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Nata

Client:

LumCAT: 1653-S

Luminaire: 92.70.044.00

Report No: NT2017090103

Test No: nata-0100

LampCAT: LUMILEDS 1202S

Lamp flux(lm): 1314.0

Number of Lamps: 1

Length(mm): 31

Phm Type: C

Voltage(V): 39.1000

Current(A): 0.3500

Power (W): 13.6850

PF: 0.0000

Ballast type: DC

Width(mm): 31

Height(mm):0

Photometric Results

Lumens(lm): 1177.78, Efficiency(%): 89.63% , Luminous Efficacy(lm/W): 86.06

Central intensity(cd): 8108.155, Maximum intensity(cd): 8108.155

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=16.2

[C90/270]Total=16.2

Field angle(10%Imax): [C0/180]Total=35.4

[C90/270]Total=35.4

Maximum s/h(1/2): C0_180=0.28 C90_270=0.28

Maximum s/h(1/4): C0_180=0.28 C90_270=0.28

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.78%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.952%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/9/1
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8108.156	1.940	1.94	.148%	.165%
1.0	8047.663	15.402	17.342	1.172%	1.472%
2.0	7819.867	29.927	47.269	2.278%	4.013%
3.0	7471.360	42.880	90.149	3.263%	7.654%
4.0	7010.951	53.631	143.78	4.081%	12.208%
5.0	6394.319	61.114	204.894	4.651%	17.397%
6.0	5673.700	65.036	269.93	4.949%	22.918%
7.0	4907.039	65.579	335.509	4.991%	28.486%
8.0	4133.772	63.089	398.598	4.801%	33.843%
9.0	3400.765	58.339	456.937	4.440%	38.796%
10.0	2767.685	52.703	509.64	4.011%	43.271%
11.0	2247.196	47.021	556.661	3.578%	47.263%
12.0	1855.538	42.306	598.967	3.220%	50.855%
13.0	1529.949	37.741	636.709	2.872%	54.060%
14.0	1277.453	33.890	670.599	2.579%	56.937%
15.0	1101.066	31.251	701.849	2.378%	59.591%
16.0	984.725	29.765	731.614	2.265%	62.118%
17.0	870.655	27.915	759.529	2.124%	64.488%
18.0	782.833	26.528	786.057	2.019%	66.740%
19.0	714.804	25.520	811.577	1.942%	68.907%
20.0	656.692	24.630	836.207	1.874%	70.998%
21.0	608.181	23.901	860.108	1.819%	73.028%
22.0	571.960	23.496	883.604	1.788%	75.023%
23.0	542.636	23.251	906.855	1.769%	76.997%
24.0	514.151	22.933	929.787	1.745%	78.944%
25.0	491.523	22.779	952.567	1.734%	80.878%
26.0	474.497	22.810	975.377	1.736%	82.815%
27.0	458.923	22.847	998.224	1.739%	84.755%
28.0	439.887	22.647	1020.871	1.723%	86.677%
29.0	409.957	21.795	1042.666	1.659%	88.528%
30.0	371.349	20.361	1063.027	1.550%	90.257%
31.0	324.220	18.312	1081.339	1.394%	91.811%
32.0	280.464	16.298	1097.637	1.240%	93.195%
33.0	232.407	13.881	1111.518	1.056%	94.374%
34.0	174.887	10.724	1122.242	.816%	95.284%
35.0	126.857	7.979	1130.221	.607%	95.962%
36.0	85.489	5.510	1135.732	.419%	96.430%
37.0	52.255	3.449	1139.18	.262%	96.722%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	26.847	1.813	1140.993	.138%	96.876%
39.0	15.629	1.079	1142.072	.082%	96.968%
40.0	13.916	0.981	1143.052	.075%	97.051%
41.0	12.622	0.908	1143.96	.069%	97.128%
42.0	11.211	0.823	1144.783	.063%	97.198%
43.0	9.828	0.735	1145.518	.056%	97.261%
44.0	8.658	0.660	1146.178	.050%	97.317%
45.0	7.625	0.591	1146.769	.045%	97.367%
46.0	6.861	0.541	1147.31	.041%	97.413%
47.0	6.600	0.529	1147.839	.040%	97.458%
48.0	6.600	0.538	1148.377	.041%	97.503%
49.0	6.593	0.546	1148.923	.042%	97.550%
50.0	6.579	0.553	1149.476	.042%	97.597%
51.0	6.607	0.563	1150.039	.043%	97.644%
52.0	6.607	0.571	1150.61	.043%	97.693%
53.0	6.621	0.580	1151.189	.044%	97.742%
54.0	6.648	0.590	1151.779	.045%	97.792%
55.0	6.662	0.598	1152.378	.046%	97.843%
56.0	6.682	0.608	1152.985	.046%	97.895%
57.0	6.717	0.618	1153.603	.047%	97.947%
58.0	6.744	0.627	1154.23	.048%	98.000%
59.0	6.772	0.637	1154.867	.048%	98.054%
60.0	6.793	0.645	1155.512	.049%	98.109%
61.0	6.820	0.654	1156.166	.050%	98.165%
62.0	6.855	0.664	1156.83	.051%	98.221%
63.0	6.861	0.670	1157.5	.051%	98.278%
64.0	6.799	0.670	1158.17	.051%	98.335%
65.0	6.758	0.672	1158.842	.051%	98.392%
66.0	6.813	0.683	1159.524	.052%	98.450%
67.0	6.889	0.695	1160.22	.053%	98.509%
68.0	7.013	0.713	1160.933	.054%	98.569%
69.0	7.206	0.738	1161.67	.056%	98.632%
70.0	7.584	0.782	1162.452	.059%	98.698%
71.0	8.162	0.846	1163.298	.064%	98.770%
72.0	8.706	0.908	1164.206	.069%	98.847%
73.0	9.201	0.965	1165.171	.073%	98.929%
74.0	9.690	1.021	1166.193	.078%	99.016%
75.0	9.621	1.019	1167.212	.078%	99.102%

