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Nata

LumCAT: 3-1938-M
Luminaire: BJB 47.319.2141
Report No: GC2017041504
Test No: NT-0010
LampCAT: BRIDGELUX V18B
Lamp flux(lm): 3874.0
Number of Lamps: 1
Length(mm): 78
Phm Type: C

Voltage(V): 35.0000
Current(A): 0.8000
Power (W): 28.0000
PF: 0.0000
Ballast type: DC
Width(mm): 78
Height(mm): 0

Photometric Results

Lumens(lm): 3465.66
Efficiency(%): 89.46%
Lumens(lm)/Power(W): 123.77
Central intensity(cd): 11305.560
Maximum intensity(cd): 11305.560
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=22.0
 [C90/270]Total=22.0
Field angle(10%Imax): [C0/180]Total=63.4
 [C90/270]Total=63.4
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.46%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.611%

Equipment: gms1980
Temperature(°C): 25.0

Date: 2017/4/15
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

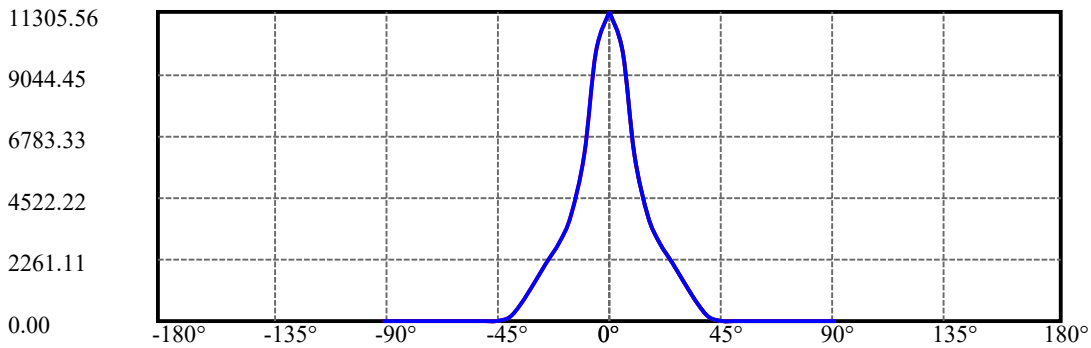
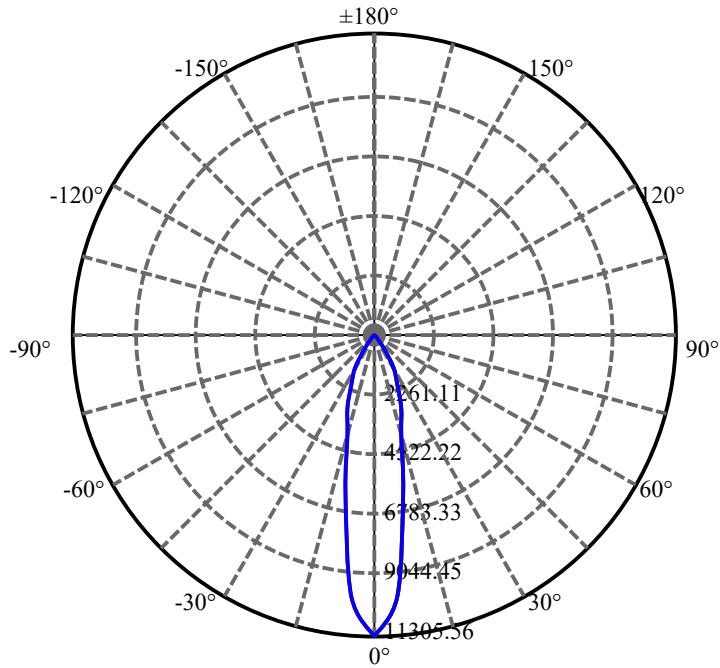
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11305.556	0.000	0	.000%	.000%
5.0	9832.041	252.694	252.694	6.523%	7.291%
10.0	6095.432	569.776	822.47	14.708%	23.732%
15.0	3896.341	592.705	1415.175	15.300%	40.834%
20.0	2911.795	561.086	1976.261	14.483%	57.024%
25.0	2090.423	524.640	2500.902	13.543%	72.162%
30.0	1404.922	442.339	2943.24	11.418%	84.926%
35.0	605.565	296.058	3239.299	7.642%	93.468%
40.0	132.844	123.198	3362.497	3.180%	97.023%
45.0	31.011	30.339	3392.836	.783%	97.899%
50.0	18.361	9.976	3402.812	.258%	98.186%
55.0	15.911	7.452	3410.264	.192%	98.401%
60.0	15.450	7.249	3417.513	.187%	98.611%
65.0	15.402	7.500	3425.014	.194%	98.827%
70.0	15.443	7.810	3432.824	.202%	99.052%
75.0	16.056	8.233	3441.057	.213%	99.290%
80.0	15.732	8.506	3449.563	.220%	99.535%
85.0	14.900	8.323	3457.886	.215%	99.776%
90.0	13.503	7.777	3465.663	.201%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2943.24	75.97%	84.93%
0-40	3362.50	86.80%	97.02%
0-60	3417.51	88.22%	98.61%
0-90	3457.89	89.26%	99.78%
0-120	3457.89	89.26%	99.78%
0-180	3465.66	89.46%	100.00%
60-90	47.62	1.23%	1.37%
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%
0-28.07	2772.53	71.57%	80.00%

