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Nata

LumCAT: 6-0845-M3	
Luminaire: LM07126080EM	
Report No: 220627-B014	Voltage(V): 40.0900
Test No: 220627-C014	Current(A): 0.3500
LampCAT: LUMILEDS 5050	Power (W): 14.0310
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

Photometric Results

Lumens(lm): 1792.49
Efficiency(%): 80.72%
Lumens(lm)/Power(W): 127.75
Central intensity(cd): 1143.551
Maximum intensity(cd): 1174.742
Angle of maximum intensity: C=67.5 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=76.3
 [C90/270]Total=81.3
Field angle(10%Imax): [C0/180]Total=97.0
 [C90/270]Total=101.5
Maximum s/h(1/2): C0_180=1.10 C90_270=1.16
Maximum s/h(1/4): C0_180=1.07 C90_270=1.14
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 80.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.434%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/6/27
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

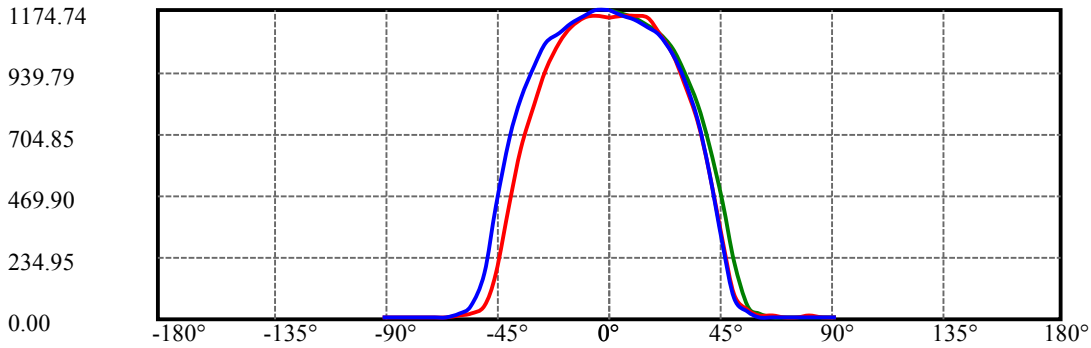
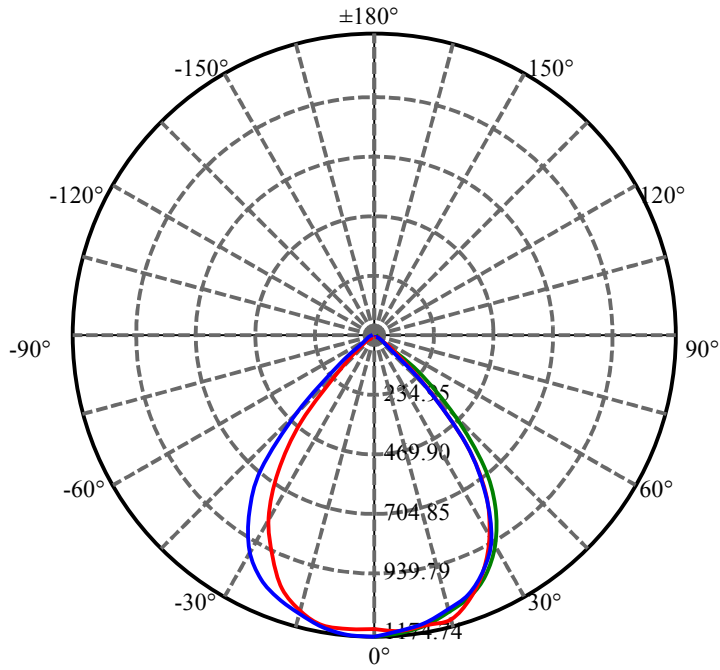
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1163.777	0.000	0	.000%	.000%
5.0	1160.939	27.791	27.791	1.252%	1.550%
10.0	1153.642	82.800	110.591	3.729%	6.170%
15.0	1131.074	135.528	246.119	6.103%	13.731%
20.0	1085.266	182.658	428.776	8.226%	23.921%
25.0	1010.672	219.825	648.602	9.900%	36.184%
30.0	914.455	243.626	892.228	10.972%	49.776%
35.0	780.728	249.627	1141.855	11.242%	63.702%
40.0	620.018	233.704	1375.559	10.525%	76.740%
45.0	404.482	189.695	1565.254	8.543%	87.323%
50.0	198.368	121.815	1687.069	5.486%	94.119%
55.0	65.833	57.446	1744.515	2.587%	97.324%
60.0	20.260	19.900	1764.415	.896%	98.434%
65.0	10.068	7.373	1771.788	.332%	98.845%
70.0	9.079	4.848	1776.636	.218%	99.116%
75.0	8.500	4.595	1781.231	.207%	99.372%
80.0	7.499	4.281	1785.512	.193%	99.611%
85.0	6.069	3.687	1789.198	.166%	99.816%
90.0	5.945	3.290	1792.488	.148%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	892.23	40.18%	49.78%
0-40	1375.56	61.95%	76.74%
0-60	1764.42	79.46%	98.43%
0-90	1789.20	80.58%	99.82%
0-120	1789.20	80.58%	99.82%
0-180	1792.49	80.72%	100.00%
60-90	44.68	2.01%	2.49%
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%
0-41.54	1433.99	64.58%	80.00%

