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LumCAT: LB160-BRZ-110-00  
Luminaire: LED Flood Luminaire  
Report No: BSR1502100201-9 Voltage(V): 120.0400  
Test No: BSR1502100201-9 Current(A): 1.3580  
LampCAT: Power (W): 162.5800  
Lamp flux(lm) PF: 0.9980  
Number of Lamps: 168 Ballast type:  
Length(mm): 360 Width(mm): 260  
Phm Type: C Height(mm): 110

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#### Photometric Results

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Lumens(lm): 14066.81 Bright Area: 0.009  
Lumens(lm)/Power(W): 86.52 SLI: 19.001  
Central intensity(cd): 9581.555  
Maximum intensity(cd): 9771.447  
Angle of maximum intensity: C=90.0  $\gamma$ =10.0  
Beam Angle(50%Imax): [C0/180]Total=81.3  
                                  [C90/270]Total=67.2  
Field angle(10%Imax): [C0/180]Total=125.9  
                                  [C90/270]Total=98.8  
IES Classification : TypeI  
Longitudinal Classification : VeryShort  
Cut Off Classification : FullCutoff  
Max Cd(At 90°Vert) : 0  
Max Cd(80 to 90°Vert) : 112.3217  
Street Side UpWard Lumens: 0.00%of Luminaire  
Street Side DownWard Lumens: 49.37%of Luminaire  
House Side UpWard Lumens: 0.00%of Luminaire  
House Side DownWard Lumens: 50.63%of Luminaire

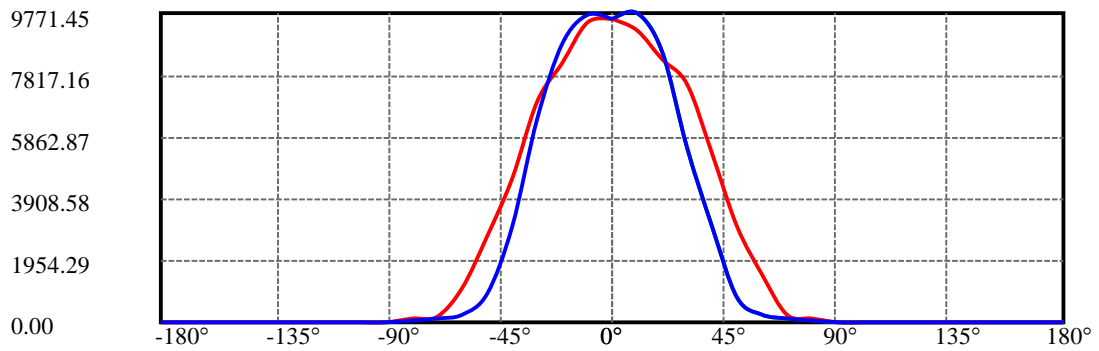
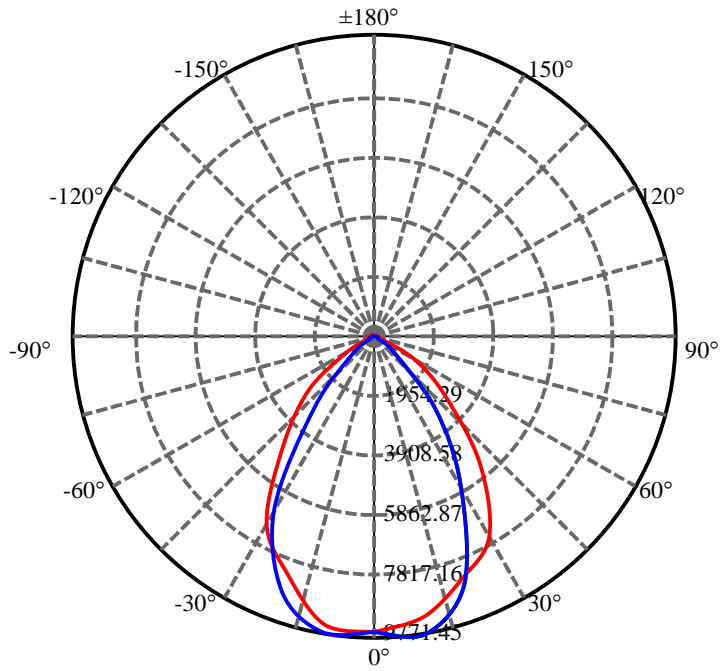
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9581.555	.000	.000	.000%	.000%
10.0	9382.050	905.092	905.092	6.434%	6.434%
20.0	8311.753	2507.802	3412.895	17.828%	24.262%
30.0	6427.936	3411.241	6824.136	24.250%	48.512%
40.0	4128.930	3315.906	10140.040	23.573%	72.085%
50.0	1777.145	2286.967	12427.010	16.258%	88.343%
60.0	600.681	1066.647	13493.650	7.583%	95.925%
70.0	176.550	385.746	13879.400	2.742%	98.668%
80.0	87.504	139.673	14019.070	.993%	99.661%
90.0	.000	47.736	14066.810	.339%	100.000%
100.0	.000	.000	14066.810	.000%	100.000%
110.0	.000	.000	14066.810	.000%	100.000%
120.0	.000	.000	14066.810	.000%	100.000%
130.0	.000	.000	14066.810	.000%	100.000%
140.0	.000	.000	14066.810	.000%	100.000%
150.0	.000	.000	14066.810	.000%	100.000%
160.0	.000	.000	14066.810	.000%	100.000%
170.0	.000	.000	14066.810	.000%	100.000%
180.0	.000	.000	14066.810	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	6824.14	48.51%
0-40	10140.04	72.08%
0-60	13493.65	95.93%
0-90	14066.81	100.00%
0-120	14066.81	100.00%
0-180	14066.81	100.00%
60-90	1639.80	11.66%
90-120	47.74	0.34%
90-130	47.74	0.34%
90-150	47.74	0.34%
90-180	47.74	0.34%
0-44.87	11253.45	80.00%

