



LumCAT:	
Luminaire:	
Report No:	Voltage(V): 120.11
Test No: Sam	Current(A): 1.2485
LampCAT:	Power (W): 149.2100
Lamp flux(lm): 17656.3	PF: 0.995
Number of Lamps: 1	Ballast type:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

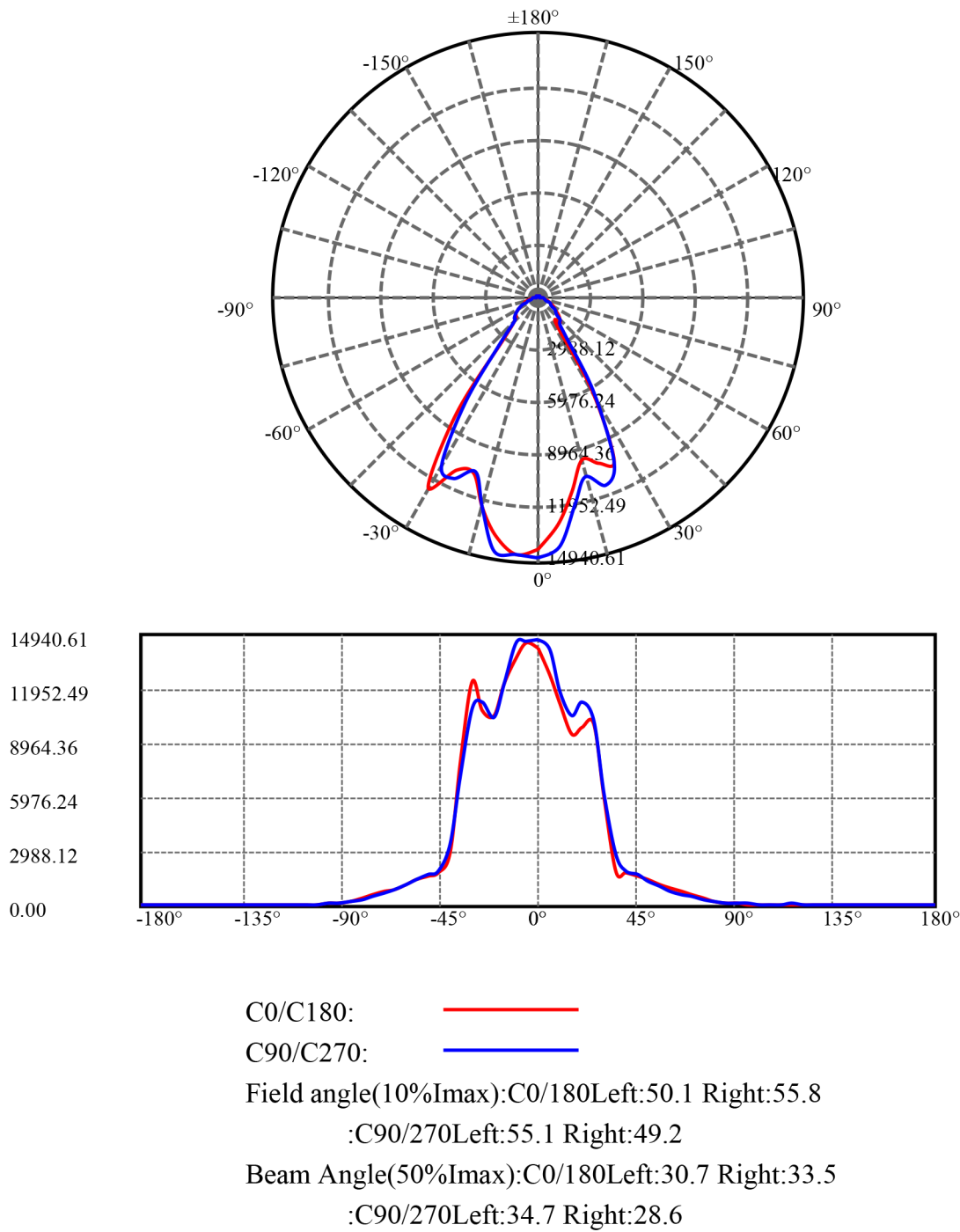
Lumens(lm): 17656.26
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 118.33
Central intensity(cd): 14216.850
Maximum intensity(cd): 14940.610
Angle of maximum intensity: C=112.5 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=64.2
[C90/270]Total=63.3
Field angle(10%Imax): [C0/180]Total=105.9
[C90/270]Total=104.3
Maximum s/h(1/2): C0_180=1.21 C90_270=0.95
Maximum s/h(1/4): C0_180=1.04 C90_270=0.84
Up flux rate of lamp(%): 4.09%
Down flux rate of lamp(%): 94.88%
Up flux rate of LUM(%): 3.11%
Down flux rate of LUM(%): 95.87%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 86.811%

