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brideglux

LumCAT: 4-1886-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 33.0000
Test No: 2017011401	Current(A): 0.5500
LampCAT: BRIDGELUX VERO 13	Power (W): 18.1500
Lamp flux(lm): 1556.0	PF: 0.0000
Number of Lamps: 1	Ballast type:
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1445.70
Efficiency(%): 92.91%
Lumens(lm)/Power(W): 80.94
Central intensity(cd): 4145.747
Maximum intensity(cd): 4145.747
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=26.5
 [C90/270]Total=26.5
Field angle(10%Imax): [C0/180]Total=69.3
 [C90/270]Total=69.3
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.49 C90_270=0.49
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.42%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.027%

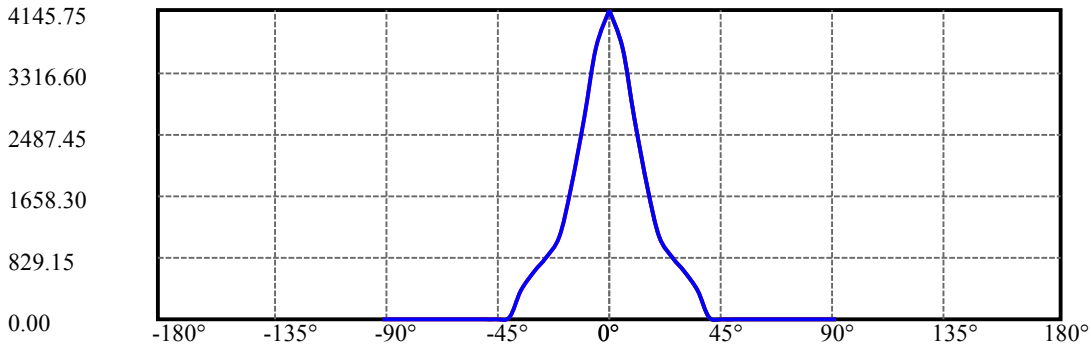
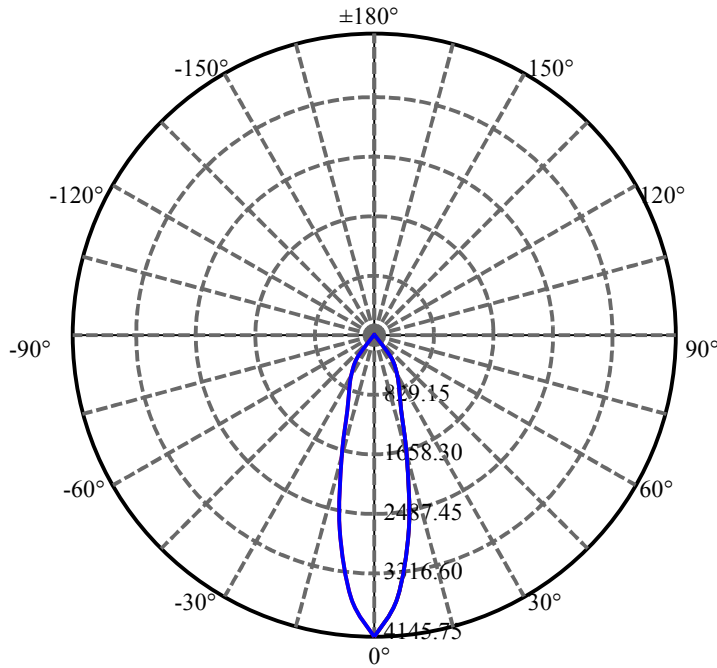
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4145.747	24.792	24.792	1.593%	1.715%
5.0	3624.019	173.131	197.924	11.127%	13.690%
10.0	2696.938	256.703	454.627	16.498%	31.447%
15.0	1742.810	247.250	701.876	15.890%	48.549%
20.0	1105.257	207.207	909.083	13.317%	62.882%
25.0	824.669	191.037	1100.12	12.277%	76.096%
30.0	651.964	178.683	1278.803	11.483%	88.455%
35.0	397.810	125.071	1403.874	8.038%	97.107%
40.0	26.021	9.168	1413.042	.589%	97.741%
45.0	7.859	3.046	1416.089	.196%	97.951%
50.0	7.261	3.049	1419.137	.196%	98.162%
55.0	6.937	3.115	1422.252	.200%	98.378%
60.0	6.738	3.198	1425.45	.206%	98.599%
65.0	6.614	3.286	1428.736	.211%	98.826%
70.0	6.524	3.360	1432.096	.216%	99.059%
75.0	6.455	3.418	1435.514	.220%	99.295%
80.0	7.584	4.094	1439.608	.263%	99.578%
85.0	7.969	4.352	1443.96	.280%	99.879%
90.0	6.366	1.745	1445.705	.112%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1278.80	82.19%	88.46%
0-40	1413.04	90.81%	97.74%
0-60	1425.45	91.61%	98.60%
0-90	1443.96	92.80%	99.88%
0-120	1443.96	92.80%	99.88%
0-180	1445.70	92.91%	100.00%
60-90	21.71	1.40%	1.50%
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%
0-26.58	1156.56	74.33%	80.00%

