



SAVE ENERGY LIFE LIGHTING CO., LTD
www.saveenergylife.com
Email:vendas@saveenergylife.com
Tel:+86 755 86331753 Fax:+86 755 86331753

SEE

Client:

LumCAT:

Luminaire: SZ_AR70_8W_100~240V_6500K

Report No:

Voltage(V): 0.0000

Test No:

Current(A): 0.0000

LampCAT:

Power (W): 0.0000

Lamp flux(lm): 22.0

PF: 0.0000

Number of Lamps: 90

Ballast type:

Length(mm): 225000

Width(mm): 225000

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 901.64

Efficiency(%): 45.54%

Lumens(lm)/Power(W): 0.00

Central intensity(cd): 1633.738

Maximum intensity(cd): 1715.342

Angle of maximum intensity: C=30.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.5

[C90/270]Total=24.3

Field angle(10%Imax): [C0/180]Total=68.5

[C90/270]Total=65.0

Equipment:
Temperature(°C): 0.0

Date: 2016-09-09
Humidity(%): 0.0%

Operator: 01
Distance(m): 8.32

SEE

Zonal flux distribution table

Appendix Page: 2 Total:15

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1675.577	0.000	0	.000%	.000%
5.0	1442.741	37.279	37.279	1.883%	4.135%
10.0	1034.854	88.631	125.91	4.476%	13.964%
15.0	607.661	97.433	223.343	4.921%	24.771%
20.0	355.893	79.410	302.753	4.011%	33.578%
25.0	230.842	61.538	364.291	3.108%	40.403%
30.0	185.683	52.712	417.003	2.662%	46.249%
35.0	159.860	50.884	467.886	2.570%	51.893%
40.0	139.378	49.925	517.812	2.521%	57.430%
45.0	114.793	47.062	564.874	2.377%	62.649%
50.0	92.542	41.895	606.769	2.116%	67.296%
55.0	66.764	34.638	641.407	1.749%	71.138%
60.0	43.879	25.575	666.982	1.292%	73.974%
65.0	33.558	18.825	685.807	.951%	76.062%
70.0	28.746	15.776	701.583	.797%	77.812%
75.0	25.766	14.249	715.832	.720%	79.392%
80.0	23.720	13.241	729.073	.669%	80.860%
85.0	23.484	12.827	741.899	.648%	82.283%
90.0	23.317	12.815	754.714	.647%	83.704%
95.0	23.323	12.770	767.484	.645%	85.121%
100.0	23.306	12.670	780.154	.640%	86.526%
105.0	23.346	12.483	792.637	.630%	87.910%
110.0	23.346	12.204	804.841	.616%	89.264%
115.0	23.329	11.818	816.66	.597%	90.575%
120.0	23.346	11.347	828.006	.573%	91.833%
125.0	23.352	10.794	838.8	.545%	93.030%
130.0	23.346	10.154	848.954	.513%	94.156%
135.0	23.386	9.443	858.397	.477%	95.204%
140.0	23.392	8.661	867.058	.437%	96.164%
145.0	23.450	7.815	874.873	.395%	97.031%
150.0	23.519	6.916	881.79	.349%	97.798%
155.0	23.571	5.959	887.749	.301%	98.459%
160.0	23.622	4.950	892.699	.250%	99.008%
165.0	23.617	3.893	896.592	.197%	99.440%
170.0	23.605	2.801	899.393	.141%	99.750%
175.0	23.565	1.687	901.08	.085%	99.938%
180.0	23.559	0.563	901.644	.028%	100.000%

Equipment:
Temperature($^{\circ}$ C): 0.0

Date: 2016-09-09
Humidity(%): 0.0%

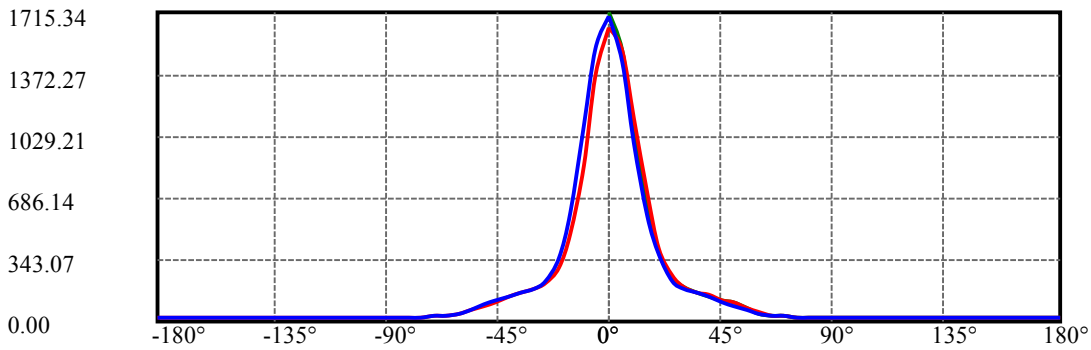
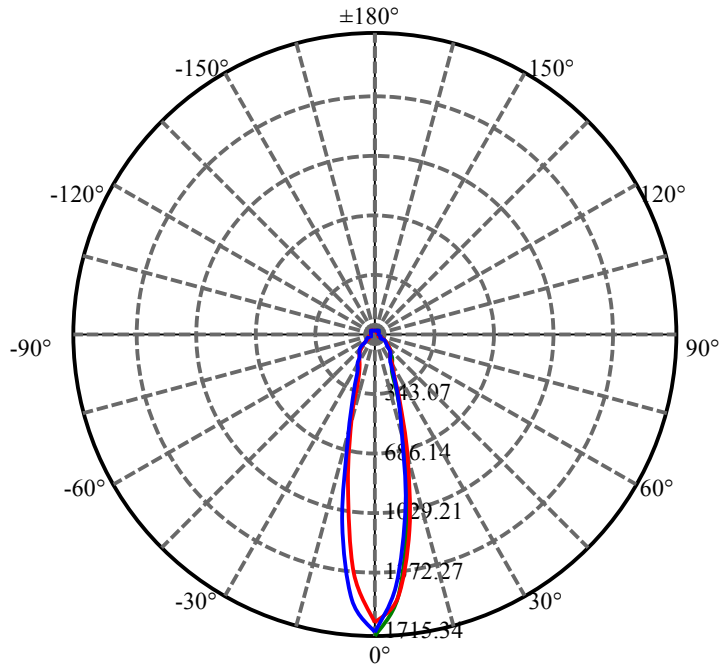
Operator: 01
Distance(m): 8.32