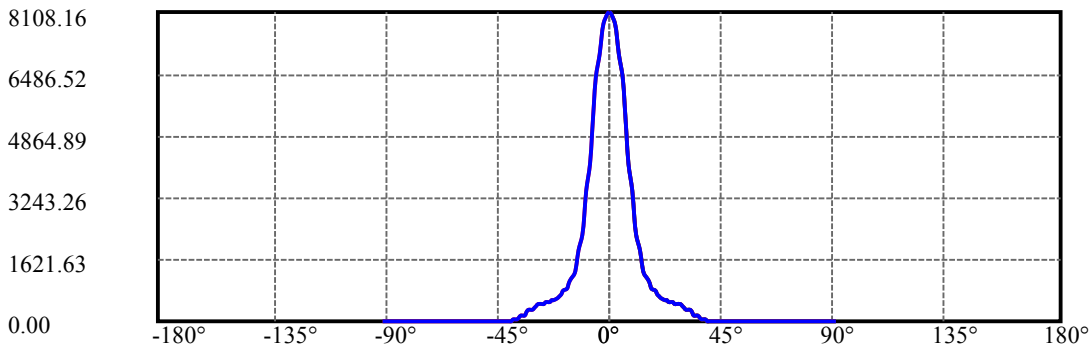
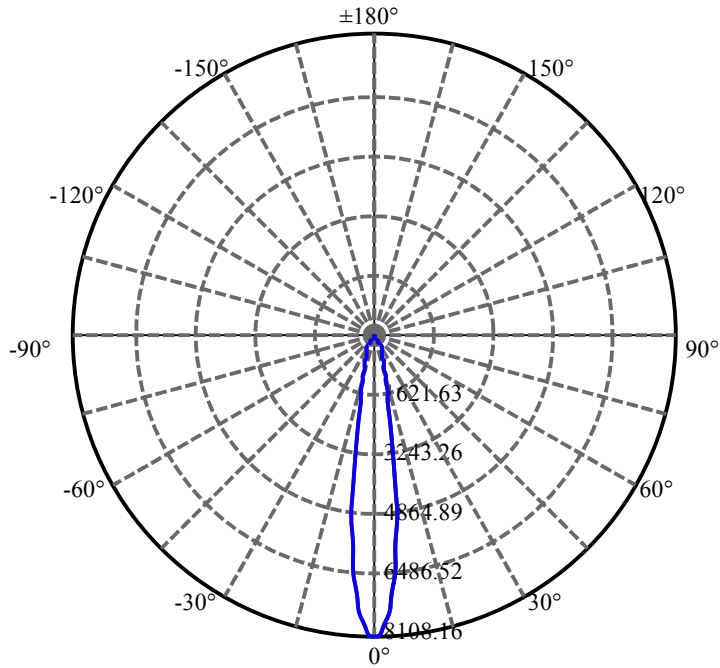
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.724	1.035	1168.246	.079%	99.190%
77.0	9.442	1.009	1169.255	.077%	99.276%
78.0	8.541	0.916	1170.171	.070%	99.354%
79.0	7.123	0.767	1170.938	.058%	99.419%
80.0	6.559	0.708	1171.647	.054%	99.479%
81.0	6.462	0.700	1172.346	.053%	99.538%
82.0	6.490	0.705	1173.051	.054%	99.598%
83.0	6.510	0.709	1173.76	.054%	99.658%
84.0	6.483	0.707	1174.467	.054%	99.718%
85.0	6.455	0.705	1175.172	.054%	99.778%
86.0	6.022	0.659	1175.831	.050%	99.834%
87.0	5.568	0.610	1176.44	.046%	99.886%
88.0	4.928	0.540	1176.981	.041%	99.932%
89.0	4.872	0.534	1177.515	.041%	99.977%
90.0	4.893	0.268	1177.783	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1063.03	80.90%	90.26%
0-40	1143.05	86.99%	97.05%
0-60	1155.51	87.94%	98.11%
0-90	1177.51	89.61%	99.98%
0-120	1177.51	89.61%	99.98%
0-180	1177.78	89.63%	100.00%
60-90	22.65	1.72%	1.92%
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%
0-24.55	942.23	71.71%	80.00%

