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NT

Client: NT

LumCAT: 3-2912-L

Luminaire: 92.70.412.00

Report No: 2025313-B006

Ballast type: DC

Test No: 2025313-C006

LampCAT: CITIZEN CLU038

Lamp flux(lm): 3657.7

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 36.510

Current(A): 0.700

Power (W): 25.557

PF: 0.000

Width(mm): 92

Height(mm): 50

Photometric Results

Lumens(lm): 3542.41, Efficiency(%): 96.85% , Luminous Efficacy(lm/W): 138.61

Central intensity(cd): 12307.870, Maximum intensity(cd): 12307.870

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.6

[C90/270]Total=25.6

Field angle(10%Imax): [C0/180]Total=60.0

[C90/270]Total=60.0

Maximum s/h(1/2): C0_180=0.43 C90_270=0.43

Maximum s/h(1/4): C0_180=0.44 C90_270=0.44

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.85%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.550%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/3/13
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12307.867	0.000	0	0.00%	0.00%
1.0	12266.170	11.758	11.758	0.32%	0.33%
2.0	12058.356	34.913	46.671	0.95%	1.32%
3.0	11839.131	57.155	103.826	1.56%	2.93%
4.0	11652.225	78.633	182.459	2.15%	5.15%
5.0	11290.848	98.700	281.159	2.70%	7.94%
6.0	10846.150	116.336	397.495	3.18%	11.22%
7.0	10265.242	131.038	528.533	3.58%	14.92%
8.0	9642.123	142.473	671.006	3.90%	18.94%
9.0	8940.585	150.603	821.609	4.12%	23.19%
10.0	8201.226	155.127	976.736	4.24%	27.57%
11.0	7482.131	156.709	1133.445	4.28%	32.00%
12.0	6687.395	154.893	1288.338	4.23%	36.37%
13.0	5985.491	150.395	1438.733	4.11%	40.61%
14.0	5282.782	144.233	1582.966	3.94%	44.69%
15.0	4666.906	136.594	1719.56	3.73%	48.54%
16.0	4085.266	128.244	1847.804	3.51%	52.16%
17.0	3660.612	120.624	1968.428	3.30%	55.57%
18.0	3224.919	113.527	2081.955	3.10%	58.77%
19.0	2875.759	106.139	2188.095	2.90%	61.77%
20.0	2515.195	98.669	2286.764	2.70%	64.55%
21.0	2312.999	92.711	2379.475	2.53%	67.17%
22.0	2173.862	90.165	2469.641	2.47%	69.72%
23.0	1897.431	85.427	2555.067	2.34%	72.13%
24.0	1755.441	79.865	2634.932	2.18%	74.38%
25.0	1647.613	77.378	2712.31	2.12%	76.57%
26.0	1554.489	75.586	2787.896	2.07%	78.70%
27.0	1463.706	73.841	2861.737	2.02%	80.79%
28.0	1386.010	72.149	2933.886	1.97%	82.82%
29.0	1303.003	70.352	3004.238	1.92%	84.81%
30.0	1231.562	68.433	3072.671	1.87%	86.74%
31.0	1130.991	65.746	3138.417	1.80%	88.60%
32.0	1019.411	61.606	3200.024	1.68%	90.33%
33.0	872.614	55.740	3255.764	1.52%	91.91%
34.0	727.215	48.416	3304.179	1.32%	93.27%
35.0	571.699	40.339	3344.519	1.10%	94.41%
36.0	428.707	31.853	3376.372	0.87%	95.31%
37.0	309.343	24.071	3400.443	0.66%	95.99%

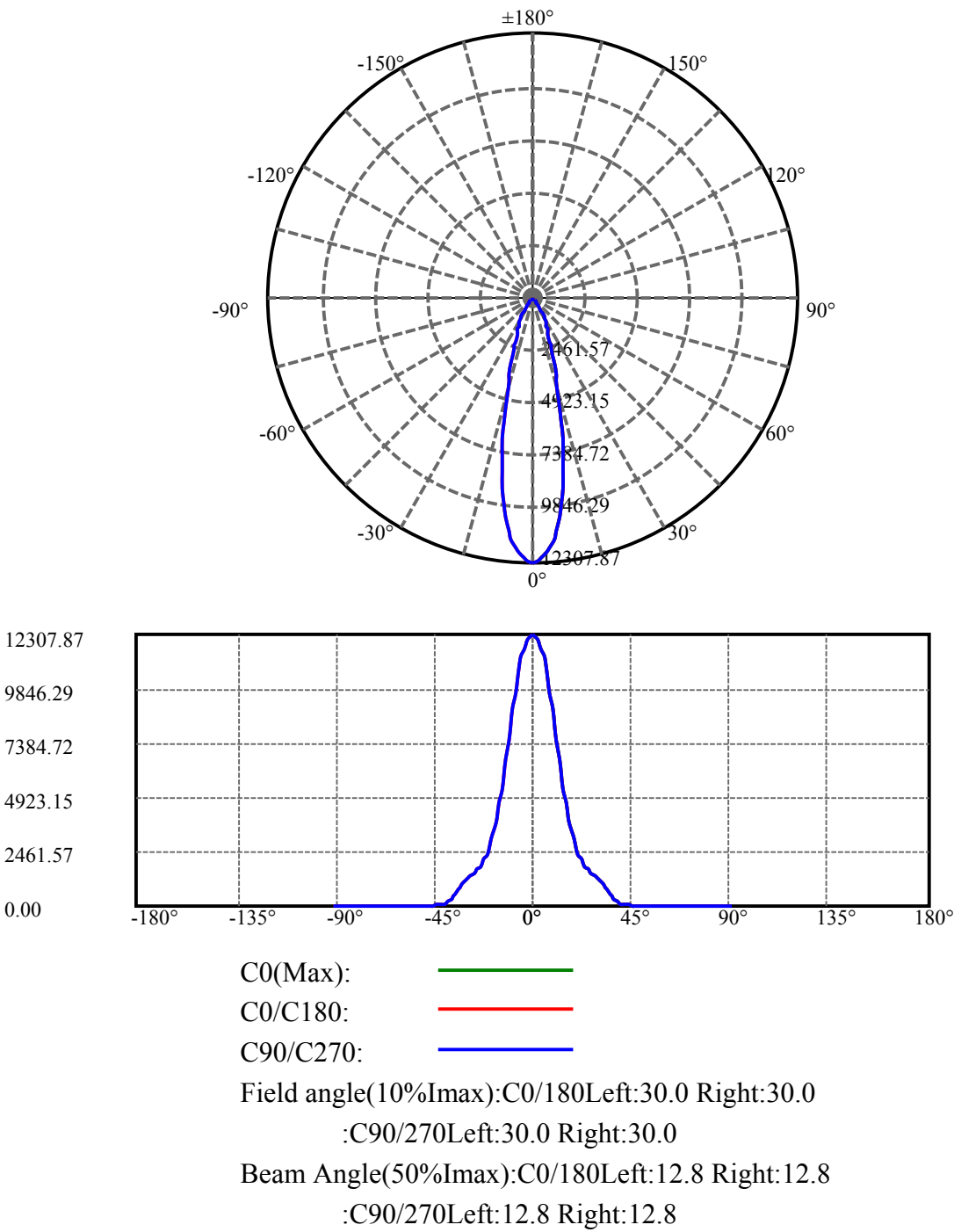
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	224.024	17.803	3418.246	0.49%	96.49%
39.0	141.968	12.492	3430.738	0.34%	96.85%
40.0	96.255	8.308	3439.047	0.23%	97.08%
41.0	59.715	5.554	3444.601	0.15%	97.24%
42.0	50.907	4.019	3448.62	0.11%	97.35%
43.0	44.938	3.550	3452.17	0.10%	97.45%
44.0	39.495	3.187	3455.357	0.09%	97.54%
45.0	35.794	2.893	3458.25	0.08%	97.62%
46.0	33.116	2.695	3460.945	0.07%	97.70%
47.0	31.097	2.554	3463.499	0.07%	97.77%
48.0	29.312	2.442	3465.941	0.07%	97.84%
49.0	27.827	2.346	3468.288	0.06%	97.91%
50.0	26.598	2.269	3470.557	0.06%	97.97%
51.0	25.560	2.207	3472.764	0.06%	98.03%
52.0	24.682	2.156	3474.92	0.06%	98.09%
53.0	23.950	2.115	3477.035	0.06%	98.15%
54.0	23.233	2.080	3479.115	0.06%	98.21%
55.0	22.612	2.046	3481.161	0.06%	98.27%
56.0	22.034	2.017	3483.179	0.06%	98.33%
57.0	21.558	1.993	3485.172	0.05%	98.38%
58.0	21.090	1.972	3487.144	0.05%	98.44%
59.0	20.666	1.952	3489.096	0.05%	98.50%
60.0	20.249	1.933	3491.029	0.05%	98.55%
61.0	19.803	1.911	3492.94	0.05%	98.60%
62.0	19.342	1.886	3494.826	0.05%	98.66%
63.0	18.925	1.861	3496.688	0.05%	98.71%
64.0	18.486	1.836	3498.523	0.05%	98.76%
65.0	18.149	1.813	3500.336	0.05%	98.81%
66.0	17.864	1.797	3502.133	0.05%	98.86%
67.0	17.608	1.784	3503.917	0.05%	98.91%
68.0	17.345	1.771	3505.687	0.05%	98.96%
69.0	17.074	1.756	3507.443	0.05%	99.01%
70.0	16.818	1.741	3509.184	0.05%	99.06%
71.0	16.540	1.724	3510.908	0.05%	99.11%
72.0	16.320	1.709	3512.617	0.05%	99.16%
73.0	16.108	1.696	3514.312	0.05%	99.21%
74.0	15.903	1.683	3515.995	0.05%	99.25%
75.0	15.757	1.673	3517.668	0.05%	99.30%