ZONAL LUMEN SUMMARY

0-10	822.47
10-20	1153.79
20-30	966.98
30-40	419.26
40-50	40.32
50-60	14.70
60-70	15.31
70-80	16.74
80-90	8.32
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: —————

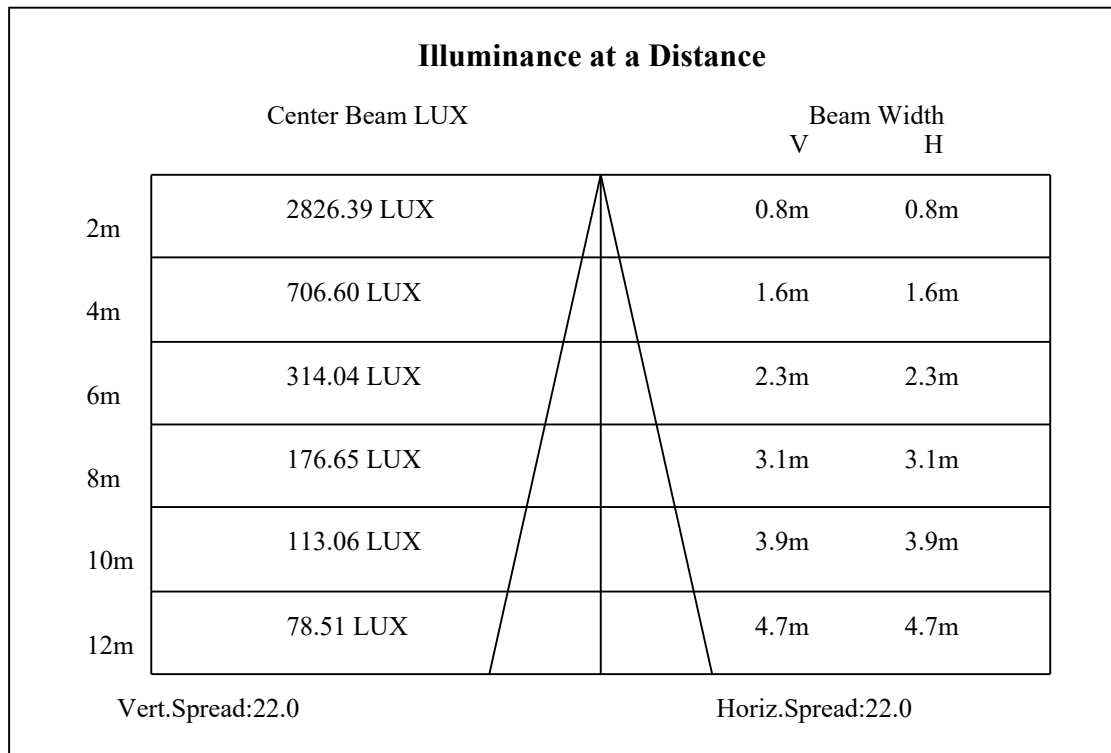
C90/C270: —————

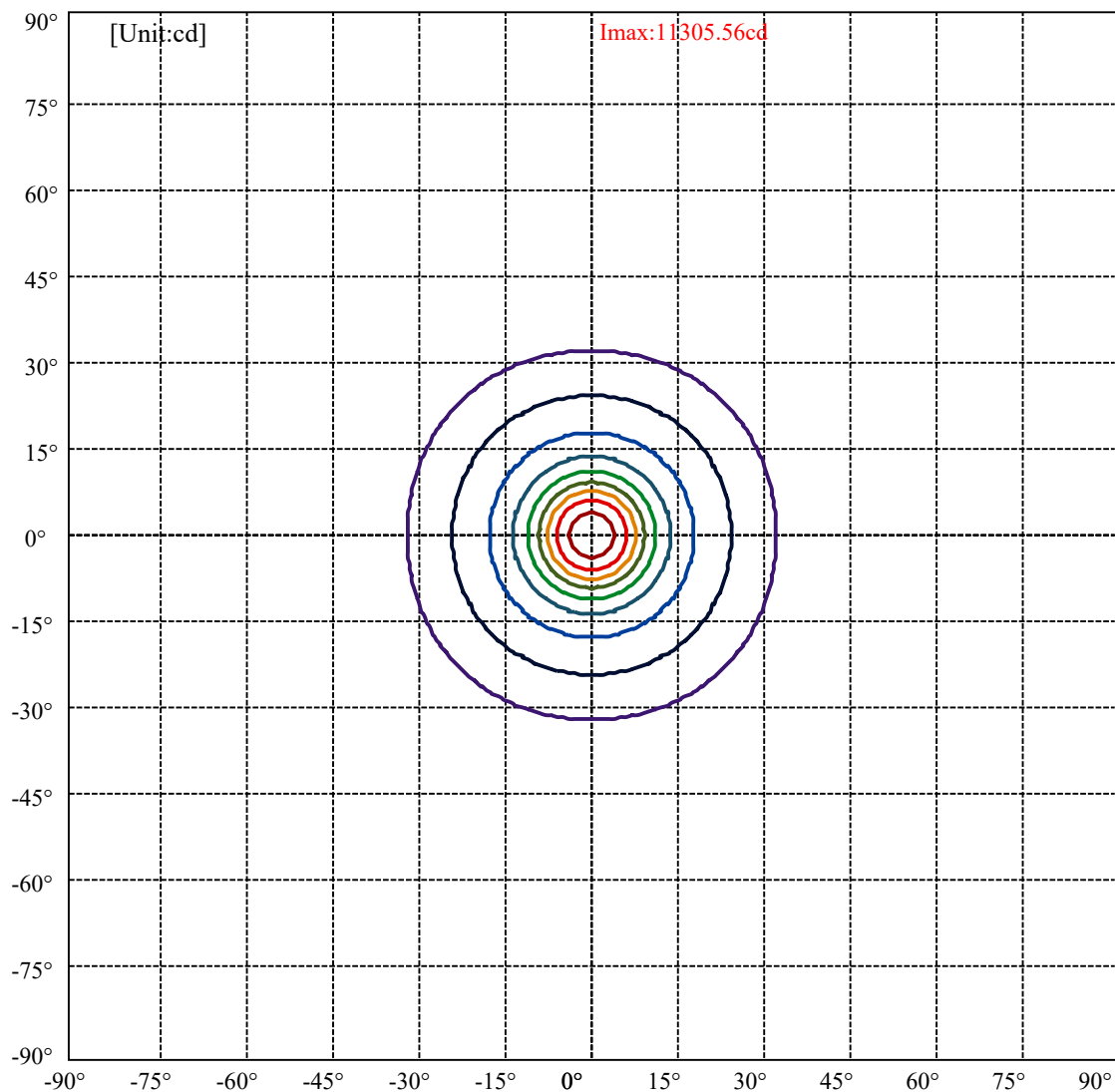
Field angle(10%Imax):C0/180Left:31.7 Right:31.7