ZONAL LUMEN SUMMARY

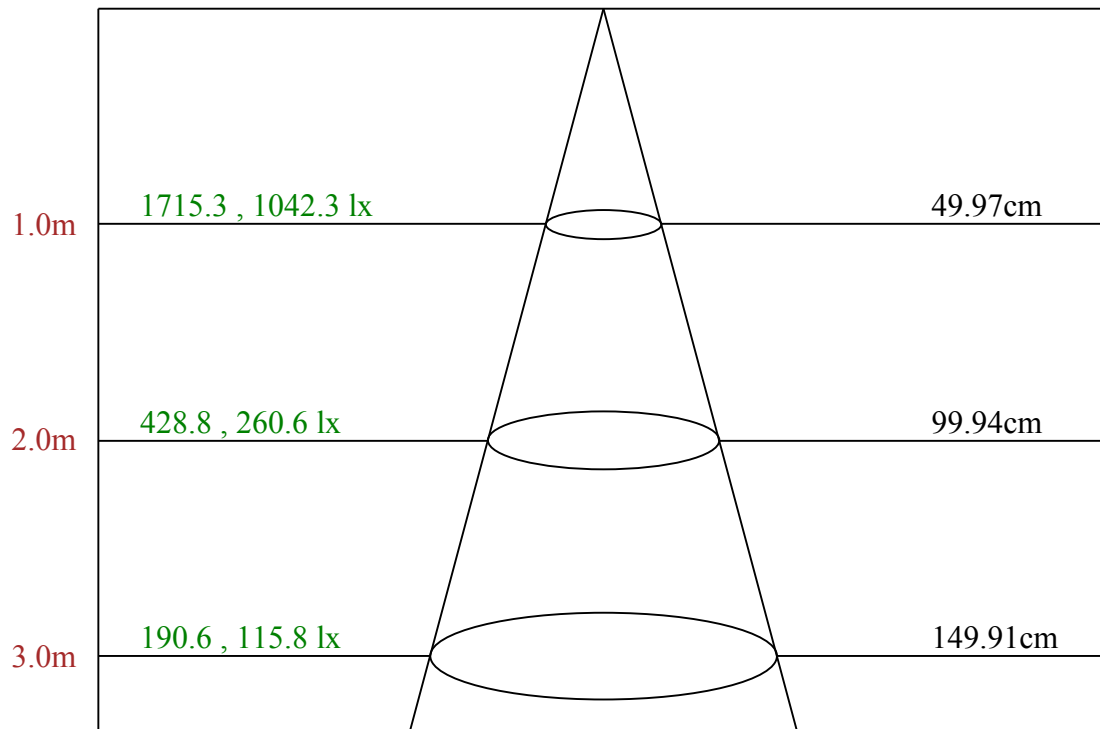
Zone	Lumens	%Lamp	%Fixt
0-30	417.00	21.06%	46.25%
0-40	517.81	26.15%	57.43%
0-60	666.98	33.69%	73.97%
0-90	754.71	38.12%	83.70%
0-120	828.01	41.82%	91.83%
0-180	901.64	45.54%	100.00%
60-90	113.31	5.72%	12.57%
90-120	86.11	4.35%	9.55%
90-130	107.05	5.41%	11.87%
90-150	139.89	7.07%	15.52%
90-180	159.18	8.04%	17.65%
0-77.07	721.32	36.43%	80.00%