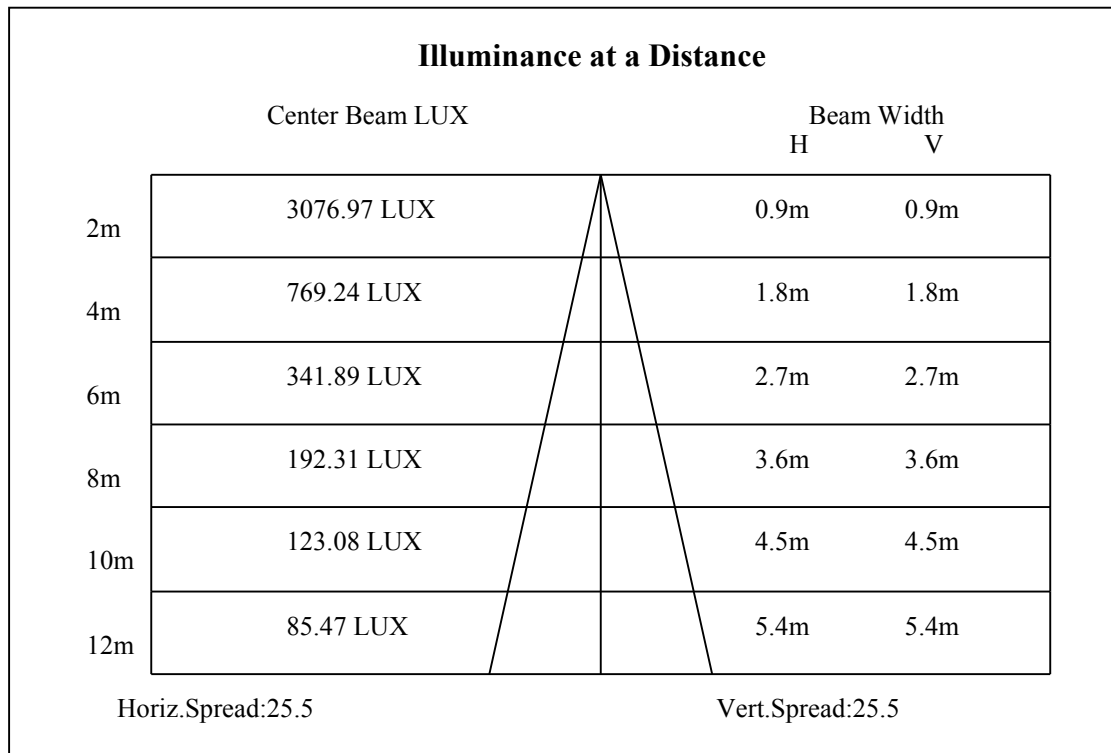
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.655	1.667	3519.336	0.05%	99.35%
77.0	15.574	1.665	3521.001	0.05%	99.40%
78.0	15.501	1.663	3522.664	0.05%	99.44%
79.0	15.428	1.662	3524.326	0.05%	99.49%
80.0	15.384	1.661	3525.987	0.05%	99.54%
81.0	15.326	1.661	3527.648	0.05%	99.58%
82.0	15.252	1.658	3529.306	0.05%	99.63%
83.0	15.194	1.655	3530.961	0.05%	99.68%
84.0	15.113	1.651	3532.612	0.05%	99.72%
85.0	15.048	1.646	3534.258	0.05%	99.77%
86.0	14.989	1.642	3535.9	0.04%	99.82%
87.0	14.923	1.637	3537.537	0.04%	99.86%
88.0	14.887	1.633	3539.17	0.04%	99.91%
89.0	14.748	1.624	3540.794	0.04%	99.95%
90.0	14.689	1.614	3542.408	0.04%	100.00%