:C90/270Left:31.7 Right:31.7

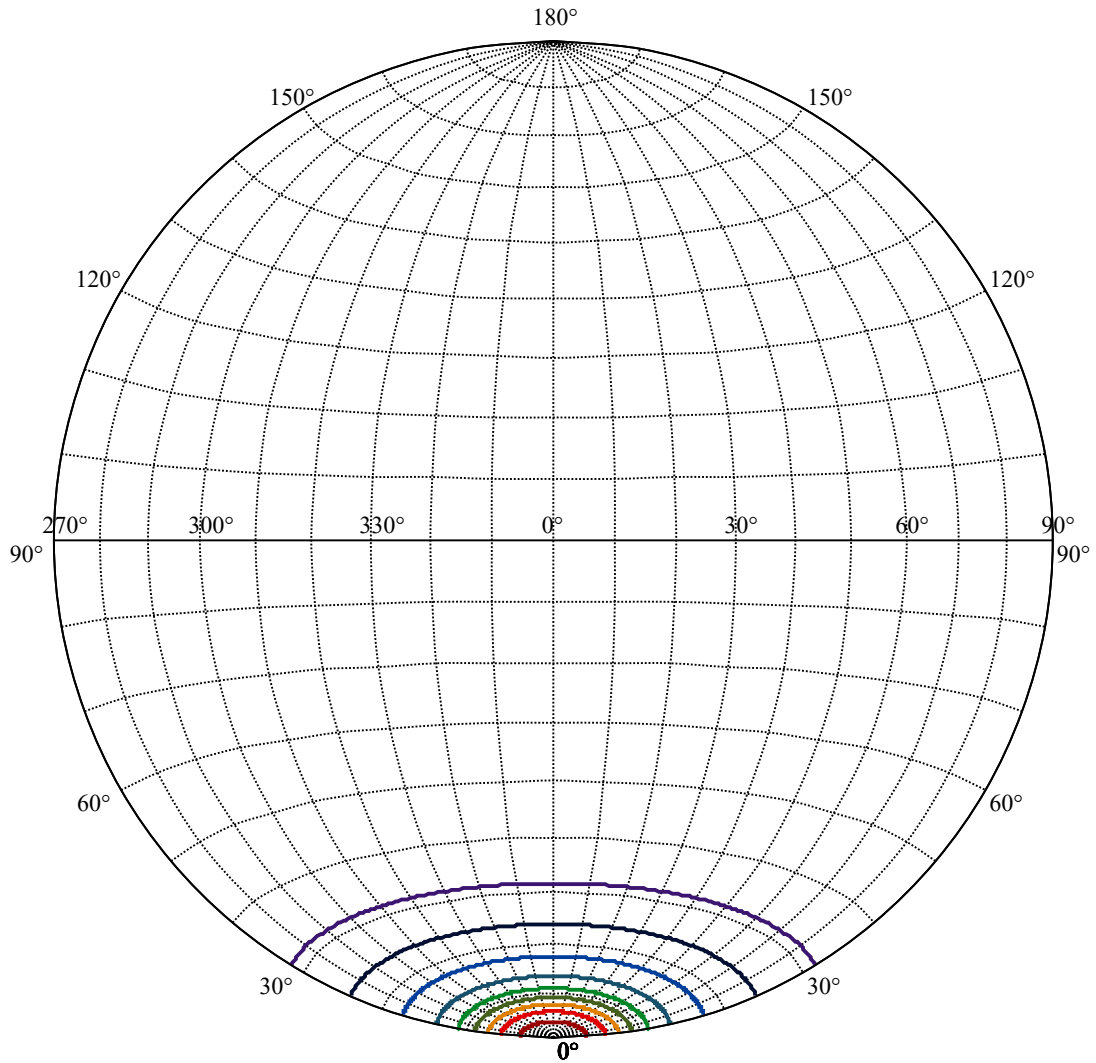
Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0

:C90/270Left:11.0 Right:11.0





(10%Imax) 1130.56	—
(20%Imax) 2261.11	—
(30%Imax) 3391.67	—
(40%Imax) 4522.22	—
(50%Imax) 5652.78	—
(60%Imax) 6783.33	—
(70%Imax) 7913.89	—
(80%Imax) 9044.45	—
(90%Imax) 10175	—