ZONAL LUMEN SUMMARY

0-10	110.59
10-20	318.19
20-30	463.45
30-40	483.33
40-50	311.51
50-60	77.35
60-70	12.22
70-80	8.88
80-90	3.69
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: —

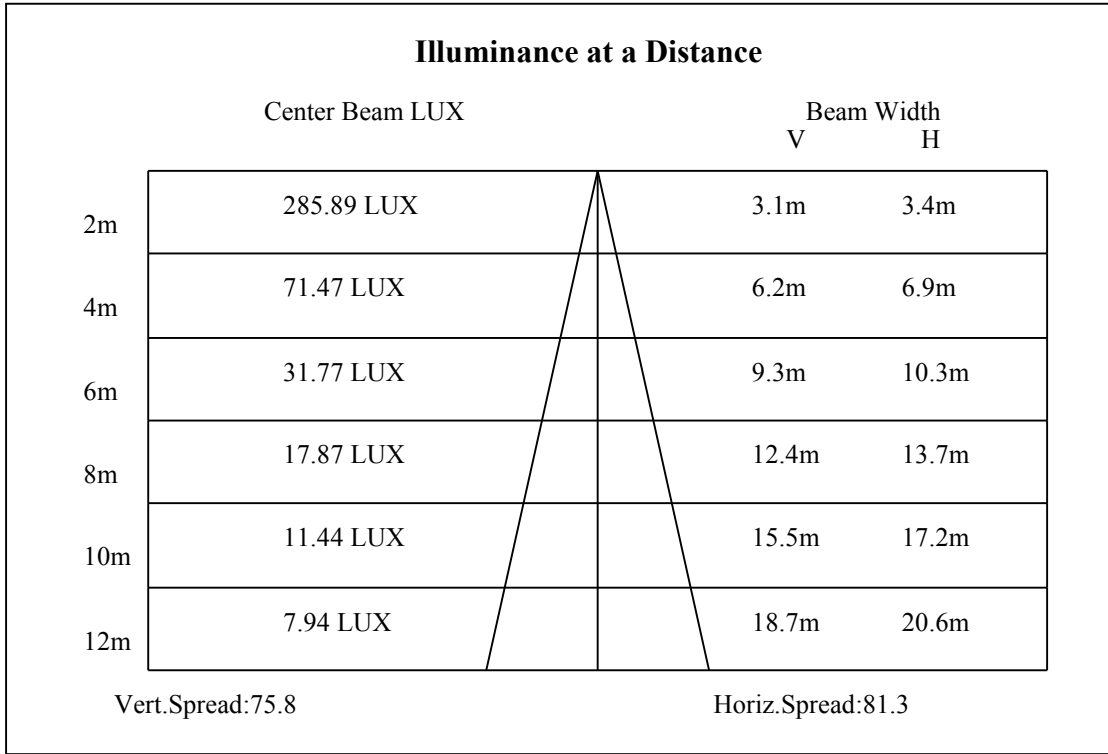
C90/C270: —

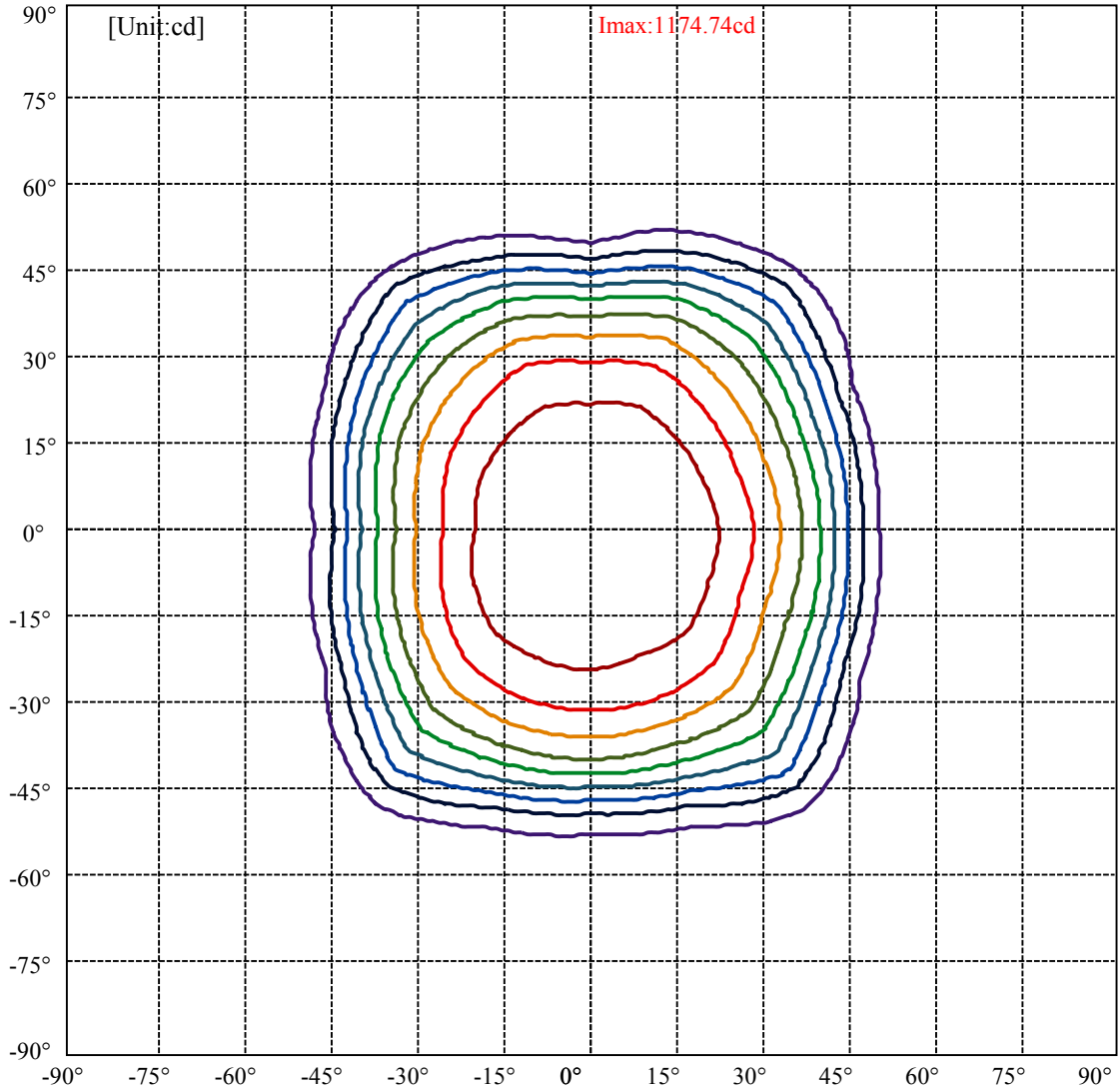
Field angle(10%Imax):C0/180Left:52.4 Right:44.6