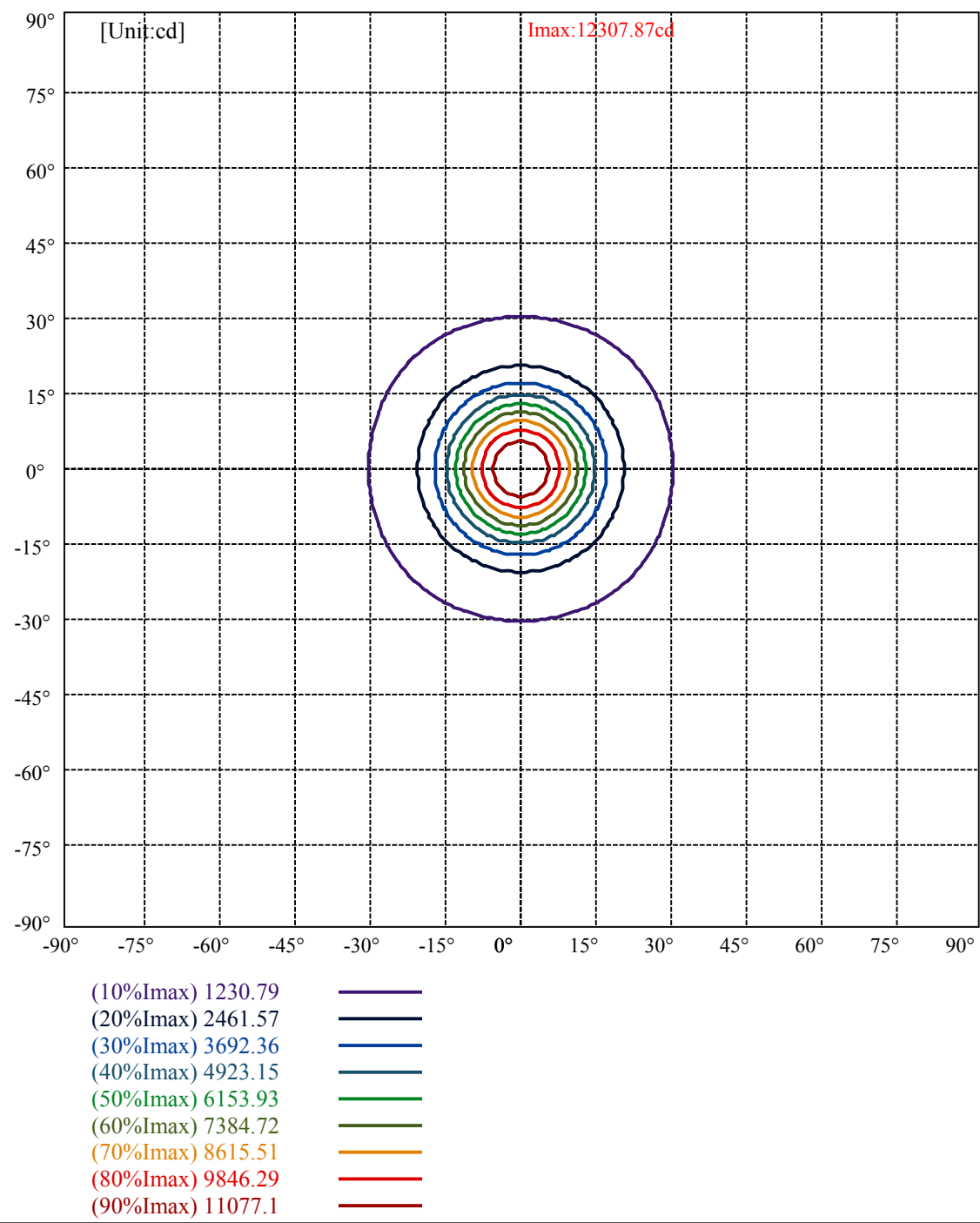
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3072.67	84.00%	86.74%
0-40	3439.05	94.02%	97.08%
0-60	3491.03	95.44%	98.55%
0-90	3540.79	96.80%	99.95%
0-120	3540.79	96.80%	99.95%
0-180	3542.41	96.85%	100.00%
60-90	49.77	1.36%	1.40%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.62	2833.93	77.48%	80.00%

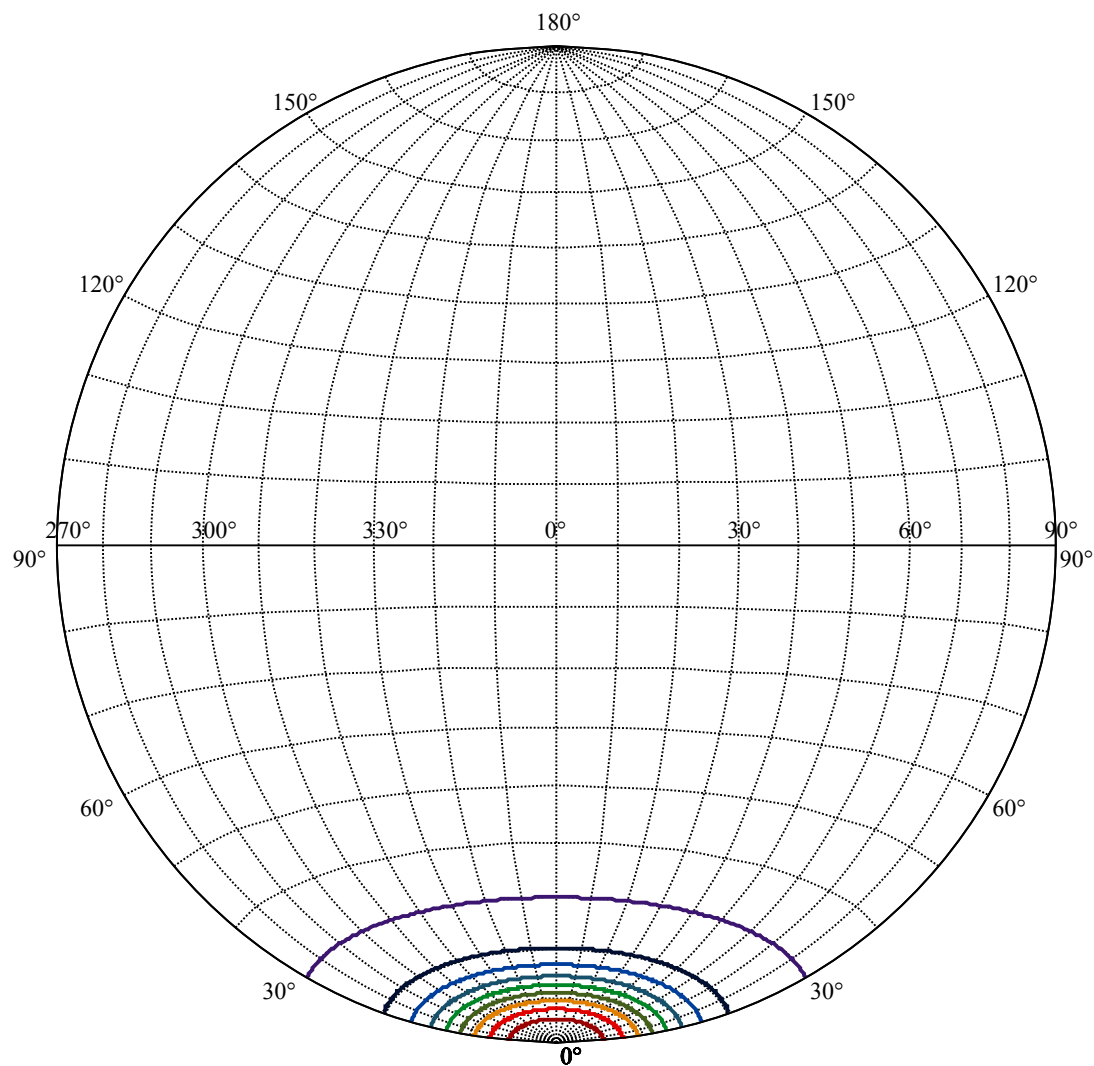
ZONAL LUMEN SUMMARY

0-10	976.74
10-20	1310.03
20-30	785.91
30-40	366.38
40-50	31.51
50-60	20.47
60-70	18.15
70-80	16.80
80-90	14.81
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









