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## Nata

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LumCAT: 6-0845-M5	
Luminaire: LM07126080EM	
Report No: 220627-B016	Voltage(V): 40.0300
Test No: 220627-C016	Current(A): 0.3500
LampCAT: LUMILEDS 5050	Power (W): 14.0100
Lamp flux(lm): 2220.5	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1666.70  
Efficiency(%): 75.06%  
Lumens(lm)/Power(W): 118.97  
Central intensity(cd): 1056.372  
Maximum intensity(cd): 1084.635  
Angle of maximum intensity: C=67.5  $\gamma=0.0$   
Beam Angle(50%Imax): [C0/180]Total=77.4  
                                  [C90/270]Total=82.2  
Field angle(10%Imax): [C0/180]Total=97.6  
                                  [C90/270]Total=101.5  
Maximum s/h(1/2): C0\_180=1.09 C90\_270=1.17  
Maximum s/h(1/4): C0\_180=1.09 C90\_270=1.17  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 75.06%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.412%

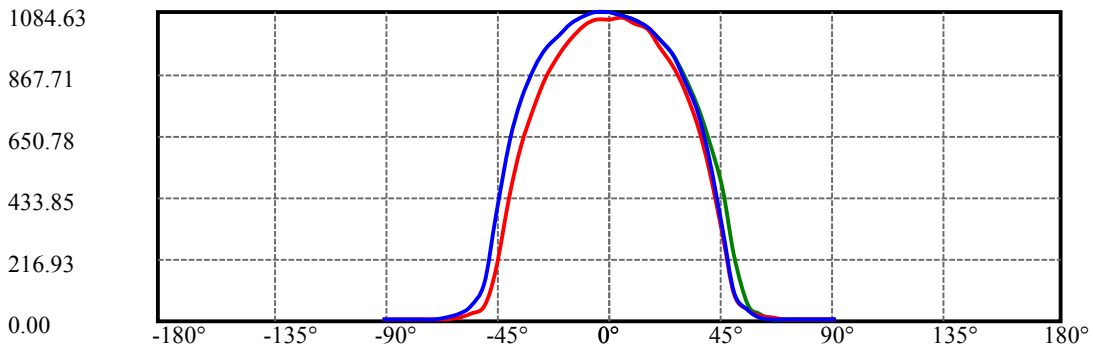
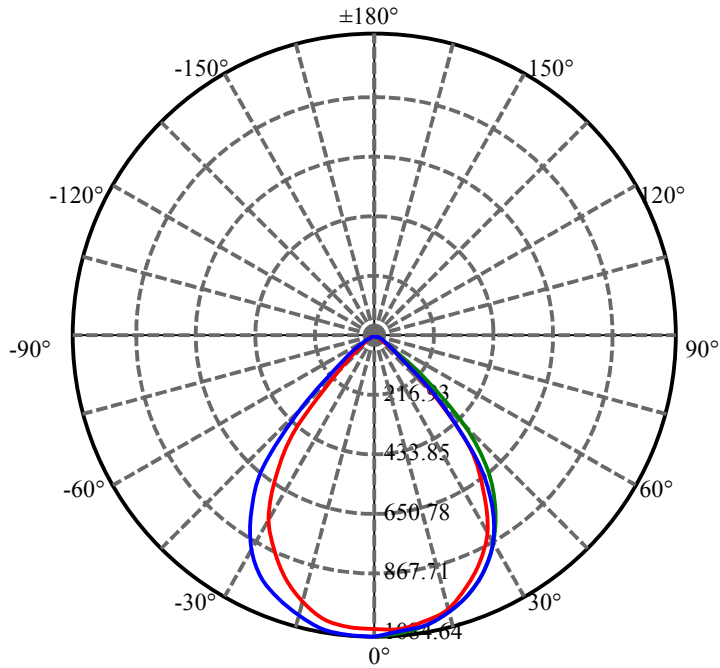
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1073.715	0.000	0	.000%	.000%
5.0	1070.462	25.633	25.633	1.154%	1.538%
10.0	1057.708	76.131	101.764	3.429%	6.106%
15.0	1027.040	123.666	225.43	5.569%	13.526%
20.0	981.598	165.540	390.97	7.455%	23.458%
25.0	916.307	199.055	590.026	8.964%	35.401%
30.0	834.785	221.602	811.628	9.980%	48.697%
35.0	725.191	229.717	1041.345	10.345%	62.479%
40.0	591.012	219.599	1260.944	9.890%	75.655%
45.0	394.231	182.426	1443.37	8.215%	86.600%
50.0	194.051	118.871	1562.241	5.353%	93.732%
55.0	68.137	57.008	1619.249	2.567%	97.153%
60.0	22.672	20.990	1640.239	.945%	98.412%
65.0	10.281	8.011	1648.251	.361%	98.893%
70.0	8.067	4.646	1652.896	.209%	99.172%
75.0	7.092	3.962	1656.859	.178%	99.409%
80.0	6.435	3.619	1660.478	.163%	99.626%
85.0	5.497	3.242	1663.72	.146%	99.821%
90.0	5.400	2.984	1666.704	.134%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	811.63	36.55%	48.70%
0-40	1260.94	56.79%	75.65%
0-60	1640.24	73.87%	98.41%
0-90	1663.72	74.92%	99.82%
0-120	1663.72	74.92%	99.82%
0-180	1666.70	75.06%	100.00%
60-90	44.47	2.00%	2.67%
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%
0-41.98	1333.36	60.05%	80.00%