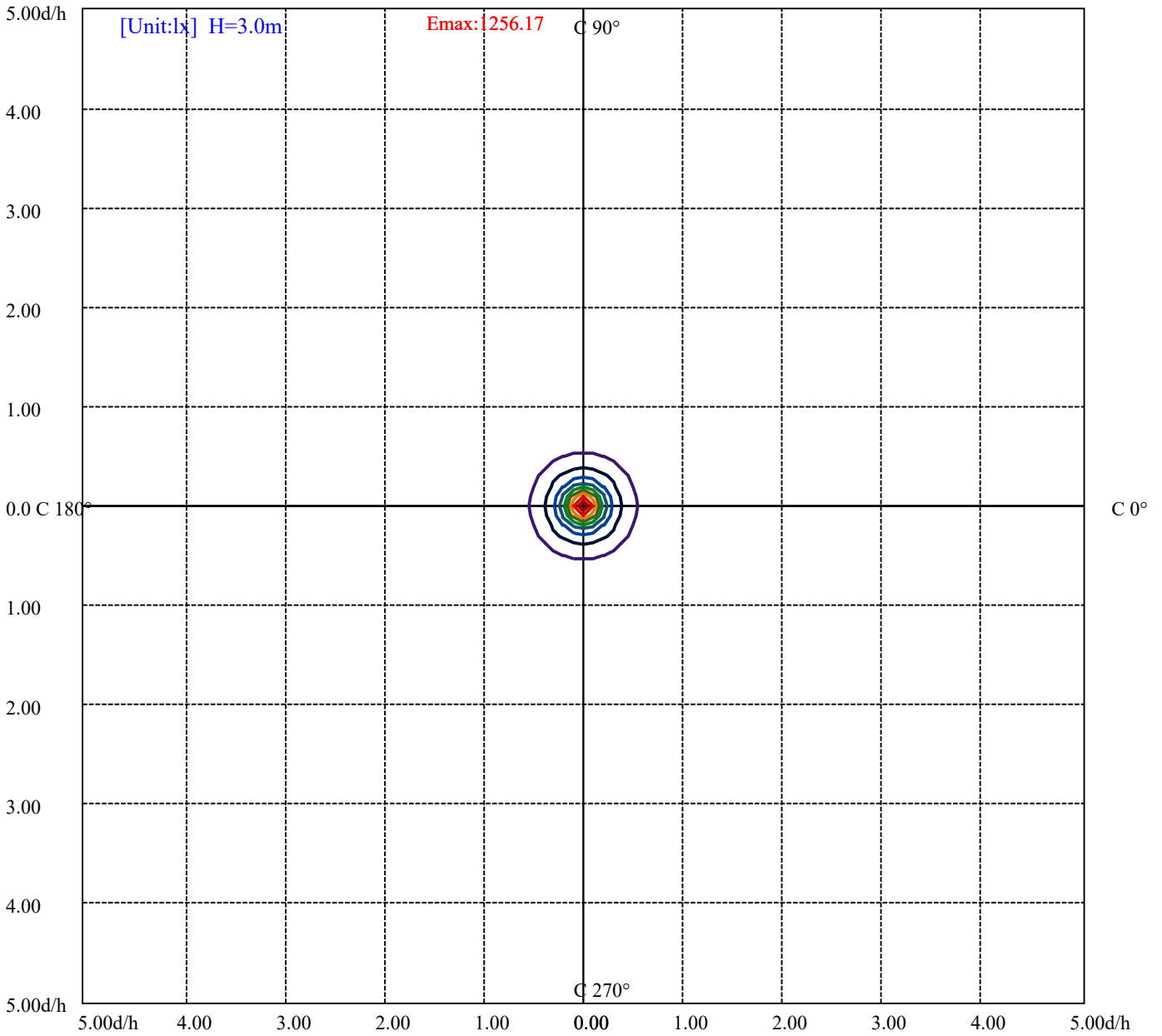
House

[Unit:cd]