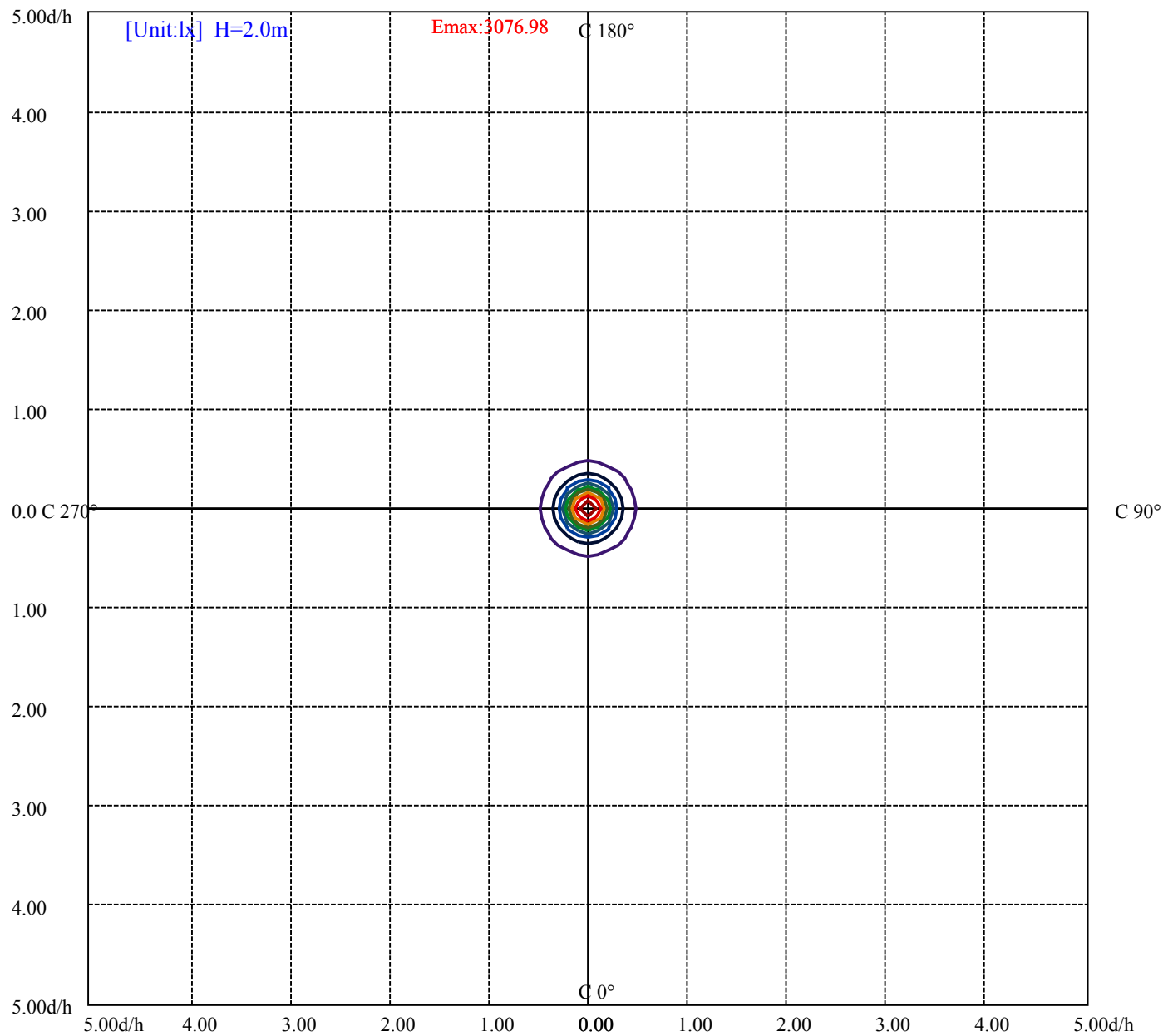
House

[Unit:cd]

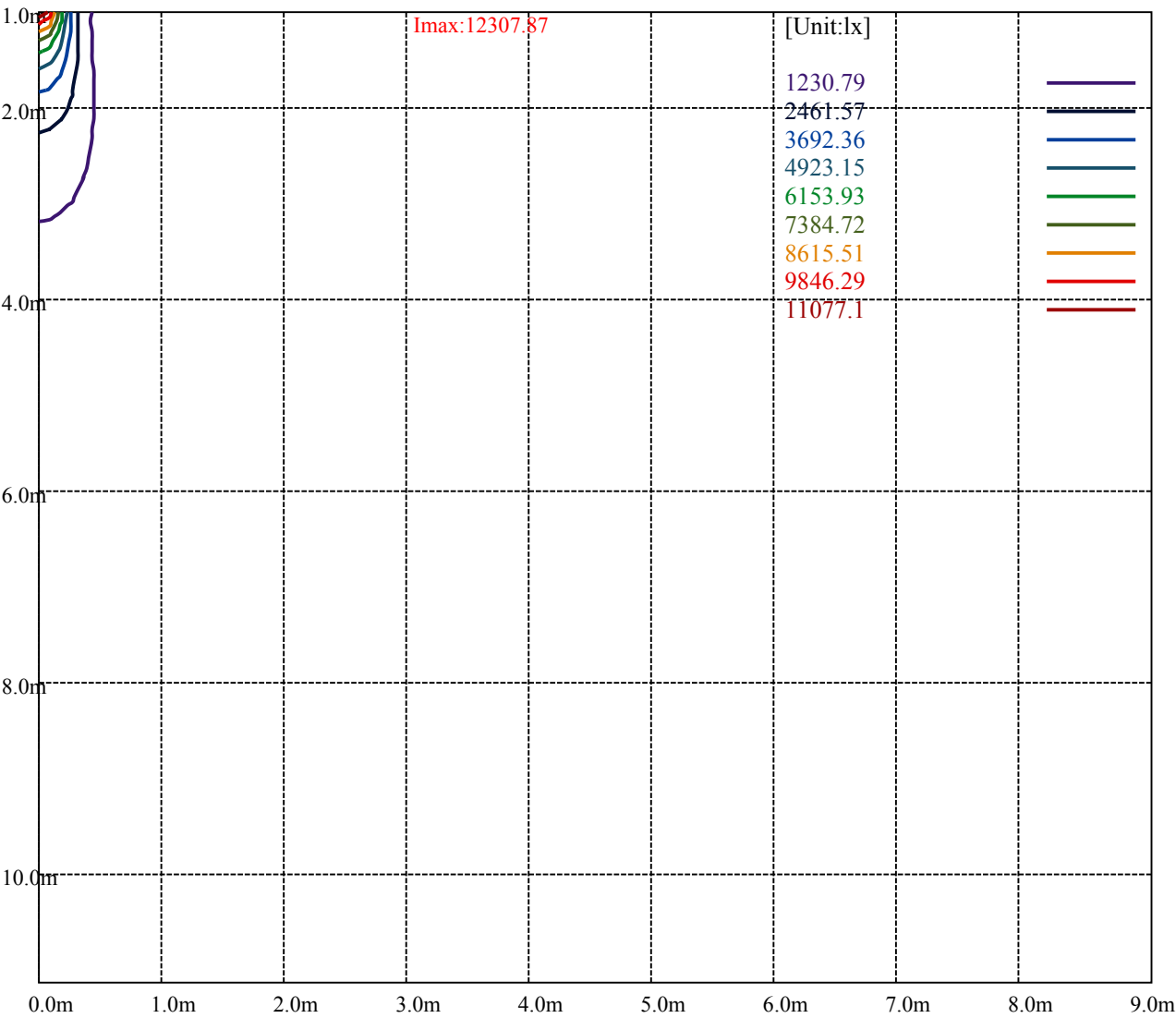
Road

Imax:12307.87

(10%Imax)	1230.79	—
(20%Imax)	2461.57	—
(30%Imax)	3692.36	—
(40%Imax)	4923.15	—
(50%Imax)	6153.93	—
(60%Imax)	7384.72	—
(70%Imax)	8615.51	—
(80%Imax)	9846.29	—
(90%Imax)	11077.1	—