ZONAL LUMEN SUMMARY

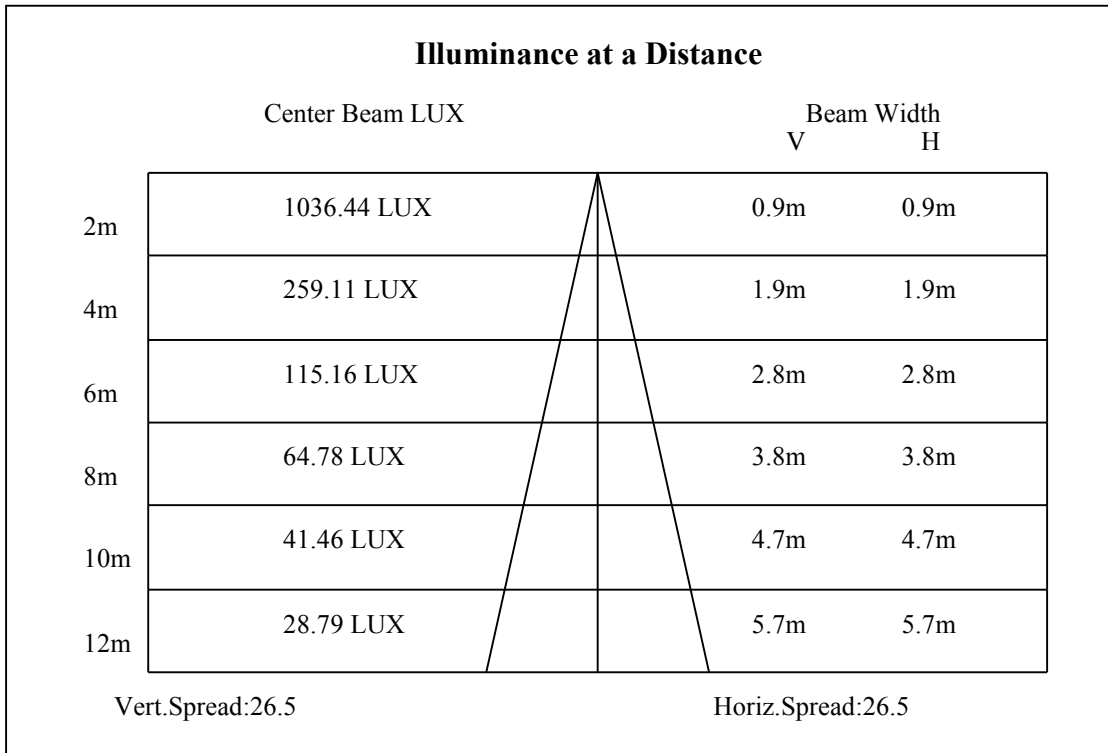
0-10	454.63
10-20	454.46
20-30	369.72
30-40	134.24
40-50	6.09
50-60	6.31
60-70	6.65
70-80	7.51
80-90	4.35
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