ZONAL LUMEN SUMMARY

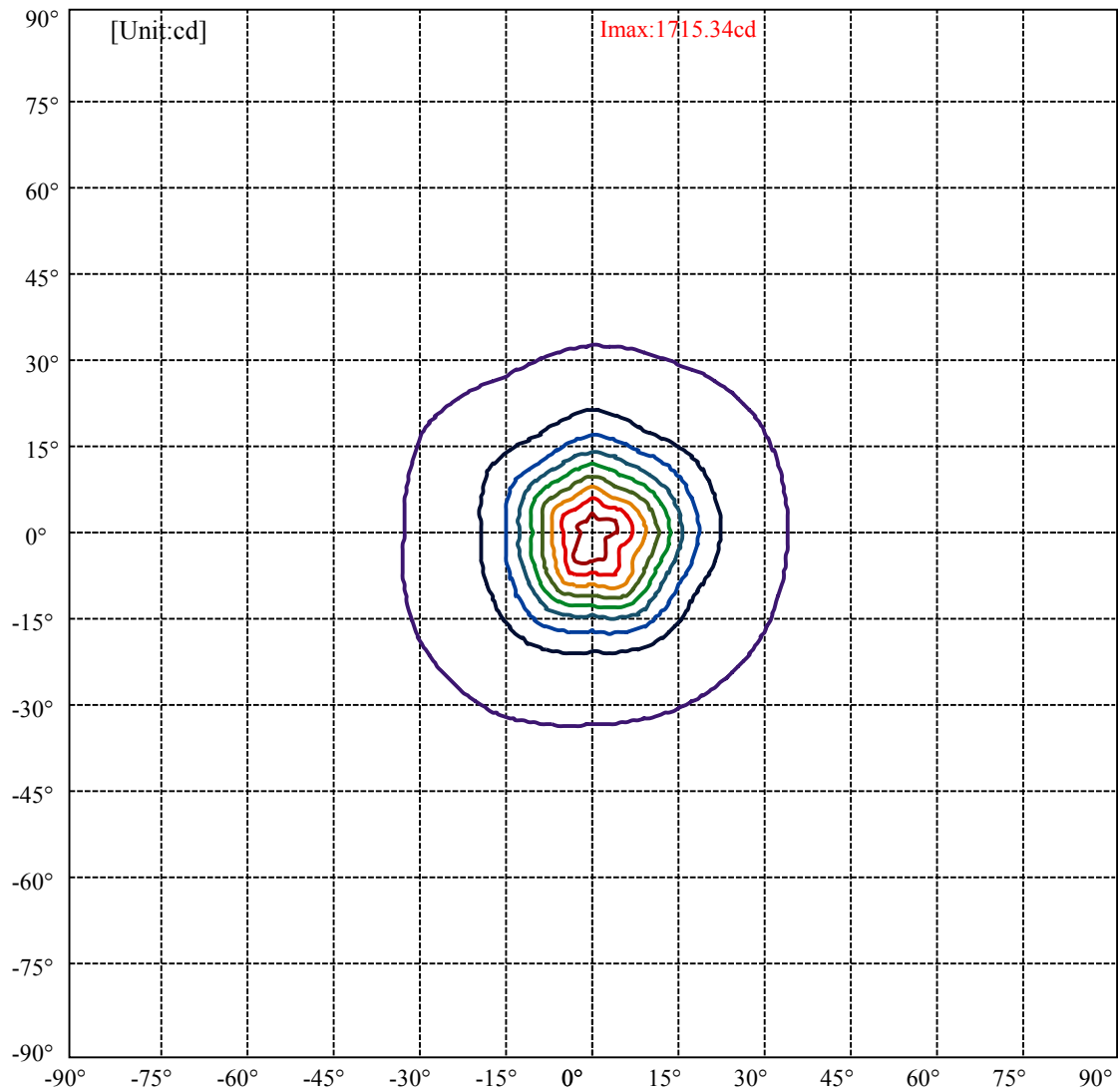
0-10	125.91
10-20	176.84
20-30	114.25
30-40	100.81
40-50	88.96
50-60	60.21
60-70	34.60
70-80	27.49
80-90	25.64
90-100	25.44
100-110	24.69
110-120	23.16
120-130	20.95
130-140	18.10
140-150	14.73
150-160	10.91
160-170	6.69
170-180	1.69



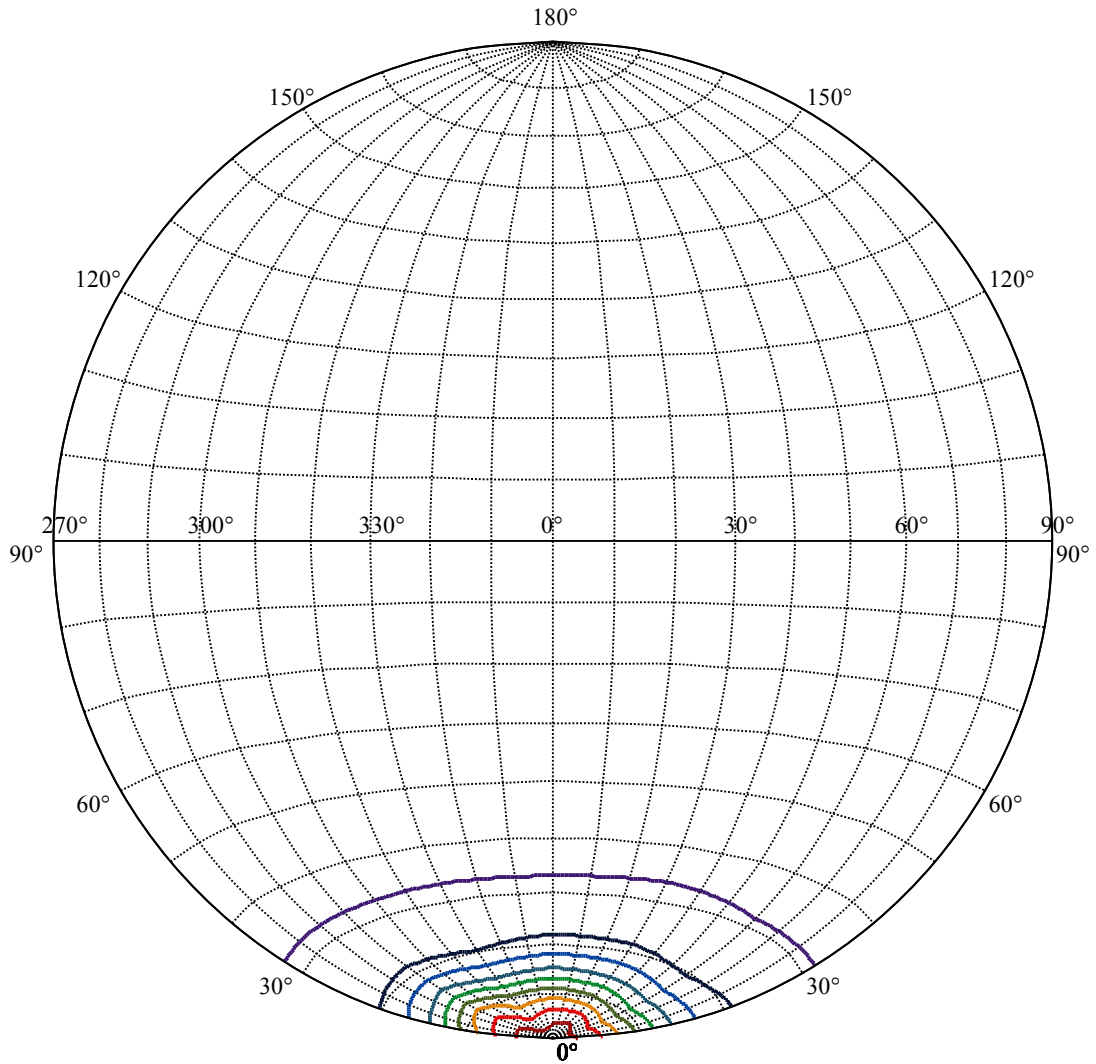
C30(Max): ———
C0/C180: ———
C90/C270: ———