(10%Emax) 307.6975	—
(20%Emax) 615.3925	—
(30%Emax) 923.09	—
(40%Emax) 1230.785	—
(50%Emax) 1538.483	—
(60%Emax) 1846.18	—
(70%Emax) 2153.875	—
(80%Emax) 2461.573	—
(90%Emax) 2769.275	—



Luminance Table

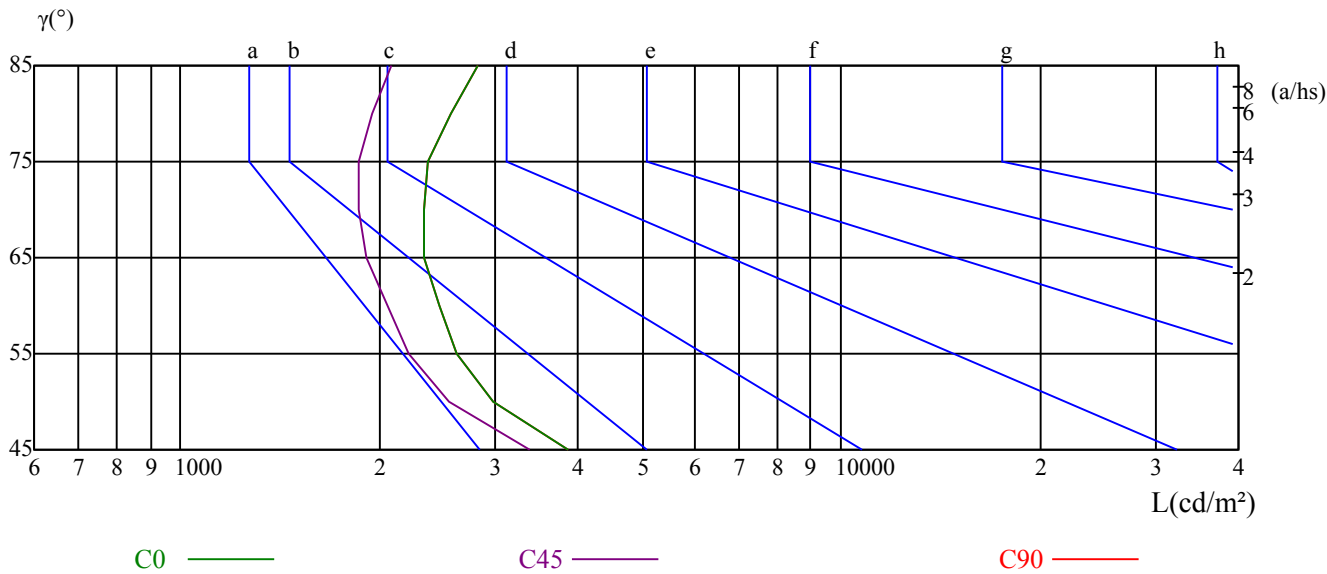
γ	45	50	55	60	65	70	75	80	85
C0	3875	2967	2622	2465	2343	2330	2375	2564	2828
C45	3382	2552	2220	2052	1916	1867	1859	1953	2085
C90	3875	2967	2622	2465	2343	2330	2375	2564	2828

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5074	5074	5074	7193	7193	7193	20398	20398	20398

Glare Table

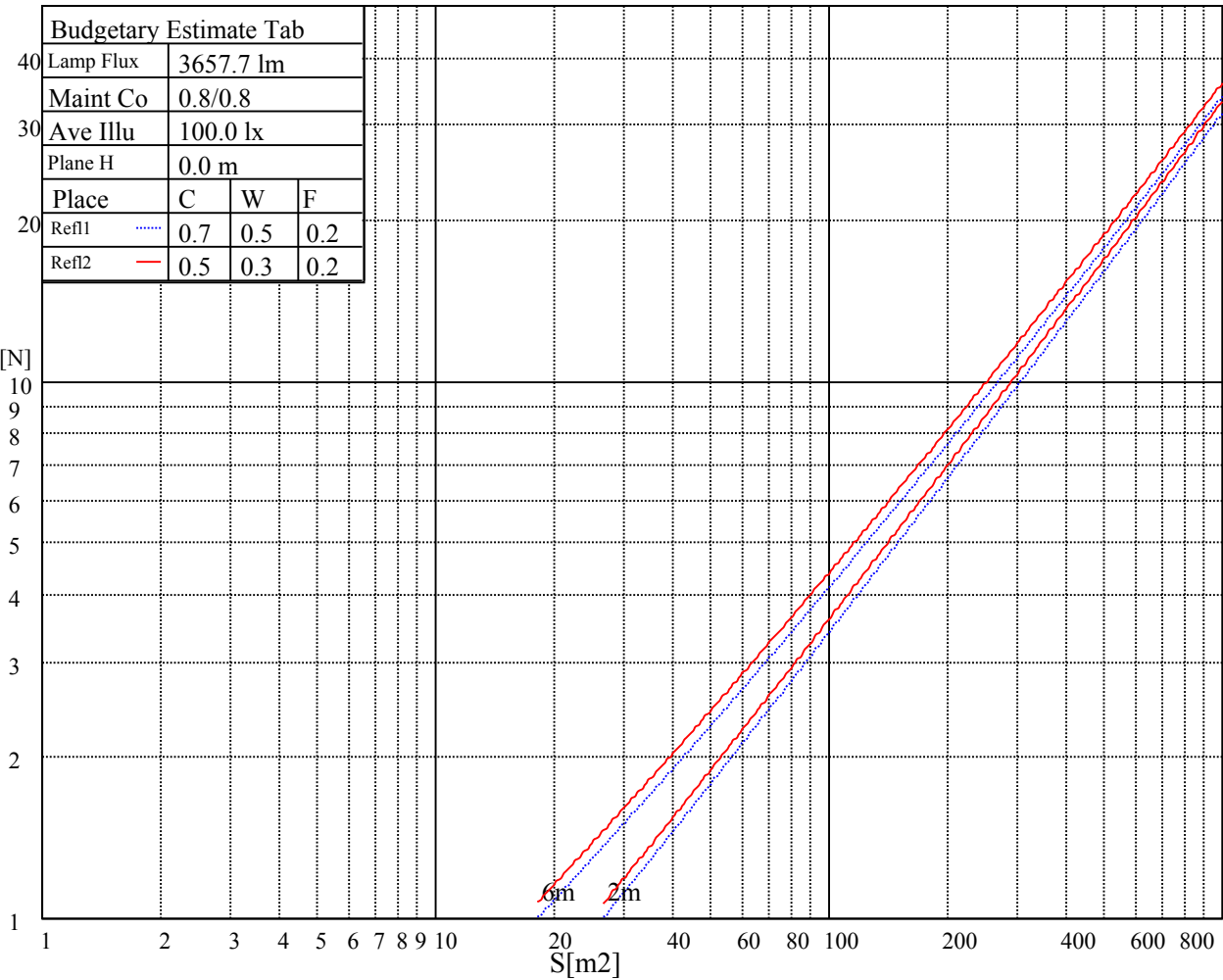
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