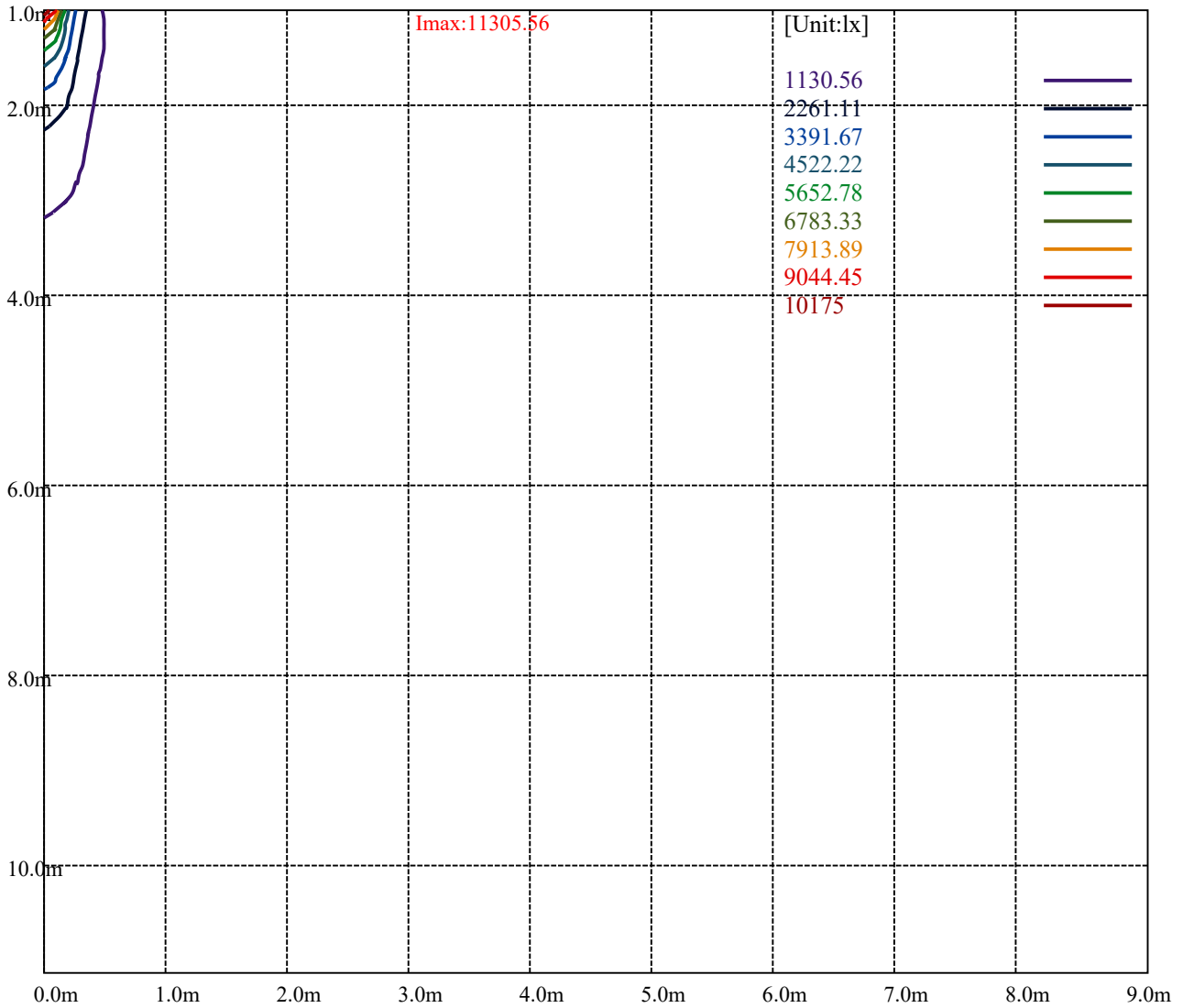
Road

Imax:11305.56

(10%Imax)	1130.56	—
(20%Imax)	2261.11	—
(30%Imax)	3391.67	—
(40%Imax)	4522.22	—
(50%Imax)	5652.78	—
(60%Imax)	6783.33	—
(70%Imax)	7913.89	—
(80%Imax)	9044.45	—
(90%Imax)	10175	—



- (10%Emax) 125.6167
- (20%Emax) 251.2333
- (30%Emax) 376.85
- (40%Emax) 502.4667