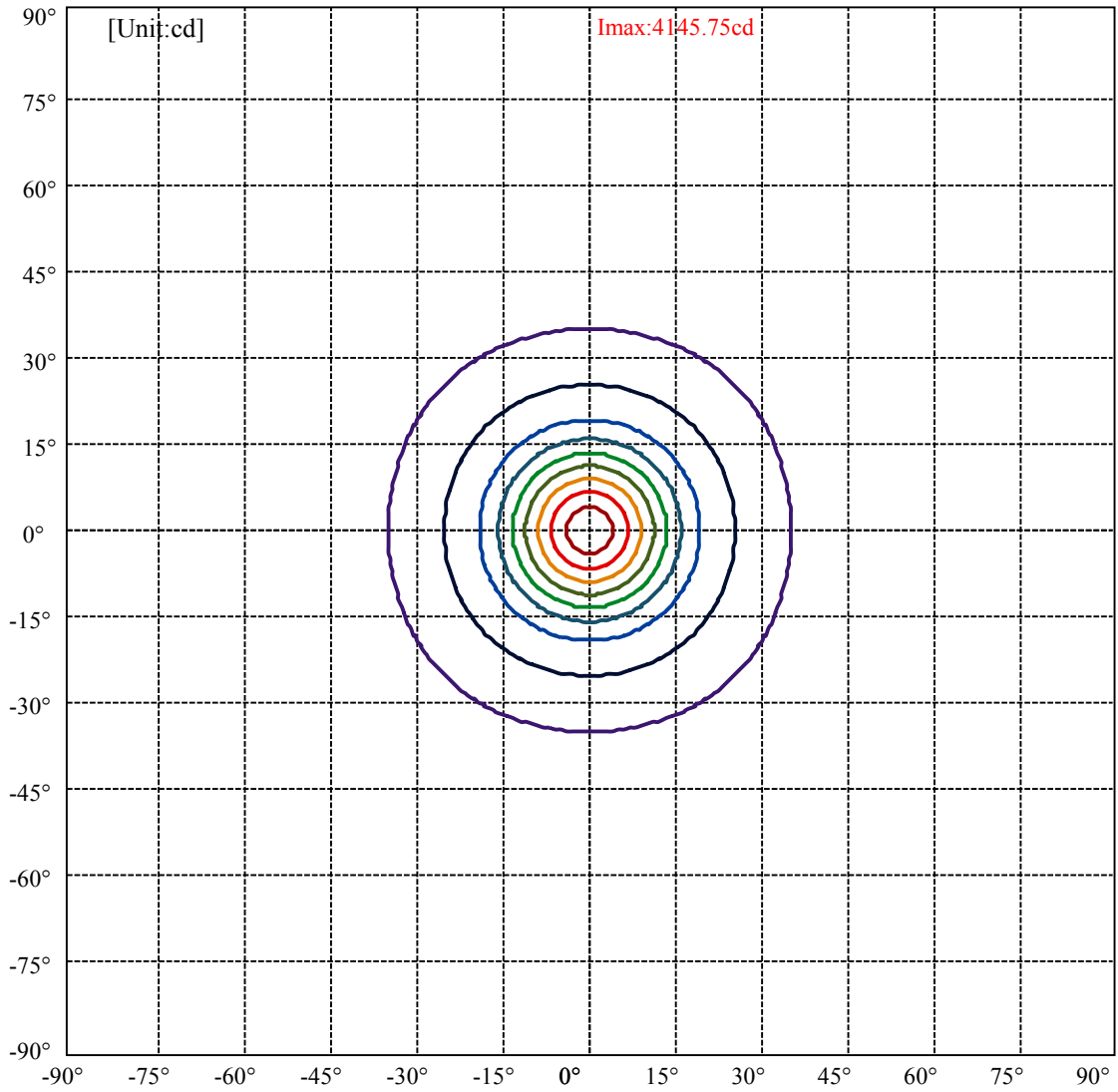


C0(Max): —————
C0/C180: —————
C90/C270: —————

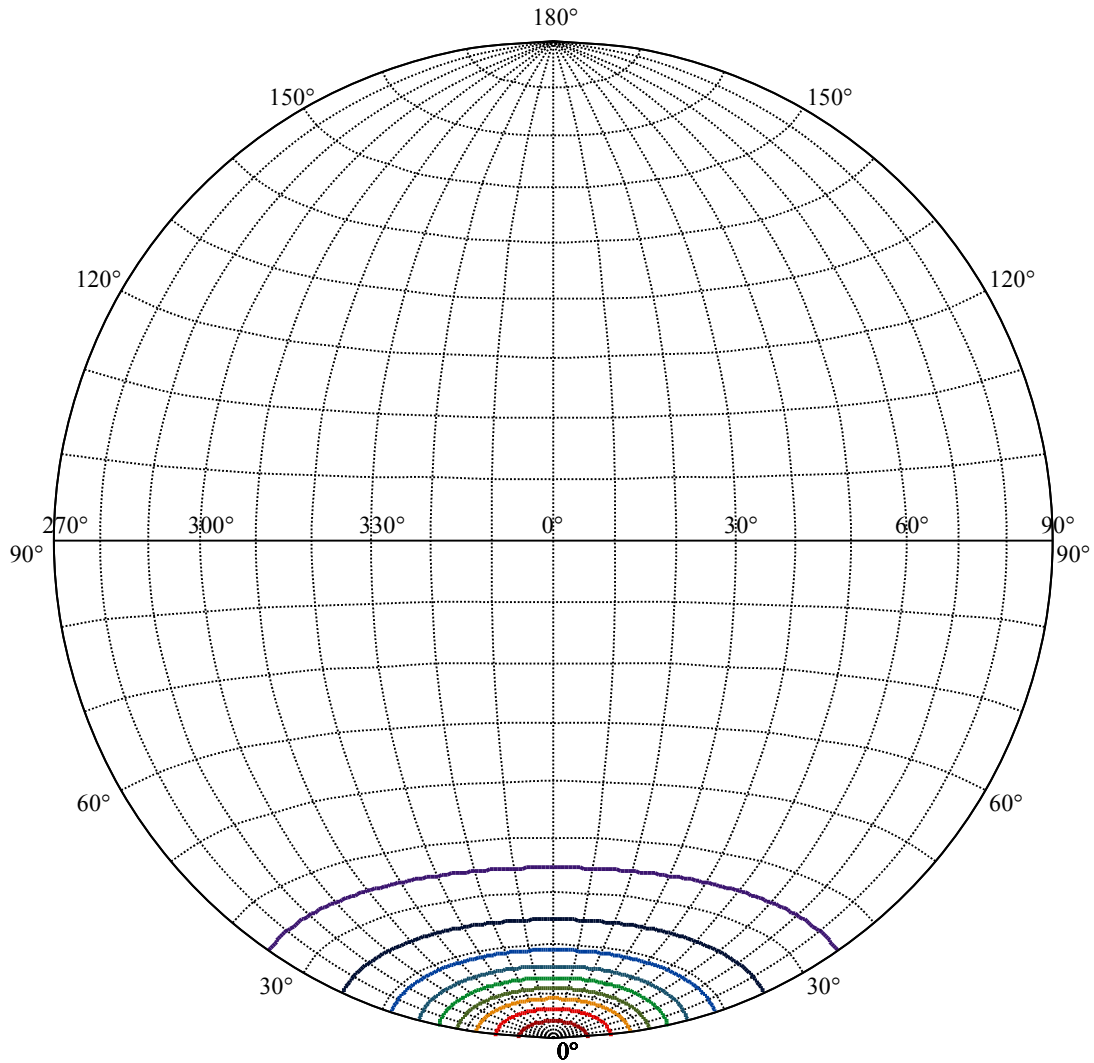
Field angle(10%Imax):C0/180Left:34.7 Right:34.7
:C90/270Left:34.7 Right:34.7

