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Nata

LumCAT: 12-0080-M	
Luminaire: LM07126080EM	
Report No: 220524-B006	Voltage(V): 12.6600
Test No: 220524-C006	Current(A): 1.1150
LampCAT: LUMILEDS 5050	Power (W): 14.1150
Lamp flux(lm): 1682.8	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1214.25
Efficiency(%): 72.16%
Lumens(lm)/Power(W): 86.03
Central intensity(cd): 649.753
Maximum intensity(cd): 661.524
Angle of maximum intensity: C=90.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=83.7
 [C90/270]Total=86.5
Field angle(10%Imax): [C0/180]Total=114.5
 [C90/270]Total=114.7
Maximum s/h(1/2): C0_180=1.21 C90_270=1.21
Maximum s/h(1/4): C0_180=1.20 C90_270=1.21
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 72.16%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 94.476%

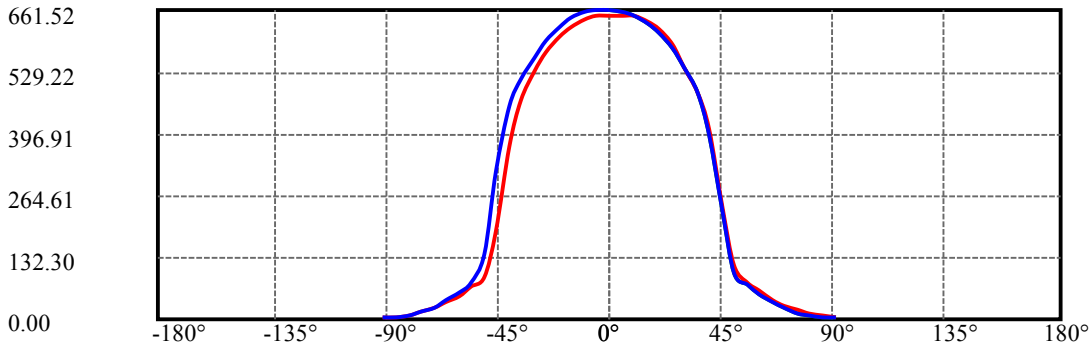
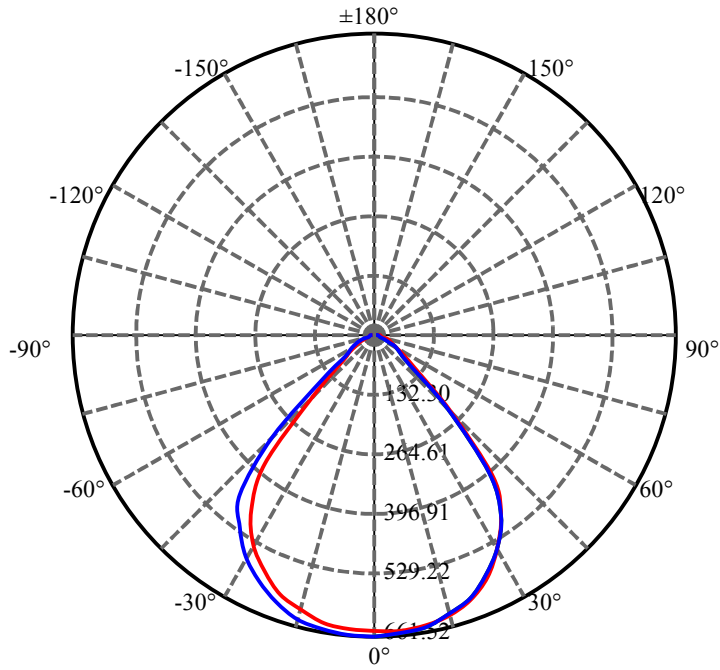
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	654.974	0.000	0	.000%	.000%
5.0	653.185	15.639	15.639	.929%	1.288%
10.0	647.475	46.529	62.167	2.765%	5.120%
15.0	634.789	76.063	138.23	4.520%	11.384%
20.0	615.675	103.056	241.286	6.124%	19.871%
25.0	586.060	126.040	367.326	7.490%	30.251%
30.0	547.546	143.459	510.785	8.525%	42.066%
35.0	495.796	153.639	664.424	9.130%	54.719%
40.0	428.686	154.243	818.667	9.166%	67.421%
45.0	309.550	136.690	955.357	8.123%	78.679%
50.0	175.939	98.100	1053.457	5.829%	86.758%
55.0	92.703	58.412	1111.869	3.471%	91.568%
60.0	60.029	35.304	1147.173	2.098%	94.476%
65.0	40.949	24.548	1171.721	1.459%	96.497%
70.0	26.949	17.192	1188.913	1.022%	97.913%
75.0	16.193	11.277	1200.19	.670%	98.842%
80.0	9.844	6.967	1207.156	.414%	99.416%
85.0	5.964	4.296	1211.452	.255%	99.769%
90.0	4.269	2.802	1214.254	.166%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	510.78	30.35%	42.07%
0-40	818.67	48.65%	67.42%
0-60	1147.17	68.17%	94.48%
0-90	1211.45	71.99%	99.77%
0-120	1211.45	71.99%	99.77%
0-180	1214.25	72.16%	100.00%
60-90	99.58	5.92%	8.20%
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%
0-45.82	971.40	57.72%	80.00%