ZONAL LUMEN SUMMARY

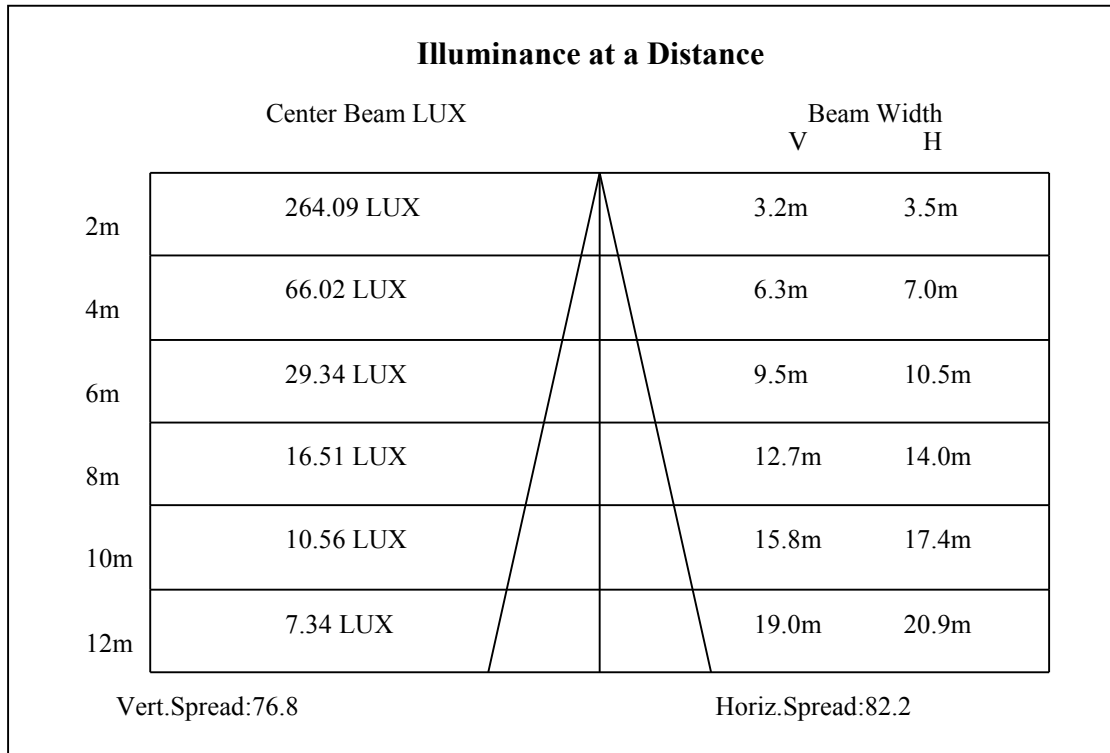
0-10	101.76
10-20	289.21
20-30	420.66
30-40	449.32
40-50	301.30
50-60	78.00
60-70	12.66
70-80	7.58
80-90	3.24
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