Beam Angle(50%Imax):C0/180Left:13.3 Right:13.3
:C90/270Left:13.3 Right:13.3





(10%Imax) 414.575	—
(20%Imax) 829.149	—
(30%Imax) 1243.72	—
(40%Imax) 1658.3	—
(50%Imax) 2072.87	—
(60%Imax) 2487.45	—
(70%Imax) 2902.02	—
(80%Imax) 3316.6	—
(90%Imax) 3731.17	—



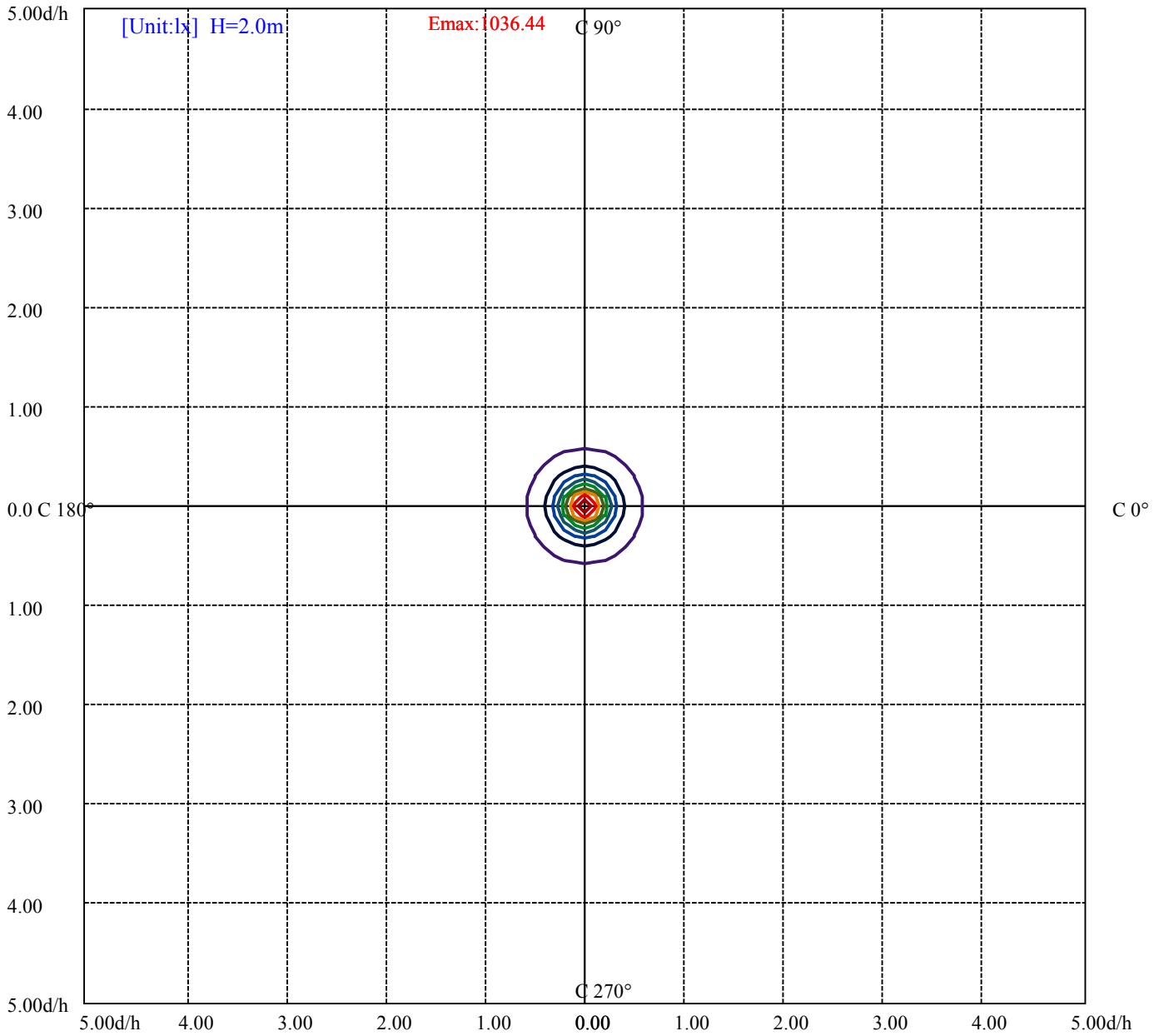
House

[Unit:cd]