Max , Ave Beam angle of C30 plane 28.06



(10%Imax)	169.321	—
(20%Imax)	338.642	—
(30%Imax)	507.964	—
(40%Imax)	677.285	—
(50%Imax)	846.606	—
(60%Imax)	1015.93	—
(70%Imax)	1185.25	—
(80%Imax)	1354.57	—
(90%Imax)	1523.89	—



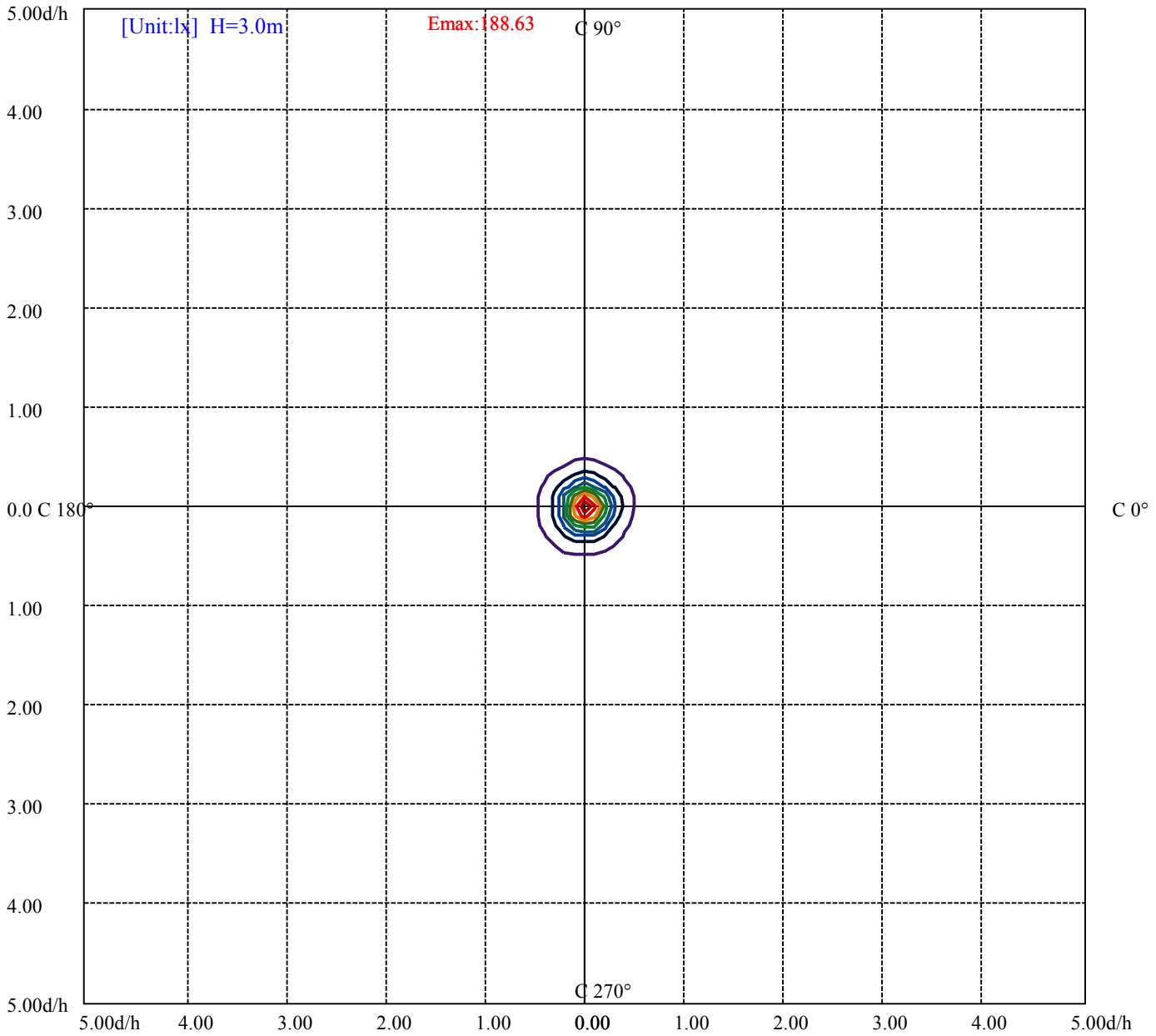
House

[Unit:cd]

