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Nata

LumCAT: 1437-N

Luminaire: 92.70.064.00+92.70.147.00

Report No: NATA0100

Test No: GC2018072810

LampCAT: BRIDGELUX V6HD

Lamp flux(lm): 1137.0

Number of Lamps: 1

Length(mm): 46

Phm Type: C

Voltage(V): 36.0000

Current(A): 0.3000

Power (W): 10.8000

PF: 0.0000

Ballast type: DC

Width(mm): 46

Height(mm): 0

Photometric Results

Lumens(lm): 908.97

Efficiency(%): 79.94%

Lumens(lm)/Power(W): 85.09

Central intensity(cd): 1812.182

Maximum intensity(cd): 1812.182

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.5

[C90/270]Total=37.5

Field angle(10%Imax): [C0/180]Total=66.2

[C90/270]Total=66.2

Maximum s/h(1/2): C0_180=0.63 C90_270=0.63

Maximum s/h(1/4): C0_180=0.59 C90_270=0.59

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 80.82%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.851%

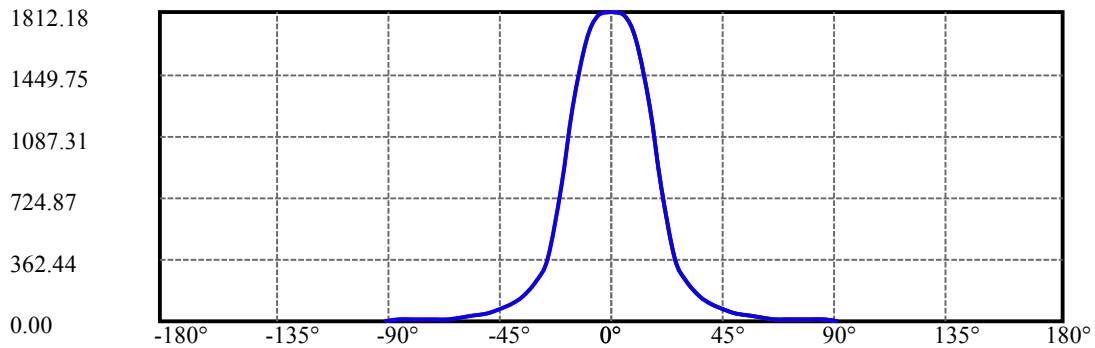
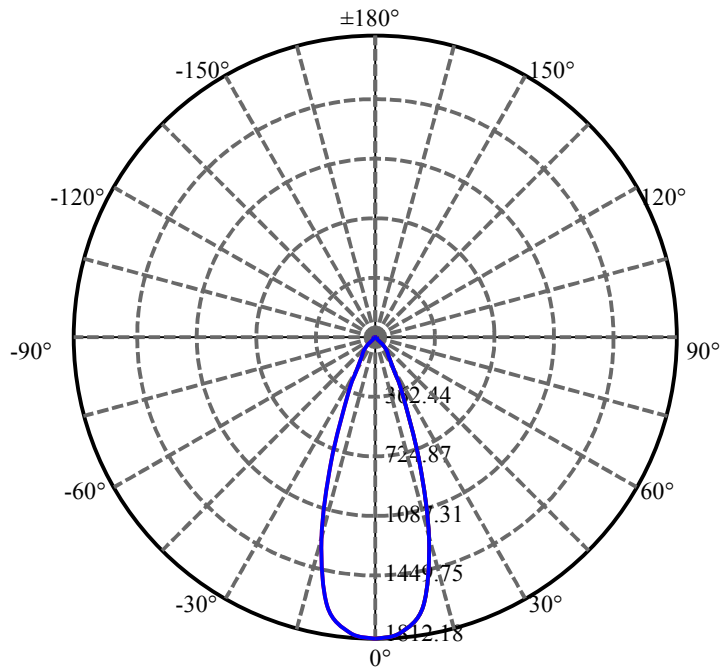
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1812.181	10.837	10.837	.953%	1.192%
5.0	1784.722	85.262	96.099	7.499%	10.572%
10.0	1637.721	155.883	251.983	13.710%	27.722%
15.0	1255.286	178.085	430.068	15.663%	47.314%
20.0	792.379	148.550	578.618	13.065%	63.657%
25.0	371.548	86.070	664.689	7.570%	73.126%
30.0	238.353	65.325	730.014	5.745%	80.312%
35.0	146.498	46.059	776.073	4.051%	85.379%
40.0	100.905	35.552	811.625	3.127%	89.291%
45.0	67.891	26.314	837.939	2.314%	92.186%
50.0	47.087	19.772	857.711	1.739%	94.361%
55.0	30.694	13.782	871.493	1.212%	95.877%
60.0	19.634	9.321	880.813	.820%	96.902%
65.0	13.028	6.472	887.285	.569%	97.614%
70.0	10.956	5.643	892.928	.496%	98.235%
75.0	9.862	5.222	898.15	.459%	98.810%
80.0	9.353	5.049	903.199	.444%	99.365%
85.0	8.513	4.649	907.847	.409%	99.877%
90.0	4.095	1.122	908.969	.099%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	730.01	64.21%	80.31%
0-40	811.62	71.38%	89.29%
0-60	880.81	77.47%	96.90%
0-90	907.85	79.85%	99.88%
0-120	907.85	79.85%	99.88%
0-180	908.97	79.94%	100.00%
60-90	36.35	3.20%	4.00%
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%
0-29.78	727.18	63.96%	80.00%

