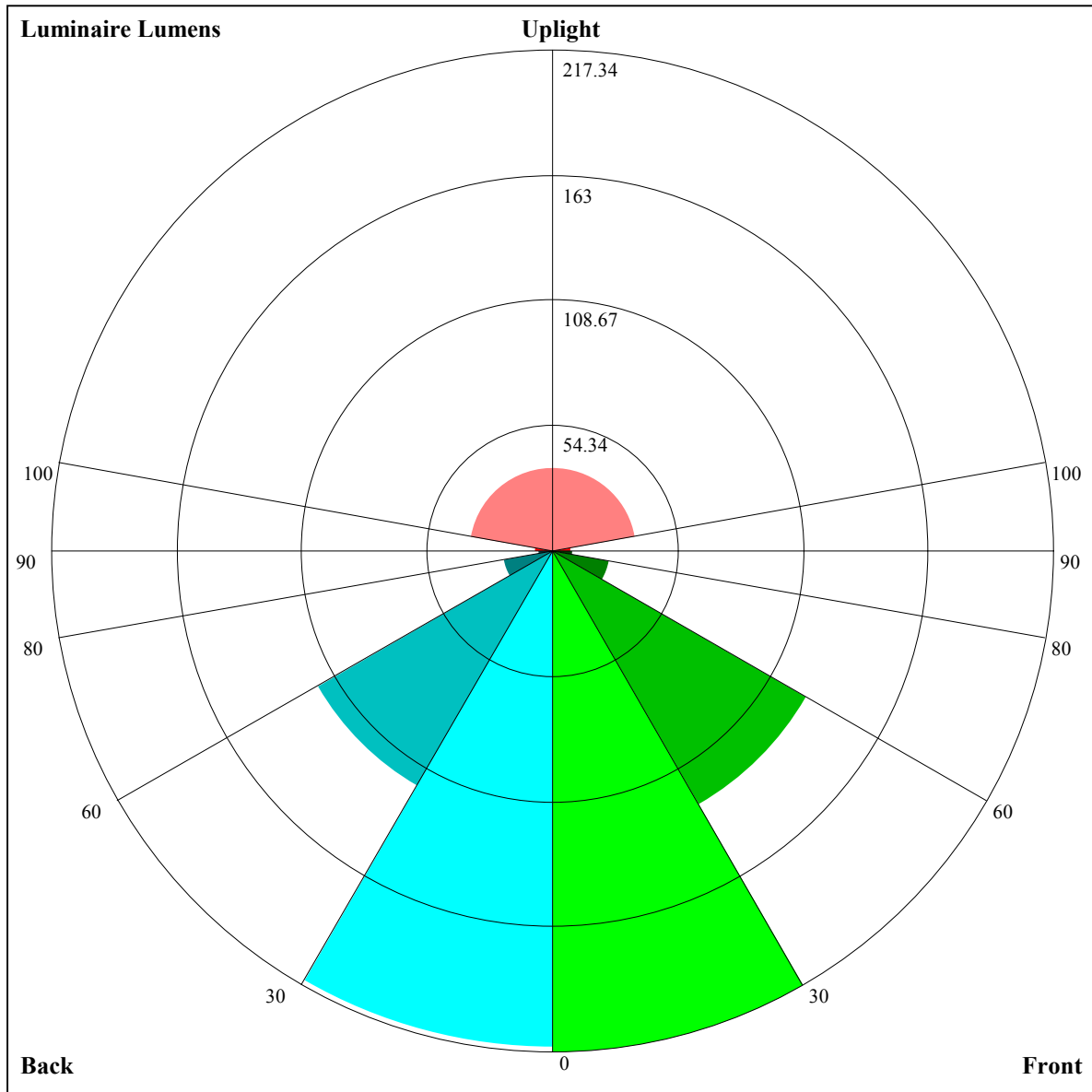






RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.93	0.90	0.88	0.91	0.89	0.86	0.88	0.86	0.84	0.84	0.83	0.81	0.81	0.80	0.79	0.77
2	0.85	0.81	0.77	0.84	0.79	0.76	0.81	0.77	0.74	0.78	0.75	0.73	0.75	0.73	0.71	0.70
3	0.78	0.73	0.69	0.77	0.72	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.70	0.67	0.65	0.63
4	0.72	0.66	0.62	0.71	0.66	0.61	0.69	0.64	0.61	0.67	0.63	0.60	0.65	0.62	0.59	0.58
5	0.67	0.61	0.56	0.66	0.60	0.56	0.64	0.59	0.56	0.63	0.58	0.55	0.61	0.58	0.55	0.53
6	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.51	0.59	0.54	0.51	0.57	0.53	0.50	0.49
7	0.58	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.45
8	0.54	0.48	0.44	0.54	0.48	0.44	0.53	0.48	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.42
9	0.51	0.45	0.41	0.50	0.45	0.41	0.50	0.45	0.41	0.49	0.44	0.41	0.48	0.44	0.41	0.40
10	0.48	0.42	0.39	0.48	0.42	0.39	0.47	0.42	0.39	0.46	0.42	0.38	0.45	0.41	0.38	0.37





Luminaire Lumens:

FL=217.34,FM=126.86,FH=25.23,FVH=8.51

BL=215.4,BM=118.05,BH=22.03,BVH=6.47

UL=7.69,UH=36.58

BUG Rating:B1-U2-G0

Intensity data(cd)

Appendix Page: 15 Total:15

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	704.08	702.45	681.08	633.38	548.10	443.25	343.80	233.38	151.99
45.0	698.01	701.04	683.83	626.79	542.98	432.90	320.63	215.27	139.56
90.0	697.44	688.73	669.99	617.29	537.64	425.36	313.99	197.21	129.38
135.0	704.93	693.56	666.96	625.05	548.38	440.38	336.09	220.22	135.73
180.0	704.08	688.50	661.89	612.23	525.54	422.61	312.13	201.38	122.57
225.0	698.01	686.93	663.53	613.41	530.16	414.68	306.39	195.24	118.41
270.0	697.44	693.73	674.16	632.42	545.91	430.37	324.23	212.40	130.56
315.0	704.93	696.15	666.96	612.51	528.81	422.94	313.76	204.75	138.49
360.0	704.08	702.45	681.08	633.38	548.10	443.25	343.80	233.38	151.99

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	98.55	67.44	48.99	37.07	26.27	20.98	18.56	19.63	16.76
45.0	90.06	65.31	45.90	34.31	26.04	20.59	17.10	15.08	13.56
90.0	81.39	58.05	43.59	32.79	24.58	20.48	17.72	15.69	13.89
135.0	83.03	58.05	42.86	32.01	24.02	19.01	19.35	23.57	13.67
180.0	75.38	54.06	40.56	30.83	22.73	19.29	18.00	17.49	10.97
225.0	73.58	52.82	41.51	31.28	23.29	18.73	15.53	13.89	10.41
270.0	80.89	59.34	45.34	34.93	26.72	21.43	17.78	15.98	13.33
315.0	96.58	71.55	56.48	45.73	36.11	30.54	30.54	29.64	28.91
360.0	98.55	67.44	48.99	37.07	26.27	20.98	18.56	19.63	16.76

C/γ(°)	90.0
0.0	6.36
45.0	6.30
90.0	6.58
135.0	5.96
180.0	3.43
225.0	3.49
270.0	7.03
315.0	17.21
360.0	6.36