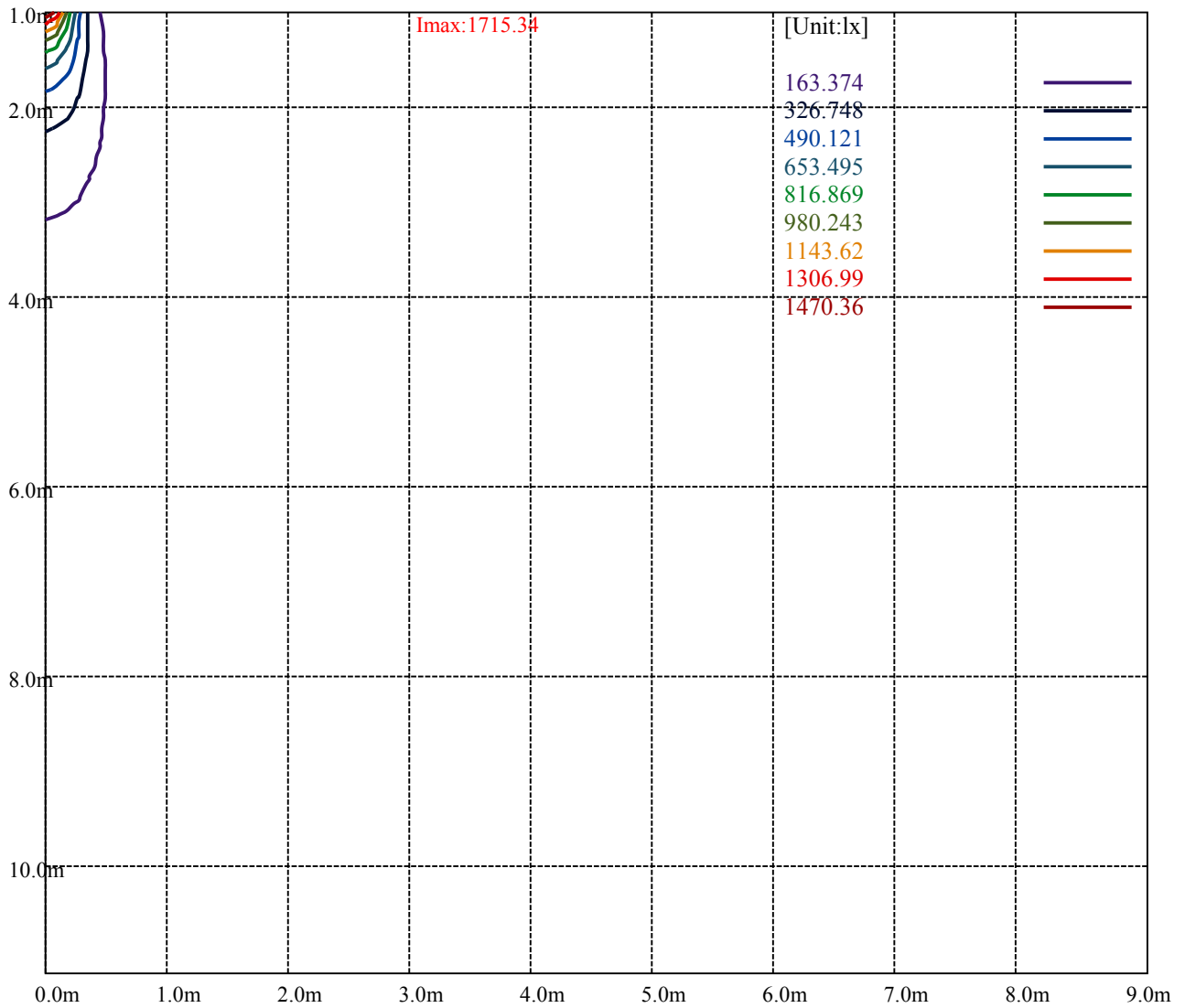
Road

Imax:1715.34

(10%Imax)	171.534	—
(20%Imax)	343.068	—
(30%Imax)	514.603	—
(40%Imax)	686.137	—
(50%Imax)	857.671	—
(60%Imax)	1029.21	—
(70%Imax)	1200.74	—
(80%Imax)	1372.27	—
(90%Imax)	1543.81	—



(10%Emax)	18.86333	—
(20%Emax)	37.72655	—
(30%Emax)	56.58978	—
(40%Emax)	75.45311	—
(50%Emax)	94.31633	—
(60%Emax)	113.18	—
(70%Emax)	132.0433	—
(80%Emax)	150.9067	—
(90%Emax)	169.77	—



