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Nata

LumCAT: 2-1033-E
Luminaire: 92.76.233.00
Report No: 2017010013
Test No: 20171000013
LampCAT: PL-CORE-AC-800-827-G2
Lamp flux(lm): 735.6
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 218.0000
Current(A): 0.0370
Power (W): 8.0000
PF: 0.9850
Ballast type: AC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 658.57
Efficiency(%): 89.53%
Lumens(lm)/Power(W): 82.83
Central intensity(cd): 787.802
Maximum intensity(cd): 791.326
Angle of maximum intensity: C=90.0 $\gamma=0.0$
Beam Angle(50%Imax): [C0/180]Total=58.8
 [C90/270]Total=59.4
Field angle(10%Imax): [C0/180]Total=78.8
 [C90/270]Total=78.8
Maximum s/h(1/2): C0_180=0.89 C90_270=0.90
Maximum s/h(1/4): C0_180=0.89 C90_270=0.89
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.09%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.051%

Equipment: gms1980
Temperature(°C): 25.0

Date: 2017/1/7
Humidity(%): 60.0%

Operator: NT03
Distance(m): 7.42

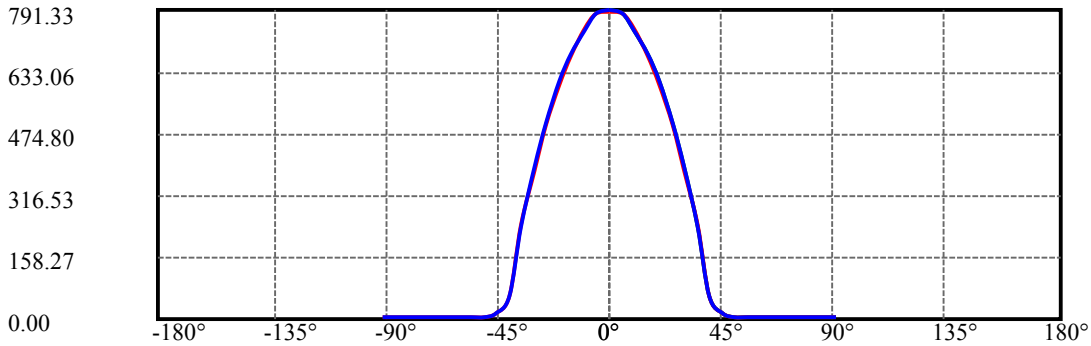
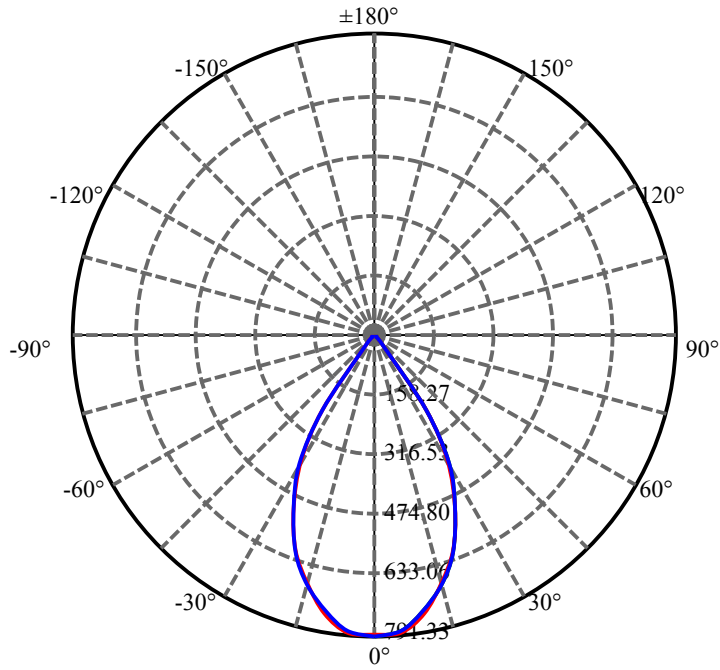
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	790.156	4.725	4.725	.642%	.718%
5.0	782.930	37.403	42.128	5.085%	6.397%
10.0	739.724	70.409	112.538	9.572%	17.088%
15.0	676.519	95.977	208.514	13.048%	31.662%
20.0	605.490	113.514	322.028	15.432%	48.898%
25.0	499.885	115.800	437.828	15.743%	66.482%
30.0	385.725	105.715	543.543	14.372%	82.534%
35.0	238.828	75.087	618.63	10.208%	93.935%
40.0	56.206	19.803	638.433	2.692%	96.942%
45.0	14.322	5.551	643.984	.755%	97.785%
50.0	5.650	2.372	646.357	.323%	98.146%
55.0	3.971	1.783	648.14	.242%	98.416%
60.0	3.400	1.614	649.753	.219%	98.661%
65.0	3.235	1.607	651.36	.218%	98.905%
70.0	3.152	1.624	652.984	.221%	99.152%
75.0	3.042	1.611	654.594	.219%	99.396%
80.0	2.980	1.609	656.203	.219%	99.641%
85.0	2.918	1.593	657.796	.217%	99.883%
90.0	2.822	0.773	658.57	.105%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	543.54	73.90%	82.53%
0-40	638.43	86.80%	96.94%
0-60	649.75	88.33%	98.66%
0-90	657.80	89.43%	99.88%
0-120	657.80	89.43%	99.88%
0-180	658.57	89.53%	100.00%
60-90	9.66	1.31%	1.47%
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%
0-29.21	526.86	71.63%	80.00%