ZONAL LUMEN SUMMARY

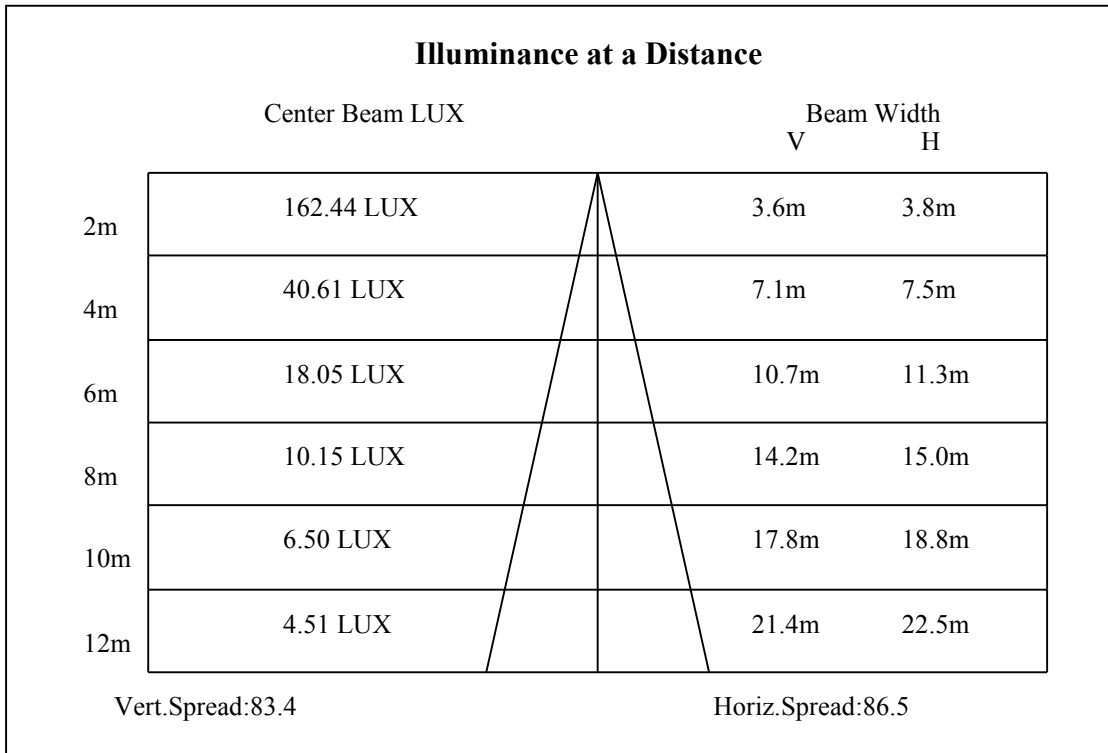
0-10	62.17
10-20	179.12
20-30	269.50
30-40	307.88
40-50	234.79
50-60	93.72
60-70	41.74
70-80	18.24
80-90	4.30
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