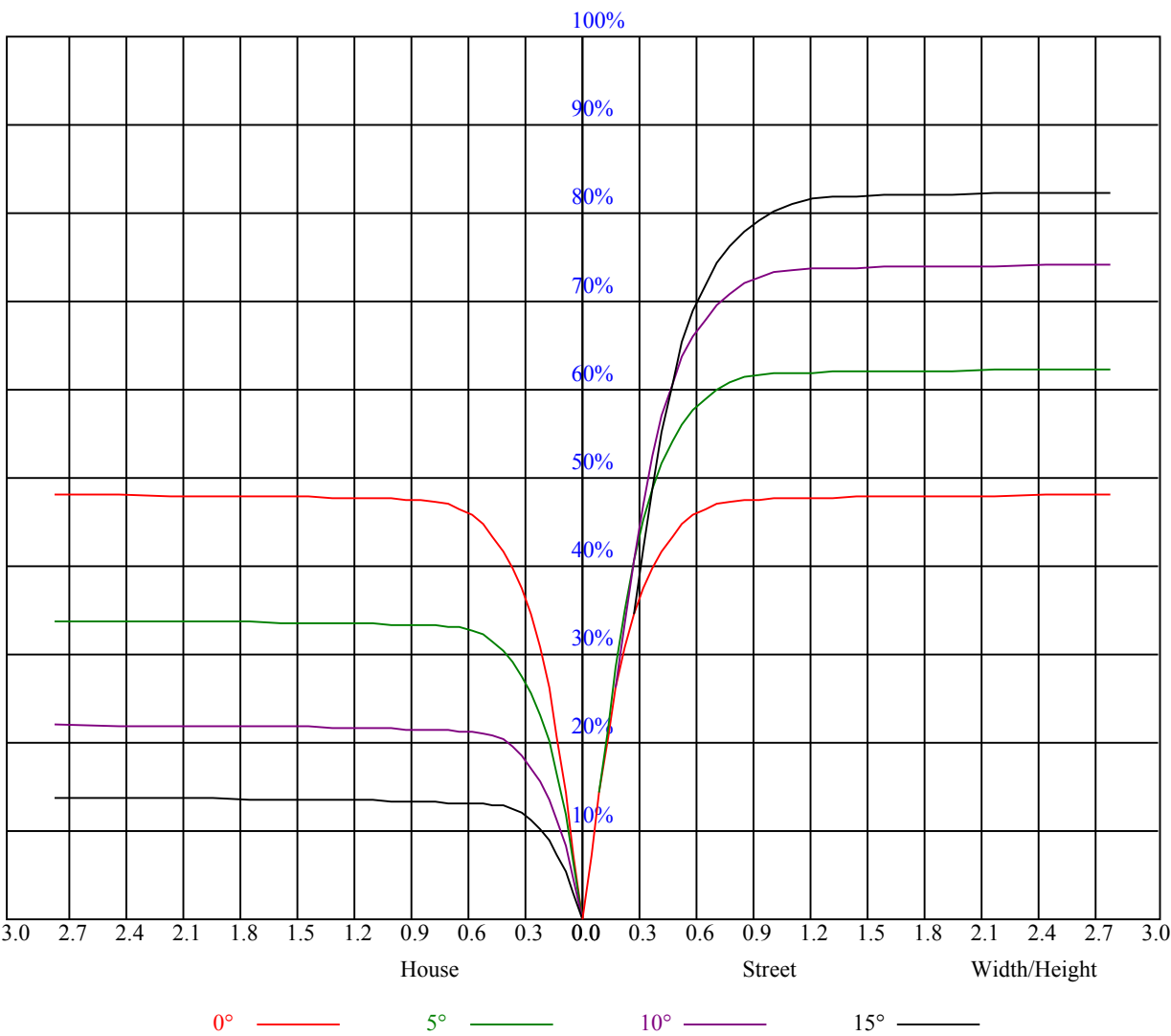


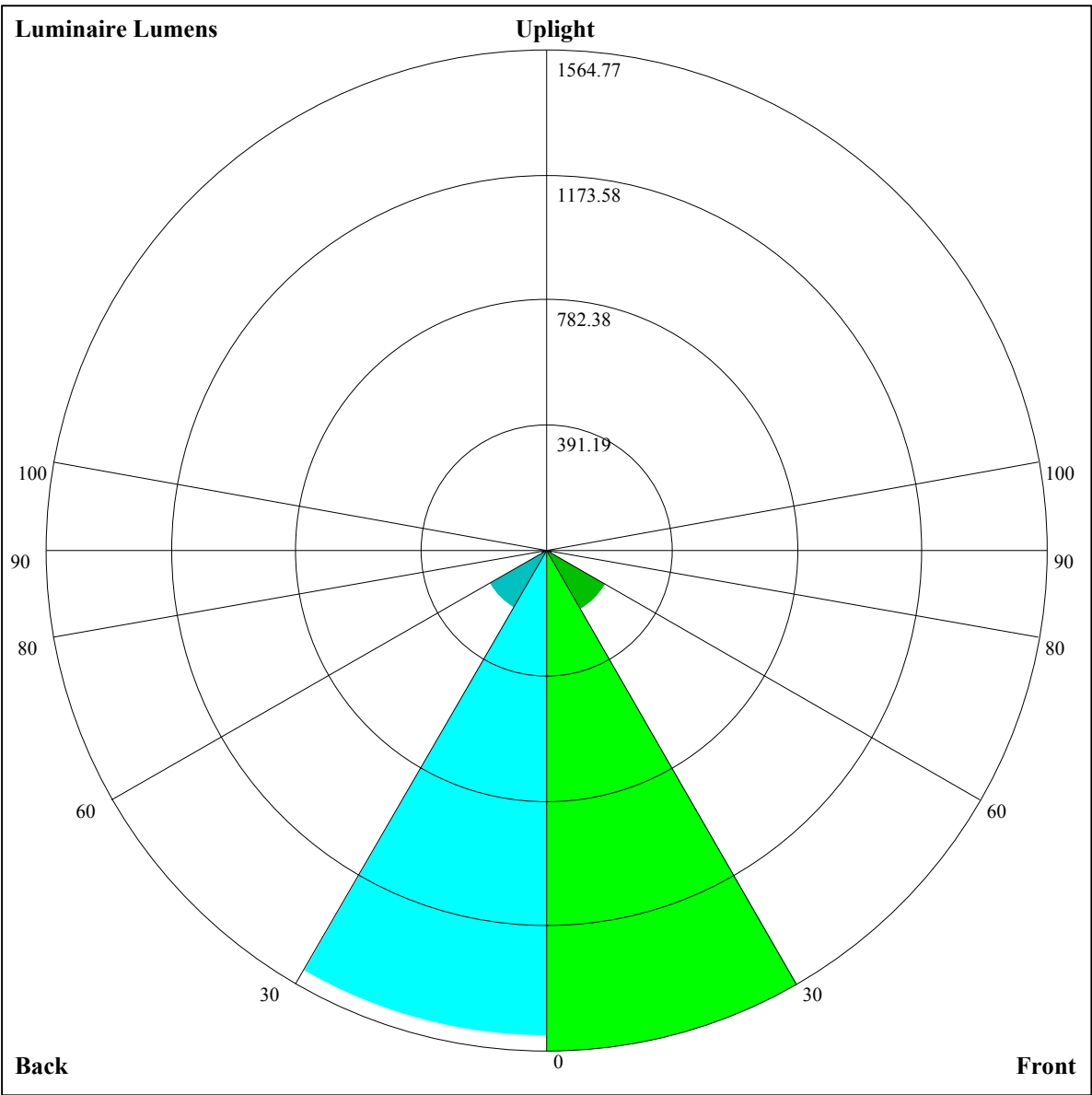
Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.73	15.65	15.09	15.96	16.28	13.72	14.64	14.08	14.95	15.27
	3H	14.68	15.50	15.07	15.84	16.19	13.73	14.55	14.12	14.89	15.24
	4H	14.71	15.48	15.12	15.83	16.20	13.80	14.56	14.20	14.92	15.29
	6H	14.84	15.53	15.26	15.91	16.31	13.99	14.68	14.41	15.06	15.46
	8H	14.91	15.57	15.33	15.96	16.37	14.10	14.76	14.52	15.15	15.56
	12H	15.01	15.64	15.44	16.04	16.45	14.25	14.87	14.68	15.27	15.69
4H	2H	14.47	15.23	14.87	15.58	15.95	13.48	14.24	13.89	14.60	14.97
	3H	14.46	15.10	14.89	15.50	15.92	13.56	14.20	13.98	14.59	15.01
	4H	14.61	15.16	15.05	15.58	16.03	13.76	14.32	14.20	14.74	15.19
	6H	14.81	15.30	15.28	15.75	16.20	14.06	14.54	14.53	15.00	15.45
	8H	14.99	15.44	15.47	15.90	16.37	14.29	14.74	14.78	15.20	15.68
	12H	15.22	15.64	15.71	16.09	16.61	14.58	15.00	15.07	15.45	15.97
8H	4H	14.53	14.98	15.01	15.44	15.91	13.72	14.17	14.21	14.63	15.10
	6H	14.84	15.21	15.35	15.69	16.21	14.15	14.52	14.66	15.00	15.51
	8H	15.17	15.48	15.71	16.00	16.50	14.55	14.86	15.09	15.38	15.88
	12H	15.54	15.78	16.09	16.30	16.82	15.00	15.23	15.54	15.75	16.27
12H	4H	14.51	14.92	15.00	15.38	15.90	13.71	14.12	14.20	14.58	15.10