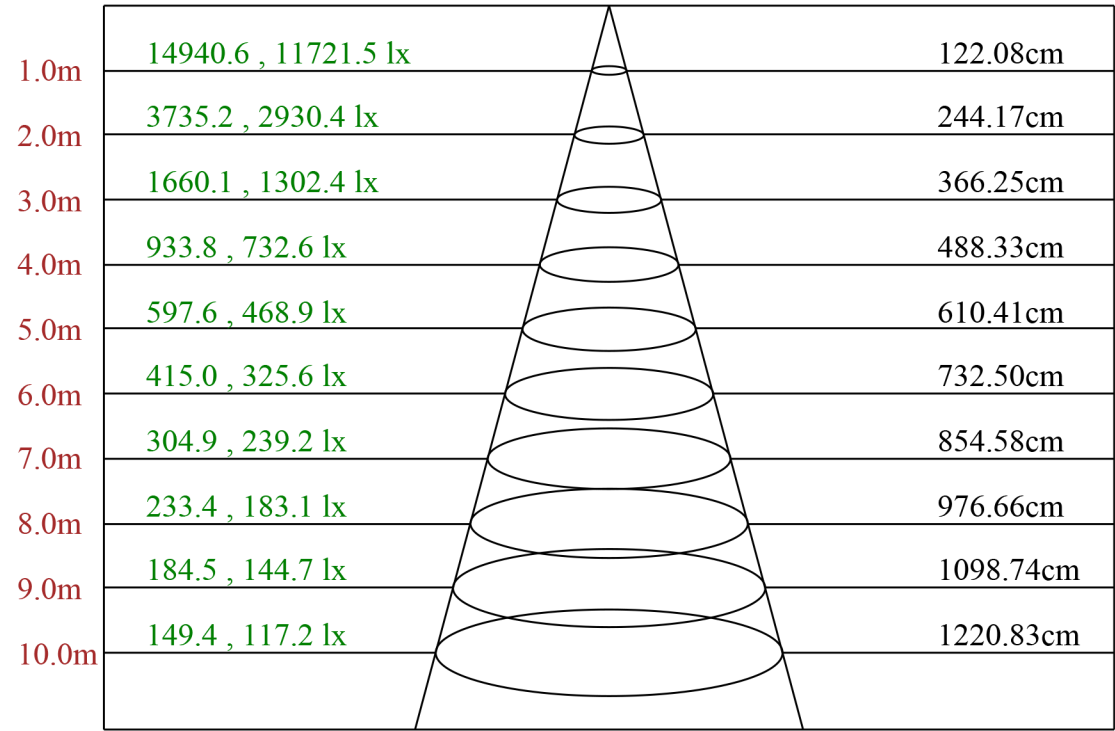
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14435.812	0.000	0	.000%	.000%
5.0	14029.533	340.936	340.936	1.931%	1.931%
10.0	12857.182	966.541	1307.477	5.474%	7.405%
15.0	11160.887	1434.460	2741.937	8.124%	15.530%
20.0	10488.890	1792.965	4534.903	10.155%	25.684%
25.0	10327.378	2187.499	6722.402	12.389%	38.074%
30.0	8823.025	2450.919	9173.321	13.881%	51.955%
35.0	4825.859	2066.385	11239.706	11.703%	63.658%
40.0	2476.868	1255.228	12494.934	7.109%	70.768%
45.0	1790.788	797.349	13292.283	4.516%	75.284%
50.0	1581.058	683.322	13975.605	3.870%	79.154%
55.0	1321.639	633.861	14609.466	3.590%	82.744%
60.0	1089.334	560.457	15169.923	3.174%	85.918%
65.0	901.902	486.485	15656.408	2.755%	88.673%
70.0	726.805	414.953	16071.361	2.350%	91.024%
75.0	537.292	333.864	16405.225	1.891%	92.915%
80.0	367.246	245.694	16650.919	1.392%	94.306%
85.0	237.245	166.749	16817.668	.944%	95.250%
90.0	175.957	114.228	16931.896	.647%	95.897%
95.0	149.038	89.490	17021.386	.507%	96.404%
100.0	131.263	76.479	17097.865	.433%	96.837%
105.0	123.895	68.401	17166.267	.387%	97.225%
110.0	123.479	64.623	17230.89	.366%	97.591%
115.0	128.794	63.761	17294.651	.361%	97.952%
120.0	125.380	61.964	17356.615	.351%	98.303%
125.0	114.030	55.761	17412.376	.316%	98.619%
130.0	100.168	46.811	17459.186	.265%	98.884%
135.0	93.882	39.317	17498.504	.223%	99.107%
140.0	89.762	34.097	17532.6	.193%	99.300%
145.0	86.626	29.532	17562.132	.167%	99.467%
150.0	83.753	25.135	17587.268	.142%	99.609%
155.0	83.629	21.181	17608.448	.120%	99.729%
160.0	83.171	17.519	17625.967	.099%	99.828%
165.0	81.103	13.576	17639.543	.077%	99.905%
170.0	77.509	9.441	17648.984	.053%	99.959%
175.0	76.302	5.525	17654.509	.031%	99.990%
180.0	69.683	1.749	17656.259	.010%	100.000%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	9173.32	51.96%	51.96%
0-40	12494.93	70.77%	70.77%
0-60	15169.92	85.92%	85.92%
0-90	16931.90	95.90%	95.90%
0-120	17356.61	98.30%	98.30%
0-180	17656.26	100.00%	100.00%
60-90	2322.43	13.15%	13.15%
90-120	538.95	3.05%	3.05%
90-130	641.52	3.63%	3.63%
90-150	769.60	4.36%	4.36%
90-180	836.84	4.74%	4.74%
0-51.18	14125.01	80.00%	80.00%