- (50%Emax) 628.0844
- (60%Emax) 753.7011
- (70%Emax) 879.3177
- (80%Emax) 1004.934
- (90%Emax) 1130.556



Luminance Table

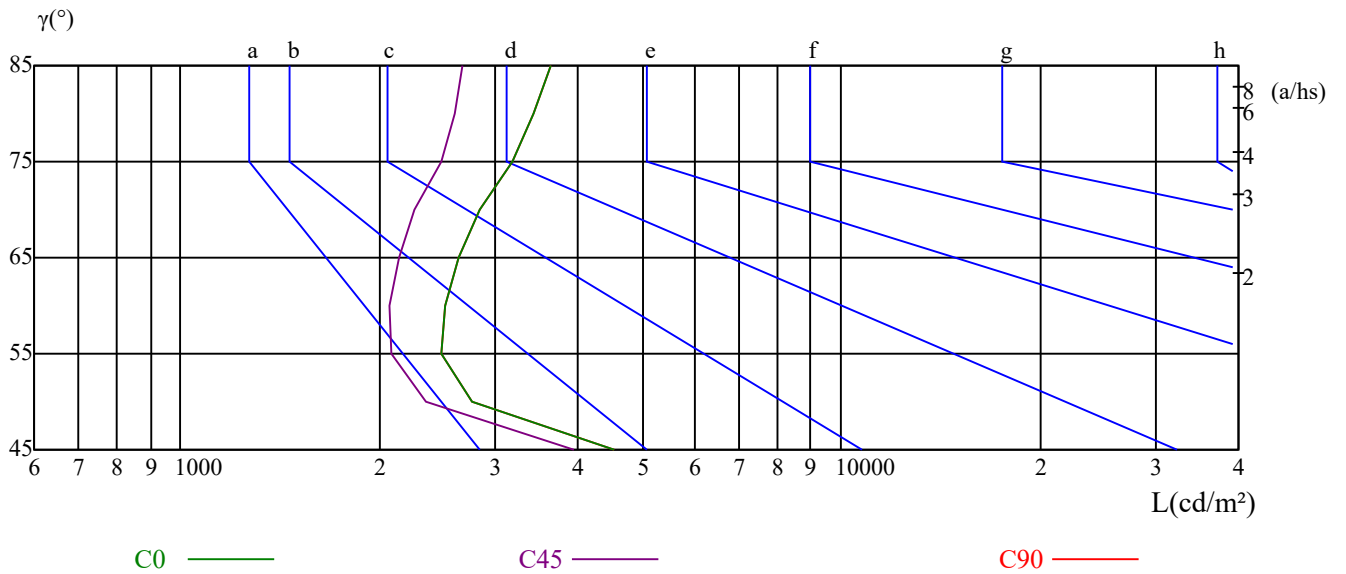
γ	45	50	55	60	65	70	75	80	85
C0	4534	2757	2475	2513	2645	2832	3185	3428	3630
C45	3930	2355	2081	2078	2148	2255	2479	2599	2668
C90	4534	2757	2475	2513	2645	2832	3185	3428	3630