ZONAL LUMEN SUMMARY

0-10	251.98
10-20	326.64
20-30	151.40
30-40	81.61
40-50	46.09
50-60	23.10
60-70	12.12
70-80	10.27
80-90	4.65
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



C0(Max):

C0/C180:

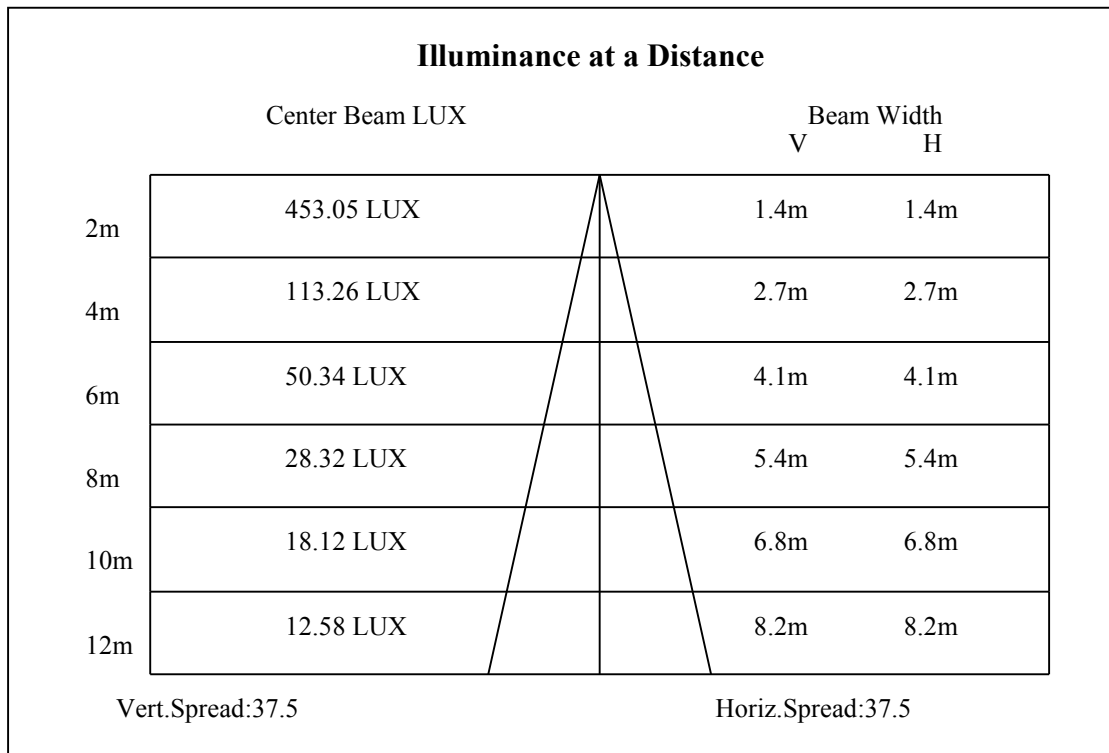
C90/C270:

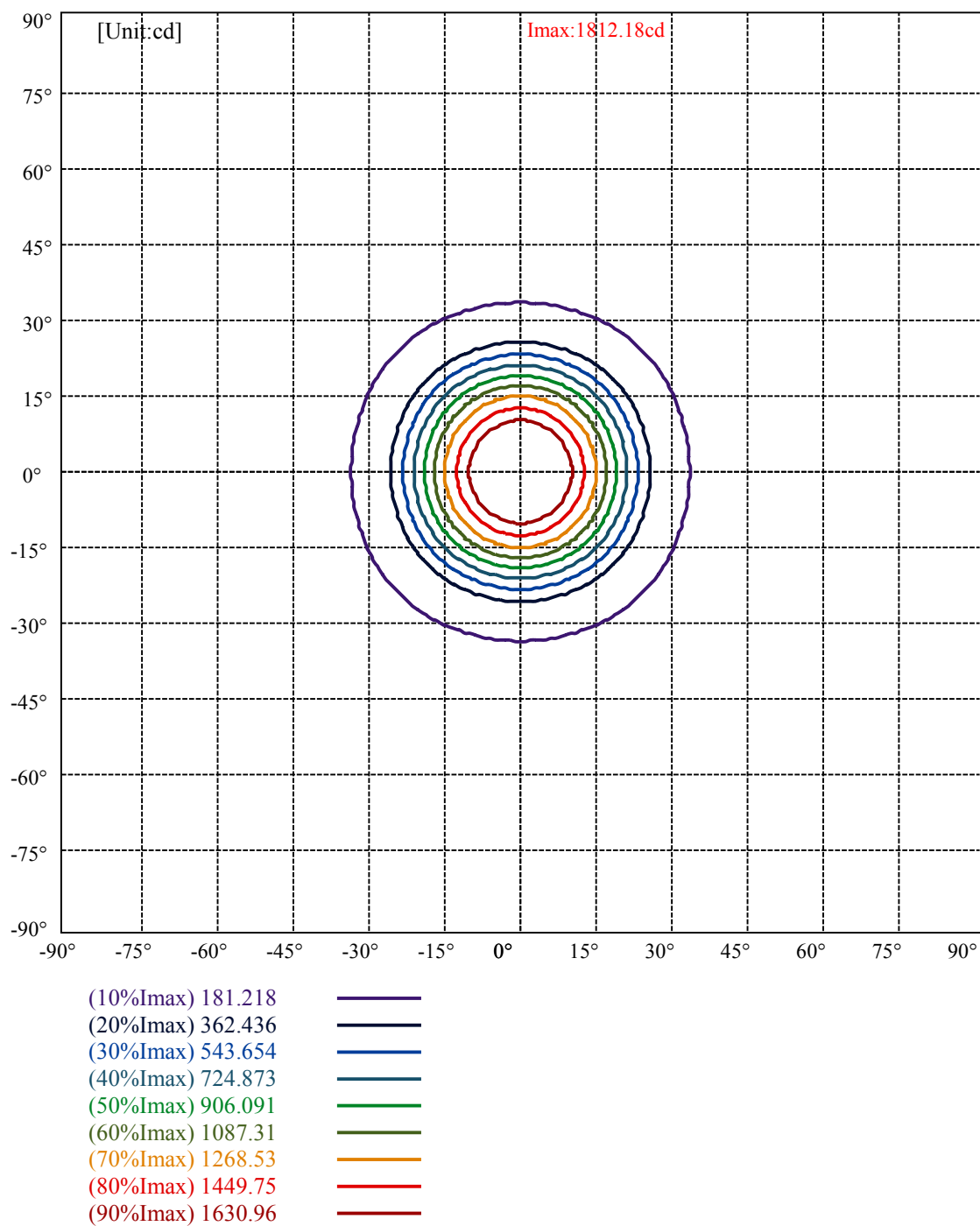
Field angle(10%Imax):C0/180Left:33.1 Right:33.1