ZONAL LUMEN SUMMARY

0-10	509.64
10-20	326.57
20-30	226.82
30-40	80.03
40-50	6.42
50-60	6.04
60-70	6.94
70-80	9.19
80-90	5.87
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



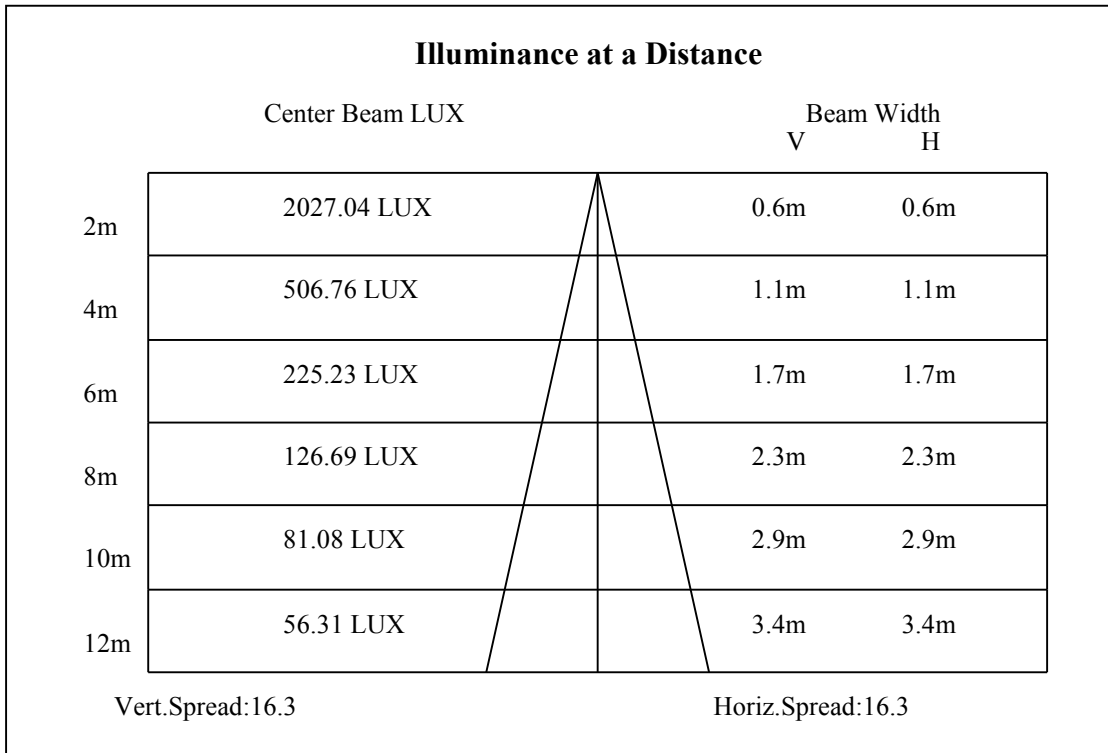