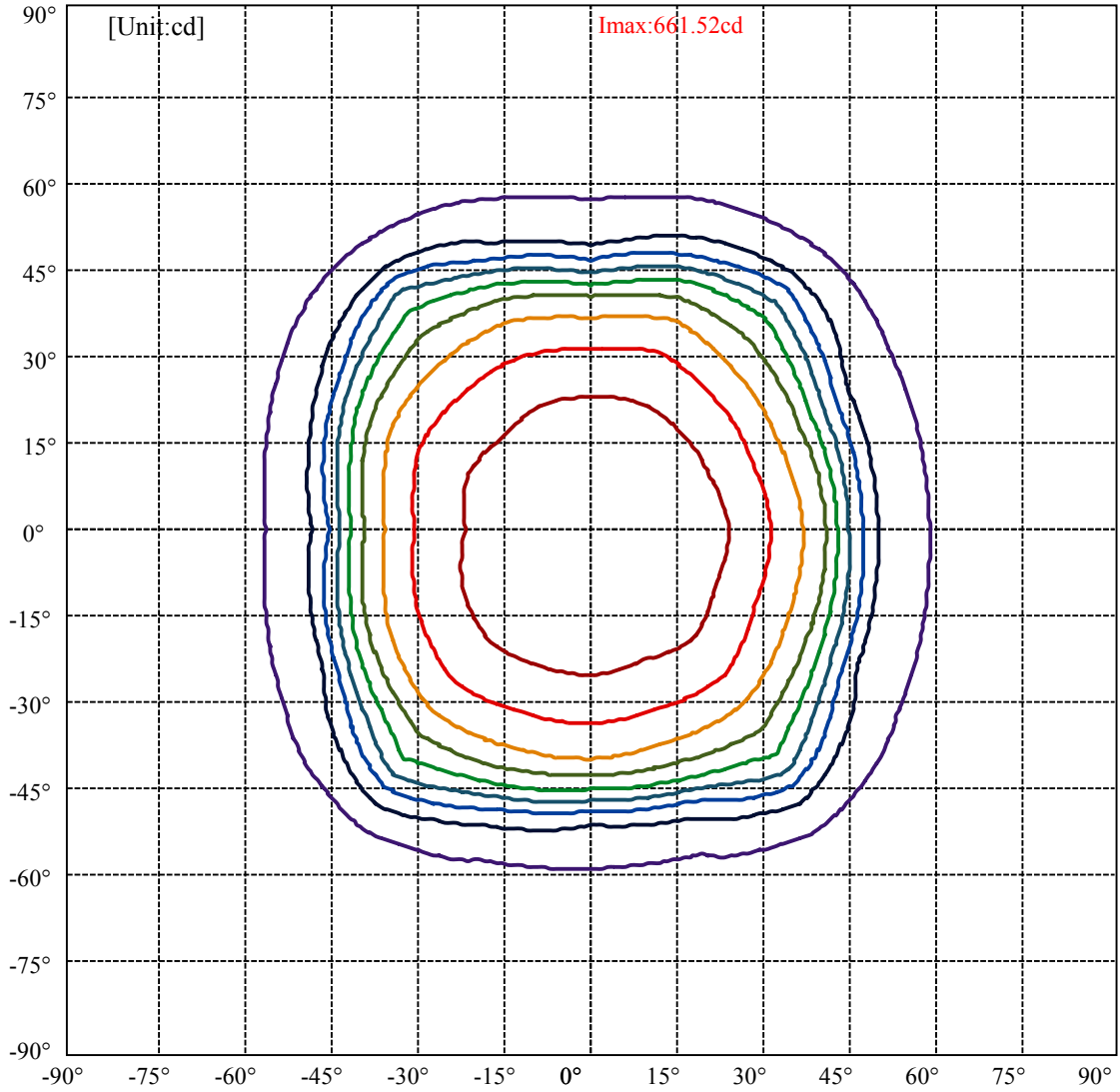


C90(Max): ———
 C0/C180: ———
 C90/C270: ———

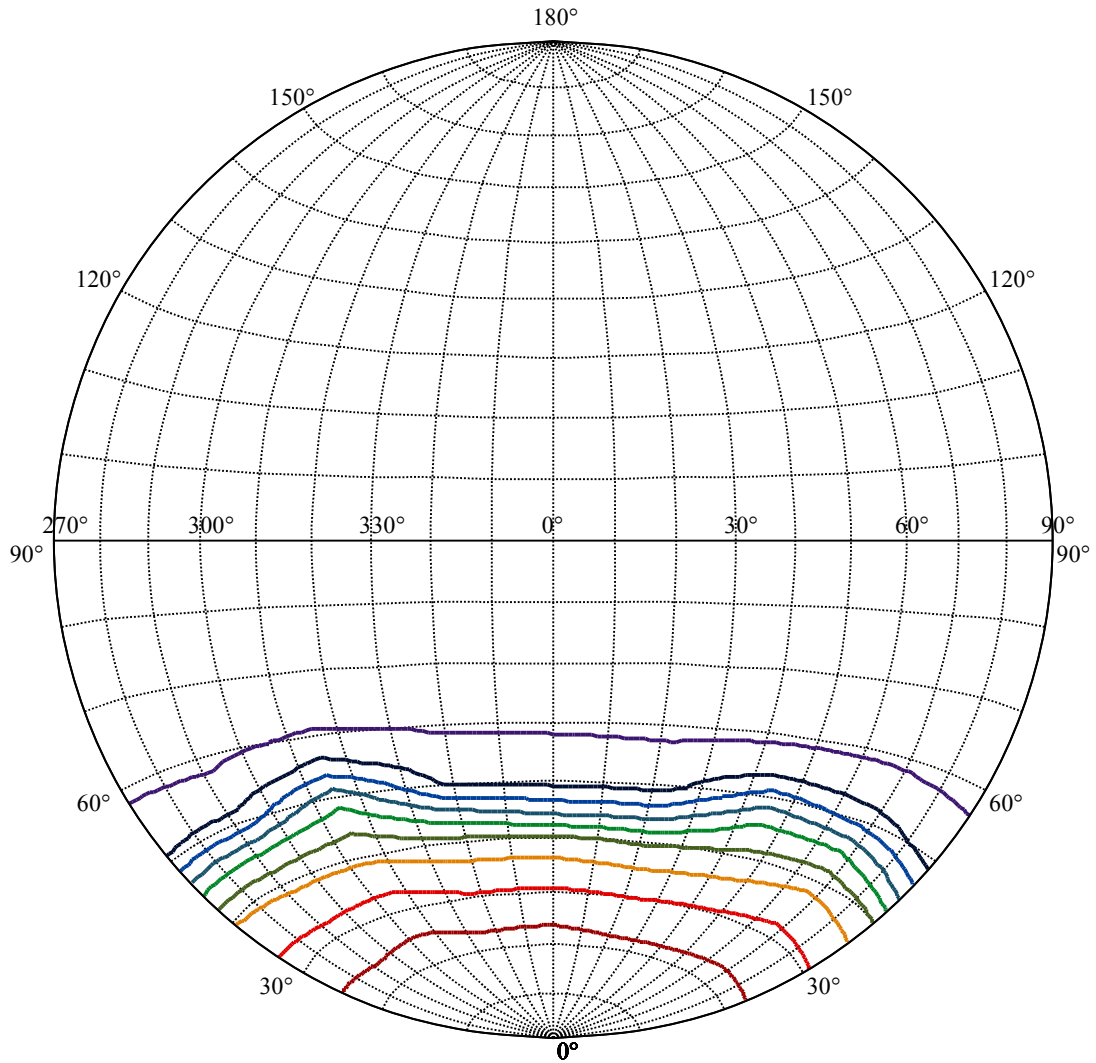
Field angle(10%Imax):C0/180Left:61.1 Right:53.4
 :C90/270Left:58.2 Right:56.5