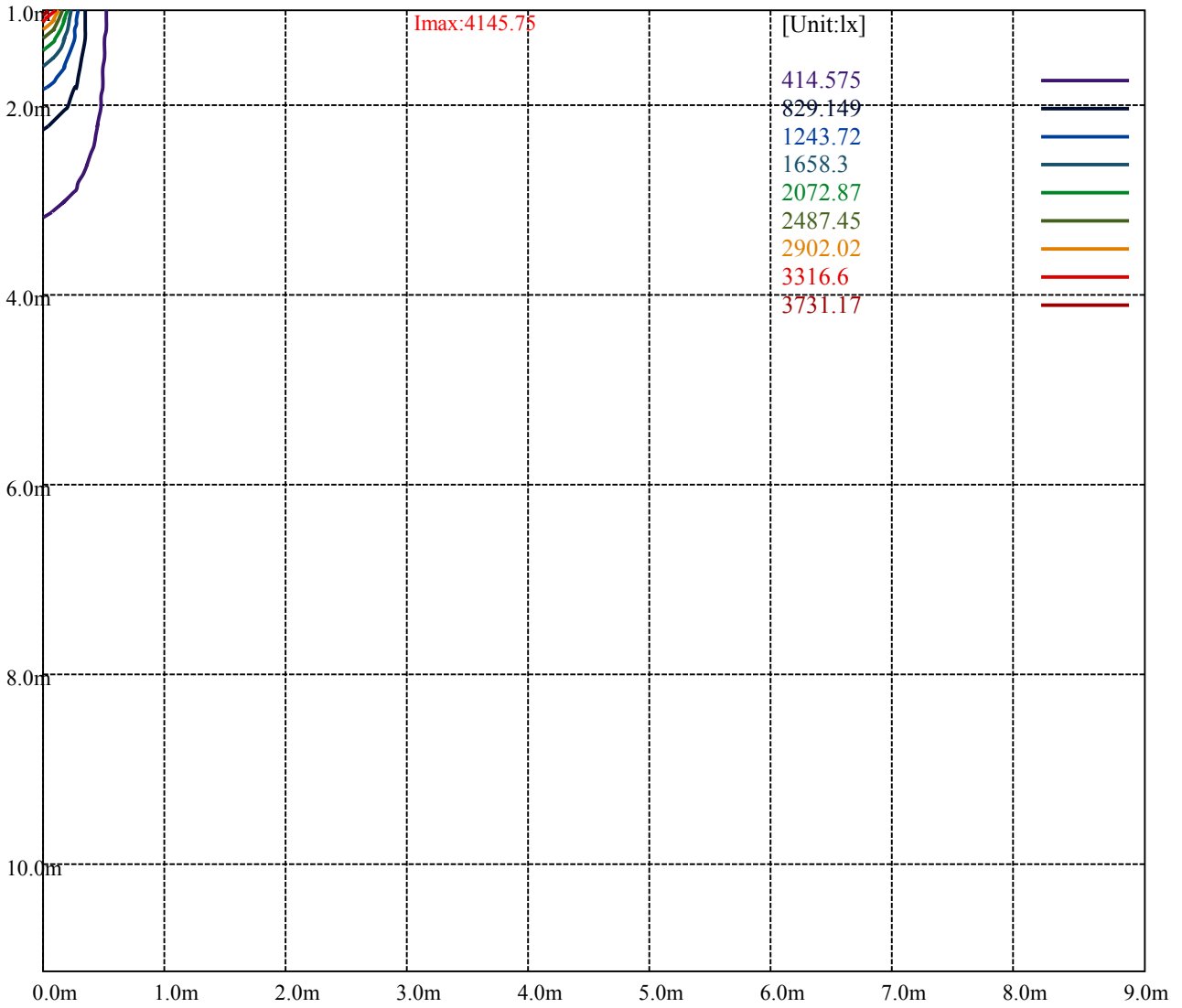
Road

Imax:4145.75

(10%Imax)	414.575	—
(20%Imax)	829.149	—
(30%Imax)	1243.72	—
(40%Imax)	1658.3	—
(50%Imax)	2072.87	—
(60%Imax)	2487.45	—
(70%Imax)	2902.02	—
(80%Imax)	3316.6	—
(90%Imax)	3731.17	—



- (10%Emax) 103.6432
- (20%Emax) 207.2865
- (30%Emax) 310.93
- (40%Emax) 414.5725
- (50%Emax) 518.2175
- (60%Emax) 621.86
- (70%Emax) 725.5025
- (80%Emax) 829.1475
- (90%Emax) 932.79