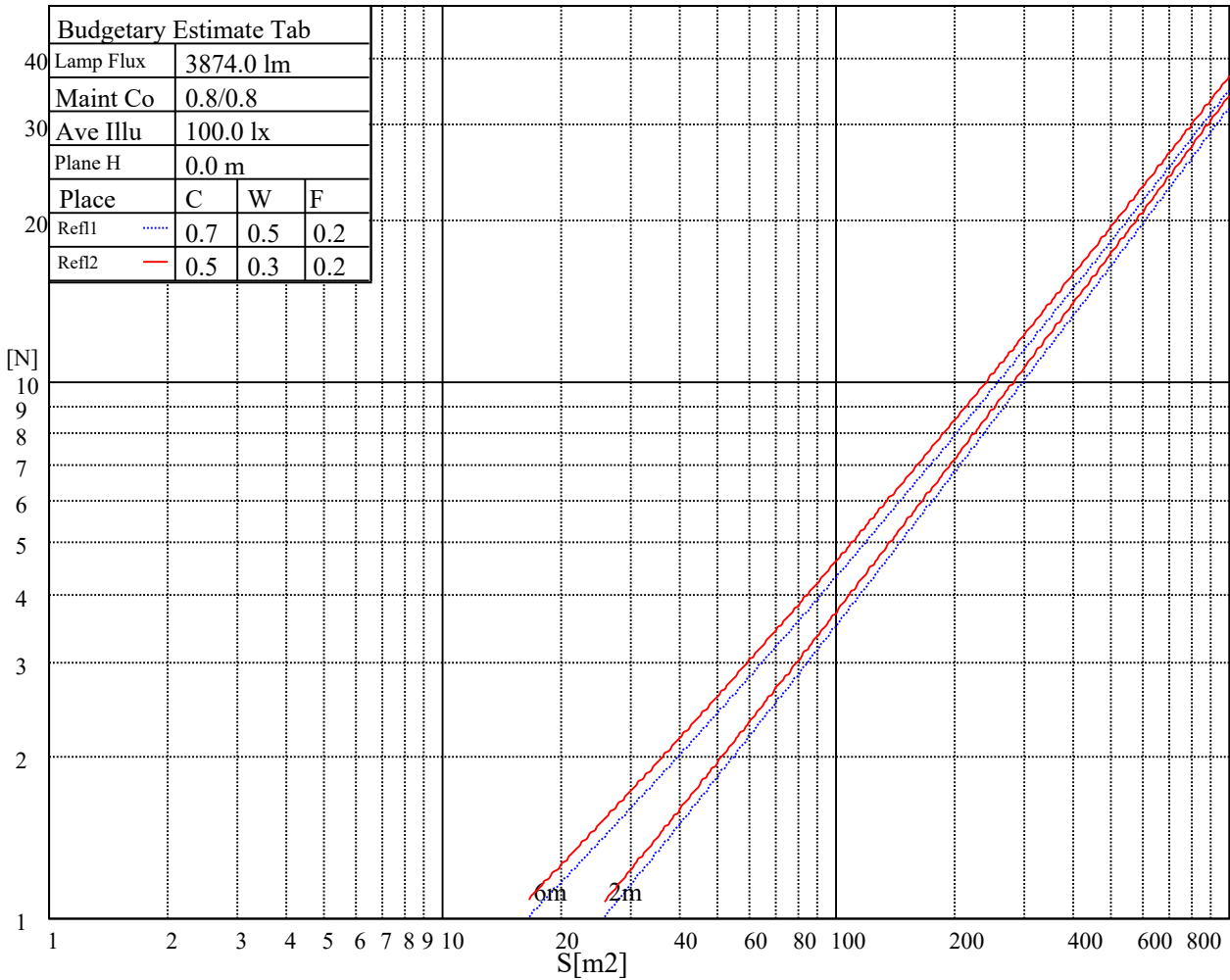
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5990	5990	5990	10196	10196	10196	28099	28099	28099