ZONAL LUMEN SUMMARY

0-10	905.09
10-20	2507.80
20-30	3411.24
30-40	3315.91
40-50	2286.97
50-60	1066.65
60-70	385.75
70-80	139.67
80-90	47.74
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



C90(Max): ———

C0/C180: ———

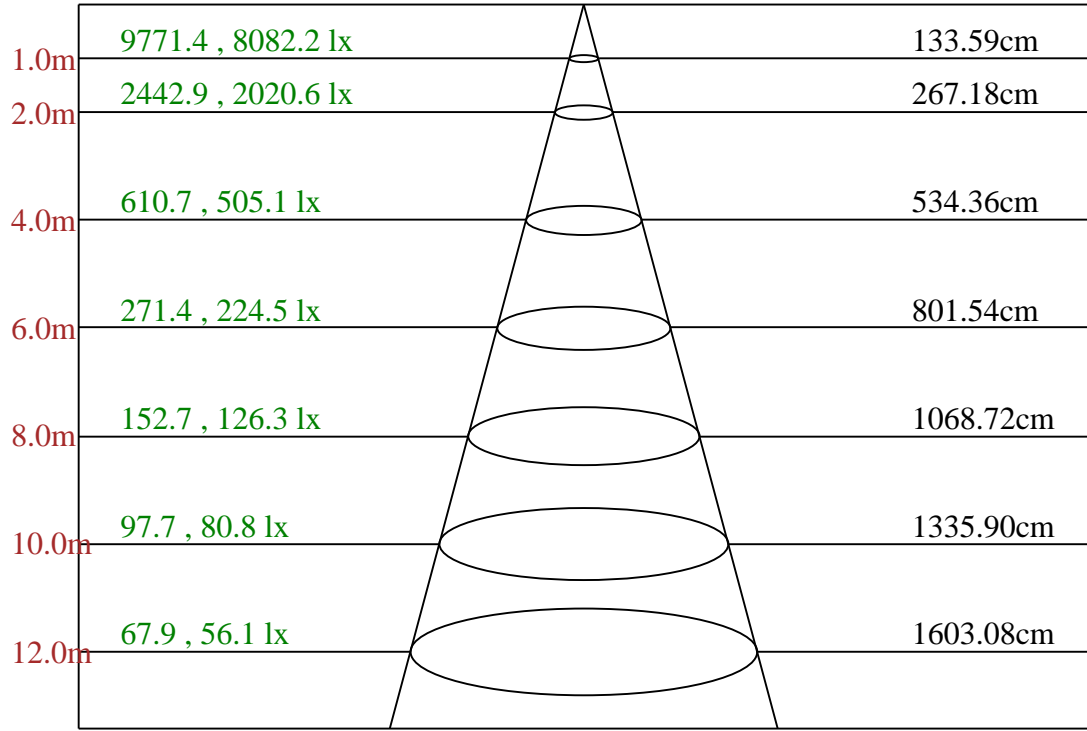