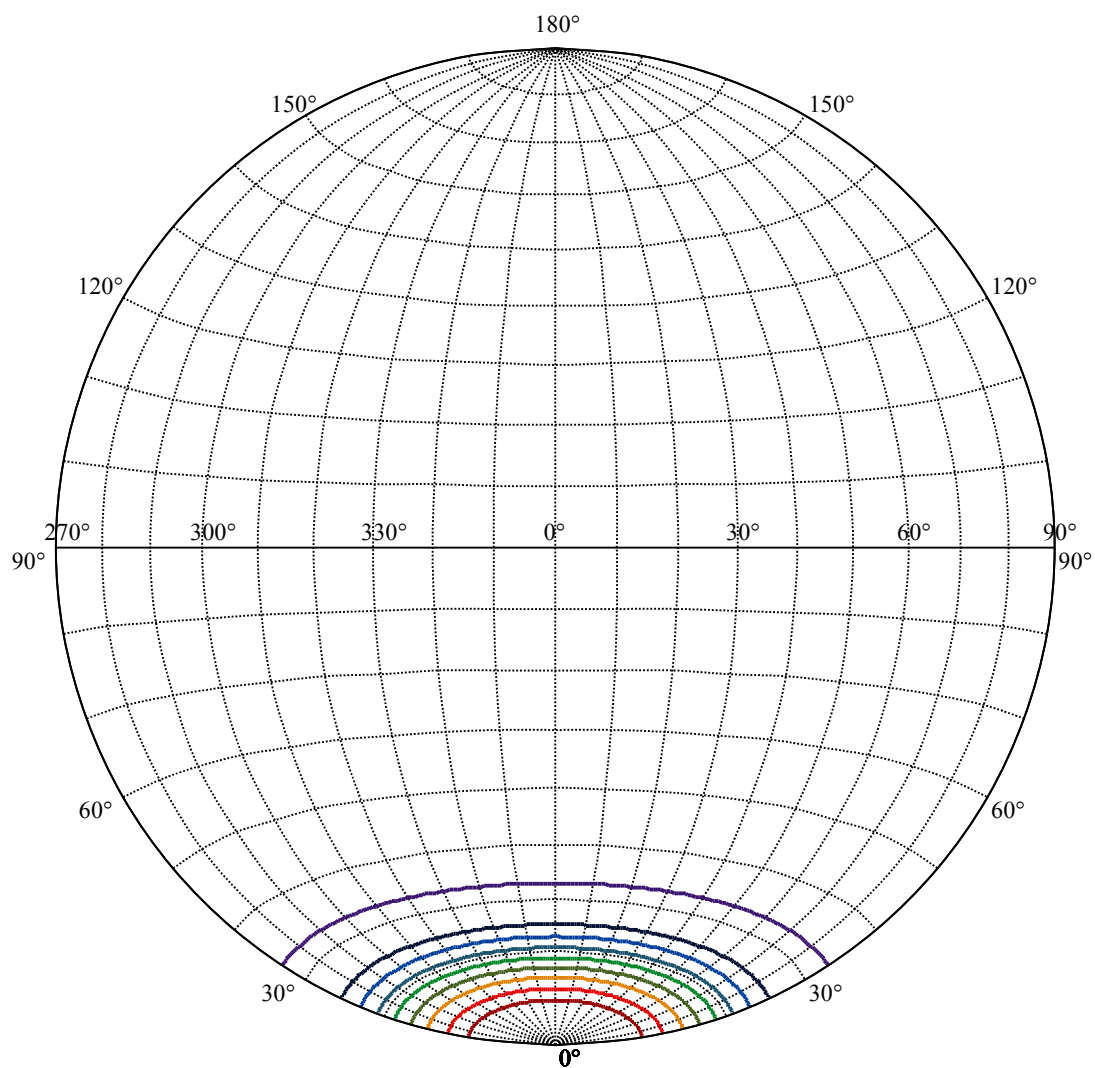
:C90/270Left:33.1 Right:33.1

Beam Angle(50%Imax):C0/180Left:18.8 Right:18.8

:C90/270Left:18.8 Right:18.8





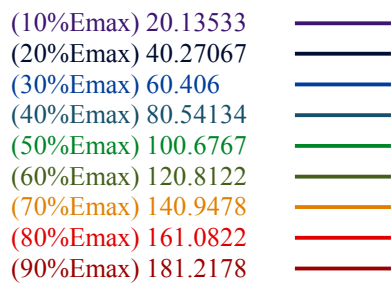


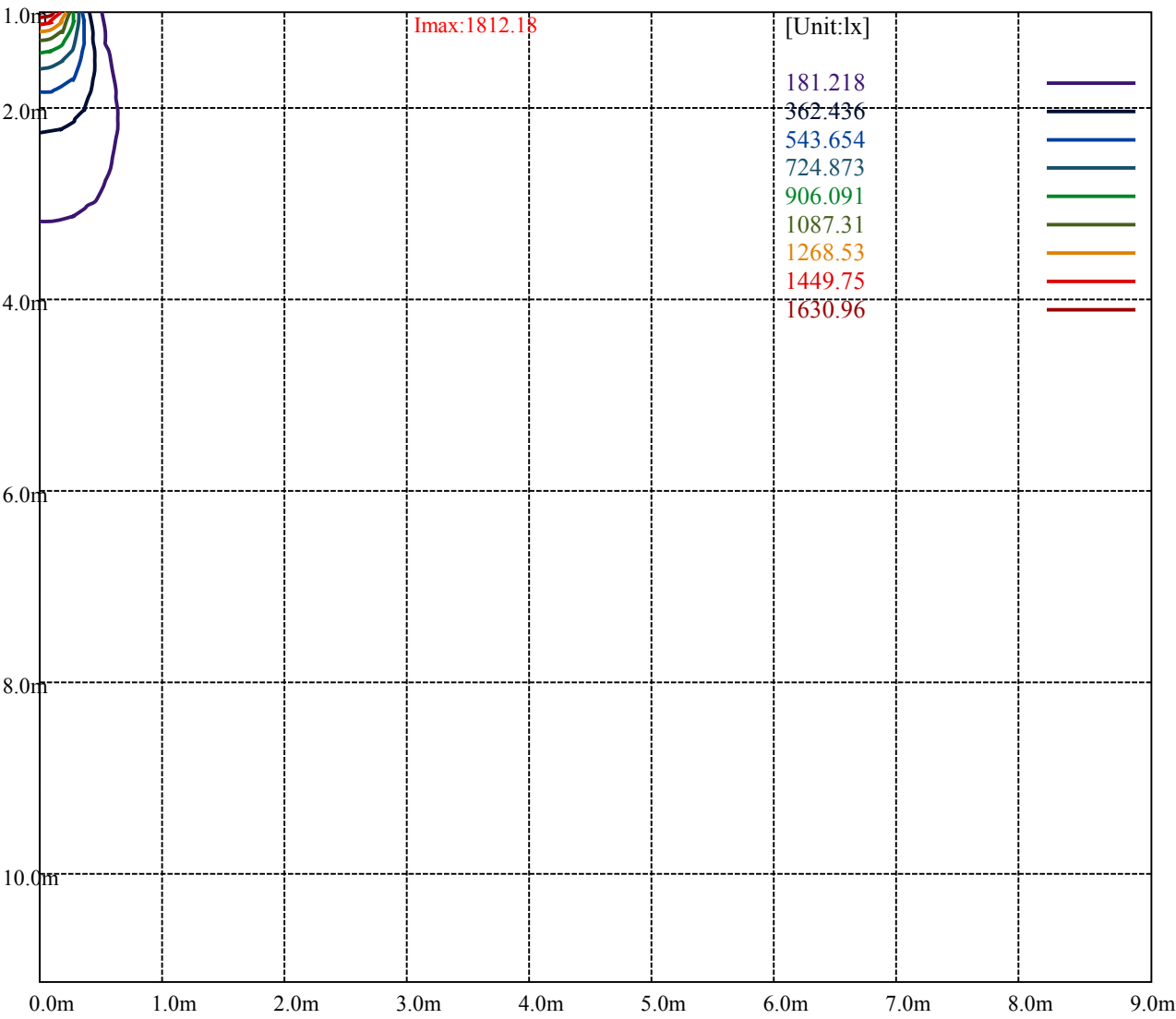
House

[Unit:cd]

Road

I_{max}:1812.18(10%I_{max}) 181.218(20%I_{max}) 362.436(30%I_{max}) 543.654(40%I_{max}) 724.873(50%I_{max}) 906.091(60%I_{max}) 1087.31(70%I_{max}) 1268.53(80%I_{max}) 1449.75(90%I_{max}) 1630.96