Glare Table

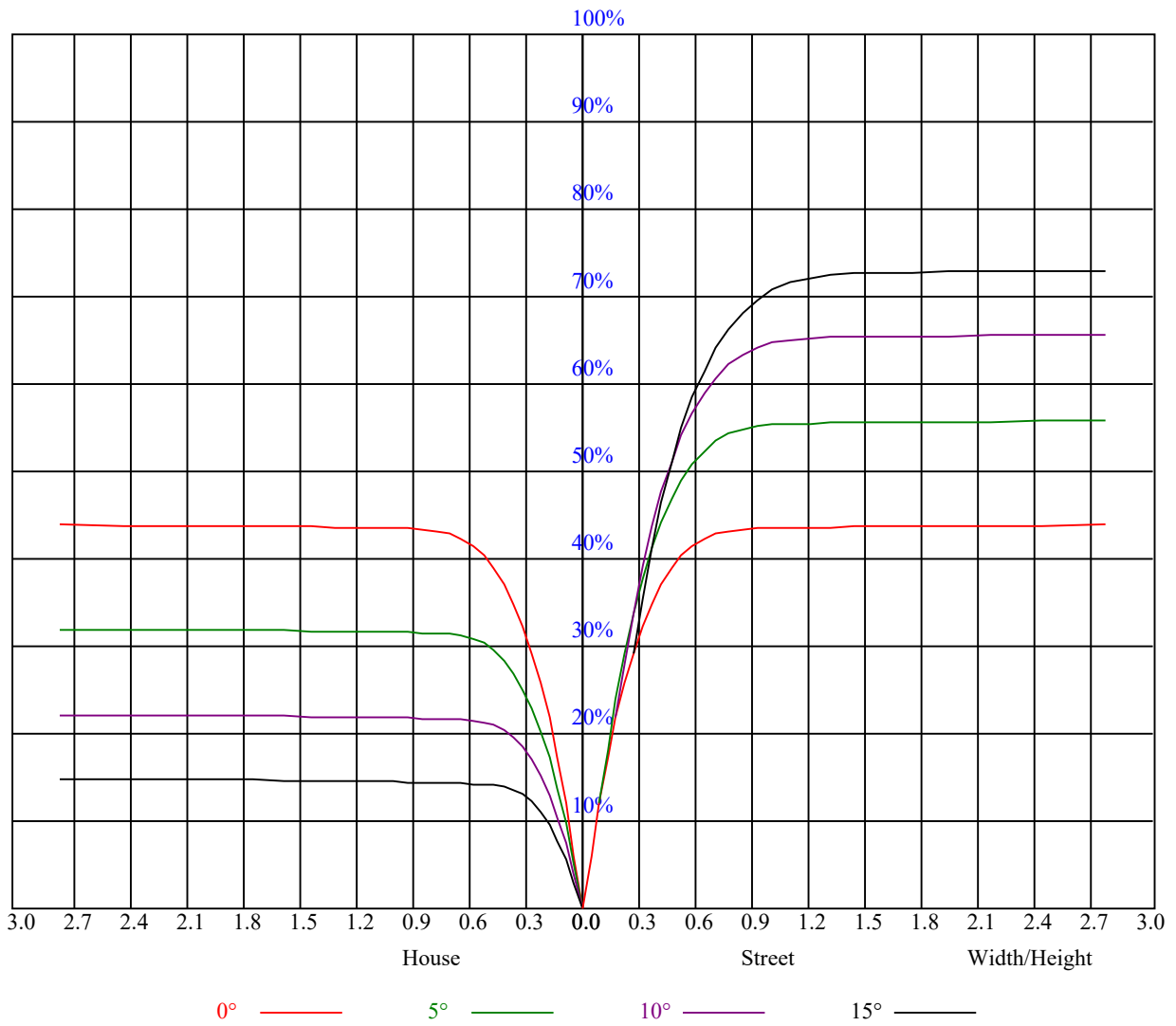
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.92	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.76
4	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
5	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.75	0.73	0.70	0.69
6	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
7	0.73	0.69	0.65	0.73	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
8	0.70	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
9	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56



Nata 3-1938-M

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	11407.69	8478.69	4971.59	3512.60	2780.35	1868.61	1157.29	355.66	48.23
45.0	11473.75	10581.84	6325.98	4057.66	2978.55	2154.36	1574.61	693.71	282.44
90.0	11451.73	10764.08	6454.26	4079.68	3036.36	2190.14	1609.30	732.53	126.52
135.0	10889.05	11391.17	8247.45	4619.23	3407.99	2606.37	1844.39	1013.04	290.15
180.0	11407.69	10979.35	7530.61	4320.83	3206.48	2243.00	1708.40	851.94	160.54
225.0	11473.75	9383.81	5416.45	3694.84	2654.82	1968.27	1073.88	472.93	59.30
270.0	11451.73	9282.51	5263.39	3622.71	2824.39	1934.13	1272.90	451.46	54.34
315.0	10889.05	7794.89	4553.71	3263.19	2405.41	1758.50	998.61	273.24	41.24
360.0	11407.69	8478.69	4971.59	3512.60	2780.35	1868.61	1157.29	355.66	48.23

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	24.11	16.30	15.09	14.59	14.37	14.53	14.98	16.30	15.53
45.0	32.98	18.33	15.80	14.92	14.53	14.26	14.20	14.26	14.76
90.0	34.91	18.44	15.69	15.03	14.76	14.65	14.65	17.45	14.70
135.0	45.42	22.08	15.91	14.92	14.37	14.15	14.04	14.04	14.15
180.0	35.73	19.49	15.47	14.59	14.20	13.87	13.82	13.93	14.15
225.0	27.75	17.51	16.08	15.64	15.86	16.85	15.75	15.14	14.87
270.0	26.21	17.95	16.90	16.90	17.95	18.83	22.46	18.94	15.64
315.0	20.98	16.79	16.35	17.01	17.18	16.41	18.55	15.80	15.42
360.0	24.11	16.30	15.09	14.59	14.37	14.53	14.98	16.30	15.53

C/γ(°)	90.0
0.0	13.27
45.0	13.65
90.0	13.54
135.0	13.49
180.0	13.32
225.0	13.65
270.0	13.60
315.0	13.49
360.0	13.27