:C90/270Left:52.3 Right:49.1

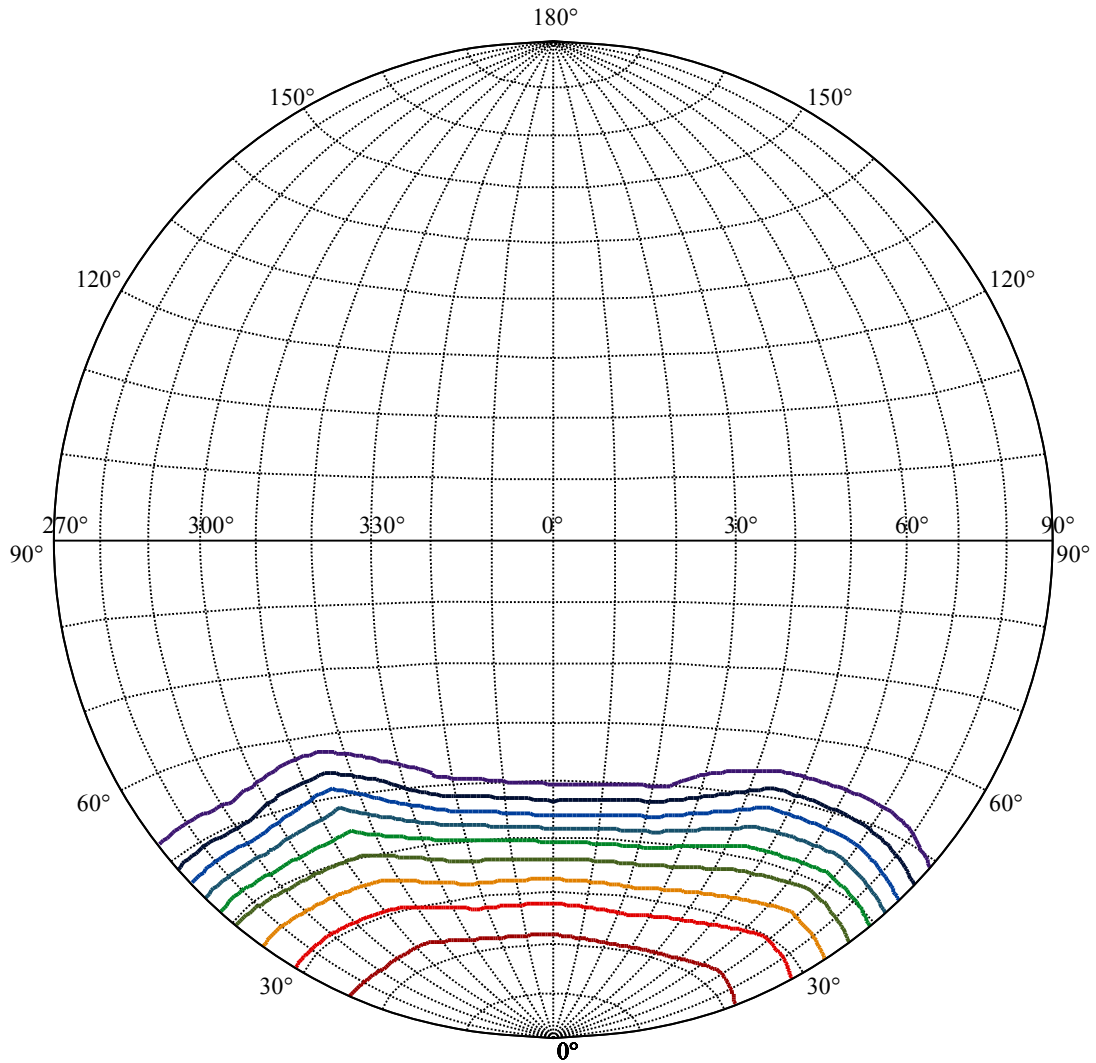
Beam Angle(50%Imax):C0/180Left:41.7 Right:34.6