Luminance Table

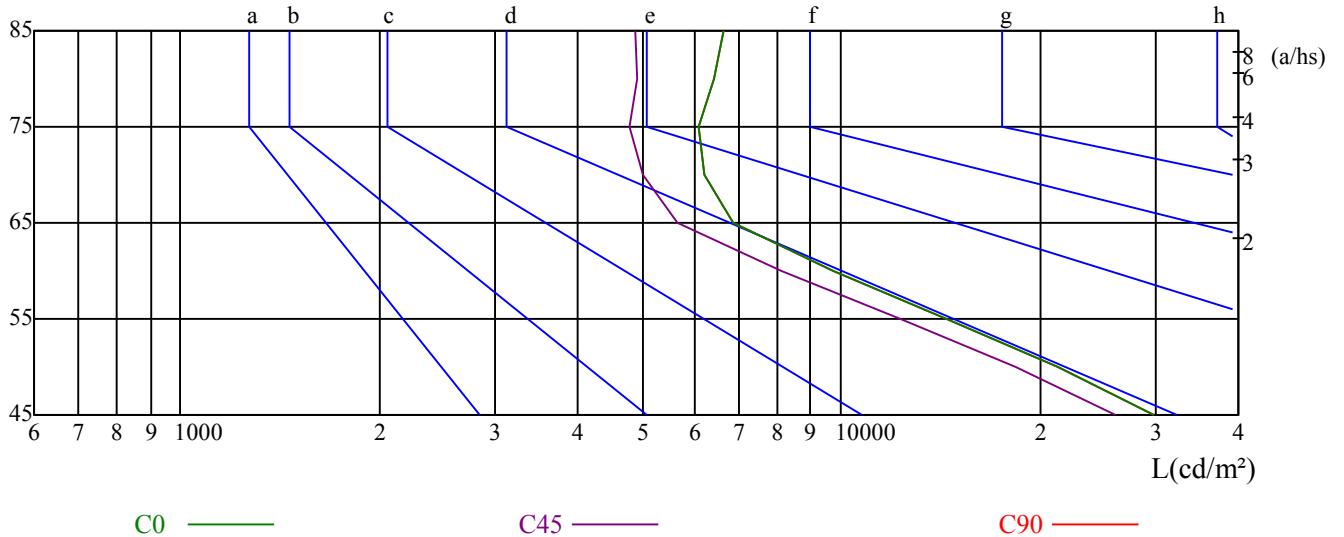
γ	45	50	55	60	65	70	75	80	85
C0	29818	21346	14492	9749	6875	6221	6110	6429	6629
C45	26110	18421	12314	8147	5641	5001	4797	4910	4893
C90	29818	21346	14492	9749	6875	6221	6110	6429	6629

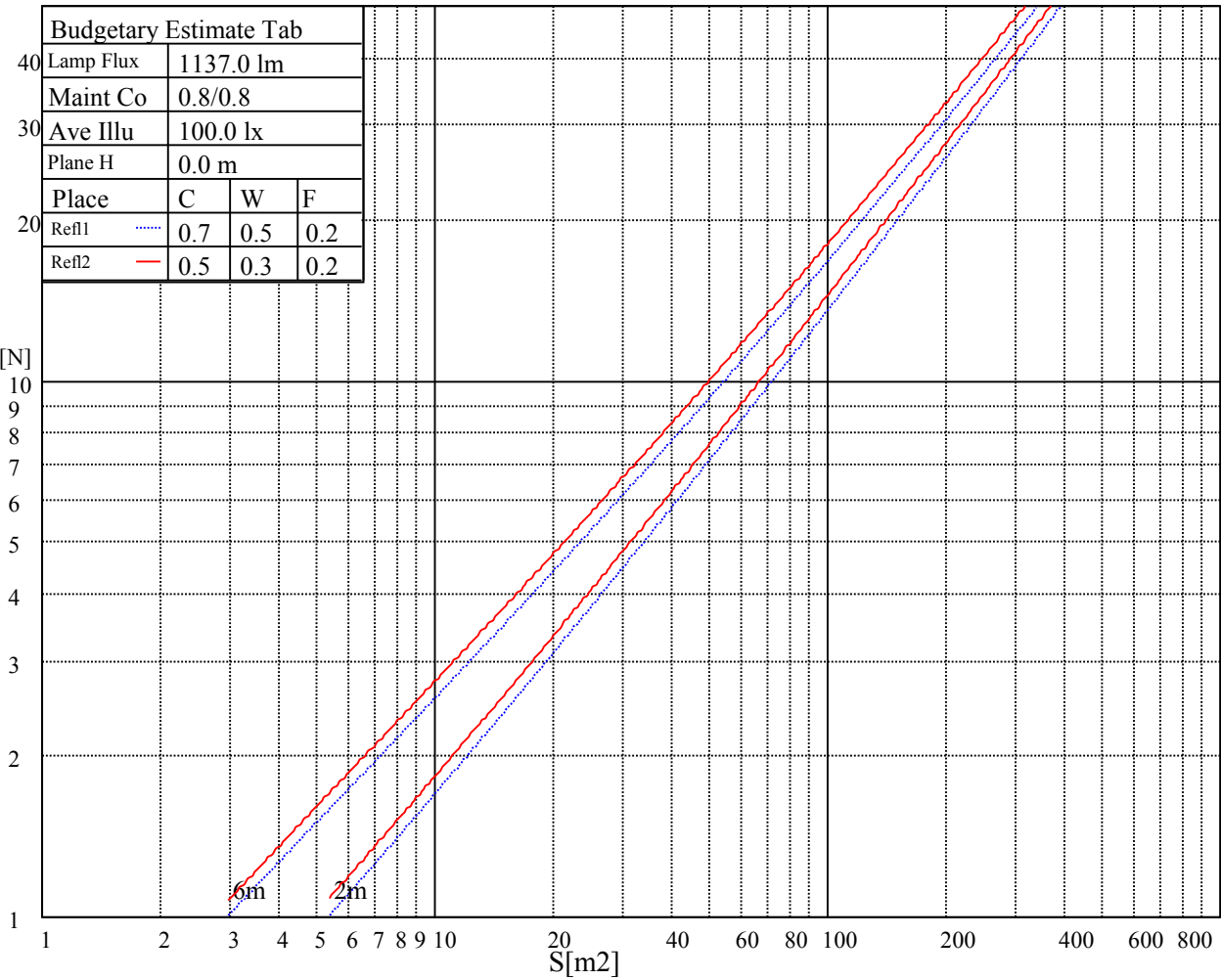
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14568	14568	14568	18007	18007	18007	46161	46161	46161