Luminance Table

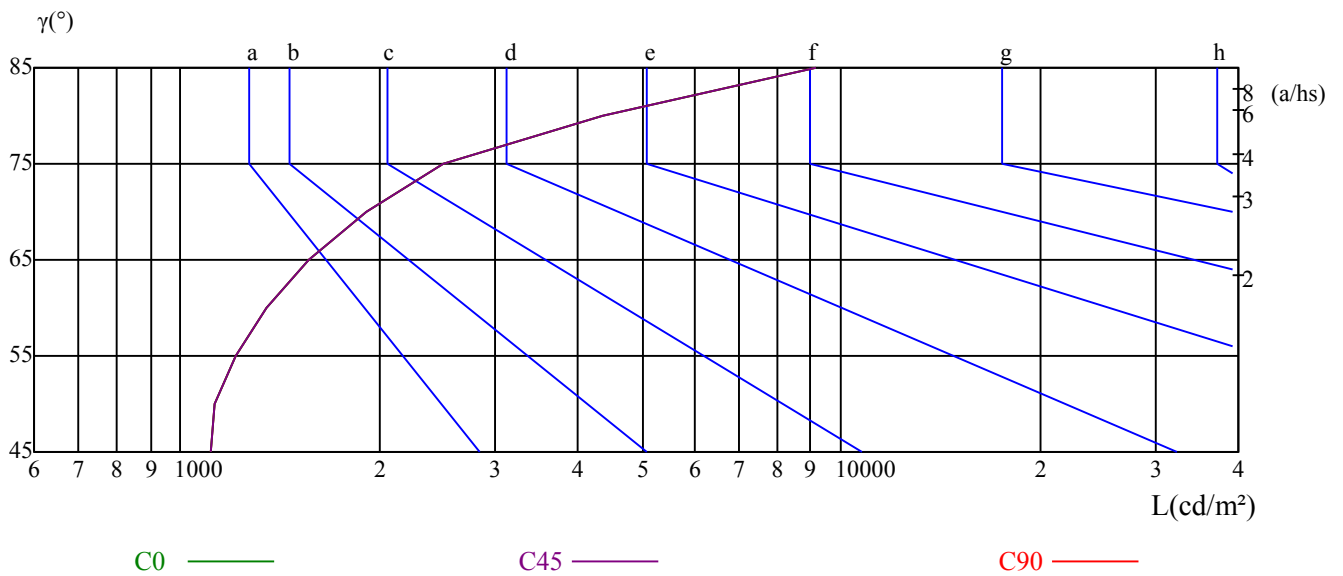
γ	45	50	55	60	65	70	75	80	85
C0	1111	1130	1209	1348	1565	1908	2494	4367	9144
C45	1111	1130	1209	1348	1565	1908	2494	4367	9144
C90	1111	1130	1209	1348	1565	1908	2494	4367	9144

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1565	1565	1565	2494	2494	2494	9144	9144	9144