C90/C270: ———

Field angle(10%Imax):C0/180Left:61.6 Right:64.3

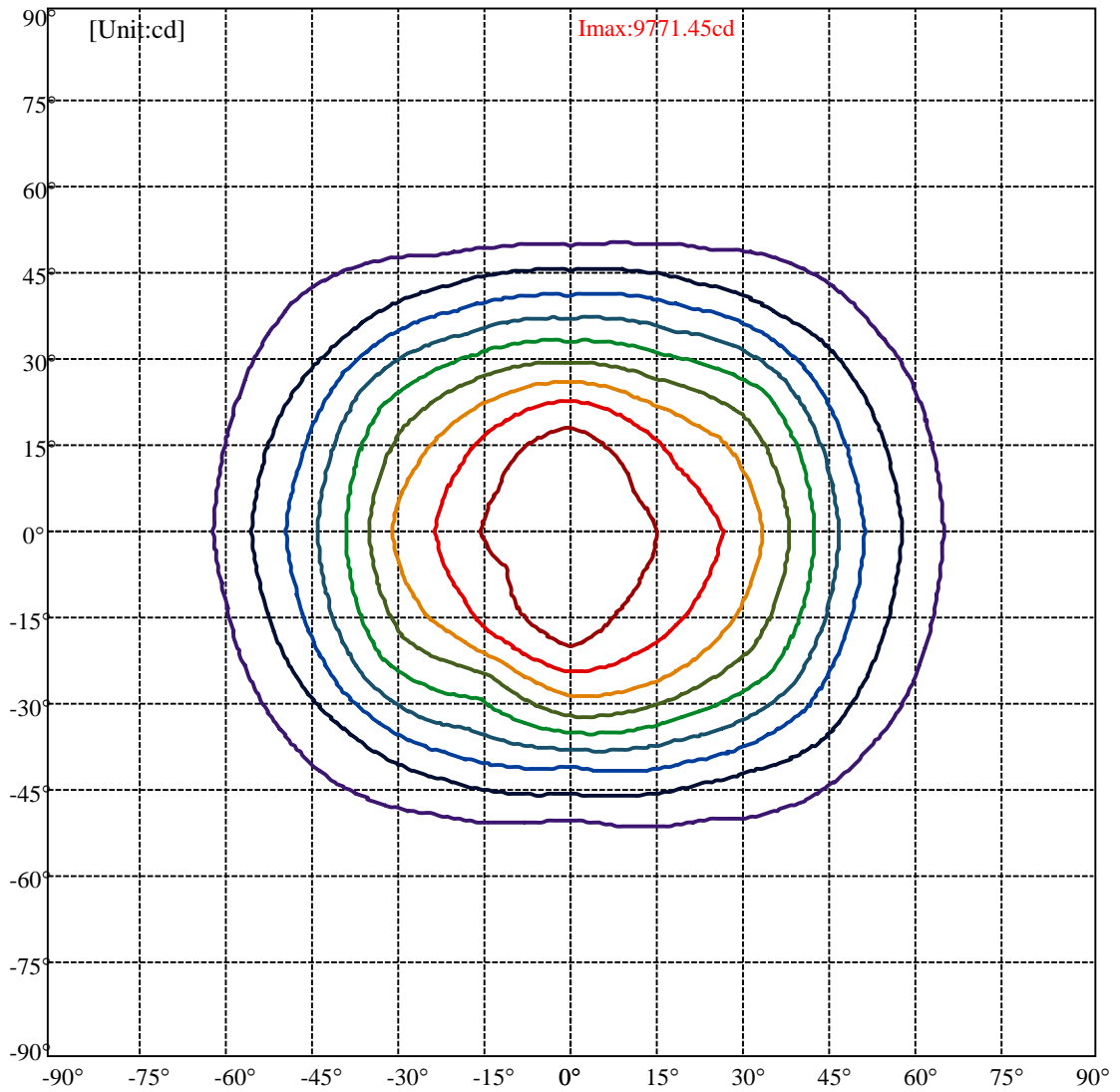
:C90/270Left:49.6 Right:49.2

Beam Angle(50%Imax):C0/180Left:38.9 Right:42.4

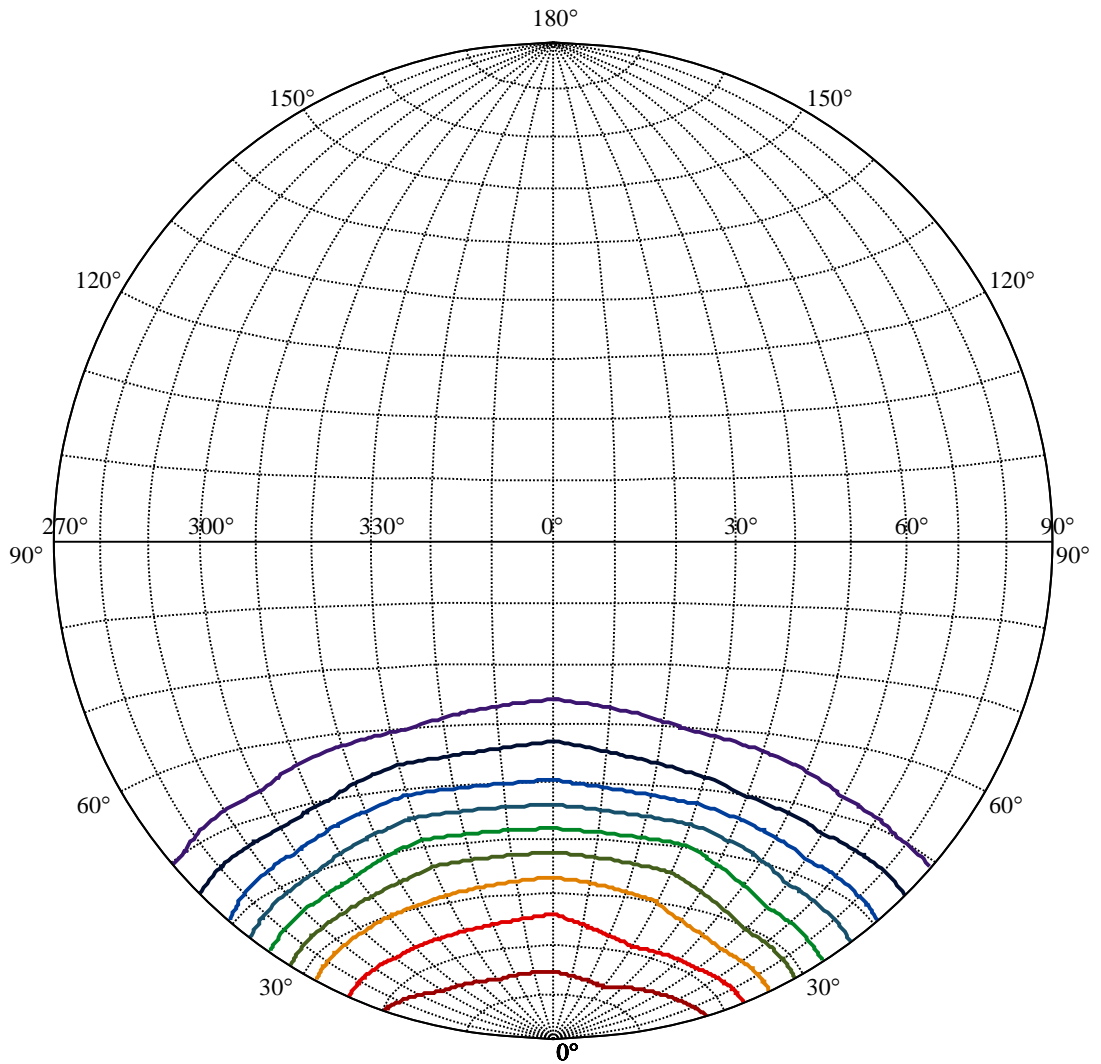
:C90/270Left:34.6 Right:32.7



Max , Ave      Beam angle of C90plane67.46



(10% Imax) 977.145	—
(20% Imax) 1954.29	—
(30% Imax) 2931.43	—
(40% Imax) 3908.58	—
(50% Imax) 4885.72	—
(60% Imax) 5862.87	—
(70% Imax) 6840.01	—
(80% Imax) 7817.16	—
(90% Imax) 8794.3	—