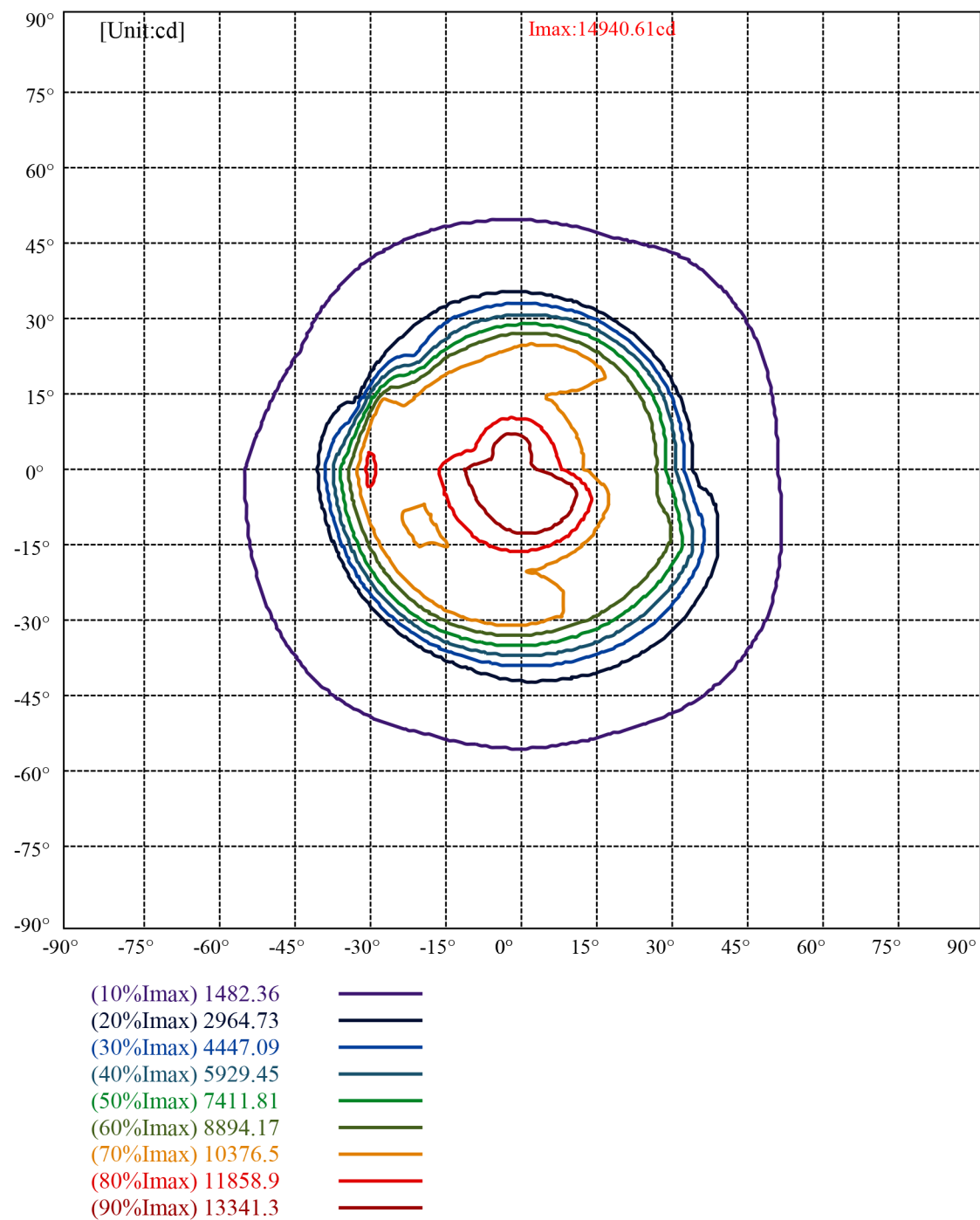
ZONAL LUMEN SUMMARY

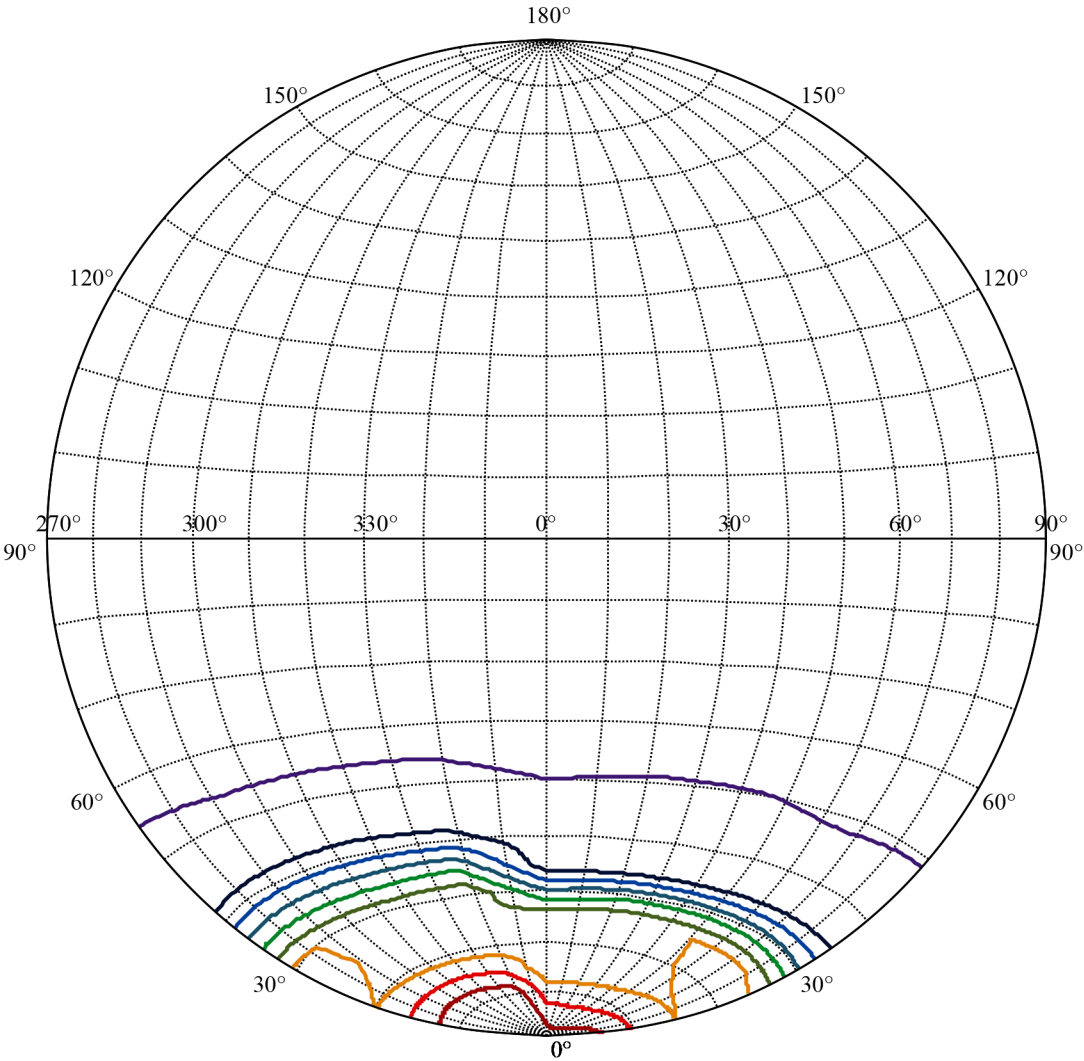
0-10	1307.48
10-20	3227.43
20-30	4638.42
30-40	3321.61
40-50	1480.67
50-60	1194.32
60-70	901.44
70-80	579.56
80-90	280.98
90-100	165.97
100-110	133.02
110-120	125.72
120-130	102.57
130-140	73.41
140-150	54.67
150-160	38.70
160-170	23.02
170-180	5.52