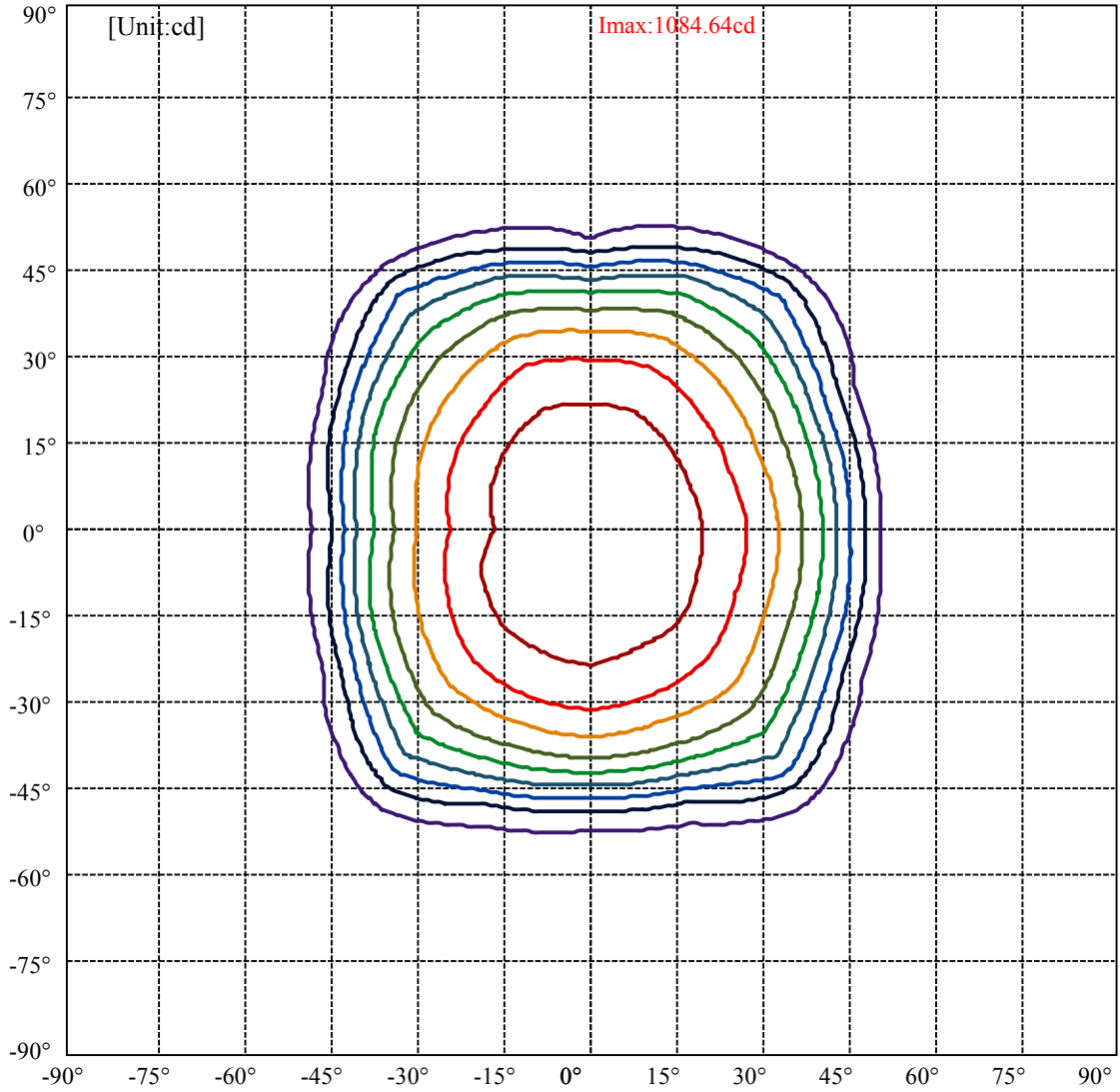


C67.5(Max): —  
 C0/C180: —  
 C90/C270: —

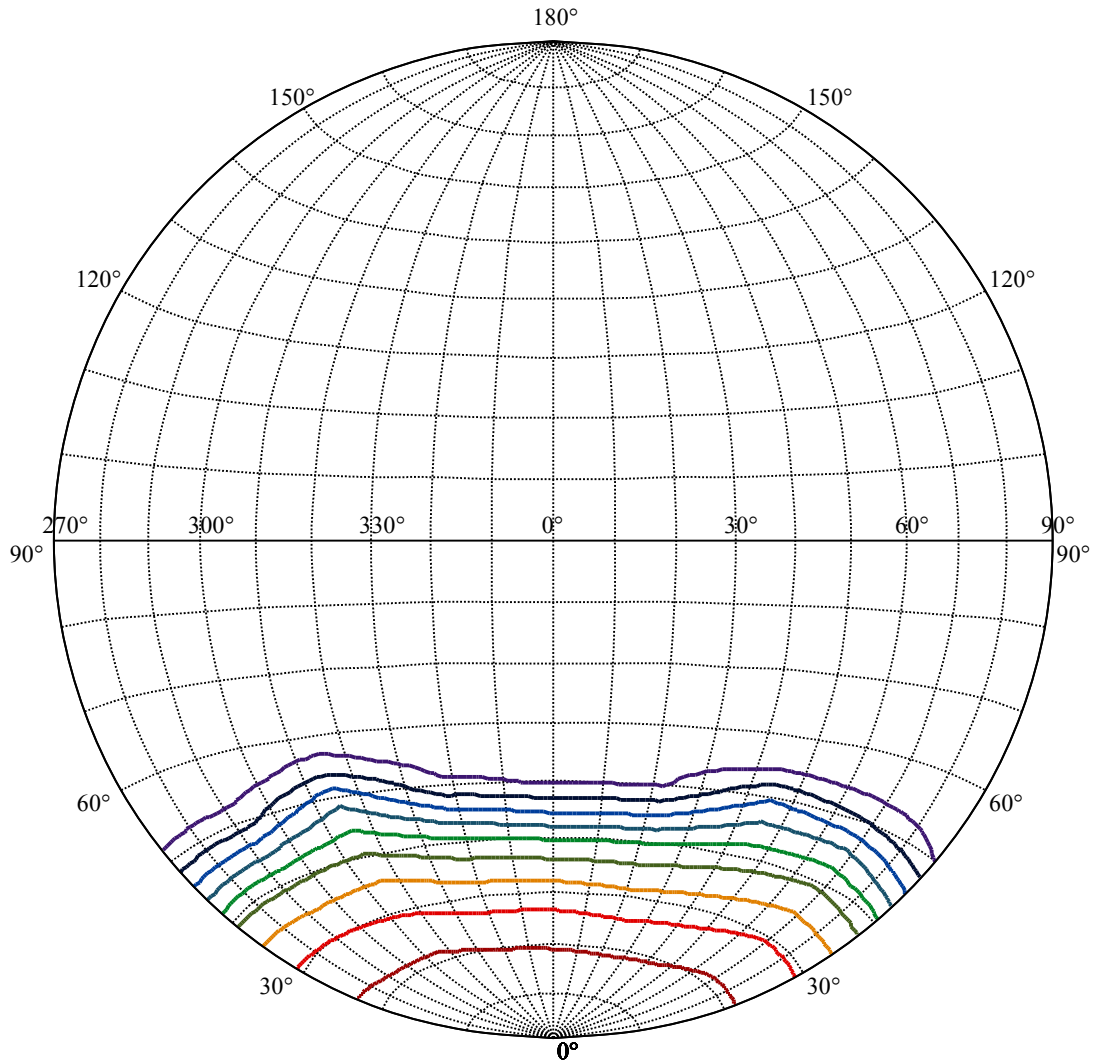
Field angle(10%Imax):C0/180Left:52.9 Right:44.7  
 :C90/270Left:51.6 Right:49.9