Beam Angle(50%Imax):C0/180Left:46.3 Right:37.5
 :C90/270Left:44.5 Right:41.9





(10%Imax) 66.1524	—
(20%Imax) 132.305	—
(30%Imax) 198.457	—
(40%Imax) 264.61	—
(50%Imax) 330.762	—
(60%Imax) 396.915	—
(70%Imax) 463.067	—
(80%Imax) 529.219	—
(90%Imax) 595.372	—



House

[Unit:cd]

Road

Imax:661.52

(10%Imax) 66.1524

(20%Imax) 132.305

(30%Imax) 198.457

(40%Imax) 264.61

(50%Imax) 330.762

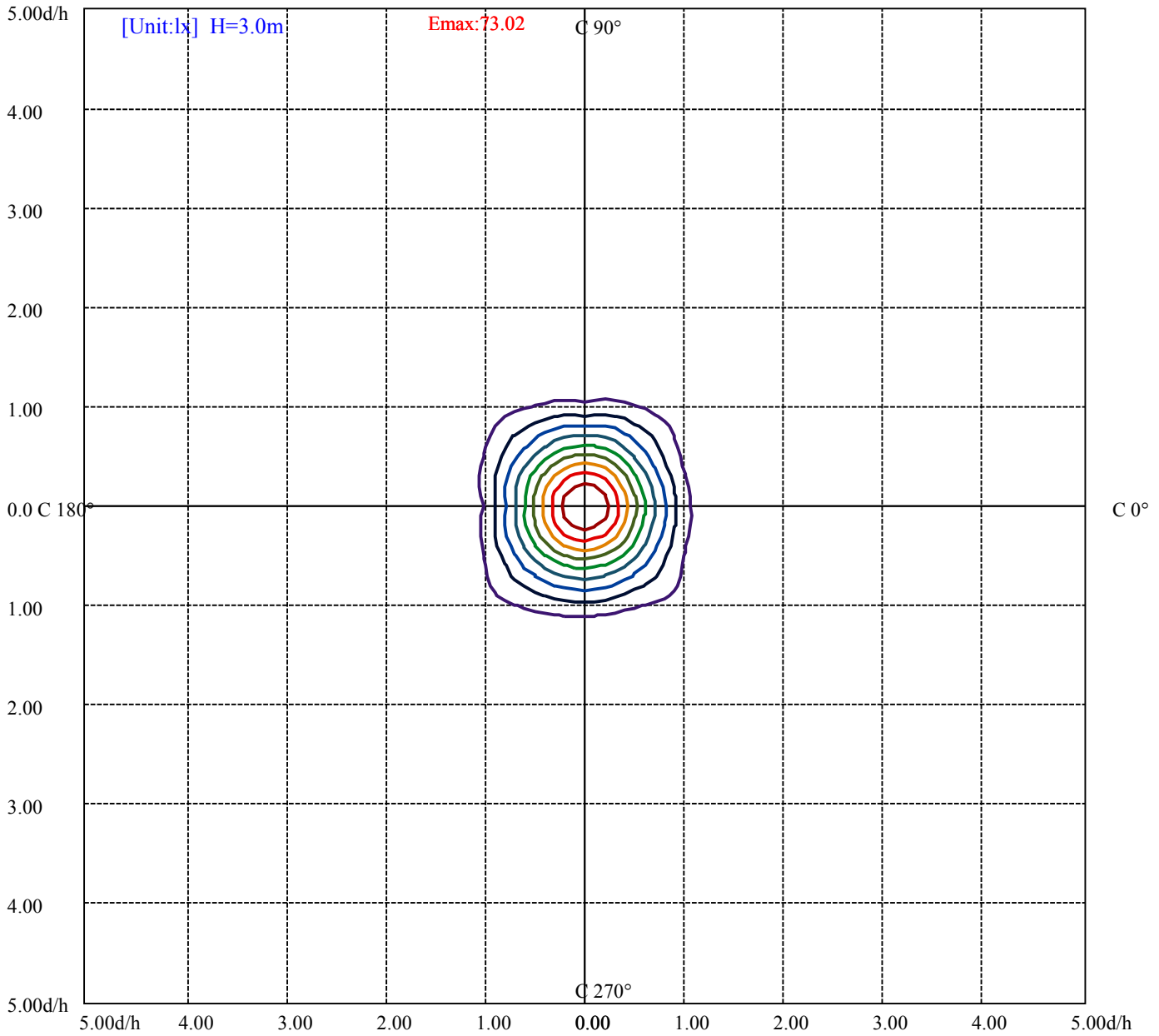
(60%Imax) 396.915

(70%Imax) 463.067

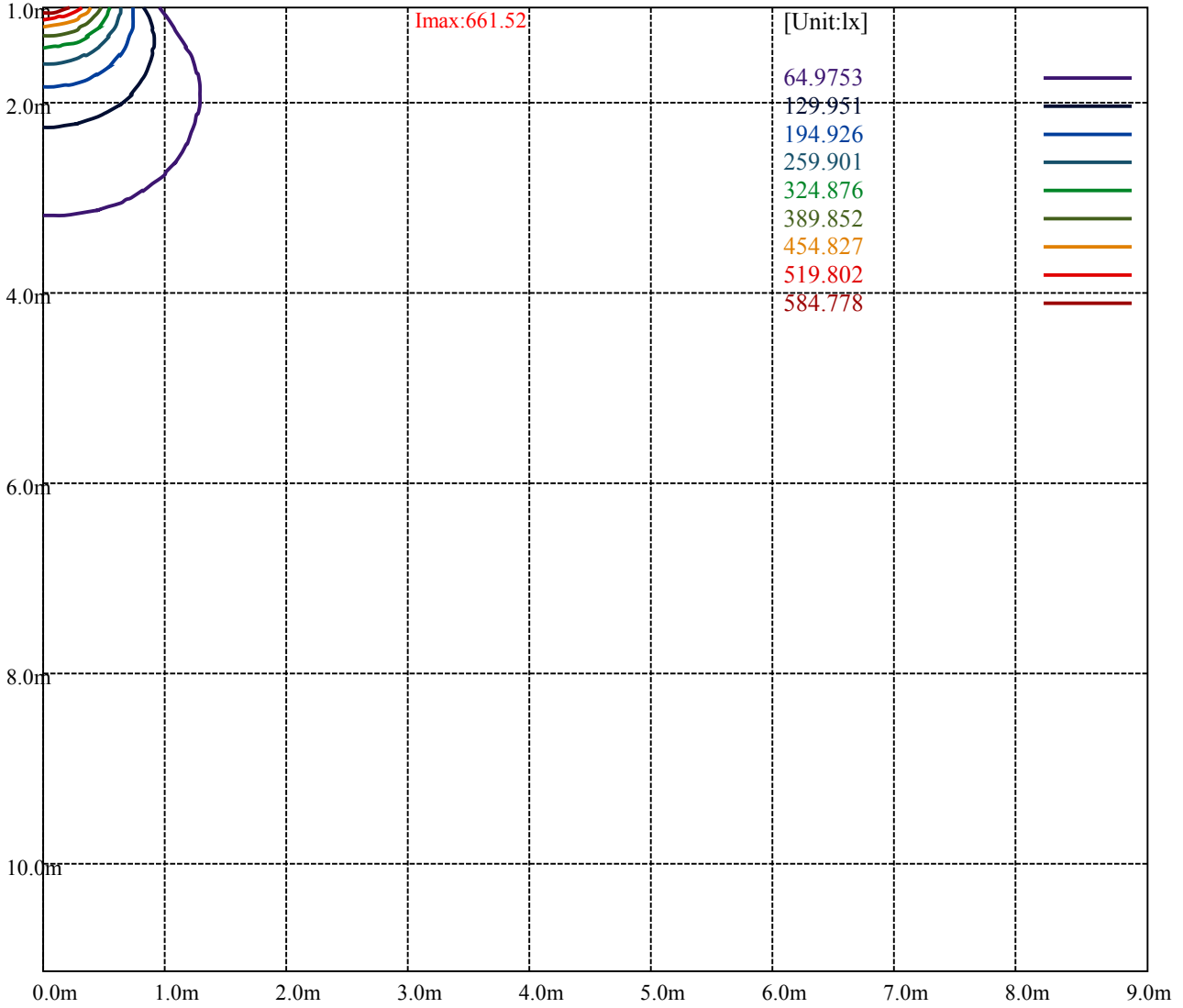
(80%Imax) 529.219

(90%Imax) 595.372





(10%Emax) 7.302466	—
(20%Emax) 14.60489	—
(30%Emax) 21.90745	—
(40%Emax) 29.20989	—
(50%Emax) 36.51233	—
(60%Emax) 43.81478	—
(70%Emax) 51.11722	—
(80%Emax) 58.41978	—
(90%Emax) 65.72222	—