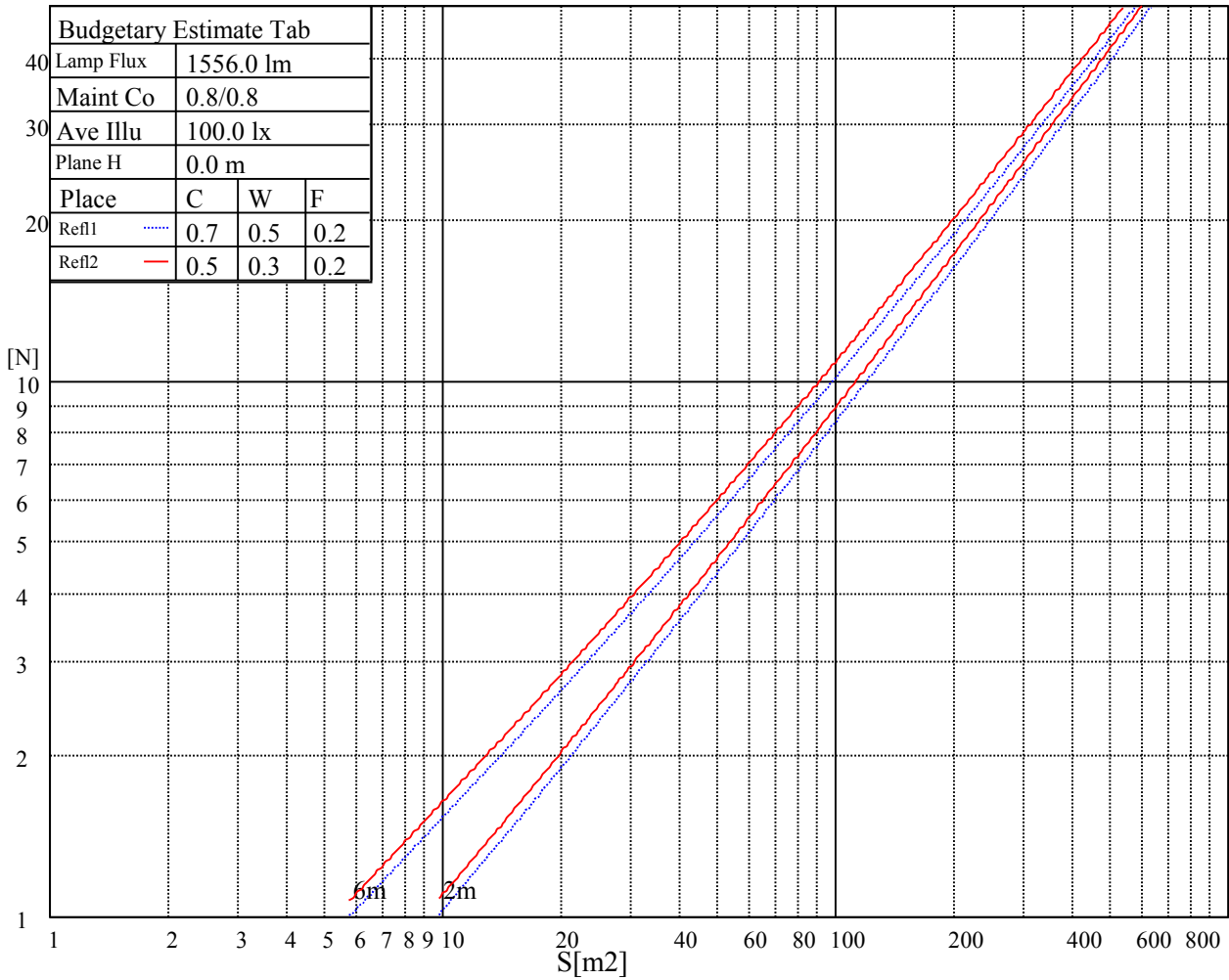
Glare Table

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

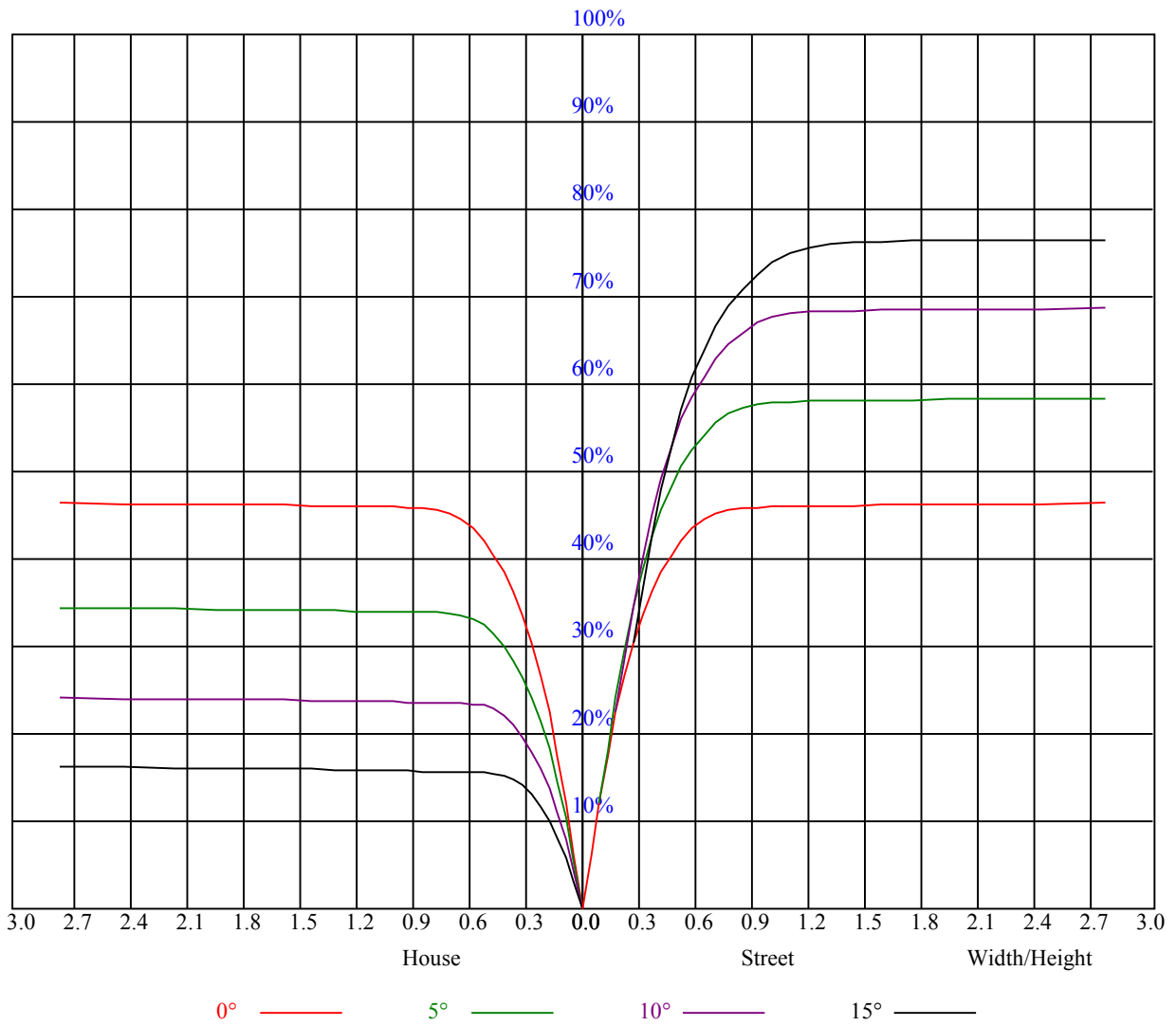
Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	0.36	1.27	0.72	1.58	1.90	0.31	1.23	0.68	1.54	1.85
	3H	3.67	4.48	4.06	4.81	5.18	3.63	4.44	4.01	4.77	5.14
	4H	5.48	6.22	5.88	6.58	6.97	5.42	6.16	5.83	6.52	6.91
	6H	8.10	8.78	8.52	9.16	9.56	7.77	8.45	8.19	8.83	9.23
	8H	9.66	10.30	10.09	10.69	11.10	9.03	9.67	9.46	10.06	10.47
	12H	12.04	12.65	12.48	13.04	13.47	10.89	11.51	11.33	11.89	12.32
4H	2H	1.30	2.04	1.71	2.40	2.79	1.27	2.01	1.67	2.37	2.76
	3H	4.84	5.45	5.26	5.86	6.27	4.80	5.42	5.22	5.83	6.23
	4H	6.83	7.37	7.26	7.80	8.25	6.76	7.31	7.20	7.74	8.18
	6H	9.46	9.93	9.93	10.38	10.85	9.20	9.67	9.67	10.12	10.60
	8H	11.17	11.61	11.65	12.06	12.53	10.59	11.03	11.07	11.48	11.96
	12H	13.44	13.82	13.93	14.31	14.79	12.37	12.74	12.86	13.23	13.71
8H	4H	7.64	8.08	8.12	8.53	9.01	7.59	8.03	8.07	8.48	8.95
	6H	10.59	10.94	11.11	11.44	11.93	10.35	10.69	10.86	11.20	11.69
	8H	12.45	12.76	12.99	13.28	13.78	11.92	12.23	12.45	12.75	13.25
	12H	14.76	15.02	15.29	15.52	16.11	13.79	14.05	14.31	14.55	15.13
12H	4H	7.92	8.30	8.41	8.79	9.27	7.90	8.28	8.39	8.77	9.25
	6H	11.17	11.27	11.51	11.75	12.30	10.97	11.07	11.30	11.54	12.09
	8H	12.94	13.20	13.46	13.70	14.28	12.46	12.72	12.98	13.22	13.80
Variation with the observer position at spacings:											
S = 1.0H		5.7/-8.2					5.7/-8.2				
S = 1.5H		7.8/-6.0					7.8/-6.0				
S = 2.0H		9.0/-4.2					9.0/-4.2				
Standard tables:		BK3					BK3				
Uncorrected UGR		-1.5					-1.5				