Beam Angle(50%Imax):C0/180Left:42.4 Right:35.0  
 :C90/270Left:41.6 Right:40.6





(10%I <sub>max</sub> ) 108.422	—
(20%I <sub>max</sub> ) 216.843	—
(30%I <sub>max</sub> ) 325.265	—
(40%I <sub>max</sub> ) 433.687	—
(50%I <sub>max</sub> ) 542.108	—
(60%I <sub>max</sub> ) 650.53	—
(70%I <sub>max</sub> ) 758.951	—
(80%I <sub>max</sub> ) 867.373	—
(90%I <sub>max</sub> ) 975.795	—



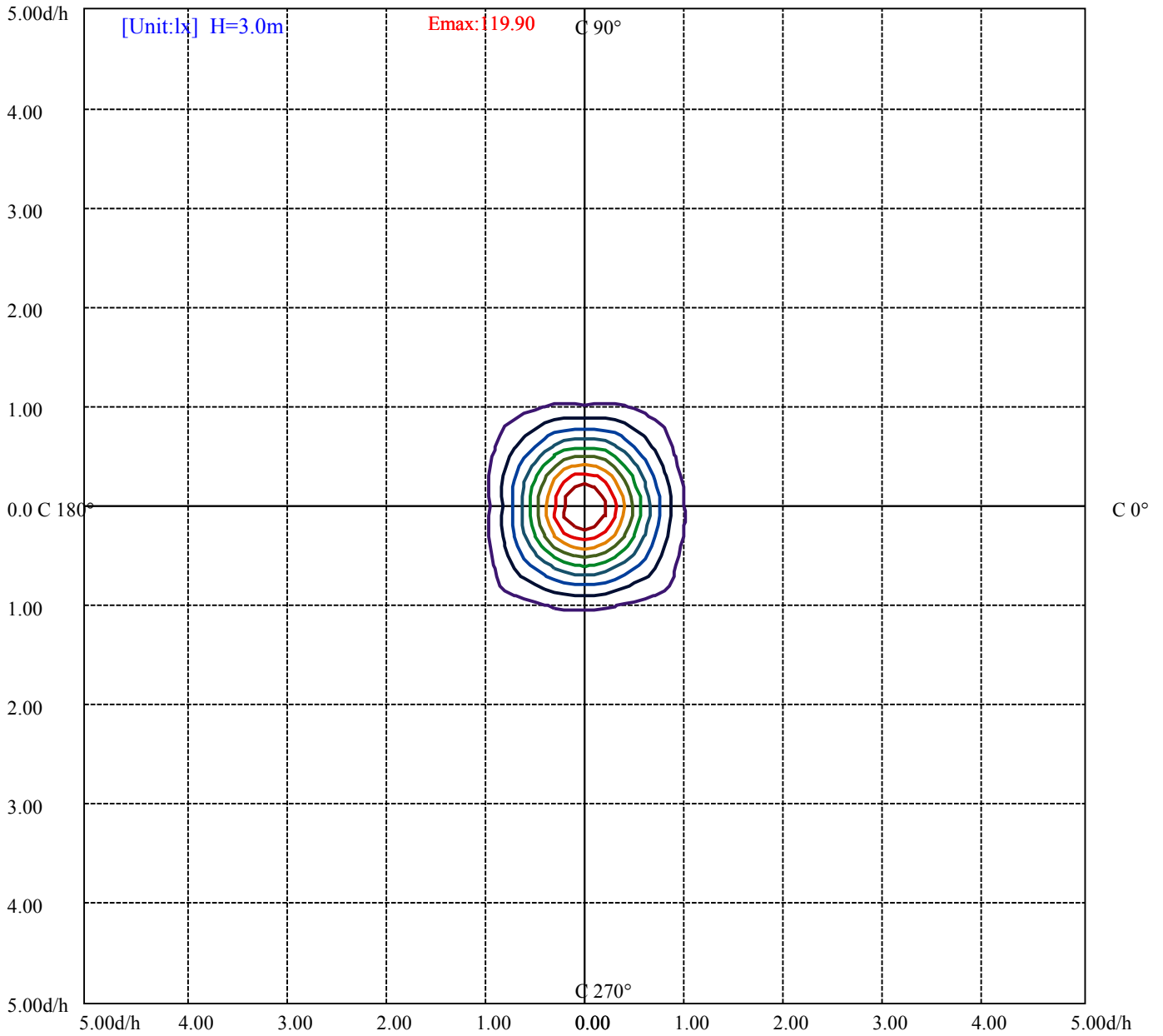
House

[Unit:cd]