ZONAL LUMEN SUMMARY

0-10	112.54
10-20	209.49
20-30	221.51
30-40	94.89
40-50	7.92
50-60	3.40
60-70	3.23
70-80	3.22
80-90	1.59
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



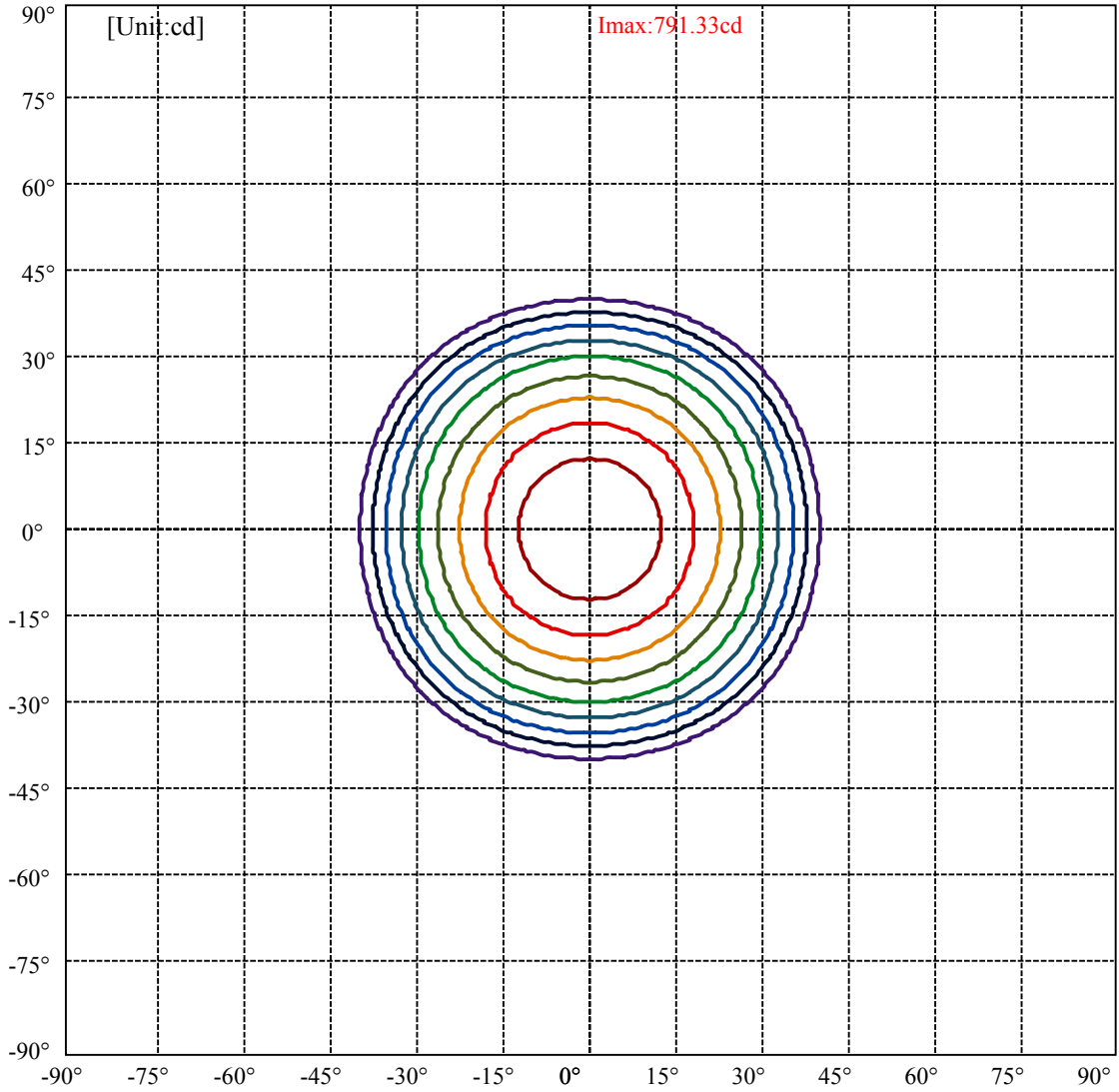
C90(Max): ———

C0/C180: ———

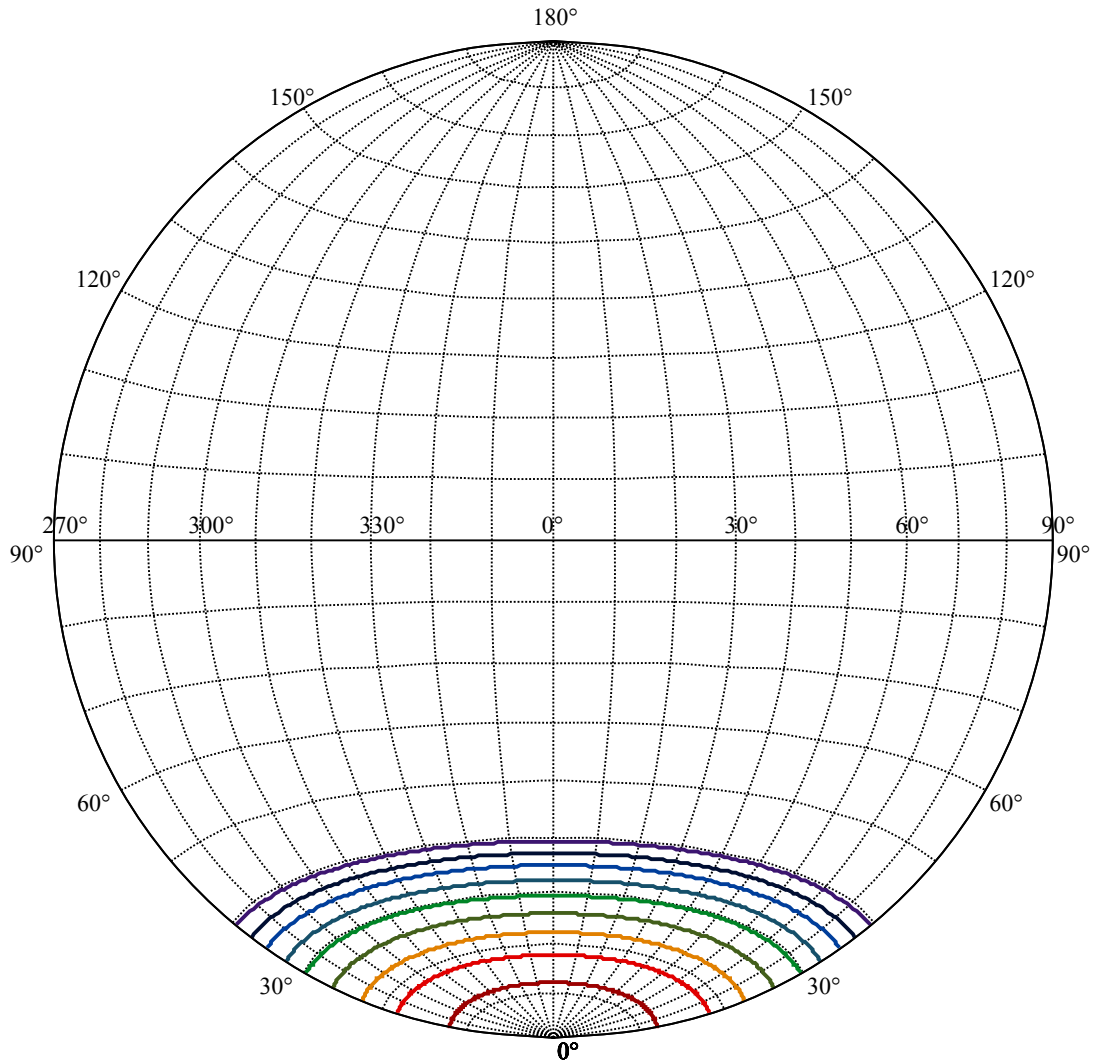
C90/C270: ———

Field angle(10%Imax):C0/180Left:39.4 Right:39.4
:C90/270Left:39.4 Right:39.4

Beam Angle(50%Imax):C0/180Left:29.4 Right:29.4
:C90/270Left:29.7 Right:29.7



(10%Imax) 79.1326	—
(20%Imax) 158.265	—
(30%Imax) 237.398	—
(40%Imax) 316.53	—
(50%Imax) 395.663	—
(60%Imax) 474.795	—
(70%Imax) 553.928	—
(80%Imax) 633.06	—
(90%Imax) 712.193	—