Max , Ave Beam angle of C112.5 plane 62.59





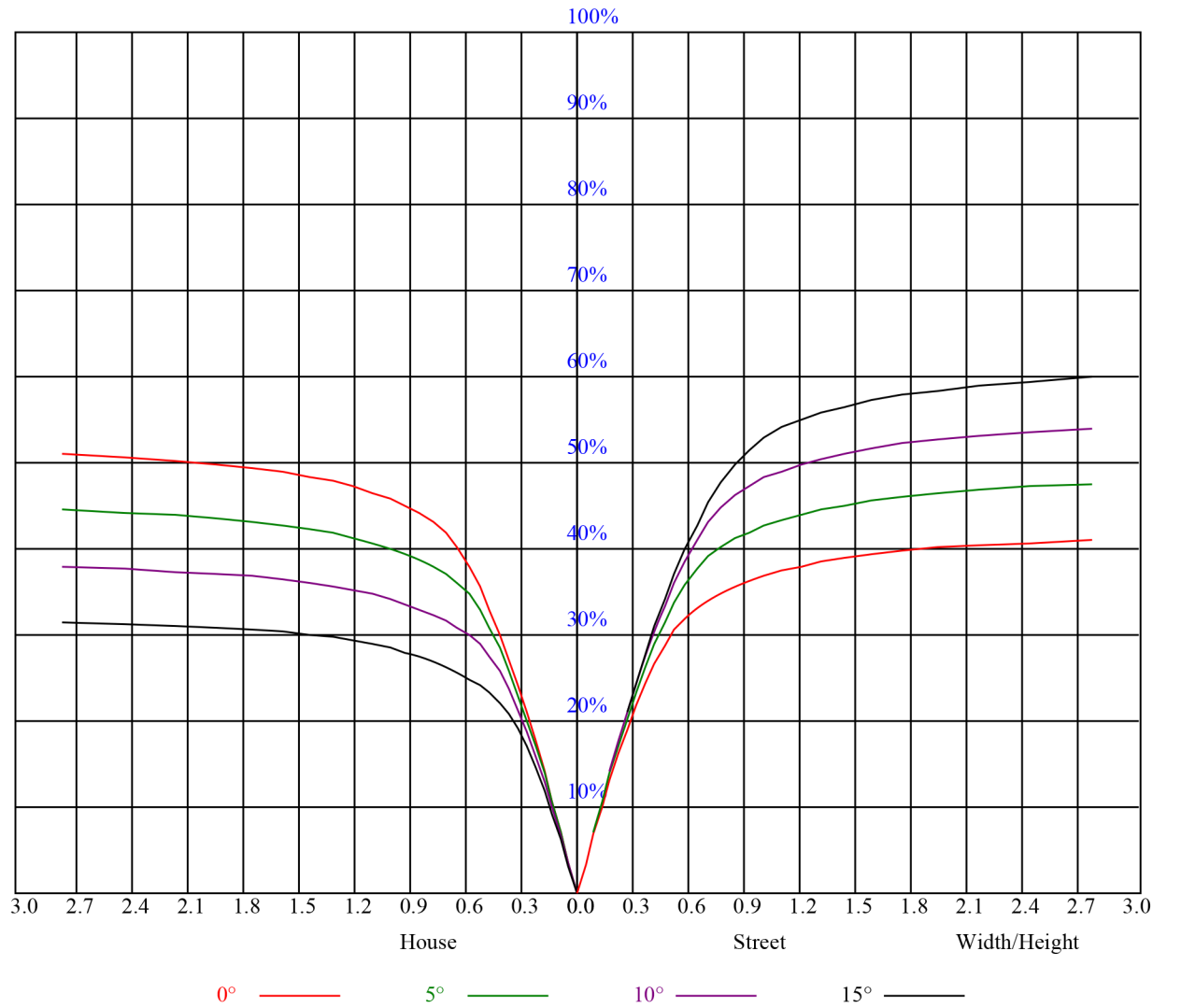
House

[Unit:cd]