Road

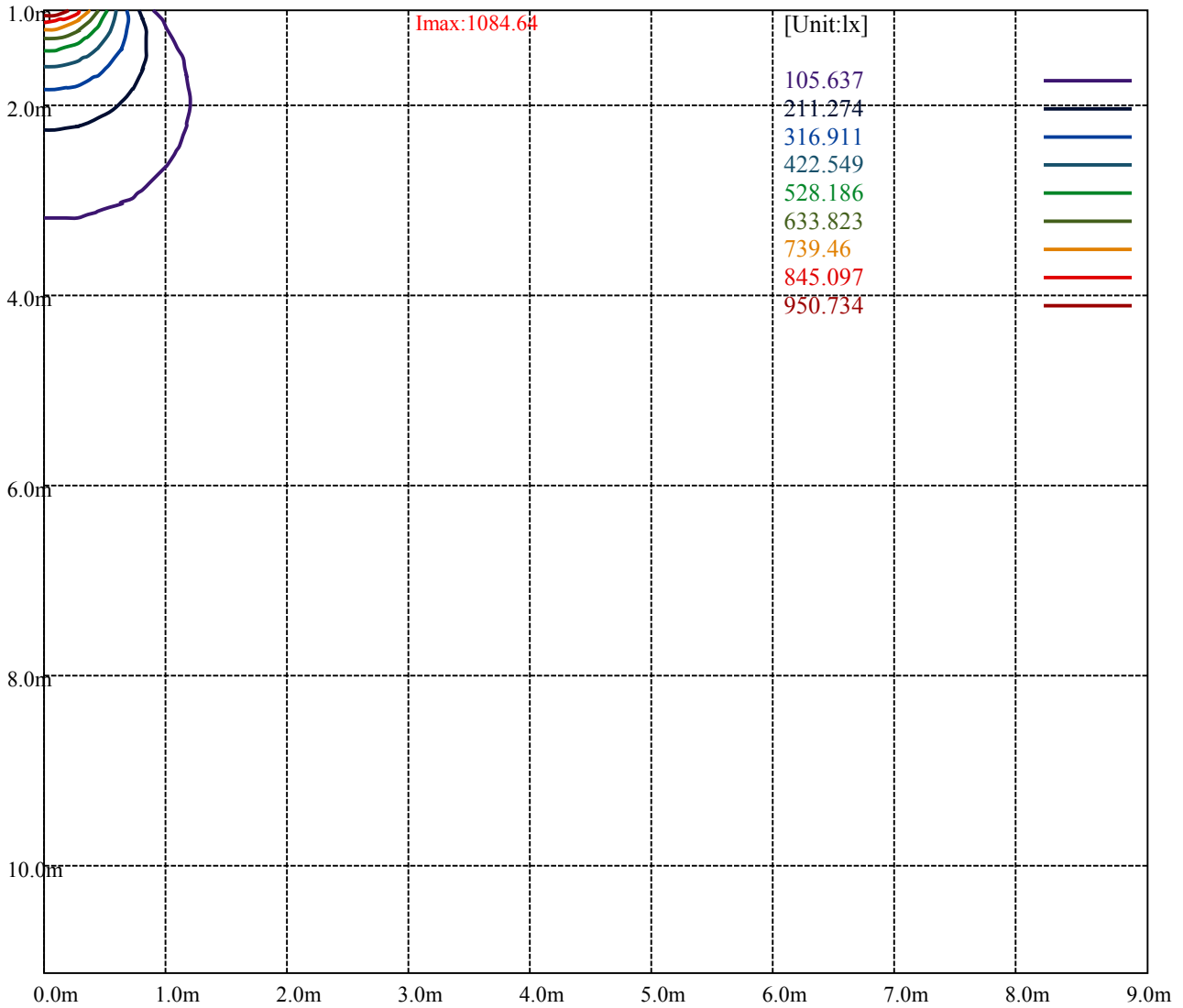
I<sub>max</sub>:1084.64

(10%I <sub>max</sub> ) 108.463	—
(20%I <sub>max</sub> ) 216.925	—
(30%I <sub>max</sub> ) 325.388	—
(40%I <sub>max</sub> ) 433.85	—
(50%I <sub>max</sub> ) 542.313	—
(60%I <sub>max</sub> ) 650.775	—
(70%I <sub>max</sub> ) 759.238	—
(80%I <sub>max</sub> ) 867.7	—
(90%I <sub>max</sub> ) 976.163	—



(10%Emax) 11.99044	—
(20%Emax) 23.98089	—
(30%Emax) 35.97122	—
(40%Emax) 47.96167	—
(50%Emax) 59.95211	—
(60%Emax) 71.94255	—
(70%Emax) 83.93289	—
(80%Emax) 95.92333	—
(90%Emax) 107.9138	—