Luminance Table

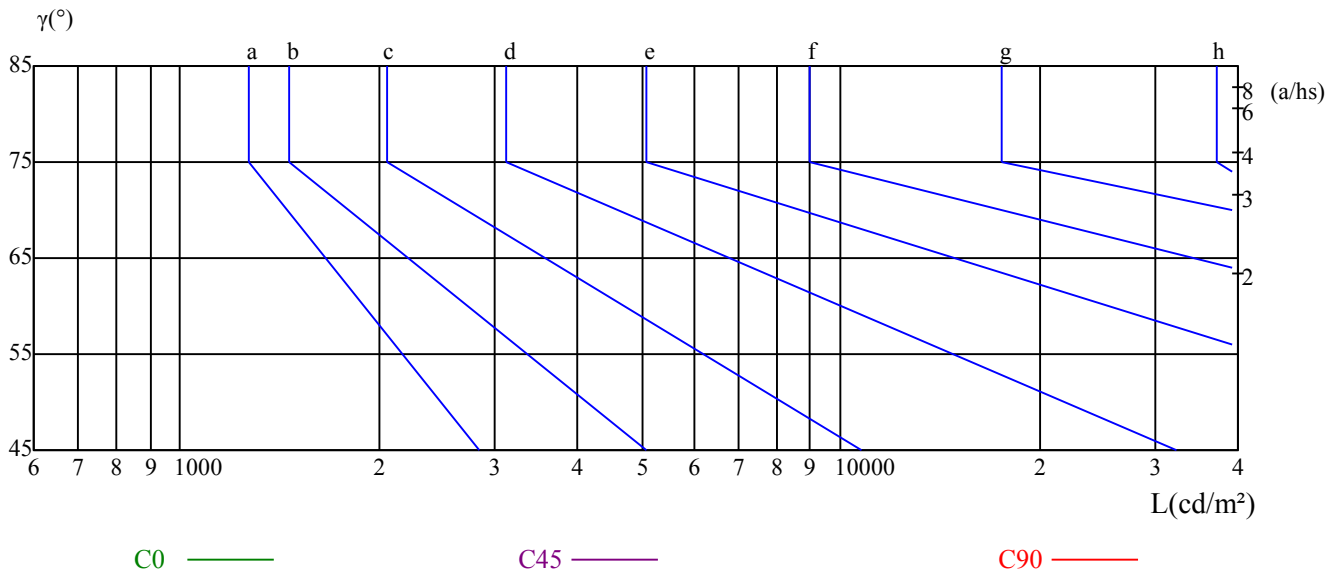
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

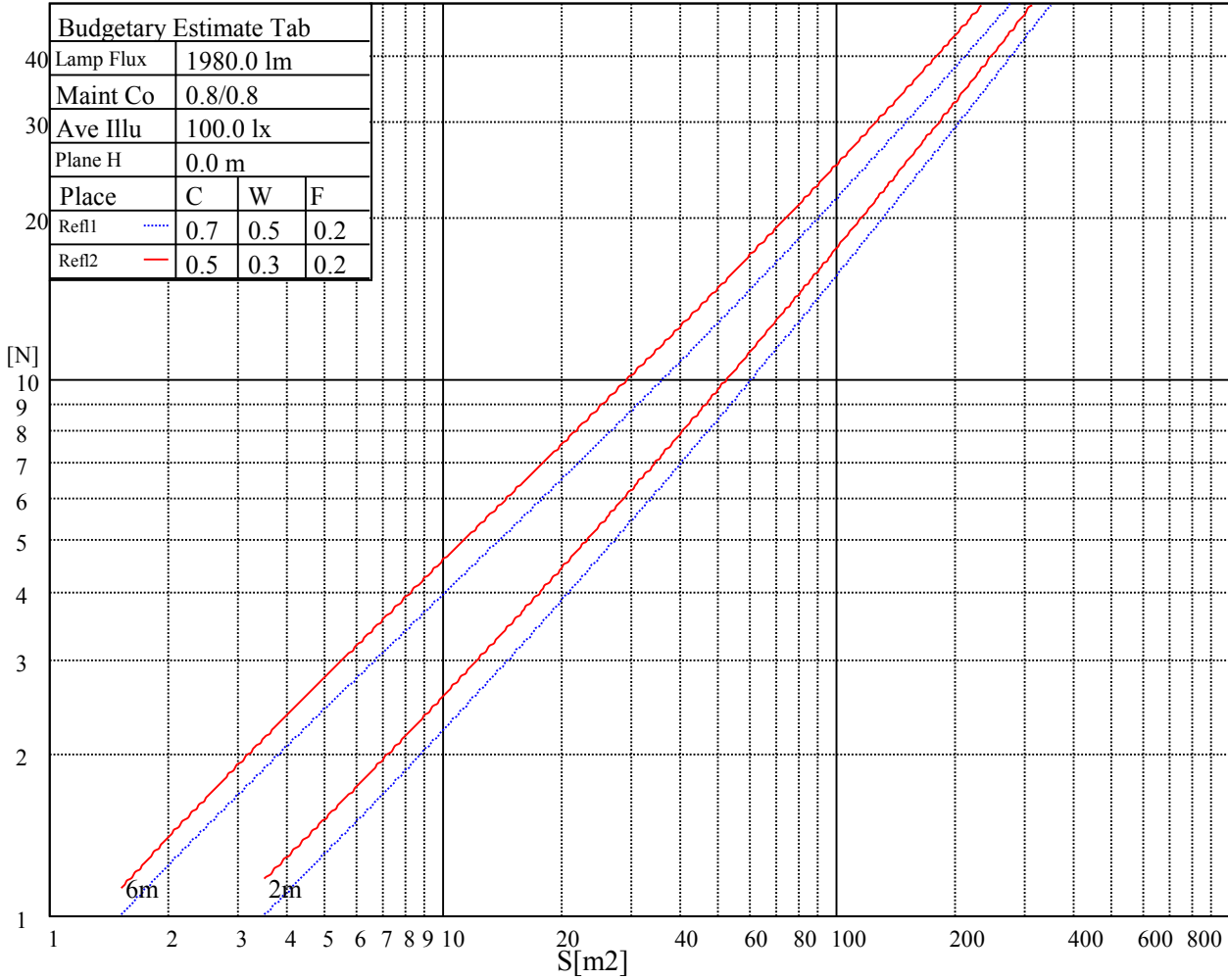
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