Road

Imax:14940.61	
(10%Imax) 1493.89	—
(20%Imax) 2987.79	—
(30%Imax) 4481.68	—
(40%Imax) 5975.57	—
(50%Imax) 7469.46	—
(60%Imax) 8963.36	—
(70%Imax) 10457.3	—
(80%Imax) 11951.1	—
(90%Imax) 13445	—





Intensity data(cd)

Appendix Page: 10 Total:11

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	14216.85	12758.25	11159.78	9481.38	9881.00	10065.27	6051.33	1905.29	1895.97
22.5	13963.76	12560.66	11142.02	9587.95	9903.20	10356.10	6899.41	1829.36	1790.51
45.0	14050.35	12776.01	11270.78	9865.46	10214.01	10380.52	6810.60	1859.56	1810.94
67.5	14245.72	13215.59	11610.46	10296.16	10820.10	10698.00	6584.15	2373.95	1873.99
90.0	14680.86	14083.65	11812.49	10464.89	11253.02	10236.22	6206.73	2832.18	1981.44
112.5	14940.61	14603.15	12045.60	10420.48	11106.49	9747.79	5924.78	2924.54	1970.78
135.0	14865.12	14538.77	11985.65	10564.79	11301.86	10094.13	4431.32	2777.57	1971.89
157.5	14523.23	13630.75	11856.89	10511.51	11534.97	10624.73	11306.30	2239.19	1863.11
180.0	14216.85	14474.39	13664.05	12223.21	10524.83	10720.20	12329.77	7902.89	2960.95
202.5	13963.76	14445.53	13466.46	12076.68	10353.88	10307.26	11213.06	7412.25	1970.78
225.0	14050.35	14447.75	13533.06	12201.00	10362.76	10427.14	11075.41	7441.11	2112.87
247.5	14245.72	14463.29	13861.64	12298.69	10535.93	11148.68	11186.42	7403.37	2852.16
270.0	14680.86	14540.99	14518.79	12263.17	10427.14	11250.80	10846.74	7150.28	3456.03
292.5	14940.61	14656.43	14807.40	12260.95	10054.17	10238.44	10182.93	6959.35	3735.76
315.0	14865.12	14718.60	14738.58	12243.19	9865.46	9736.69	9958.70	6923.83	3848.99
337.5	14523.23	14558.75	14241.28	11814.71	9683.41	9206.09	10160.73	7279.04	3533.73
360.0	14216.85	12758.25	11159.78	9481.38	9881.00	10065.27	6051.33	1905.29	1895.97

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1692.16	1496.79	1196.63	987.72	816.55	627.62	430.70	258.42	181.16
22.5	1615.12	1567.61	1231.49	1019.25	838.75	682.68	442.24	271.52	179.83
45.0	1584.49	1512.55	1297.20	1142.91	1000.38	817.00	532.82	283.51	177.39
67.5	1602.47	1410.21	1137.36	890.26	711.10	553.03	386.08	246.21	180.05
90.0	1732.12	1417.09	1113.16	870.95	691.56	531.27	367.65	258.20	189.60
112.5	1786.51	1447.06	1194.64	972.18	763.27	585.88	380.75	263.53	198.26
135.0	1788.07	1422.64	1191.08	1060.32	939.10	693.12	432.48	277.29	199.81
157.5	1673.73	1368.03	1092.29	920.23	761.72	604.98	380.30	239.11	180.27
180.0	1864.22	1639.99	1453.50	1169.33	952.42	814.56	666.03	461.34	271.96
202.5	1848.68	1675.51	1486.80	1167.11	972.40	811.00	659.37	490.86	302.60
225.0	1857.56	1704.37	1495.68	1189.31	1026.13	844.08	734.63	541.04	277.74
247.5	1830.92	1648.87	1453.50	1167.11	923.34	780.81	611.64	440.47	268.63
270.0	1944.14	1797.62	1473.48	1162.67	932.44	753.06	581.44	399.40	261.75
292.5	1895.30	1711.03	1422.42	1162.67	960.42	764.82	581.67	406.50	272.63
315.0	1957.46	1708.81	1462.38	1355.82	1162.67	1000.60	803.45	561.46	335.24
337.5	1979.66	1768.75	1444.62	1191.53	978.18	764.38	605.42	477.10	319.03
360.0	1692.16	1496.79	1196.63	987.72	816.55	627.62	430.70	258.42	181.16