Luminance Table

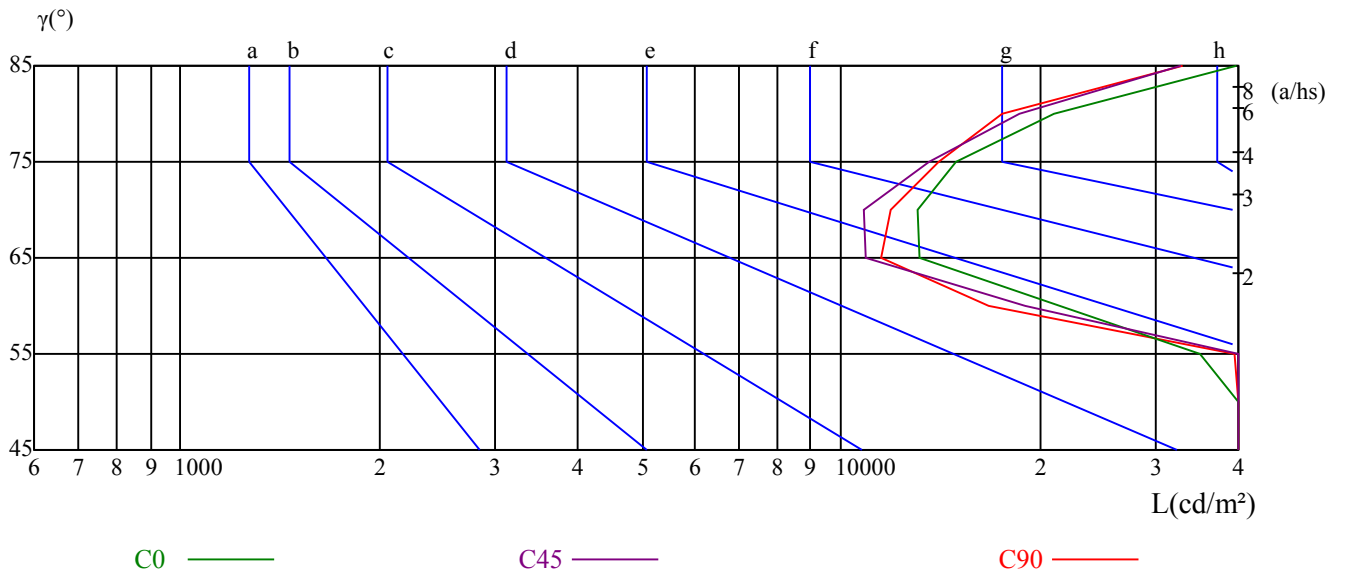
$\gamma$	45	50	55	60	65	70	75	80	85
C0	230019	80541	35045	21523	13152	13039	14983	21030	39674
C45	355289	266057	91048	19067	10935	10866	13610	18610	32629
C90	245695	87378	39383	16740	11470	11905	14109	17494	33000

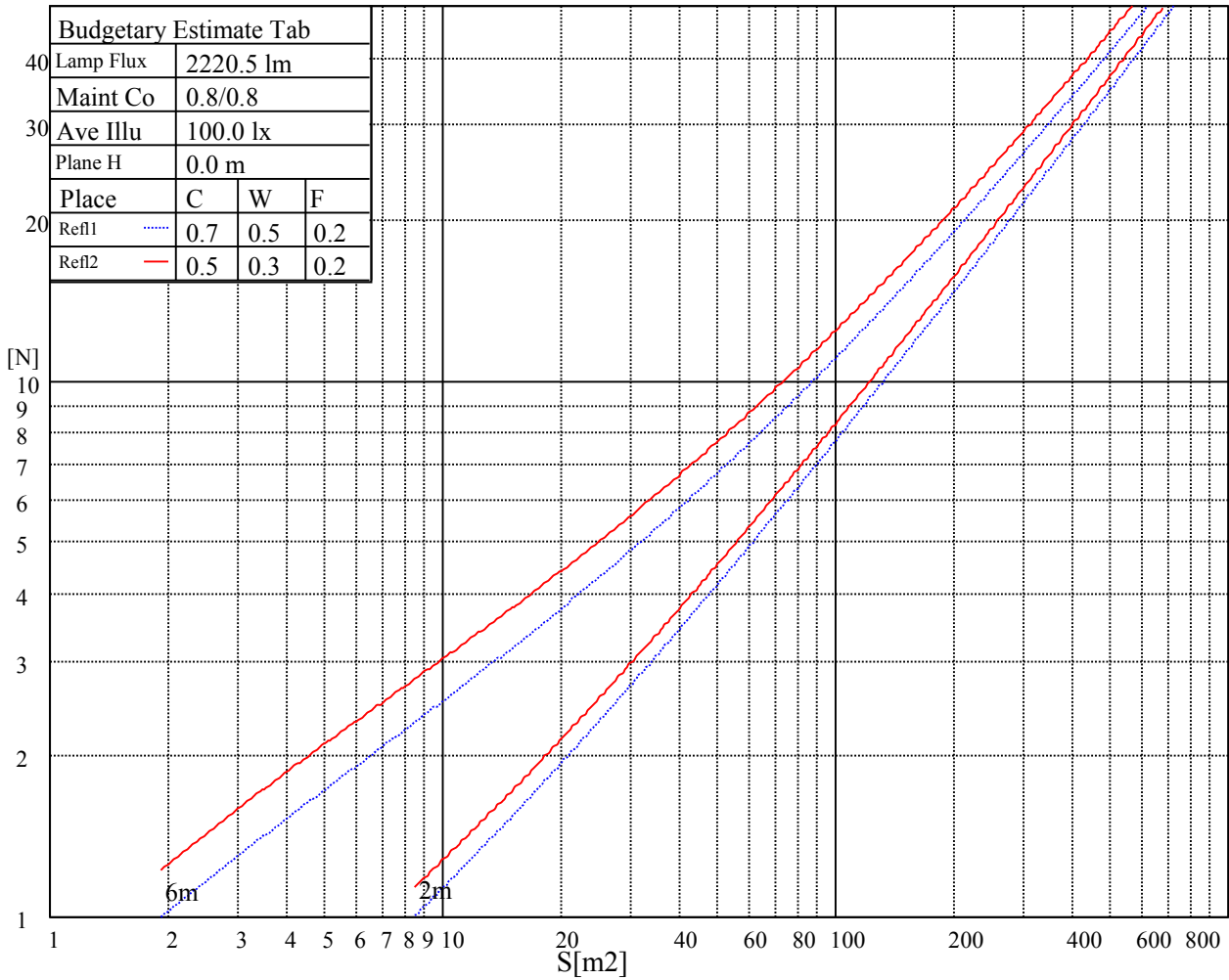
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12999	12426	12063	15358	14983	14016	37264	33186	33278