House

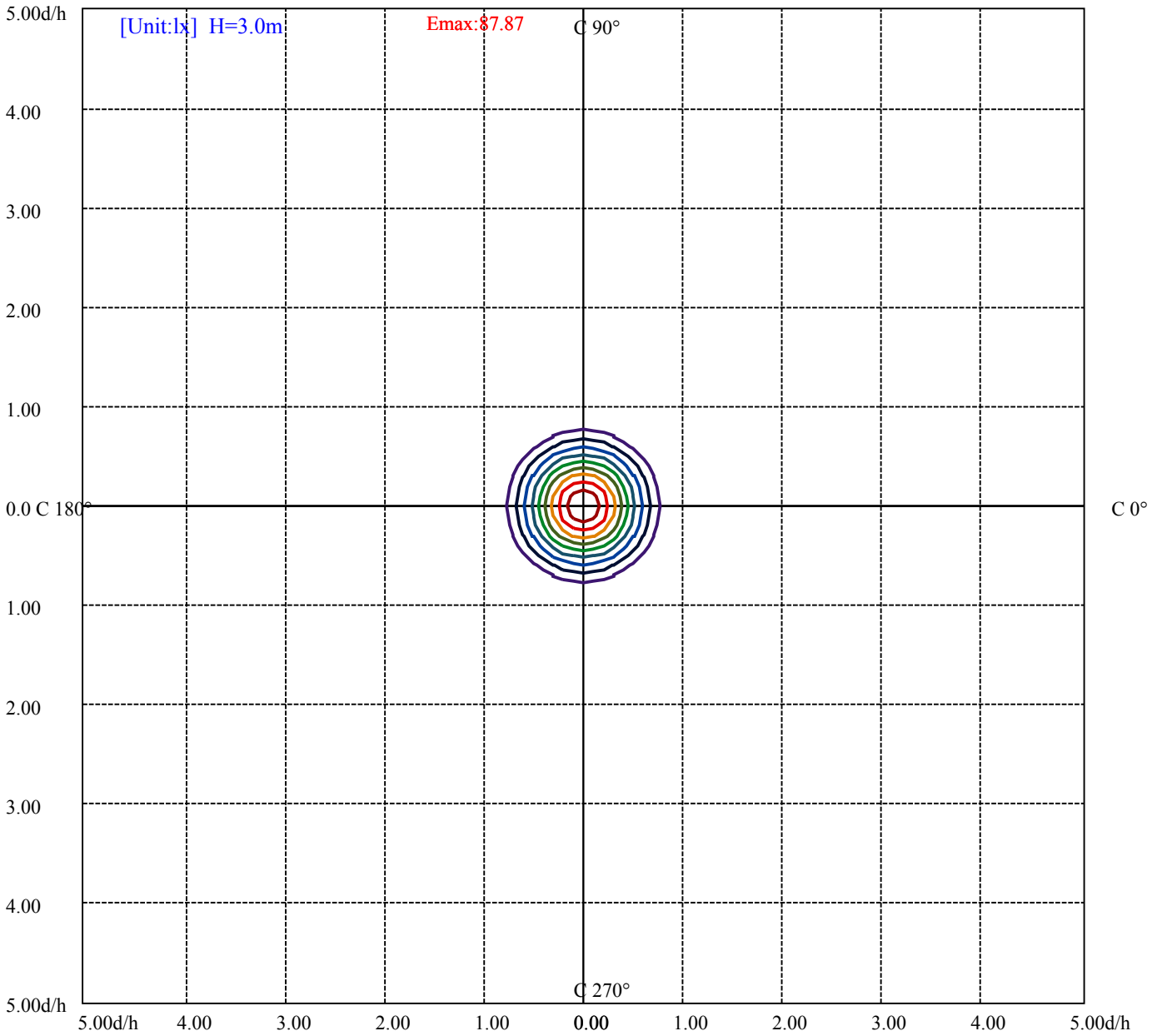
[Unit:cd]