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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.04	1.01	0.99	1.02	0.99	0.97	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.87
2	0.98	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.84	0.83
3	0.93	0.89	0.85	0.92	0.88	0.85	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.79
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.76
5	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.70
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
8	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.72	0.68	0.66	0.65
9	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61



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	4147.40	3536.82	2616.28	1640.68	1068.09	803.82	641.41	372.18	11.40
45.0	4150.15	3742.73	2777.04	1814.11	1136.91	828.60	665.08	435.50	24.28
90.0	4157.31	3564.35	2681.80	1707.85	1087.14	822.27	647.90	369.81	15.03
135.0	4128.13	3870.46	2938.36	1994.69	1236.02	871.54	692.06	473.49	73.78
180.0	4147.40	3712.45	2764.38	1761.80	1079.22	846.49	647.96	438.08	40.52
225.0	4150.15	3523.06	2633.90	1686.93	1094.58	815.61	631.88	380.16	14.53
270.0	4157.31	3663.45	2782.55	1784.38	1124.80	831.35	671.14	420.63	17.84
315.0	4128.13	3378.81	2381.19	1552.04	1015.30	777.67	618.28	292.62	10.79
360.0	4147.40	3536.82	2616.28	1640.68	1068.09	803.82	641.41	372.18	11.40
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.82	7.21	6.88	6.66	6.61	6.50	6.44	6.88	6.77
45.0	7.76	7.27	6.94	6.77	6.66	6.55	6.50	7.32	8.15
90.0	7.76	7.21	6.94	6.77	6.61	6.55	6.50	9.97	11.01
135.0	8.04	7.38	7.05	6.77	6.66	6.55	6.44	7.10	7.60
180.0	7.82	7.27	6.88	6.72	6.55	6.50	6.39	7.82	6.94
225.0	7.82	7.21	6.94	6.72	6.55	6.50	6.44	8.26	8.86
270.0	8.04	7.32	6.99	6.77	6.66	6.55	6.50	6.55	7.71
315.0	7.82	7.21	6.88	6.72	6.61	6.50	6.44	6.77	6.72
360.0	7.82	7.21	6.88	6.66	6.61	6.50	6.44	6.88	6.77
C/ γ (°)	90.0								
0.0	6.33								
45.0	6.39								
90.0	6.39								
135.0	6.39								
180.0	6.33								
225.0	6.39								
270.0	6.39								
315.0	6.33								
360.0	6.33								