Glare Table

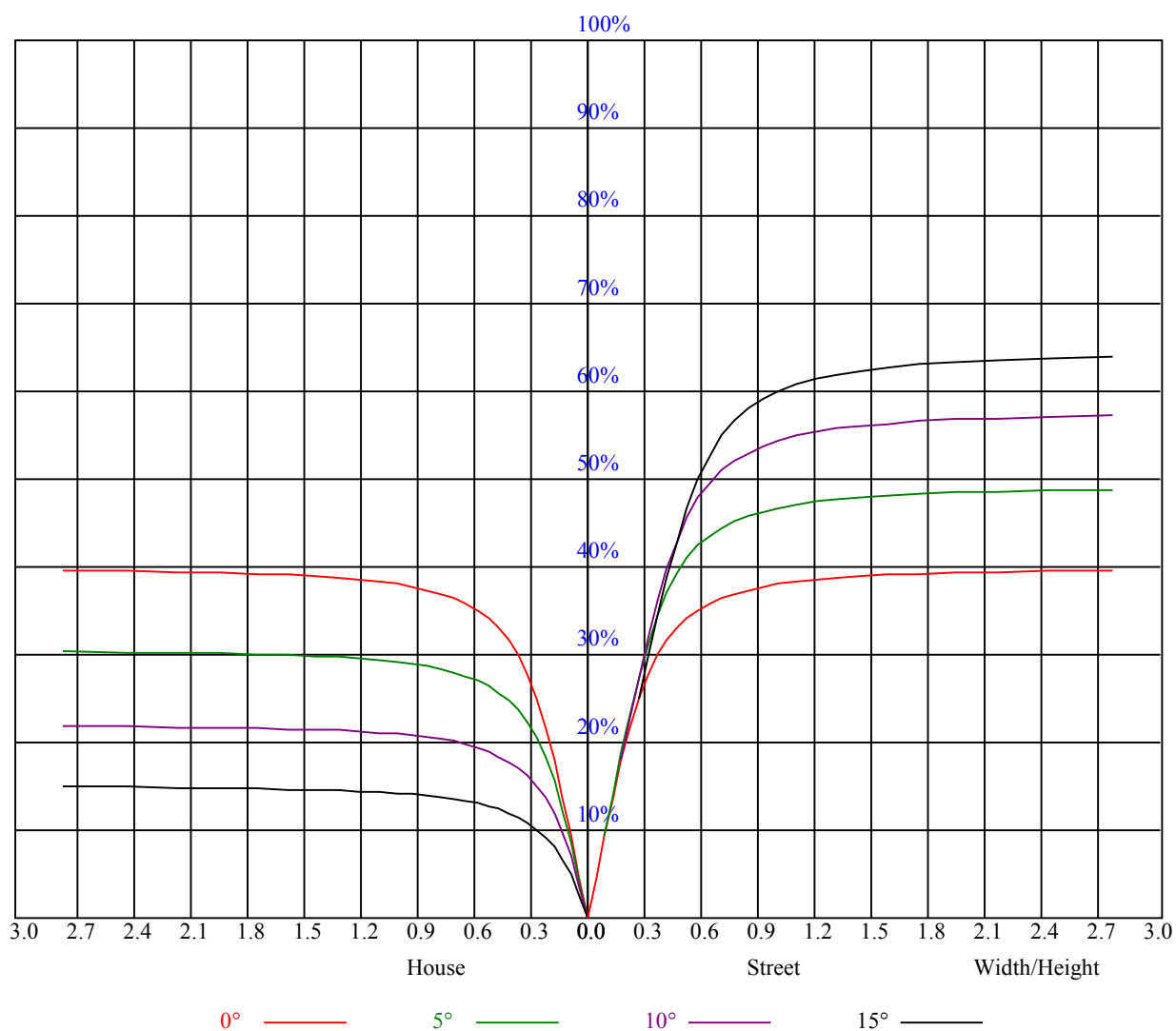
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