Luminance Table

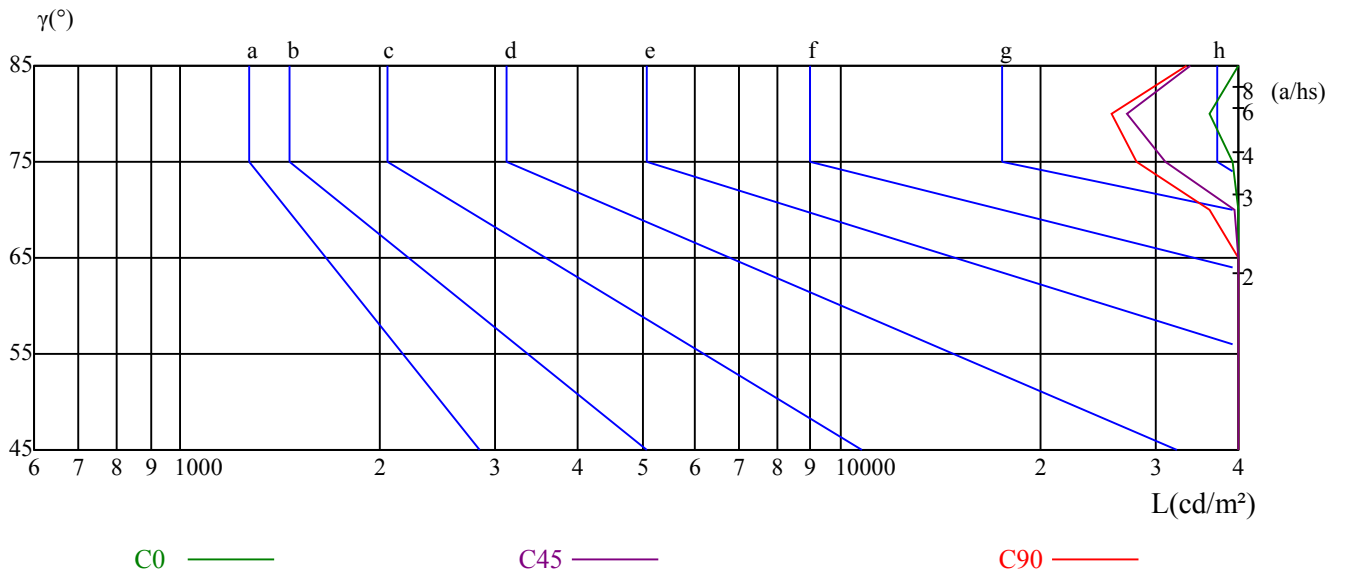
γ	45	50	55	60	65	70	75	80	85
C0	183266	95774	72512	64568	54292	47149	39206	36290	41899
C45	263245	195571	90203	61207	48480	39590	30965	27171	33742
C90	175359	84010	68174	56618	45804	36188	27969	25682	33371

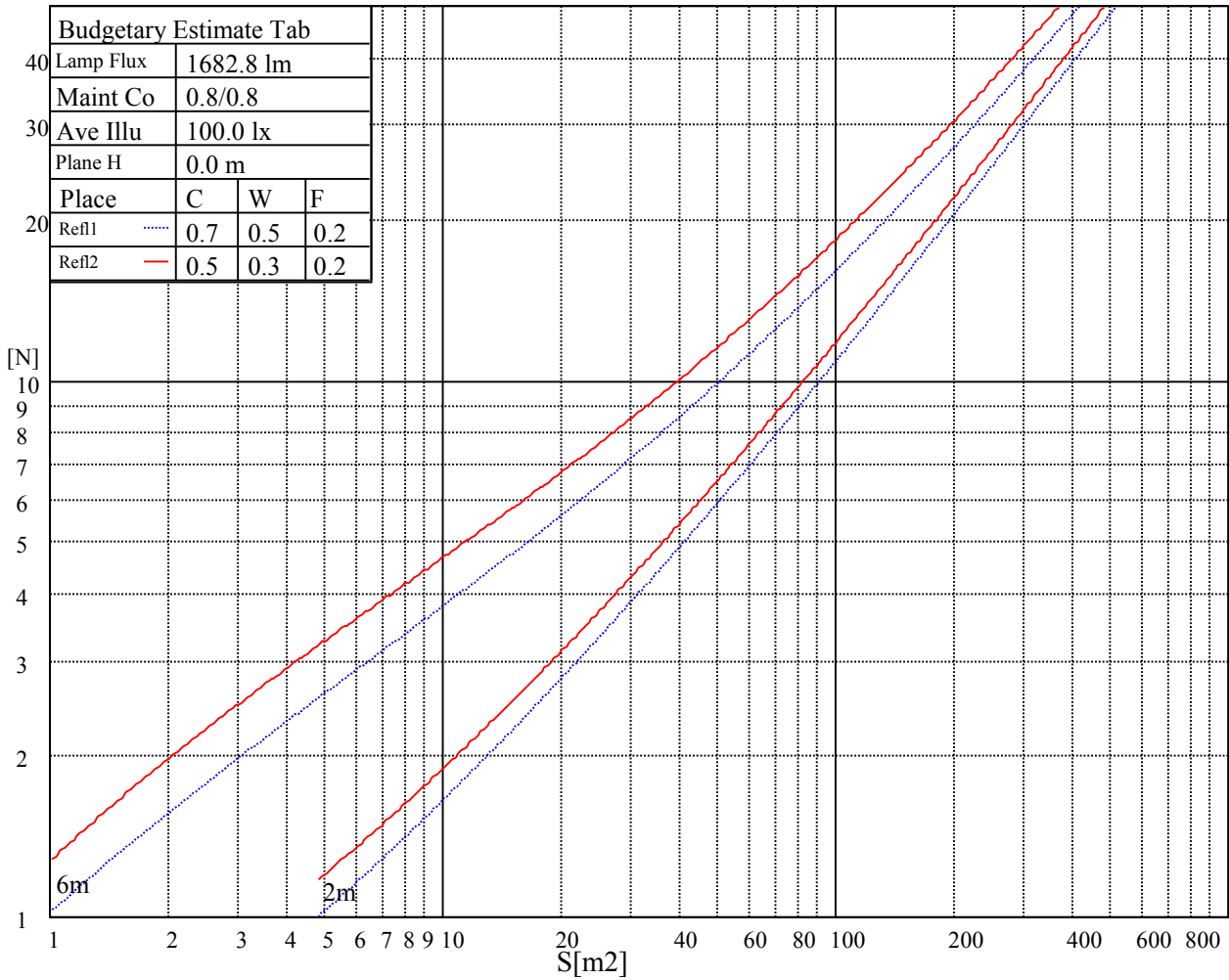
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
49704	48365	54196	35523	29779	34399	38747	34669	36986