:C90/270Left:41.9 Right:39.4





(10%Imax) 117.373	—
(20%Imax) 234.745	—
(30%Imax) 352.118	—
(40%Imax) 469.49	—
(50%Imax) 586.863	—
(60%Imax) 704.236	—
(70%Imax) 821.608	—
(80%Imax) 938.981	—
(90%Imax) 1056.35	—



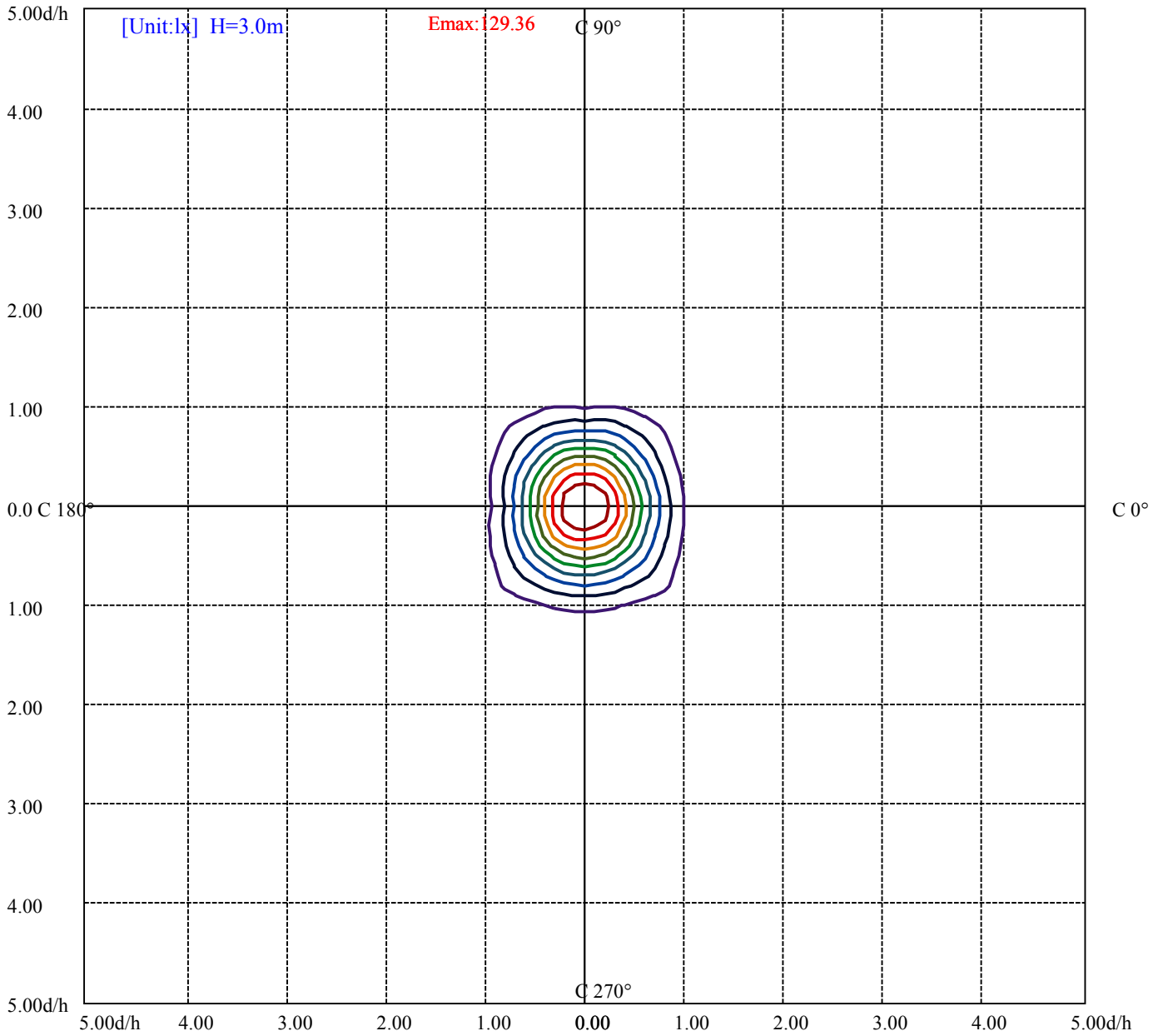
House

[Unit:cd]