 $\gamma(^{\circ})$ 



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	0.89	0.86	0.84	0.87	0.85	0.83	0.84	0.82	0.80	0.80	0.79	0.78	0.78	0.77	0.76	0.74
2	0.83	0.80	0.77	0.82	0.79	0.76	0.79	0.77	0.74	0.77	0.75	0.73	0.74	0.73	0.71	0.70
3	0.78	0.74	0.71	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.71	0.69	0.68	0.66
4	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.66	0.64	0.63
5	0.71	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
6	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.57
7	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
8	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
9	0.59	0.55	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.50	0.56	0.53	0.50	0.55	0.52	0.50	0.49



Nata 1437-N

Intensity data(cd)										Appendix Page: 14 Total:14	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	1819.06	1785.48	1635.73	1352.19	864.39	427.24	280.24	159.77	112.59		
45.0	1809.70	1757.95	1614.25	1331.26	922.19	420.08	283.54	155.15	106.31		
90.0	1802.00	1773.37	1634.07	1339.52	837.85	378.95	223.09	146.67	100.70		
135.0	1817.96	1795.94	1666.01	1421.56	908.43	411.27	279.14	155.42	106.37		
180.0	1819.06	1768.41	1586.17	1097.11	687.32	315.53	207.12	136.15	94.97		
225.0	1809.70	1789.88	1645.09	1084.61	702.02	332.05	208.94	134.78	92.27		
270.0	1802.00	1817.96	1700.69	1341.72	778.50	357.87	214.55	144.08	95.96		
315.0	1817.96	1788.78	1619.76	1074.32	638.32	329.40	210.21	139.95	98.06		
360.0	1819.06	1785.48	1635.73	1352.19	864.39	427.24	280.24	159.77	112.59		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	76.14	53.29	34.47	22.63	14.76	12.50	11.84	11.73	10.02		
45.0	69.81	48.28	32.65	21.31	13.87	11.56	10.08	9.30	8.53		
90.0	65.19	45.09	29.90	19.10	12.22	10.19	9.14	8.15	7.54		
135.0	72.84	50.87	33.31	21.09	13.43	10.85	9.41	8.59	7.93		
180.0	67.17	46.69	29.68	19.16	13.05	11.23	10.13	9.47	7.54		
225.0	62.87	43.94	28.19	18.00	12.61	10.74	9.74	9.80	9.63		
270.0	63.59	44.27	28.68	18.11	12.39	10.13	8.97	8.31	8.42		
315.0	65.52	44.27	28.68	17.67	11.89	10.46	9.58	9.47	8.48		
360.0	76.14	53.29	34.47	22.63	14.76	12.50	11.84	11.73	10.02		
C/γ(°)	90.0										
0.0	4.35										
45.0	4.24										
90.0	4.13										
135.0	4.07										
180.0	3.96										
225.0	4.07										
270.0	3.96										
315.0	3.96										
360.0	4.35										