Road

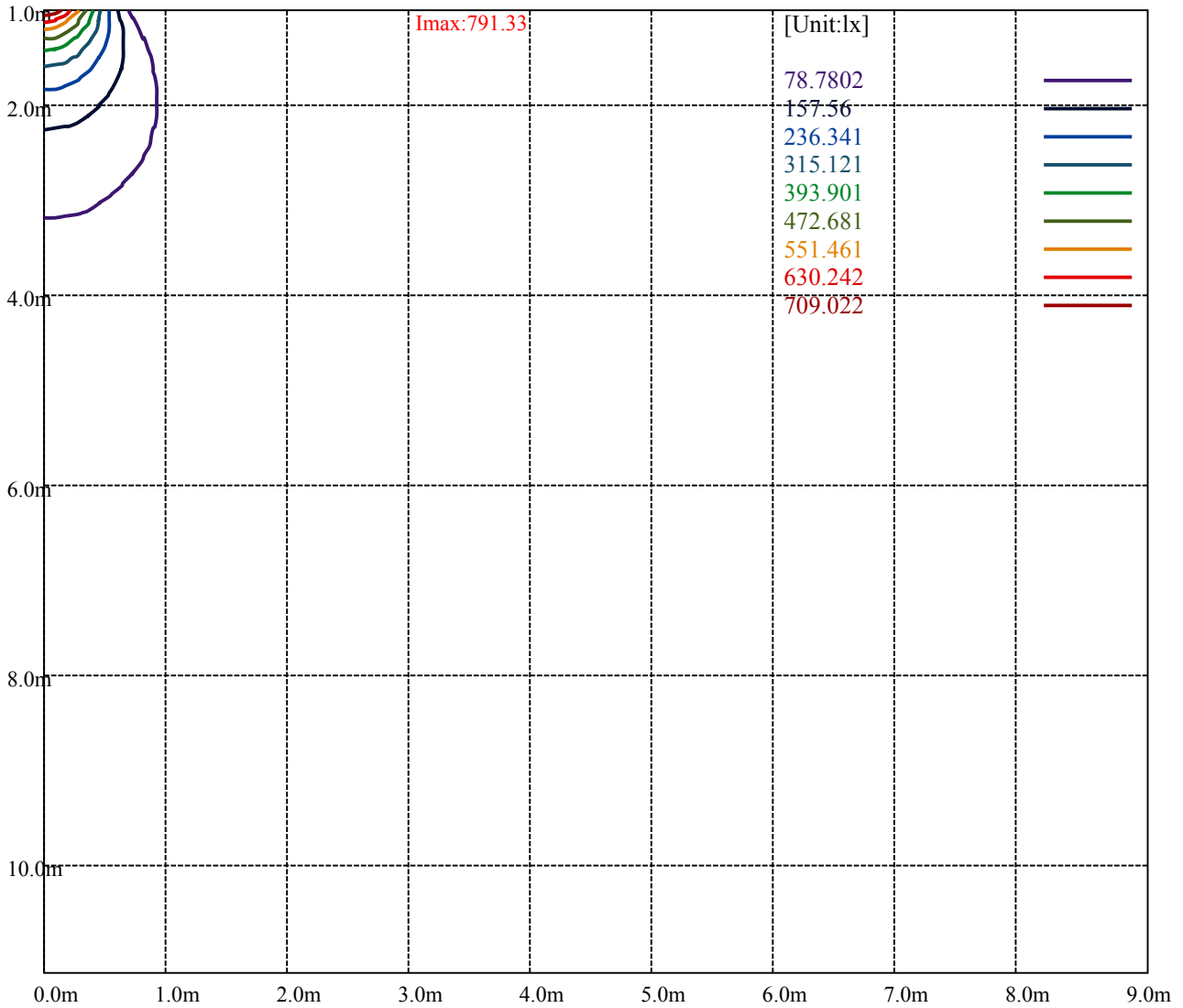
Imax:791.33

- (10%Imax) 79.1326
- (20%Imax) 158.265
- (30%Imax) 237.398
- (40%Imax) 316.53
- (50%Imax) 395.663
- (60%Imax) 474.795
- (70%Imax) 553.928
- (80%Imax) 633.06
- (90%Imax) 712.193





- (10%Emax) 8.787
- (20%Emax) 17.574
- (30%Emax) 26.361
- (40%Emax) 35.148
- (50%Emax) 43.935
- (60%Emax) 52.722
- (70%Emax) 61.509
- (80%Emax) 70.296
- (90%Emax) 79.083