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	151.86	132.54	120.55	121.22	123.88	136.31	100.35	92.58	89.69
22.5	148.30	130.76	119.44	118.78	122.33	131.43	122.33	95.02	87.92
45.0	149.19	132.54	120.55	120.33	125.21	134.32	132.54	107.90	99.24
67.5	155.19	137.87	125.21	123.66	130.10	136.98	137.87	120.33	107.01
90.0	164.07	147.64	132.98	131.65	136.54	147.64	133.43	116.11	110.12
112.5	169.84	154.74	133.21	130.32	134.09	140.09	129.65	116.33	108.34
135.0	168.73	153.63	131.21	131.43	136.76	138.98	125.44	110.56	103.90
157.5	152.30	135.87	122.11	121.22	128.32	133.43	111.67	97.02	92.80
180.0	188.49	154.74	135.43	121.66	119.00	126.55	132.98	118.33	98.79
202.5	188.71	151.19	130.54	117.44	113.23	117.00	124.99	114.78	92.58
225.0	183.16	147.64	127.88	116.78	111.89	113.67	121.00	120.33	102.35
247.5	184.71	150.75	130.32	118.55	113.67	118.11	124.33	129.65	104.57
270.0	189.15	156.07	135.65	122.55	116.78	118.33	124.33	123.88	102.79
292.5	200.48	164.95	145.64	129.43	121.44	124.77	129.88	123.66	104.79
315.0	213.13	169.62	147.19	130.10	121.44	122.11	126.77	120.55	103.46
337.5	208.02	164.07	142.31	127.21	121.00	121.00	128.54	117.44	94.35
360.0	151.86	132.54	120.55	121.22	123.88	136.31	100.35	92.58	89.69

Intensity data(cd)

Appendix Page: 11 Total:11

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	84.14	81.03	76.37	85.70	89.03	88.58	85.92	80.37	75.04
22.5	82.59	82.81	75.48	82.81	80.59	79.92	78.59	78.37	73.49
45.0	92.80	89.03	83.25	80.81	82.59	83.03	78.59	74.37	74.15
67.5	100.57	98.35	93.47	87.92	86.14	84.14	79.92	74.60	74.82
90.0	104.79	100.35	97.24	92.13	87.92	85.47	81.48	75.26	75.04
112.5	103.46	101.68	97.02	91.47	89.69	86.58	81.92	74.60	77.26
135.0	98.35	93.91	90.14	88.14	88.14	85.92	80.81	75.04	76.15
157.5	89.47	86.81	82.14	89.47	85.92	83.70	81.03	79.48	75.71
180.0	91.91	89.47	87.69	84.36	89.91	95.24	93.91	89.69	85.92
202.5	89.03	88.80	89.25	70.60	79.92	81.48	86.58	87.25	84.36
225.0	94.35	85.92	85.92	84.59	83.48	83.03	78.81	73.93	80.15
247.5	94.58	90.36	90.58	86.36	83.48	82.59	80.59	75.71	74.60
270.0	97.02	90.36	88.80	87.25	82.81	79.92	78.37	74.82	70.60
292.5	96.13	89.25	86.81	82.59	79.48	79.26	78.15	73.04	69.27
315.0	94.58	84.59	80.81	77.93	75.71	77.48	74.82	70.82	75.48
337.5	88.36	83.48	81.03	67.94	73.26	74.37	78.15	82.81	78.81
360.0	84.14	81.03	76.37	85.70	89.03	88.58	85.92	80.37	75.04

C/γ(°)	180.0
0.0	73.93
22.5	72.60
45.0	72.38
67.5	68.82
90.0	67.71
112.5	68.60
135.0	65.72
157.5	67.71
180.0	73.93
202.5	72.60
225.0	72.38
247.5	68.82
270.0	67.71
292.5	68.60
315.0	65.72
337.5	67.71
360.0	73.93