Glare Table

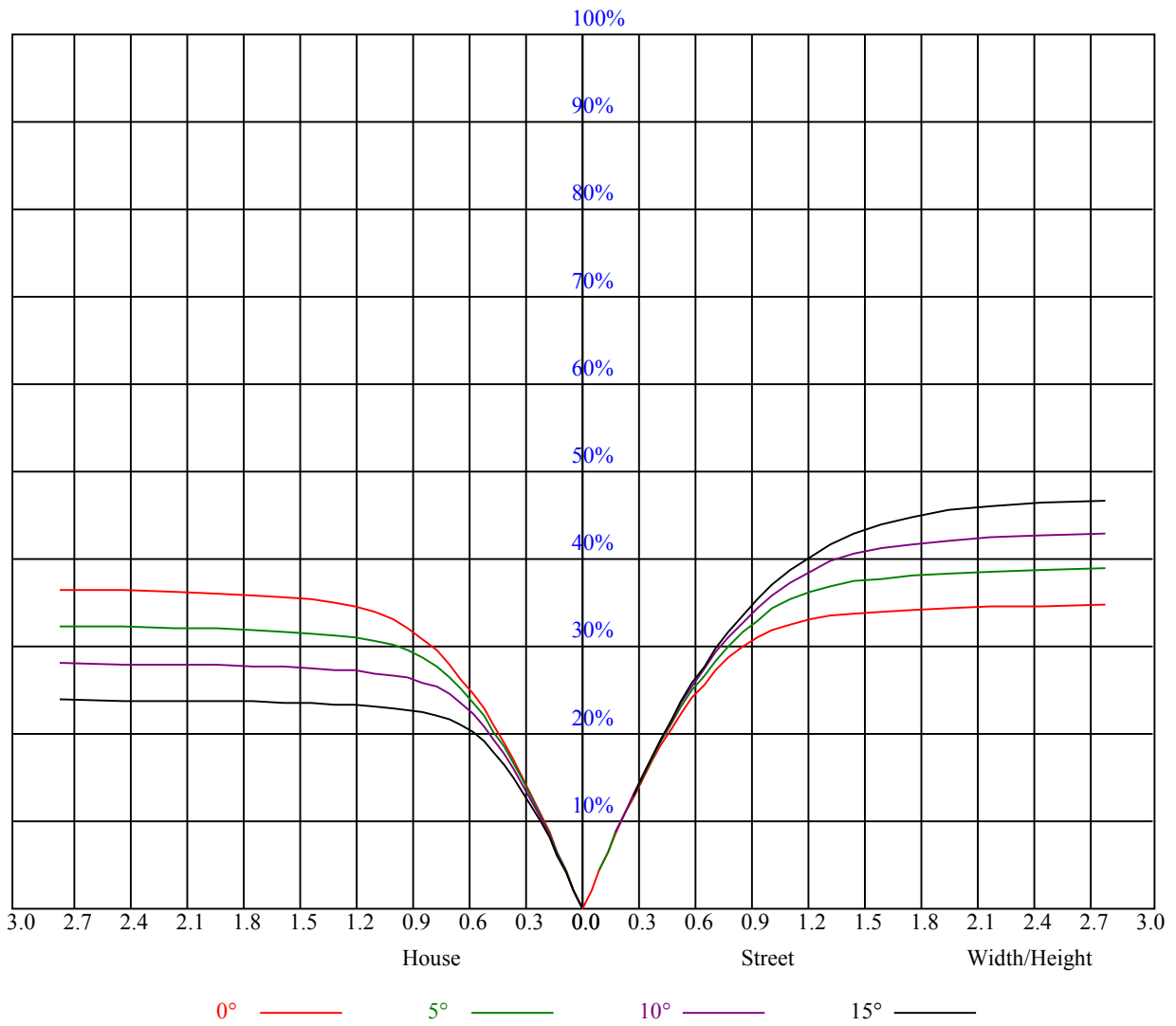
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.86	0.86	0.86	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77	0.74	0.74	0.74	0.72
1	0.78	0.76	0.74	0.76	0.74	0.72	0.73	0.72	0.70	0.71	0.69	0.68	0.68	0.67	0.66	0.65
2	0.70	0.67	0.63	0.69	0.66	0.63	0.67	0.64	0.61	0.64	0.62	0.60	0.62	0.60	0.59	0.57
3	0.64	0.59	0.55	0.63	0.58	0.55	0.61	0.57	0.54	0.59	0.56	0.53	0.57	0.55	0.52	0.51
4	0.58	0.53	0.49	0.57	0.52	0.49	0.55	0.51	0.48	0.54	0.50	0.47	0.52	0.49	0.47	0.45
5	0.53	0.47	0.44	0.52	0.47	0.43	0.51	0.46	0.43	0.49	0.45	0.42	0.48	0.45	0.42	0.41
6	0.48	0.43	0.39	0.48	0.43	0.39	0.47	0.42	0.39	0.45	0.41	0.38	0.44	0.41	0.38	0.37
7	0.44	0.39	0.35	0.44	0.39	0.35	0.43	0.38	0.35	0.42	0.38	0.35	0.41	0.37	0.34	0.33
8	0.41	0.36	0.32	0.41	0.35	0.32	0.40	0.35	0.32	0.39	0.35	0.32	0.38	0.34	0.31	0.30
9	0.38	0.33	0.29	0.38	0.32	0.29	0.37	0.32	0.29	0.36	0.32	0.29	0.35	0.32	0.29	0.28
10	0.35	0.30	0.27	0.35	0.30	0.27	0.34	0.30	0.27	0.34	0.29	0.26	0.33	0.29	0.26	0.25