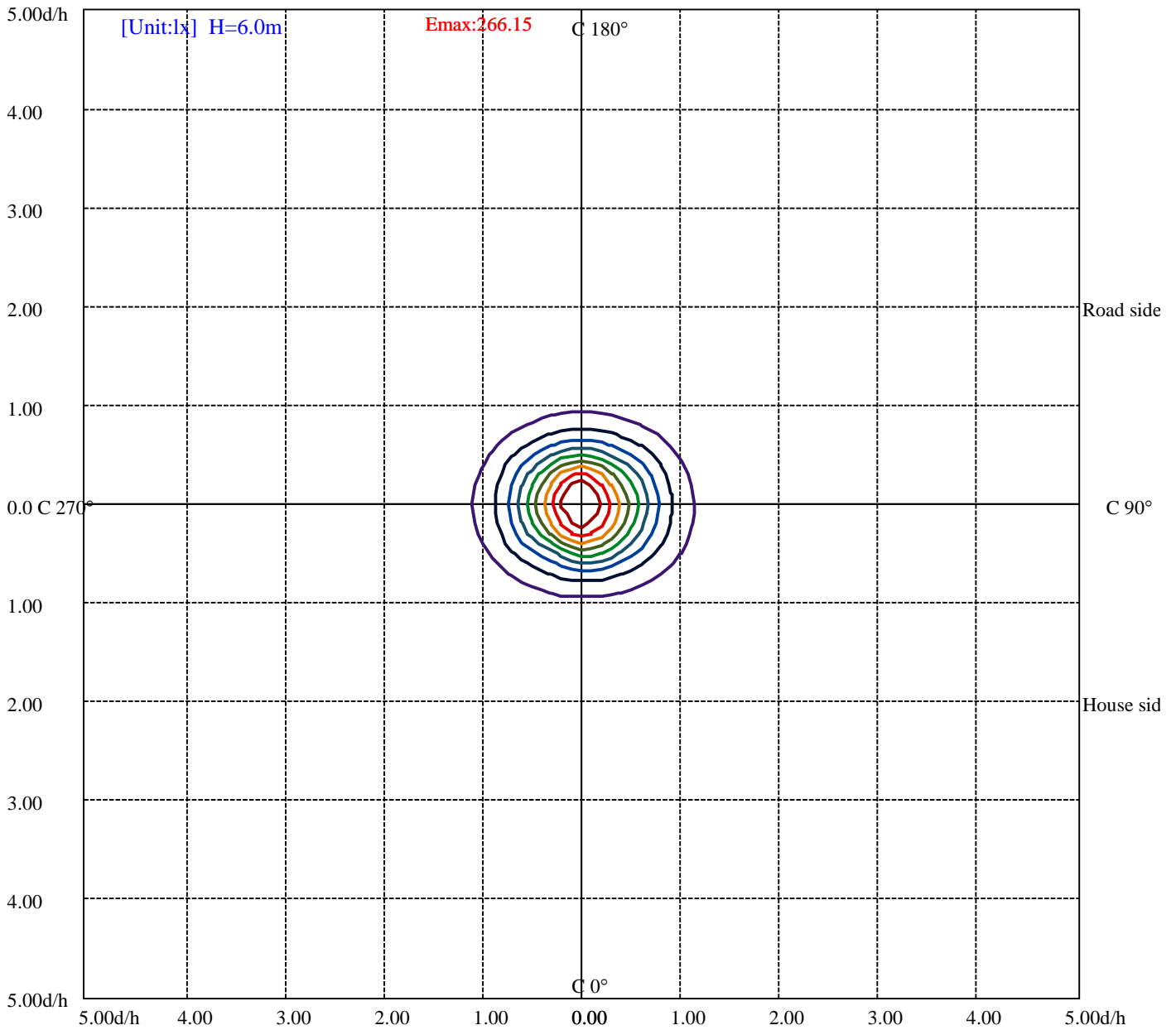
House

[Unit:cd]