	6H	14.90	15.21	15.44	15.73	16.23	14.23	14.54	14.76	15.06	15.56
	8H	15.24	15.48	15.79	15.99	16.52	14.65	14.88	15.19	15.40	15.92
Variation with the observer position at spacings:											
S = 1.0H		5.9/-6.2					5.9/-6.2				
S = 1.5H		8.1/-4.9					8.1/-4.9				
S = 2.0H		9.7/-3.9					9.7/-3.9				
Standard tables:		BK2					BK2				
Uncorrected UGR		-3.1					-3.1				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.15	1.15	1.15	1.13	1.13	1.13	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.08	1.06	1.04	1.06	1.04	1.03	1.02	1.01	0.99	0.99	0.98	0.97	0.95	0.95	0.94	0.92
2	1.02	0.99	0.96	1.01	0.98	0.95	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.88
3	0.97	0.93	0.90	0.96	0.92	0.89	0.93	0.90	0.88	0.91	0.89	0.86	0.89	0.87	0.85	0.84
4	0.92	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.80
5	0.88	0.84	0.80	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.79	0.83	0.80	0.78	0.77
6	0.85	0.80	0.77	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
7	0.81	0.76	0.73	0.81	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
8	0.78	0.73	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
9	0.75	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.66
10	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64





Luminaire Lumens:

FL=1564.77,FM=212.52,FH=17.55,FVH=8.2

BL=1516.63,BM=209.74,BH=17.4,BVH=8.23

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

Appendix Page: 18 Total:20

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	12328.35	12252.27	11642.52	11642.52	11557.08	11070.17	10611.36	10089.92	9504.11
45.0	12316.65	12293.24	12199.60	12012.33	11784.09	11473.92	11093.53	10660.46	10028.42
90.0	12263.98	12105.96	11603.31	11603.31	11229.36	10637.69	10103.38	9347.86	8684.80
135.0	12322.50	12263.98	12123.52	11842.61	11497.33	11064.26	10531.71	9770.92	9074.50
180.0	12328.35	12322.50	12234.71	12076.70	11766.53	11421.25	10988.18	10455.63	9683.13
225.0	12316.65	12269.83	12158.63	11671.20	11671.20	11324.75	10898.12	10255.54	9676.17
270.0	12263.98	12316.65	12310.79	12211.30	12059.15	11854.32	11567.56	11075.97	10601.94
315.0	12322.50	12304.94	12193.75	11653.06	11653.06	11480.42	10975.37	10465.64	9883.92
360.0	12328.35	12252.27	11642.52	11642.52	11557.08	11070.17	10611.36	10089.92	9504.11
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8707.04	8031.10	7333.51	6627.15	5764.52	5124.29	4533.21	3994.22	3419.53
45.0	9478.30	8893.08	8132.29	7506.10	6891.61	6130.82	5569.00	4890.14	4404.40
90.0	7999.50	7123.42	6428.76	5755.75	5122.53	4547.26	3921.65	3478.05	3097.65
135.0	8143.99	7353.94	6563.88	5604.11	4884.29	4217.13	3643.61	3046.68	3046.68
180.0	9004.27	8284.45	7529.50	6569.74	5844.06	5153.49	4386.85	3848.44	3374.41
225.0	9058.17	8252.90	7603.89	6966.58	6351.51	5629.92	5091.52	4599.93	4148.72
270.0	10069.38	9320.29	8658.99	7810.41	7114.00	6435.13	5814.80	5030.59	4503.89
315.0	9064.02	8350.63	7606.23	6659.33	5911.42	5024.22	4374.62	3794.07	3289.61
360.0	8707.04	8031.10	7333.51	6627.15	5764.52	5124.29	4533.21	3994.22	3419.53
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3032.69	2630.06	2362.61	2136.71	1911.99	1772.12	1658.00	1564.95	1469.56
45.0	3965.48	3579.24	3233.95	2994.01	2794.01	2377.24	2147.25	1993.33	1861.66
90.0	2770.51	2421.72	2193.48	2002.70	1810.16	1685.51	1556.76	1466.63	1394.06
135.0	2632.99	2127.94	1890.92	1745.78	1632.84	1525.15	1456.68	1402.26	1340.81
180.0	2976.45	2976.45	2304.67	2038.98	1874.53	1741.69	1631.67	1522.81	1454.34
225.0	3645.43	3291.36	2912.14	2653.47	2436.35	2209.28	2055.37	1927.20	1812.50
270.0	4006.45	3544.12	3052.53	2970.60	2970.60	2229.77	1993.33	1835.32	1709.50
315.0	2769.34	2435.18	2171.24	1961.73	1760.42	1638.69	1544.47	1468.39	1393.48
360.0	3032.69	2630.06	2362.61	2136.71	1911.99	1772.12	1658.00	1564.95	1469.56
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1400.50	1344.32	1159.80	1159.80	1105.26	983.30	811.94	668.03	522.37
45.0	1742.27	1621.13	1537.44	1453.17	1306.28	1170.51	984.41	830.49	674.82
90.0	1274.09	1156.40	1156.40	1045.45	889.60	753.13	620.98	488.08	330.71
135.0	1297.50	1258.88	1210.30	1141.25	1047.61	926.47	756.17	612.20	469.99
180.0	1391.14	1337.30	1279.36	1233.13	1157.63	1020.11	891.36	715.79	572.99
225.0	1684.34	1595.97	1517.55	1340.22	1164.71	1128.14	977.68	825.64	636.78
270.0	1575.48	1487.12	1401.09	1317.40	1254.78	1146.51	1030.64	904.23	770.21
315.0	1344.32	1286.97	1162.08	1162.08	1122.05	1027.13	907.74	773.26	595.70
360.0	1400.50	1344.32	1159.80	1159.80	1105.26	983.30	811.94	668.03	522.37
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	351.37	234.38	138.00	67.83	50.56	43.77	36.81	32.83	29.32
45.0	530.27	358.22	297.94	297.94	98.55	79.77	68.47	59.99	52.44
90.0	224.38	138.82	88.84	67.48	58.87	51.03	45.71	41.32	36.75
135.0	334.81	303.21	170.30	58.58	42.49	37.10	33.47	29.90	28.32
180.0	433.71	305.55	305.55	91.88	56.42	44.95	37.10	32.95	29.38
225.0	494.69	330.83	223.85	144.38	103.06	89.13	77.19	67.59	57.06
270.0	605.77	478.77	356.46	300.28	300.28	87.78	70.87	61.27	52.20
315.0	454.66	324.98	211.27	107.39	59.81	44.18	37.63	33.65	30.49
360.0	351.37	234.38	138.00	67.83	50.56	43.77	36.81	32.83	29.32

Intensity data(cd)

Appendix Page: 19 Total:20

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	27.39	25.87	24.87	24.11	23.47	22.71	22.24	21.71	21.30
45.0	45.65	42.02	38.33	35.87	33.71	31.49	30.14	29.03	28.09
90.0	33.65	31.66	30.37	28.91	27.86	26.92	26.10	25.22	24.58
135.0	27.39	26.39	25.69	24.99	24.17	23.58	23.12	22.65	22.12
180.0	27.33	25.75	24.76	23.88	23.00	22.30	21.77	21.42	21.13
225.0	51.85	47.34	43.54	39.44	36.58	34.06	31.43	29.67	28.21
270.0	45.82	39.68	35.82	32.60	29.79	28.21	26.69	25.40	24.29
315.0	27.27	26.22	25.40	24.70	24.05	23.53	23.00	22.36	21.89
360.0	27.39	25.87	24.87	24.11	23.47	22.71	22.24	21.71	21.30
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.95	20.54	20.25	20.07	19.84	19.61	19.37	19.08	18.79
45.0	27.04	26.22	25.46	24.87	24.17	23.76	23.12	22.47	21.65
90.0	24.11	23.35	22.88	22.36	21.83	21.24	20.78	19.96	19.43
135.0	21.71	21.36	20.95	20.42	20.13	19.72	19.37	19.02	18.55
180.0	20.83	20.54	20.31	20.07	19.84	19.66	19.49	19.31	19.02
225.0	26.63	25.46	24.23	23.41	22.65	21.83	21.19	20.66	20.07
270.0	23.12	22.30	21.59	20.95	20.31	19.84	19.31	18.96	18.61
315.0	21.48	21.13	20.60	20.31	19.96	19.66	19.37	18.96	18.61
360.0	20.95	20.54	20.25	20.07	19.84	19.61	19.37	19.08	18.79
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.43	18.20	17.97	17.79	17.67	17.50	17.21	17.03	16.80
45.0	21.01	20.19	19.61	19.14	18.61	18.20	17.79	17.38	16.91
90.0	19.02	18.55	18.14	17.85	17.62	17.32	16.91	16.68	16.39
135.0	18.26	17.91	17.67	17.38	17.15	16.91	16.68	16.39	16.15
180.0	18.67	18.38	18.08	17.91	17.73	17.50	17.32	17.09	16.74
225.0	19.55	18.90	18.43	18.08	17.73	17.38	17.09	16.74	16.44
270.0	18.20	17.85	17.62	17.32	17.09	16.97	16.80	16.68	16.50
315.0	18.26	17.91	17.67	17.44	17.26	16.97	16.80	16.56	16.39
360.0	18.43	18.20	17.97	17.79	17.67	17.50	17.21	17.03	16.80
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.56	16.33	16.09	15.92	15.80	15.68	15.63	15.57	15.45
45.0	16.62	16.33	16.04	15.74	15.68	15.57	15.45	15.39	15.33
90.0	16.15	15.98	15.80	15.80	15.74	15.74	15.63	15.57	15.51
135.0	15.98	15.74	15.57	15.45	15.33	15.27	15.22	15.16	15.10
180.0	16.62	16.39	16.21	16.09	15.92	15.86	15.80	15.74	15.74
225.0	16.15	15.92	15.68	15.51	15.45	15.33	15.27	15.16	15.16
270.0	16.33	16.21	16.04	15.92	15.80	15.68	15.63	15.57	15.57
315.0	16.15	15.98	15.80	15.63	15.51	15.45	15.39	15.27	15.22
360.0	16.56	16.33	16.09	15.92	15.80	15.68	15.63	15.57	15.45
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.33	15.27	15.22	15.16	15.10	15.04	14.92	14.92	14.81
45.0	15.27	15.16	15.10	15.04	14.92	14.92	14.86	14.81	14.75
90.0	15.45	15.27	15.22	15.04	14.92	14.86	14.81	14.75	14.75
135.0	15.10	15.04	14.98	14.92	14.92	14.86	14.81	14.81	14.69
180.0	15.68	15.68	15.63	15.51	15.51	15.45	15.39	15.33	14.81
225.0	15.10	15.04	14.98	14.98	14.92	14.86	14.86	14.81	14.69
270.0	15.51	15.45	15.39	15.27	15.16	15.04	14.92	14.86	14.75
315.0	15.16	15.10	15.04	14.98	14.92	14.86	14.81	14.81	14.75
360.0	15.33	15.27	15.22	15.16	15.10	15.04	14.92	14.92	14.81

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	14.75
45.0	14.69
90.0	14.75
135.0	14.69
180.0	14.63
225.0	14.63
270.0	14.69
315.0	14.69
360.0	14.75