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	649.75	650.29	647.72	638.22	620.24	587.55	539.33	485.73	407.81
22.5	655.73	653.46	648.02	634.93	613.78	573.87	527.56	465.24	385.53
45.0	657.22	652.20	645.57	631.11	608.34	581.04	534.49	475.81	413.73
67.5	656.62	655.31	649.51	635.71	614.32	585.16	550.20	505.69	440.62
90.0	661.52	657.70	648.80	634.22	612.59	580.38	538.13	485.31	395.03
112.5	652.98	650.47	643.90	631.29	610.91	583.25	545.84	496.31	439.36
135.0	650.53	647.30	638.94	623.58	602.91	578.23	543.75	492.90	435.84
157.5	655.43	651.43	645.39	630.81	613.96	583.07	552.54	500.07	435.00
180.0	649.75	648.38	641.09	625.61	604.94	572.49	531.38	468.70	371.07
202.5	655.73	652.98	645.45	636.07	618.62	589.16	555.10	502.70	437.81
225.0	657.22	655.55	650.17	640.67	624.42	598.84	566.22	525.47	469.00
247.5	656.62	655.25	651.84	635.83	621.67	595.20	559.94	513.22	456.93
270.0	661.52	661.40	655.37	643.60	623.88	595.50	560.48	513.76	455.74
292.5	652.98	652.74	647.66	635.95	618.80	589.94	554.87	505.21	445.28
315.0	650.53	649.99	647.48	638.34	623.10	598.66	564.37	513.10	450.12
337.5	655.43	656.51	652.68	640.67	618.32	584.62	536.52	483.52	420.12
360.0	649.75	650.29	647.72	638.22	620.24	587.55	539.33	485.73	407.81

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	239.61	113.83	76.90	59.69	42.42	29.82	18.76	11.65	6.75
22.5	235.37	105.94	74.51	56.88	41.05	27.49	16.55	10.10	5.68
45.0	344.18	232.44	95.66	56.59	37.88	25.04	14.82	8.72	5.44
67.5	331.33	175.91	80.79	60.53	40.33	26.71	15.60	9.14	5.62
90.0	229.27	99.85	72.30	52.34	35.79	22.89	13.38	8.25	5.38
112.5	314.12	151.23	78.58	60.89	40.93	26.53	15.89	9.38	5.86
135.0	373.69	280.30	122.31	59.04	39.38	25.34	14.88	9.08	5.74
157.5	311.37	159.00	78.93	60.65	43.32	28.32	17.39	11.17	6.15
180.0	190.49	88.37	68.78	50.97	35.25	24.32	15.24	9.38	5.74
202.5	308.15	141.97	78.81	60.77	43.20	29.40	18.58	11.29	6.81
225.0	391.02	319.56	176.81	71.29	47.03	30.71	18.40	11.05	6.51
247.5	361.09	201.96	83.24	60.29	40.39	26.05	14.88	8.96	5.80
270.0	317.65	140.96	78.75	58.92	39.80	26.05	15.12	9.20	5.80
292.5	333.72	160.44	77.02	57.24	39.26	24.62	14.10	8.78	5.62
315.0	384.87	308.74	159.24	72.30	45.11	29.82	17.75	10.70	6.15
337.5	286.87	134.50	80.61	62.08	44.04	28.08	17.75	10.64	6.39
360.0	239.61	113.83	76.90	59.69	42.42	29.82	18.76	11.65	6.75

C/γ(°)	90.0
0.0	4.18
22.5	4.06
45.0	4.12
67.5	4.24
90.0	4.36
112.5	4.36
135.0	4.24
157.5	4.12
180.0	3.94
202.5	4.30
225.0	4.36
247.5	4.36
270.0	4.42
292.5	4.42
315.0	4.42
337.5	4.36
360.0	4.18