Road

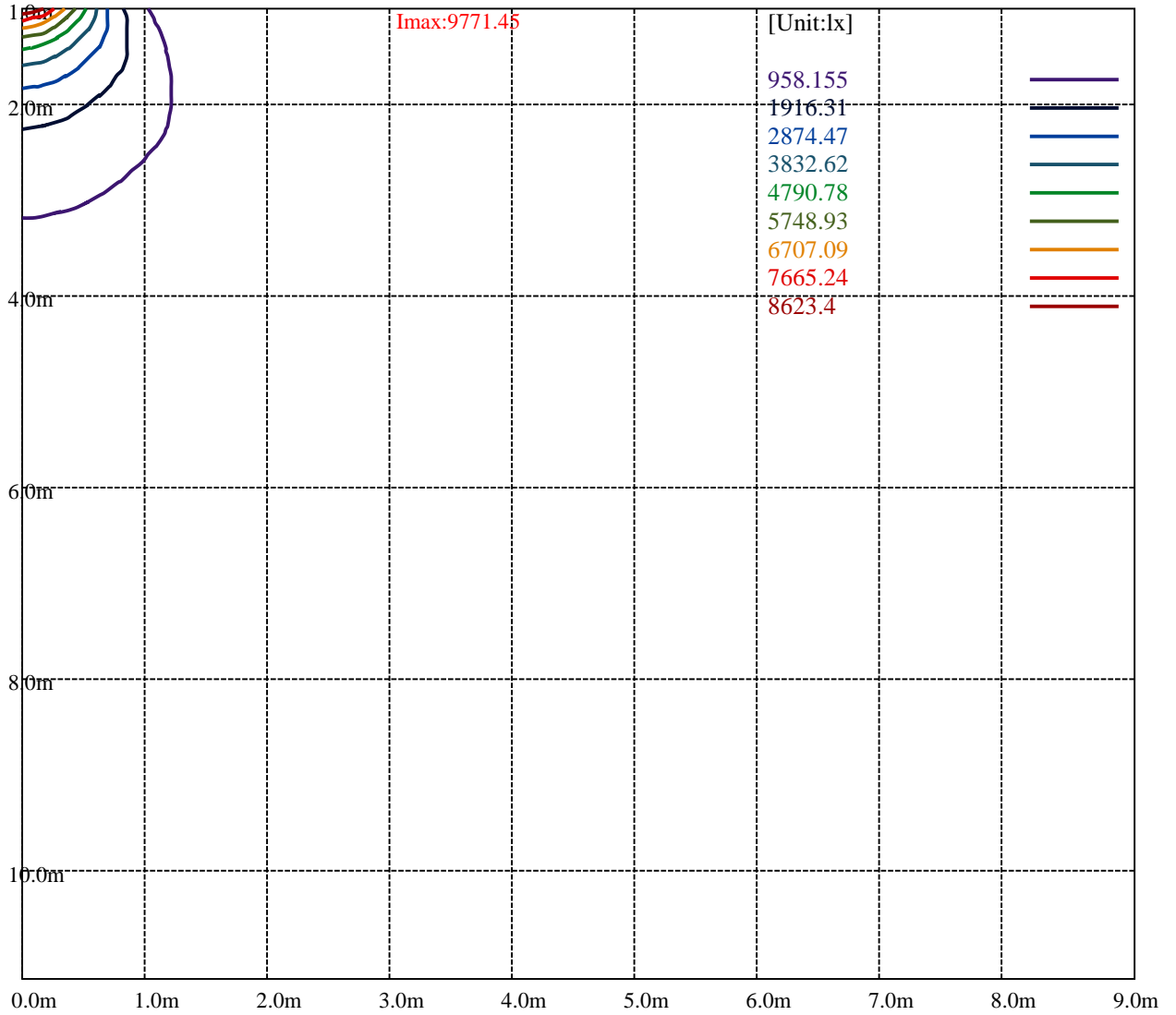
**Imax:9771.45**

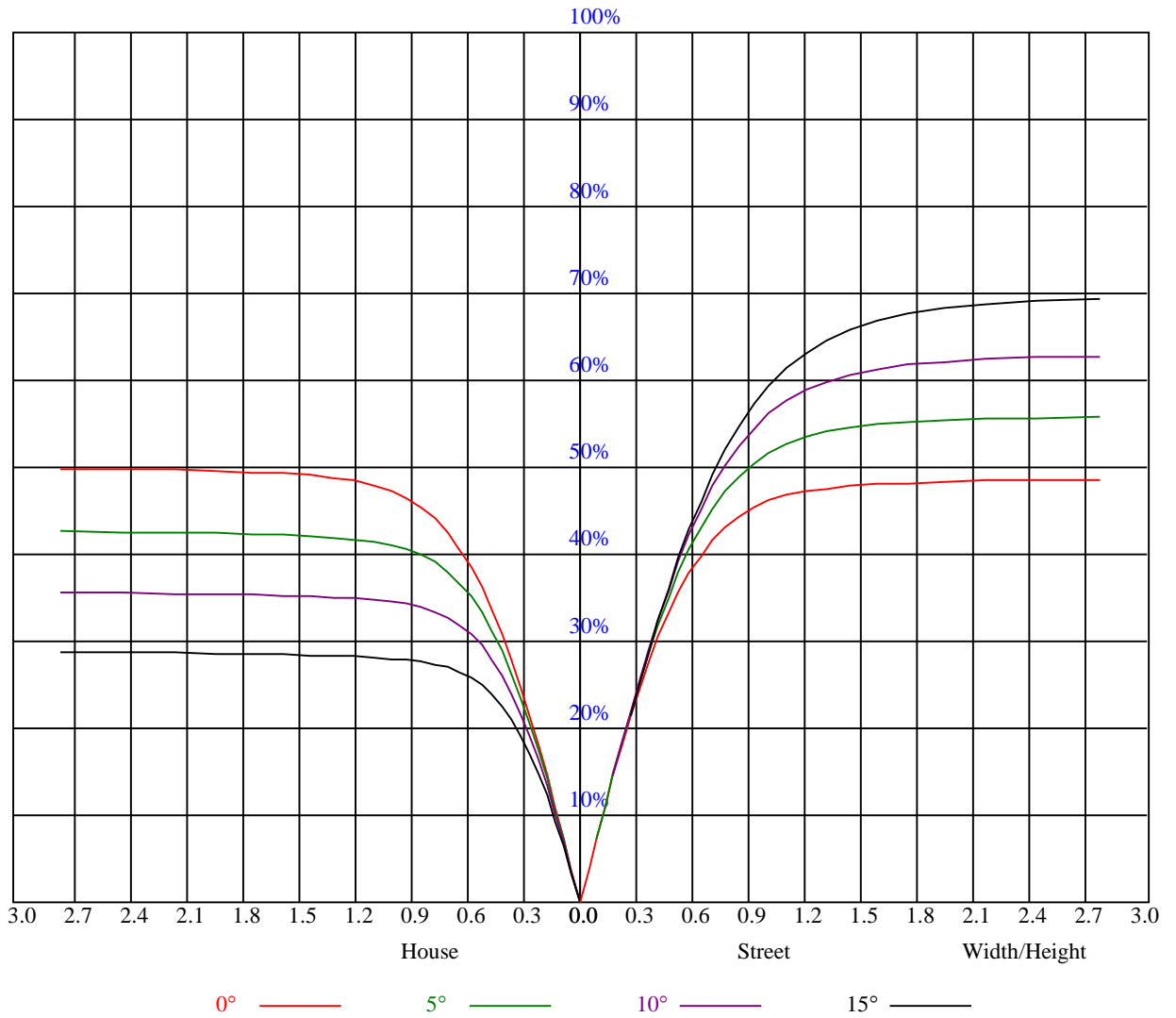
(10% Imax) 977.145	—
(20% Imax) 1954.29	—
(30% Imax) 2931.43	—
(40% Imax) 3908.58	—
(50% Imax) 4885.72	—
(60% Imax) 5862.87	—
(70% Imax) 6840.01	—
(80% Imax) 7817.16	—
(90% Imax) 8794.3	—