C0(Max): —————

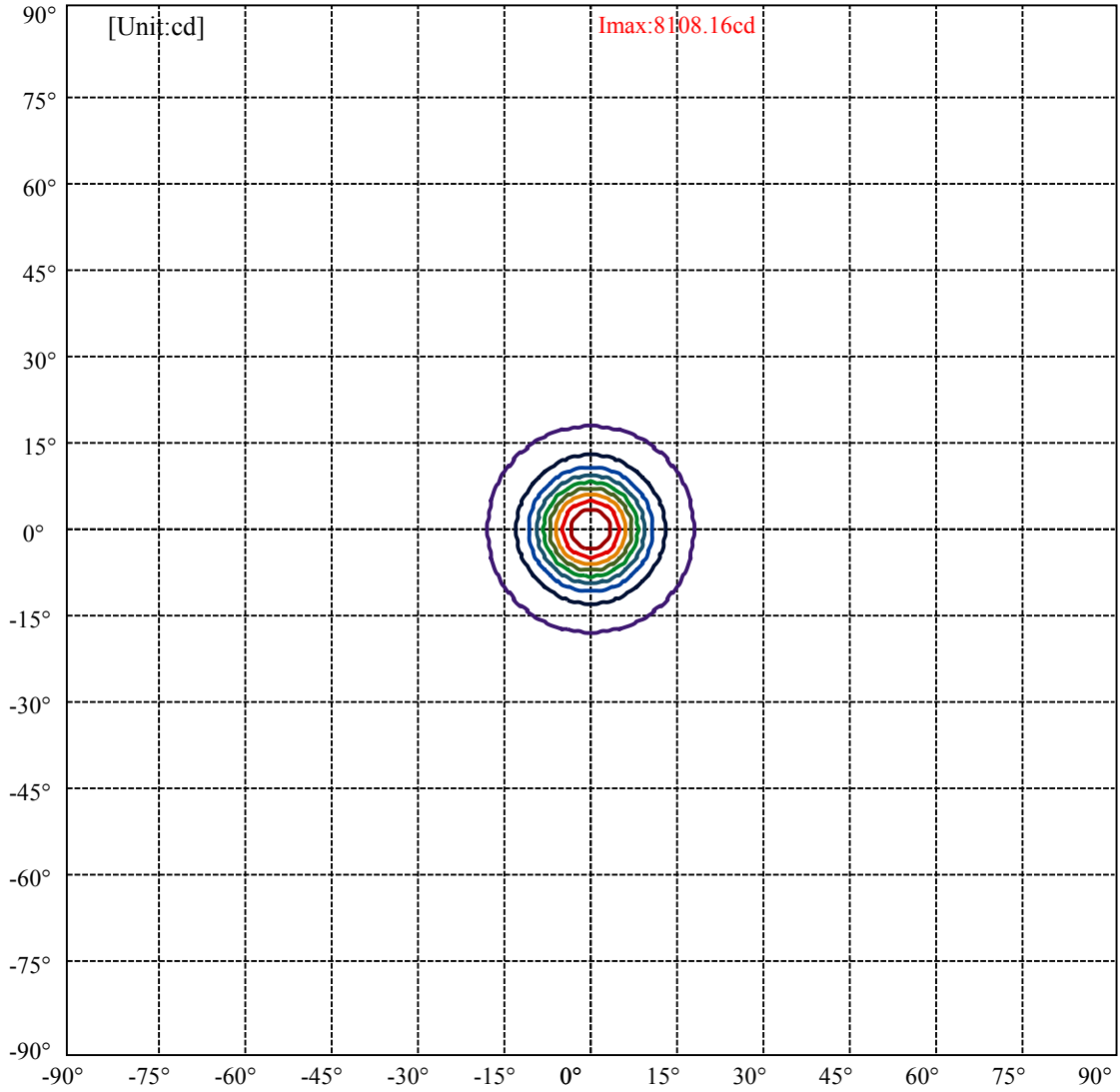
C0/C180: —————

C90/C270: —————

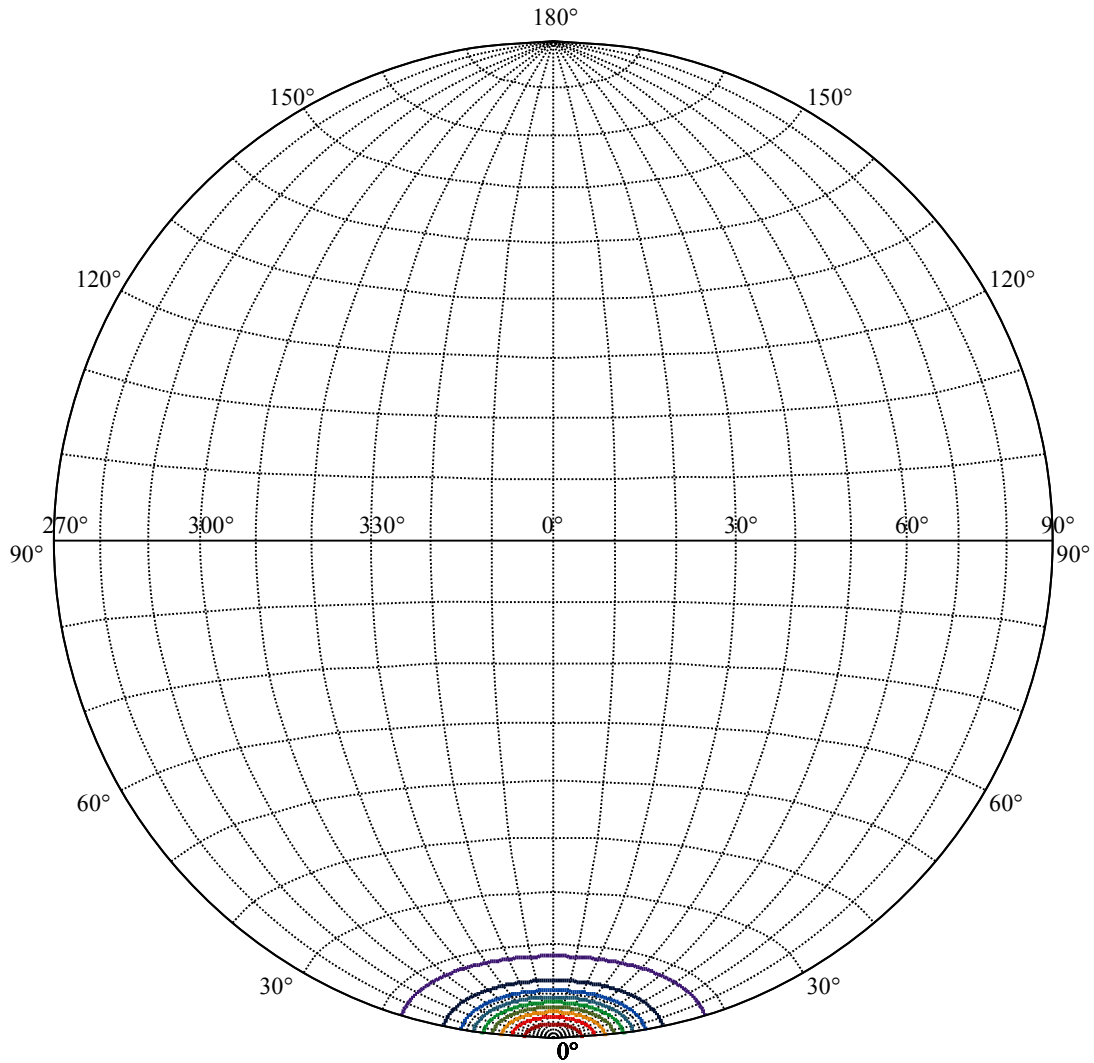
Field angle(10%Imax):C0/180Left:17.7 Right:17.7
:C90/270Left:17.7 Right:17.7

Beam Angle(50%Imax):C0/180Left:8.1 Right:8.1
:C90/270Left:8.1 Right:8.1





(10%Imax) 810.816	—
(20%Imax) 1621.63	—
(30%Imax) 2432.45	—
(40%Imax) 3243.26	—
(50%Imax) 4054.08	—
(60%Imax) 4864.89	—
(70%Imax) 5675.71	—
(80%Imax) 6486.52	—
(90%Imax) 7297.34	—