Glare Table

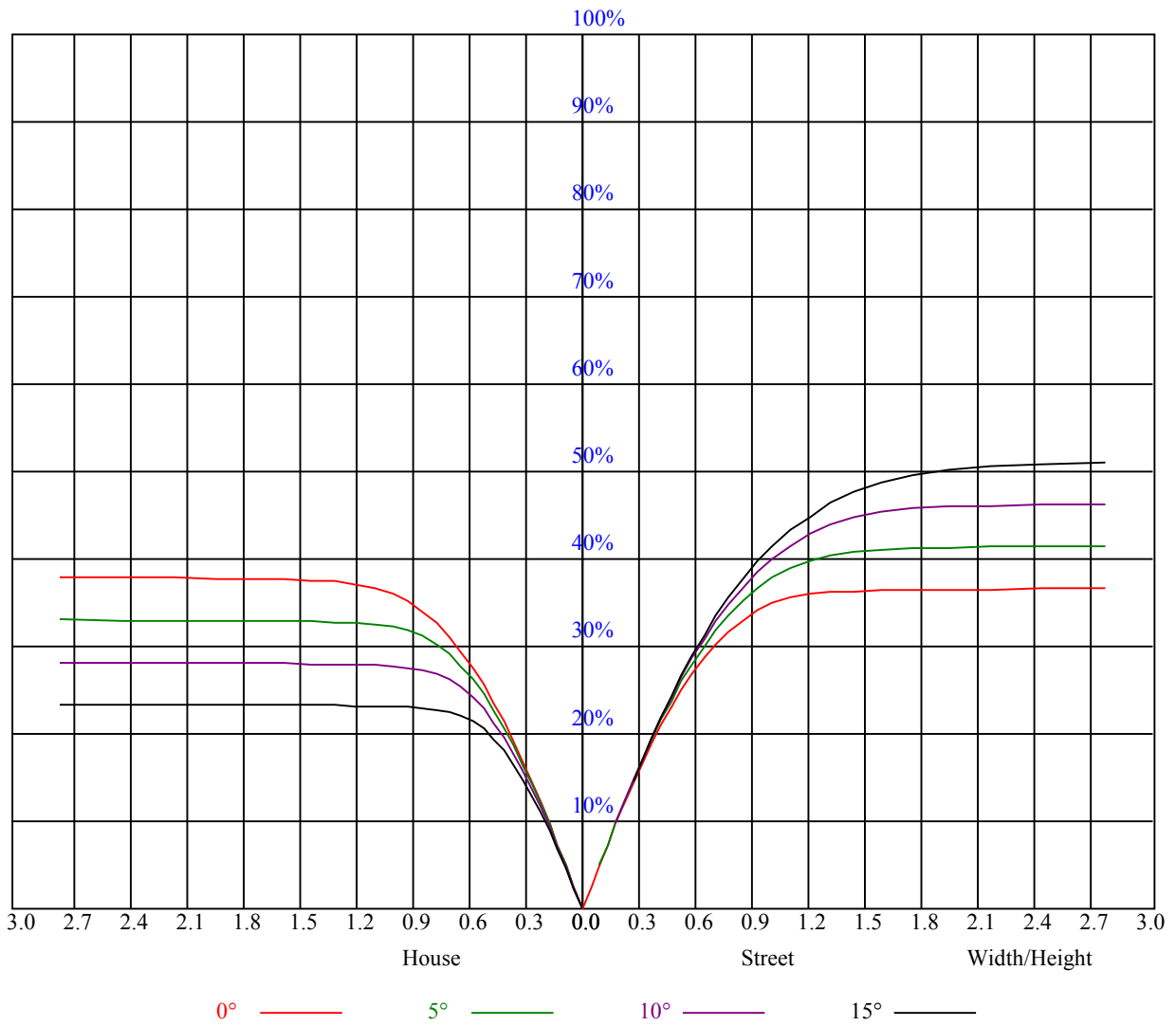
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.89	0.89	0.89	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.77	0.77	0.77	0.75
1	0.82	0.80	0.78	0.80	0.78	0.77	0.77	0.76	0.74	0.74	0.73	0.72	0.72	0.71	0.70	0.68
2	0.75	0.71	0.68	0.74	0.70	0.68	0.71	0.68	0.66	0.69	0.67	0.65	0.67	0.65	0.63	0.62
3	0.69	0.64	0.61	0.67	0.63	0.60	0.65	0.62	0.59	0.63	0.61	0.58	0.62	0.59	0.57	0.56
4	0.63	0.58	0.54	0.62	0.57	0.54	0.60	0.56	0.53	0.59	0.55	0.52	0.57	0.54	0.52	0.51
5	0.58	0.52	0.49	0.57	0.52	0.48	0.55	0.51	0.48	0.54	0.50	0.48	0.53	0.50	0.47	0.46
6	0.53	0.48	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.50	0.46	0.43	0.49	0.46	0.43	0.42
7	0.49	0.44	0.40	0.49	0.43	0.40	0.47	0.43	0.40	0.47	0.42	0.39	0.46	0.42	0.39	0.38
8	0.45	0.40	0.37	0.45	0.40	0.36	0.44	0.40	0.36	0.43	0.39	0.36	0.42	0.39	0.36	0.35
9	0.42	0.37	0.34	0.42	0.37	0.34	0.41	0.37	0.33	0.40	0.36	0.33	0.40	0.36	0.33	0.32
10	0.39	0.34	0.31	0.39	0.34	0.31	0.38	0.34	0.31	0.38	0.34	0.31	0.37	0.33	0.31	0.29