- (10%Emax) 26.61542
- (20%Emax) 53.23083
- (30%Emax) 79.84639
- (40%Emax) 106.4617
- (50%Emax) 133.0772
- (60%Emax) 159.6925
- (70%Emax) 186.308
- (80%Emax) 212.9233
- (90%Emax) 239.5389







## Intensity data(cd)

C/\u03b3(\u00b0)	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0
0.0	9581.56	9222.52	8341.48	7498.88	5340.08	3016.31	1506.08	217.34	112.32
30.0	9581.56	9108.74	7961.69	6831.56	5034.10	2263.35	819.54	193.58	97.95
60.0	9581.56	9490.07	8135.44	5779.84	3516.49	1220.85	247.71	155.14	81.03
90.0	9581.56	9771.45	8539.83	5547.66	3055.21	794.94	246.48	147.61	54.75
120.0	9581.56	9686.88	8281.51	5907.46	3375.03	1105.53	250.32	156.37	79.96
150.0	9581.56	9285.57	8135.44	6505.59	4545.15	1949.68	821.08	189.28	97.02
180.0	9581.56	9453.16	8210.78	6994.54	4523.62	2747.69	1102.46	212.34	111.17
210.0	9581.56	9042.63	8050.87	6579.39	4558.98	2039.17	554.92	184.60	97.62
240.0	9581.56	9468.54	8438.35	5272.43	3513.42	1230.08	255.55	153.71	76.05
270.0	9581.56	9705.33	8776.62	6459.46	3020.92	898.11	247.72	147.32	59.86
300.0	9581.56	9256.35	8467.56	6703.94	3844.00	1354.93	259.13	160.77	80.63
330.0	9581.56	9093.37	8401.45	7054.51	5220.15	2705.10	897.19	200.52	101.68
360.0	9581.56	9222.52	8341.48	7498.88	5340.08	3016.31	1506.08	217.34	112.32
C/\u03b3(\u00b0)	90.0	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/\u03b3(\u00b0)	180.0								
0.0	0.00								
30.0	0.00								
60.0	0.00								
90.0	0.00								
120.0	0.00								
150.0	0.00								
180.0	0.00								
210.0	0.00								
240.0	0.00								
270.0	0.00								
300.0	0.00								
330.0	0.00								
360.0	0.00								