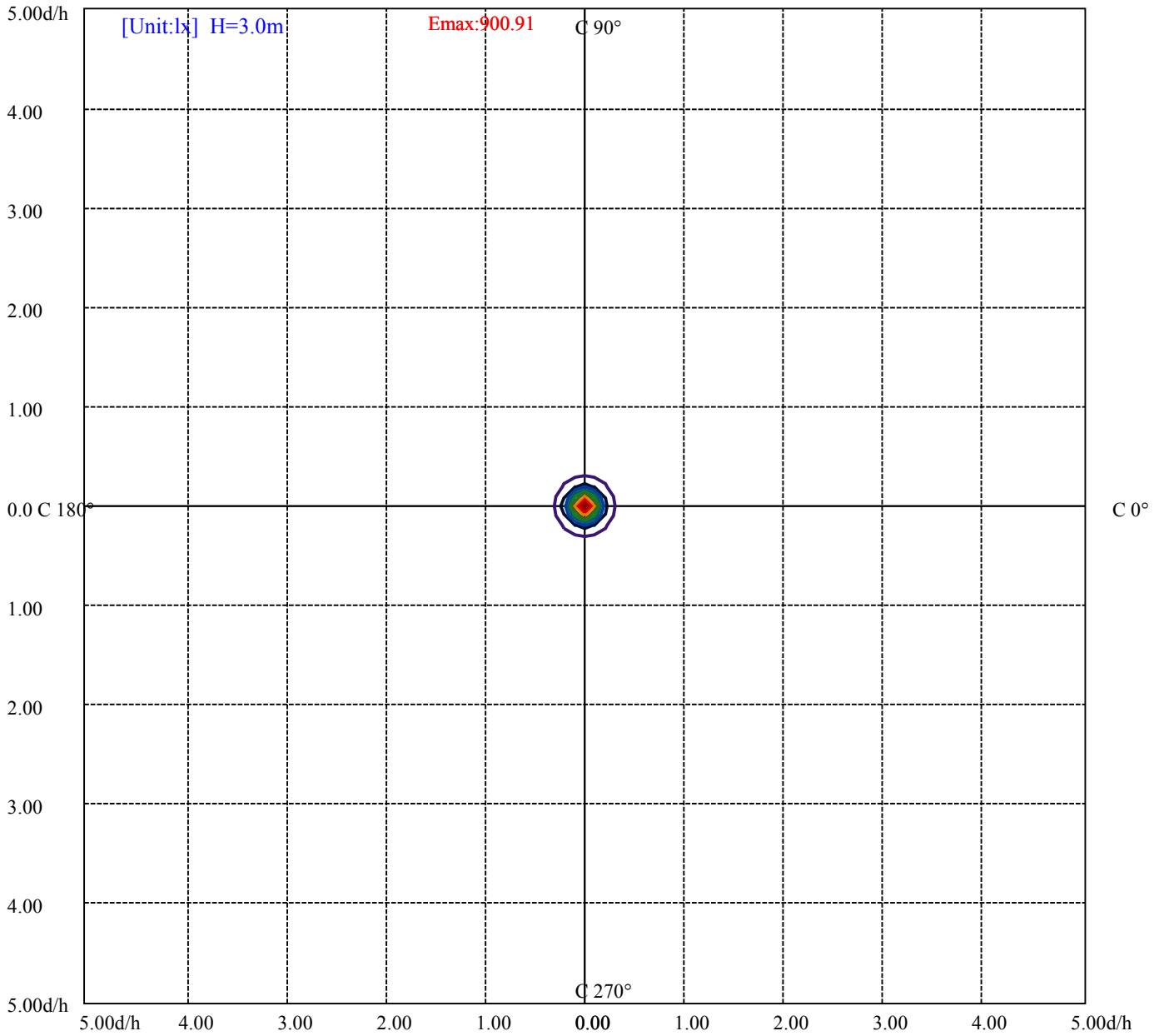
House

[Unit:cd]