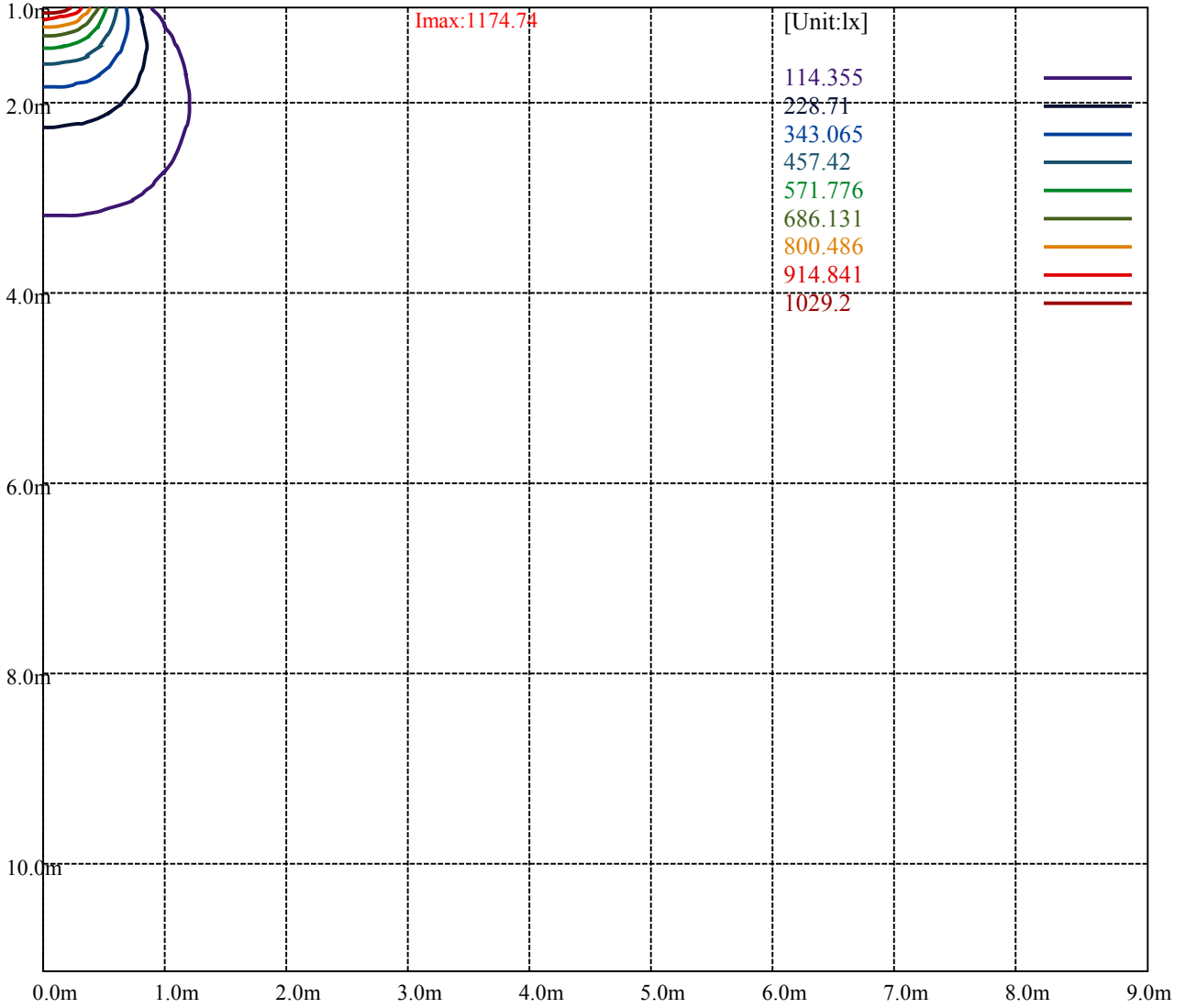
Road

I_{max}:1174.74

(10%I _{max})	117.472	—
(20%I _{max})	234.944	—
(30%I _{max})	352.416	—
(40%I _{max})	469.888	—
(50%I _{max})	587.36	—
(60%I _{max})	704.832	—
(70%I _{max})	822.304	—
(80%I _{max})	939.776	—
(90%I _{max})	1057.25	—



(10%Emax) 12.93589	—
(20%Emax) 25.87167	—
(30%Emax) 38.80756	—
(40%Emax) 51.74345	—
(50%Emax) 64.67922	—
(60%Emax) 77.61511	—
(70%Emax) 90.55099	—
(80%Emax) 103.4868	—
(90%Emax) 116.4222	—