Luminance Table

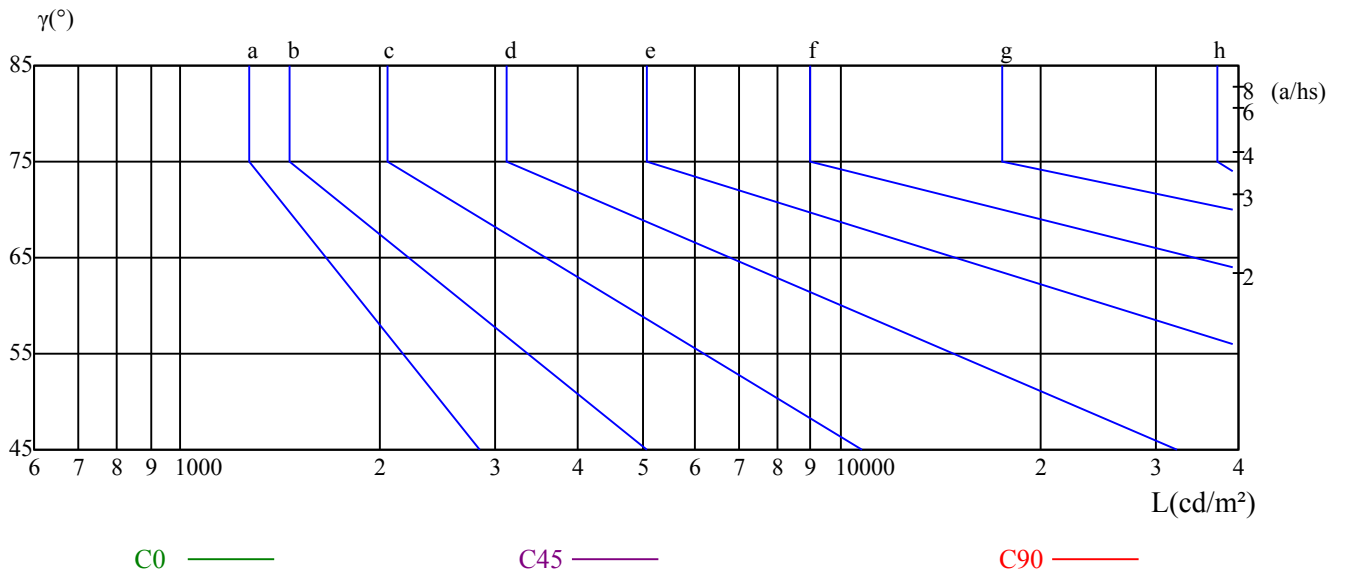
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

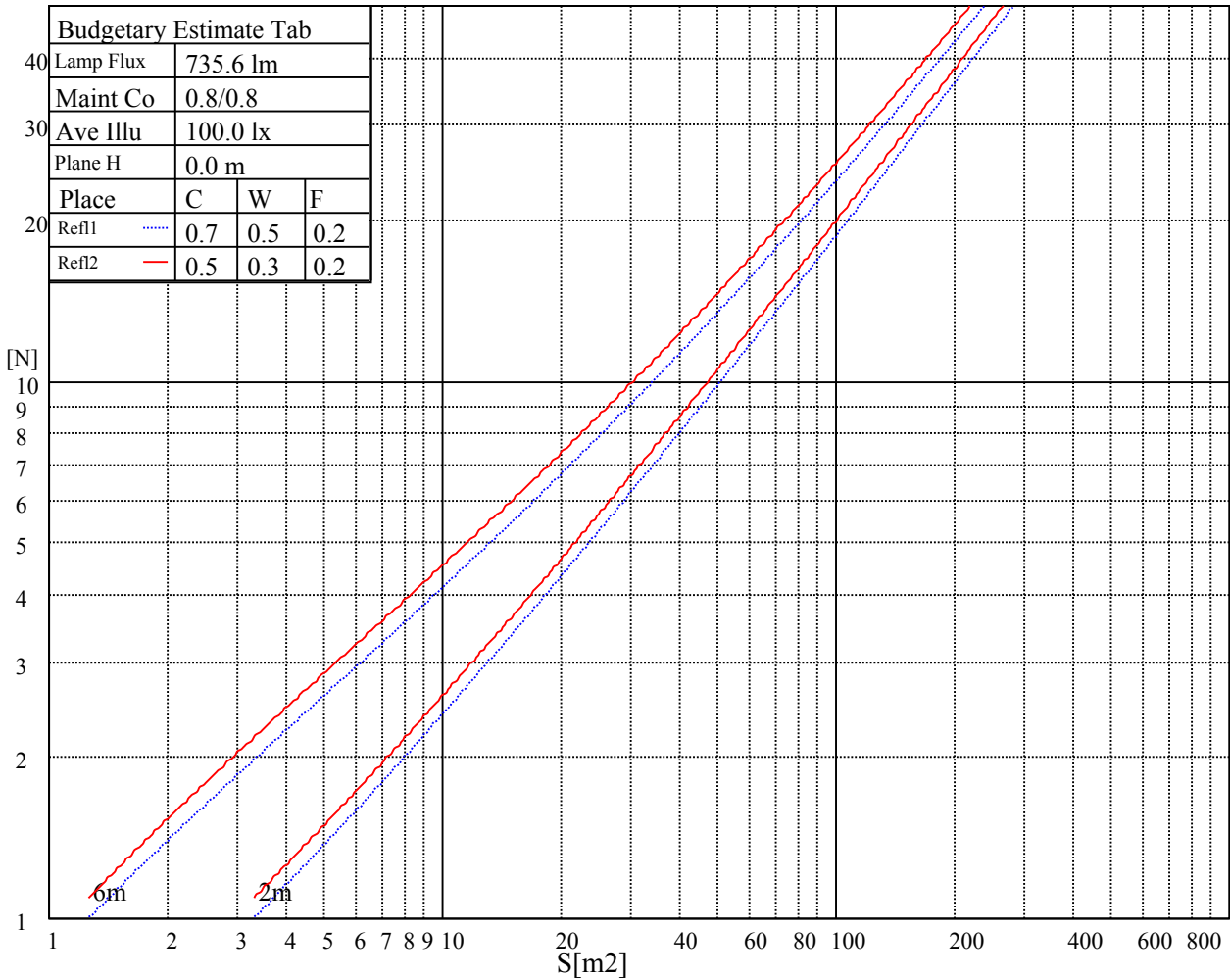
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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 RHOF=20 CU															
0	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	0.99	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.90	0.87	0.92	0.88	0.86	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.79
3	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.74
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	0.74	0.71	0.70
5	0.78	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.66
6	0.74	0.69	0.65	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.63
7	0.70	0.65	0.62	0.70	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.60
8	0.67	0.62	0.58	0.66	0.62	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.57
9	0.64	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.54
10	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.51