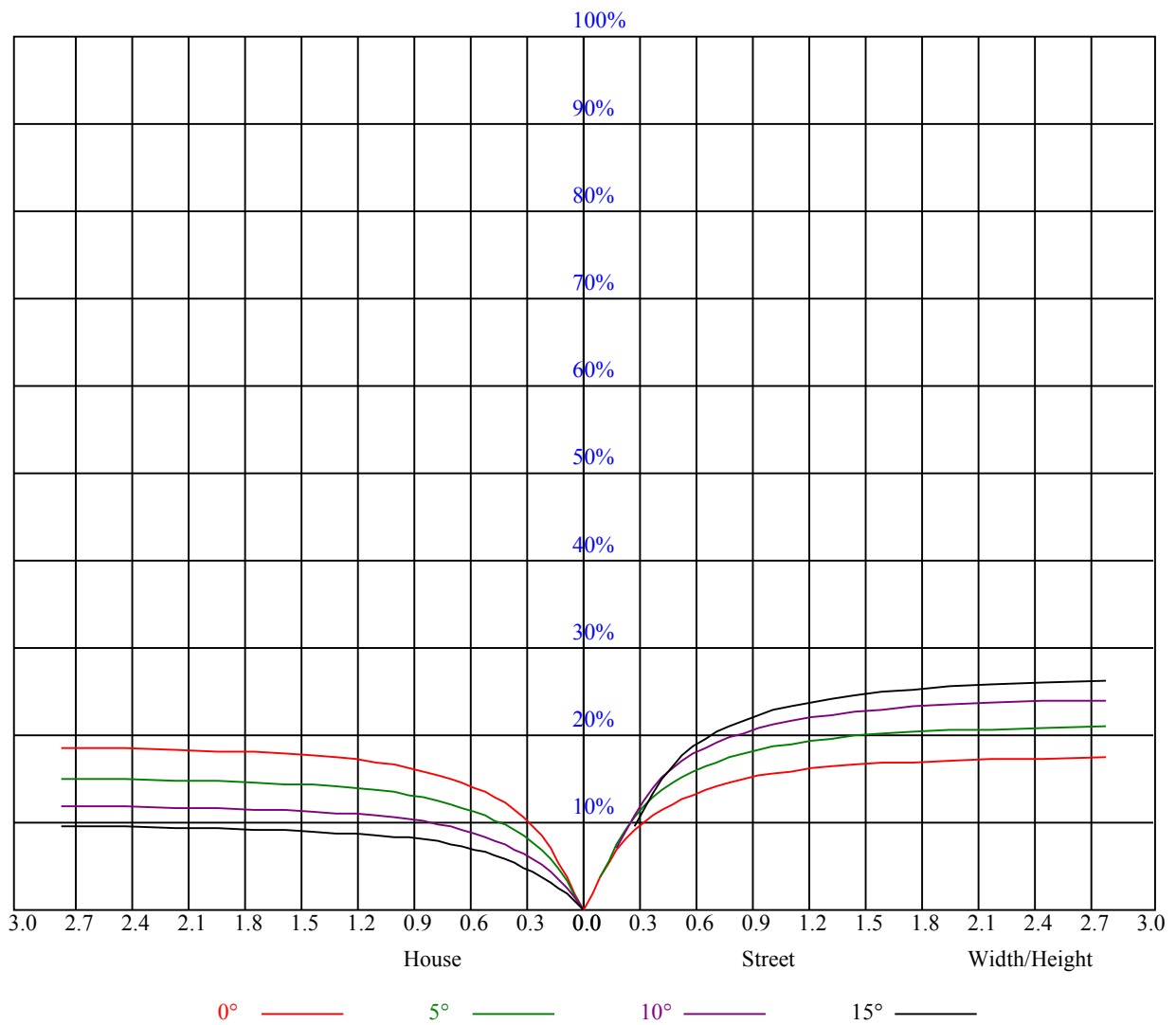
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.52	0.52	0.52	0.50	0.50	0.50	0.46	0.46	0.46	0.43	0.43	0.43	0.40	0.40	0.40	0.38
1	0.47	0.45	0.44	0.45	0.44	0.42	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34
2	0.42	0.40	0.38	0.41	0.39	0.37	0.38	0.36	0.35	0.36	0.34	0.33	0.33	0.32	0.31	0.30
3	0.39	0.36	0.34	0.37	0.35	0.33	0.35	0.33	0.31	0.33	0.31	0.30	0.31	0.30	0.28	0.27
4	0.36	0.32	0.30	0.35	0.32	0.29	0.33	0.30	0.28	0.31	0.29	0.27	0.29	0.27	0.26	0.25
5	0.33	0.30	0.27	0.32	0.29	0.27	0.30	0.28	0.26	0.29	0.27	0.25	0.27	0.26	0.24	0.23
6	0.31	0.27	0.25	0.30	0.27	0.25	0.28	0.26	0.24	0.27	0.25	0.23	0.26	0.24	0.22	0.22
7	0.29	0.25	0.23	0.28	0.25	0.23	0.27	0.24	0.22	0.25	0.23	0.22	0.24	0.22	0.21	0.20
8	0.27	0.24	0.22	0.26	0.23	0.21	0.25	0.23	0.21	0.24	0.22	0.20	0.23	0.21	0.20	0.19
9	0.25	0.22	0.20	0.25	0.22	0.20	0.24	0.21	0.20	0.23	0.21	0.19	0.22	0.20	0.19	0.18
10	0.24	0.21	0.19	0.24	0.21	0.19	0.23	0.20	0.19	0.22	0.20	0.18	0.21	0.19	0.18	0.17



SEE

Intensity data(cd)