Luminance Table

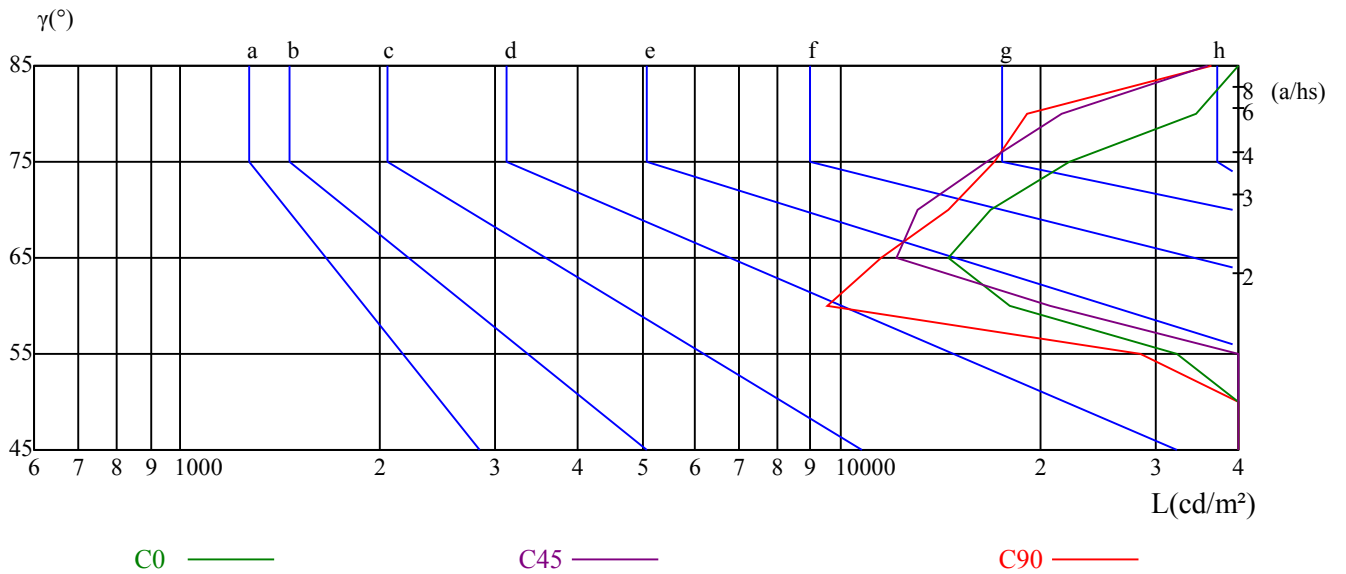
γ	45	50	55	60	65	70	75	80	85
C0	229151	82049	32228	18033	14529	16819	22225	34429	51169
C45	364978	252181	90541	20747	12158	13039	16606	21588	35966
C90	220376	69078	28509	9566	11470	14551	17106	19169	36337

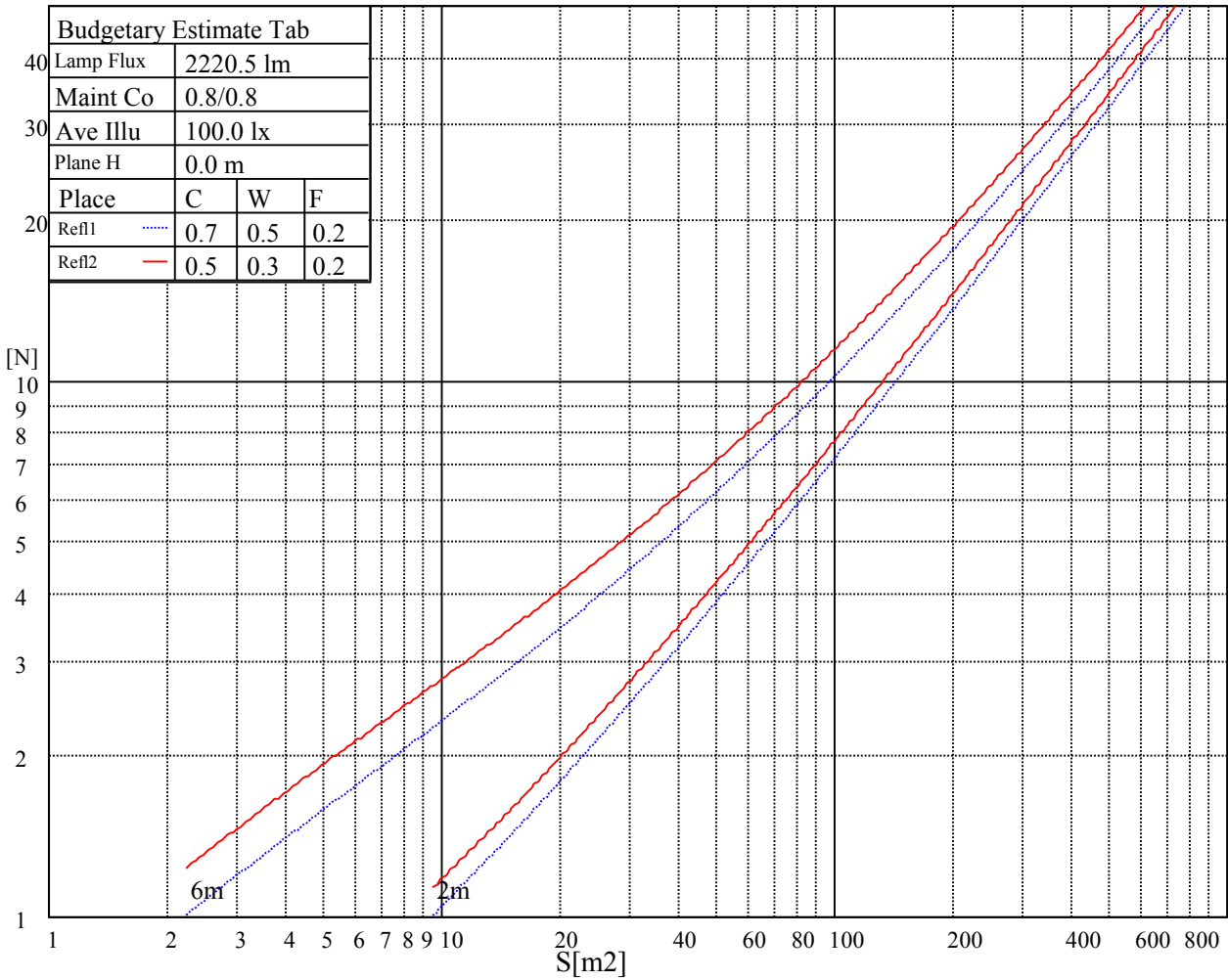
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
13955	11011	12961	19603	17668	16357	44309	36523	36337