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	1056.37	1062.65	1045.80	1023.69	966.20	897.55	812.22	689.73	532.70
22.5	1071.01	1063.24	1053.98	1011.50	961.19	879.56	788.80	676.76	536.34
45.0	1079.14	1066.53	1043.35	1013.89	968.24	897.91	817.18	714.94	601.77
67.5	1084.63	1074.30	1058.34	1030.44	990.94	936.57	859.13	755.04	632.48
90.0	1084.22	1070.41	1057.98	1027.81	992.44	935.31	850.76	732.99	573.27
112.5	1080.21	1073.40	1060.49	1034.26	997.34	944.51	870.60	762.87	631.23
135.0	1062.65	1070.59	1055.18	1018.61	976.96	904.96	822.14	725.28	613.06
157.5	1071.49	1069.34	1059.24	1016.16	959.09	886.31	796.39	683.27	552.59
180.0	1056.37	1055.06	1036.06	992.56	934.95	854.23	754.62	614.32	440.38
202.5	1071.01	1072.68	1066.29	1031.93	981.74	900.24	810.79	702.75	564.84
225.0	1079.14	1075.85	1063.90	1039.10	998.89	942.84	863.55	767.23	665.41
247.5	1084.63	1081.53	1069.82	1044.72	1005.28	948.22	876.04	764.78	629.08
270.0	1084.22	1082.90	1070.41	1045.74	1006.90	958.38	887.69	775.83	623.76
292.5	1080.21	1076.81	1062.35	1036.71	993.81	942.48	868.93	755.87	627.88
315.0	1062.65	1061.99	1059.24	1037.79	998.41	933.22	857.22	772.55	663.08
337.5	1071.49	1070.11	1060.91	1027.75	973.20	898.62	820.53	708.85	568.31
360.0	1056.37	1062.65	1045.80	1023.69	966.20	897.55	812.22	689.73	532.70
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	300.74	95.72	37.17	19.90	10.28	8.25	7.17	6.75	6.39
22.5	312.33	105.22	38.42	18.88	10.22	8.25	7.17	6.81	5.50
45.0	464.52	316.21	96.56	17.63	8.54	6.87	6.51	5.98	5.26
67.5	461.77	228.67	58.92	29.22	10.10	7.77	6.87	6.04	5.32
90.0	321.23	103.85	41.77	15.48	8.96	7.53	6.75	5.62	5.32
112.5	452.75	212.36	57.84	26.77	10.22	7.71	6.81	5.98	5.32
135.0	482.74	333.00	108.33	17.03	8.01	6.87	6.51	5.92	5.32
157.5	343.58	119.63	38.78	19.72	11.41	8.72	7.29	6.57	5.50
180.0	178.60	52.76	25.51	13.74	10.04	8.54	7.53	6.99	5.62
202.5	333.78	119.80	40.93	20.02	12.31	9.92	7.89	7.11	5.56
225.0	536.16	389.53	172.63	27.84	10.04	7.53	6.93	6.45	5.38
247.5	435.96	190.79	56.17	28.02	10.22	7.89	7.17	6.45	5.32
270.0	373.16	133.97	51.87	26.83	10.46	8.54	7.59	6.75	5.38
292.5	407.87	165.16	53.60	27.73	10.52	8.37	7.47	6.45	5.38
315.0	533.23	398.79	167.49	31.01	11.11	7.47	6.87	6.51	5.50
337.5	369.27	139.34	44.22	22.95	12.07	8.84	6.93	6.57	5.92
360.0	300.74	95.72	37.17	19.90	10.28	8.25	7.17	6.75	6.39
C/γ(°)	90.0								
0.0	5.50								
22.5	5.38								
45.0	5.50								
67.5	5.50								
90.0	5.44								
112.5	5.38								
135.0	5.50								
157.5	5.44								
180.0	5.44								
202.5	5.38								
225.0	5.26								
247.5	5.32								
270.0	5.32								
292.5	5.32								
315.0	5.32								
337.5	5.44								
360.0	5.50								