Appendix Page: 14 Total:15

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1633.74	1505.80	1132.36	713.97	406.22	252.83	190.11	161.06	144.05
30.0	1715.34	1503.03	1063.20	661.41	387.55	243.91	195.09	162.24	142.25
60.0	1680.07	1347.29	915.00	552.90	318.88	217.84	178.21	157.47	136.72
90.0	1693.21	1433.88	989.90	581.19	373.03	222.34	179.67	155.12	134.44
120.0	1662.09	1337.47	892.25	501.73	297.72	209.82	170.54	147.65	123.86
150.0	1669.01	1429.04	980.22	545.92	360.58	220.12	185.34	162.03	138.86
180.0	1633.74	1358.98	868.04	490.73	302.83	213.41	176.97	159.54	135.96
210.0	1715.34	1376.13	975.86	551.17	343.77	237.62	190.52	167.01	143.84
240.0	1680.07	1610.22	1180.77	690.45	393.77	250.21	197.79	167.91	151.66
270.0	1693.21	1516.17	1091.49	608.16	349.51	226.69	186.03	157.26	139.90
300.0	1662.09	1530.00	1252.69	754.77	387.55	246.19	189.07	158.92	140.04
330.0	1669.01	1364.86	1076.48	639.55	349.31	229.11	188.86	162.10	140.94
360.0	1633.74	1505.80	1132.36	713.97	406.22	252.83	190.11	161.06	144.05

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	121.78	102.90	75.59	51.18	35.75	30.29	26.49	23.79	23.51
30.0	119.09	101.59	73.37	45.99	34.23	29.32	26.49	24.34	24.07
60.0	112.86	90.66	64.59	40.25	32.23	27.87	25.10	23.65	23.44
90.0	109.61	88.87	65.49	42.95	33.54	28.56	25.45	23.65	23.44
120.0	98.20	73.03	54.91	38.80	31.60	27.39	24.34	23.31	23.31
150.0	110.79	86.03	63.07	42.46	33.06	28.22	25.52	23.65	23.24
180.0	110.44	83.19	58.92	40.11	32.50	28.01	25.03	23.51	23.37
210.0	117.56	93.15	64.94	41.42	32.92	28.63	26.21	24.07	23.79
240.0	124.76	103.46	73.86	47.51	34.65	29.67	26.69	23.93	23.51
270.0	116.80	95.78	67.77	44.47	34.23	29.11	26.00	23.72	23.51
300.0	115.63	92.46	67.70	47.58	34.65	29.25	25.93	23.37	23.24
330.0	119.99	99.38	70.95	43.84	33.33	28.63	25.93	23.65	23.37
360.0	121.78	102.90	75.59	51.18	35.75	30.29	26.49	23.79	23.51

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	23.24	23.24	23.10	23.17	23.24	23.17	23.17	23.24	23.24
30.0	23.51	23.51	23.51	23.51	23.58	23.58	23.51	23.37	23.44
60.0	23.37	23.37	23.44	23.44	23.51	23.44	23.44	23.44	23.44
90.0	23.31	23.37	23.31	23.44	23.37	23.31	23.31	23.31	23.31
120.0	23.31	23.24	23.17	23.24	23.24	23.31	23.31	23.37	23.24
150.0	23.10	23.17	23.17	23.17	23.24	23.24	23.24	23.31	23.31
180.0	23.17	23.10	23.17	23.17	23.17	23.17	23.24	23.24	23.31
210.0	23.51	23.58	23.44	23.58	23.51	23.51	23.51	23.51	23.51
240.0	23.37	23.37	23.37	23.37	23.44	23.44	23.51	23.44	23.31
270.0	23.37	23.31	23.31	23.37	23.37	23.37	23.37	23.31	23.31
300.0	23.24	23.31	23.37	23.37	23.24	23.17	23.24	23.31	23.37
330.0	23.31	23.31	23.31	23.31	23.24	23.24	23.31	23.37	23.37
360.0	23.24	23.24	23.10	23.17	23.24	23.17	23.17	23.24	23.24

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	23.17	23.17	23.31	23.31	23.65	23.58	23.58	23.58	23.44
30.0	23.51	23.58	23.58	23.65	23.65	23.72	23.65	23.65	23.79
60.0	23.58	23.51	23.51	23.51	23.58	23.72	23.72	23.79	23.58
90.0	23.31	23.37	23.44	23.58	23.37	23.51	23.44	23.51	23.58
120.0	23.31	23.24	23.31	23.44	23.51	23.58	23.44	23.51	23.44
150.0	23.31	23.37	23.37	23.37	23.44	23.44	23.31	23.37	23.44
180.0	23.37	23.37	23.44	23.37	23.37	23.37	23.51	23.44	23.37
210.0	23.58	23.58	23.58	23.79	23.86	23.86	23.93	23.86	23.86
240.0	23.37	23.44	23.51	23.58	23.65	23.65	23.72	23.72	23.58
270.0	23.51	23.44	23.51	23.51	23.65	23.72	23.79	23.51	23.58
300.0	23.31	23.24	23.37	23.58	23.58	23.72	23.65	23.65	23.58
330.0	23.31	23.37	23.44	23.51	23.51	23.58	23.65	23.65	23.51
360.0	23.17	23.17	23.31	23.31	23.65	23.58	23.58	23.58	23.44

Equipment:
Temperature(°C): 0.0

Date: 2016-09-09
Humidity(%): 0.0%

Operator: 01
Distance(m): 8.32

SEE

Appendix Page: 15 Total:15

Intensity data(cd)

C/γ(°)	180.0
0.0	23.44
30.0	23.86
60.0	23.58
90.0	23.51
120.0	23.51
150.0	23.44
180.0	23.44
210.0	23.86
240.0	23.58
270.0	23.51
300.0	23.51
330.0	23.44
360.0	23.44