Glare Table

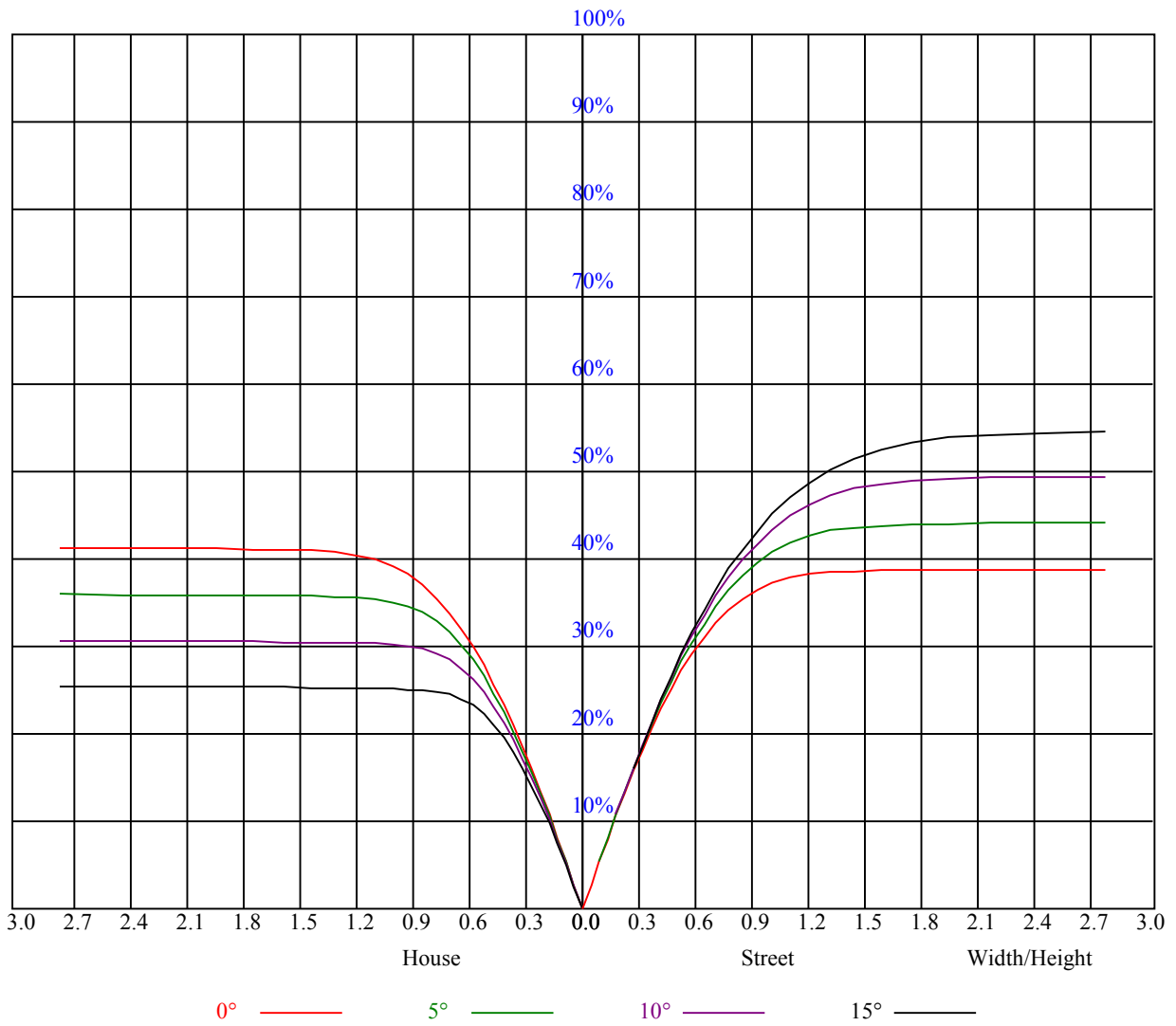
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.96	0.96	0.96	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.81
1	0.88	0.86	0.84	0.86	0.84	0.82	0.83	0.81	0.80	0.80	0.79	0.77	0.77	0.76	0.75	0.74
2	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.71	0.74	0.72	0.70	0.72	0.70	0.68	0.67
3	0.74	0.69	0.65	0.73	0.68	0.65	0.70	0.67	0.64	0.68	0.65	0.63	0.67	0.64	0.62	0.60
4	0.68	0.62	0.58	0.67	0.62	0.58	0.65	0.61	0.57	0.63	0.60	0.57	0.62	0.59	0.56	0.55
5	0.62	0.57	0.53	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.51	0.57	0.54	0.51	0.50
6	0.57	0.52	0.48	0.57	0.51	0.48	0.55	0.51	0.47	0.54	0.50	0.47	0.53	0.49	0.46	0.45
7	0.53	0.47	0.43	0.53	0.47	0.43	0.51	0.47	0.43	0.50	0.46	0.43	0.49	0.46	0.43	0.41
8	0.49	0.44	0.40	0.49	0.43	0.40	0.48	0.43	0.39	0.47	0.42	0.39	0.46	0.42	0.39	0.38
9	0.46	0.40	0.37	0.45	0.40	0.36	0.44	0.40	0.36	0.44	0.39	0.36	0.43	0.39	0.36	0.35
10	0.43	0.37	0.34	0.42	0.37	0.34	0.42	0.37	0.34	0.41	0.36	0.33	0.40	0.36	0.33	0.32