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	787.80	788.57	744.25	671.63	606.39	505.36	387.49	248.97	62.43
45.0	790.83	785.54	743.70	679.51	610.36	500.41	386.61	234.93	51.04
90.0	791.33	773.71	720.19	652.97	584.31	476.46	369.92	186.42	40.69
135.0	790.66	782.46	738.80	671.58	604.41	504.21	389.74	242.47	63.31
180.0	787.80	778.44	740.34	675.10	597.25	491.05	372.18	228.76	52.03
225.0	790.83	784.00	740.95	678.40	608.15	502.55	389.74	250.23	57.97
270.0	791.33	789.07	750.20	703.40	631.94	527.77	407.86	289.16	74.22
315.0	790.66	781.64	739.35	679.56	601.11	491.27	382.26	229.70	47.95
360.0	787.80	788.57	744.25	671.63	606.39	505.36	387.49	248.97	62.43
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	15.86	5.34	3.91	3.41	3.19	3.14	3.03	2.97	2.92
45.0	12.83	5.56	3.96	3.36	3.19	3.14	3.03	3.03	2.92
90.0	12.61	5.12	3.80	3.36	3.30	3.25	3.08	2.97	2.92
135.0	15.42	5.56	4.02	3.41	3.25	3.14	3.03	2.97	2.97
180.0	12.55	5.67	3.91	3.36	3.19	3.14	3.03	2.97	2.92
225.0	15.53	5.84	4.02	3.36	3.25	3.14	3.03	2.97	2.92
270.0	17.12	6.61	4.24	3.52	3.30	3.14	3.08	2.97	2.92
315.0	12.66	5.51	3.91	3.41	3.19	3.14	3.03	2.97	2.86
360.0	15.86	5.34	3.91	3.41	3.19	3.14	3.03	2.97	2.92
C/γ(°)	90.0								
0.0	2.81								
45.0	2.86								
90.0	2.81								
135.0	2.81								
180.0	2.81								
225.0	2.86								
270.0	2.81								
315.0	2.81								
360.0	2.81								