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	1143.55	1152.99	1149.59	1146.42	1090.67	1005.10	894.32	751.75	561.32
22.5	1161.72	1151.98	1162.49	1136.50	1073.04	978.33	868.45	739.08	553.43
45.0	1164.23	1156.52	1145.34	1124.67	1074.12	997.34	897.01	772.49	646.17
67.5	1174.74	1162.49	1143.73	1118.04	1086.37	1029.96	939.73	816.40	661.11
90.0	1173.73	1156.04	1139.07	1110.21	1077.23	1006.84	911.65	759.88	561.14
112.5	1170.68	1160.82	1144.99	1119.59	1083.68	1026.50	942.36	807.38	647.72
135.0	1160.28	1163.15	1149.53	1120.55	1070.89	998.77	901.19	774.28	640.49
157.5	1161.30	1161.30	1162.73	1130.94	1069.52	976.06	871.08	730.42	565.50
180.0	1143.55	1149.23	1146.66	1112.12	1051.35	945.77	819.99	646.35	437.51
202.5	1161.72	1165.48	1169.07	1154.25	1096.35	993.57	890.80	746.73	566.10
225.0	1164.23	1164.76	1160.58	1144.81	1109.07	1041.07	954.01	835.35	707.41
247.5	1174.74	1170.20	1159.03	1136.56	1098.86	1044.00	963.81	843.47	689.19
270.0	1173.73	1172.41	1154.96	1126.64	1089.83	1049.44	966.20	841.56	686.68
292.5	1170.68	1166.74	1151.86	1125.86	1089.12	1037.01	964.83	834.81	677.78
315.0	1160.28	1159.51	1151.44	1142.30	1111.05	1039.40	954.61	840.78	714.58
337.5	1161.30	1161.42	1167.21	1147.73	1093.12	1001.58	891.21	750.91	604.16
360.0	1143.55	1152.99	1149.59	1146.42	1090.67	1005.10	894.32	751.75	561.32
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	299.60	97.52	34.18	16.67	11.35	10.64	10.64	11.05	8.25
22.5	333.48	109.29	34.42	17.39	12.13	10.76	9.68	9.02	5.98
45.0	477.19	299.72	96.02	19.18	9.50	8.25	7.95	6.93	5.80
67.5	445.34	222.16	48.28	19.84	8.66	8.72	8.19	6.69	5.80
90.0	288.13	82.10	30.23	8.84	8.96	9.20	8.19	6.15	5.86
112.5	425.62	177.76	42.90	19.72	8.96	9.08	8.25	6.75	5.80
135.0	471.69	304.56	86.88	17.99	9.56	8.48	8.13	6.87	5.74
157.5	333.90	125.42	34.96	16.79	12.49	9.98	8.37	7.59	5.98
180.0	177.47	48.94	22.11	12.07	10.46	9.32	8.13	7.59	6.04
202.5	349.38	120.94	34.30	15.77	11.05	9.62	8.01	7.23	6.04
225.0	552.54	405.12	177.47	31.43	10.22	8.01	7.71	7.29	5.92
247.5	474.98	225.99	61.66	27.31	8.66	8.54	8.25	7.05	5.86
270.0	428.07	173.82	53.18	22.11	8.25	8.78	8.72	7.17	5.92
292.5	462.25	213.32	57.36	25.75	8.43	8.54	8.07	6.57	5.86
315.0	570.16	421.14	199.99	34.96	11.23	7.71	7.53	7.05	5.98
337.5	381.94	146.10	39.38	18.34	11.17	9.62	10.22	8.96	6.33
360.0	299.60	97.52	34.18	16.67	11.35	10.64	10.64	11.05	8.25
C/γ(°)	90.0								
0.0	5.92								
22.5	5.92								
45.0	6.27								
67.5	6.21								
90.0	6.15								
112.5	6.09								
135.0	6.21								
157.5	5.92								
180.0	5.92								
202.5	5.86								
225.0	5.74								
247.5	5.80								
270.0	5.80								
292.5	5.74								
315.0	5.74								
337.5	5.86								
360.0	5.92								