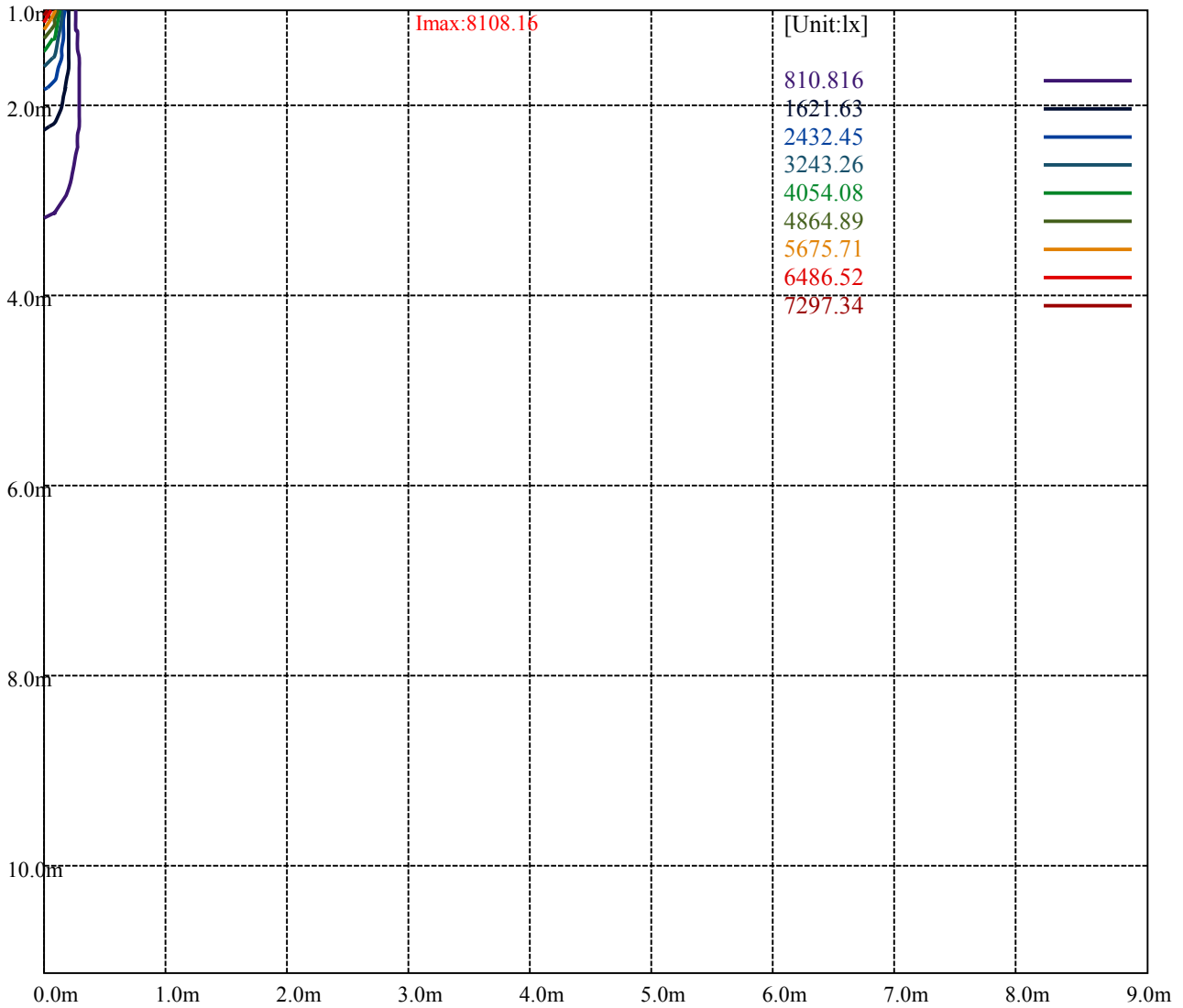
Road

Imax:8108.16

(10%Imax)	810.816	—
(20%Imax)	1621.63	—
(30%Imax)	2432.45	—
(40%Imax)	3243.26	—
(50%Imax)	4054.08	—
(60%Imax)	4864.89	—
(70%Imax)	5675.71	—
(80%Imax)	6486.52	—
(90%Imax)	7297.34	—



- (10%Emax) 90.09055
- (20%Emax) 180.1811
- (30%Emax) 270.2711
- (40%Emax) 360.3622
- (50%Emax) 450.4522
- (60%Emax) 540.5433
- (70%Emax) 630.6334
- (80%Emax) 720.7244
- (90%Emax) 810.8145



Luminance Table

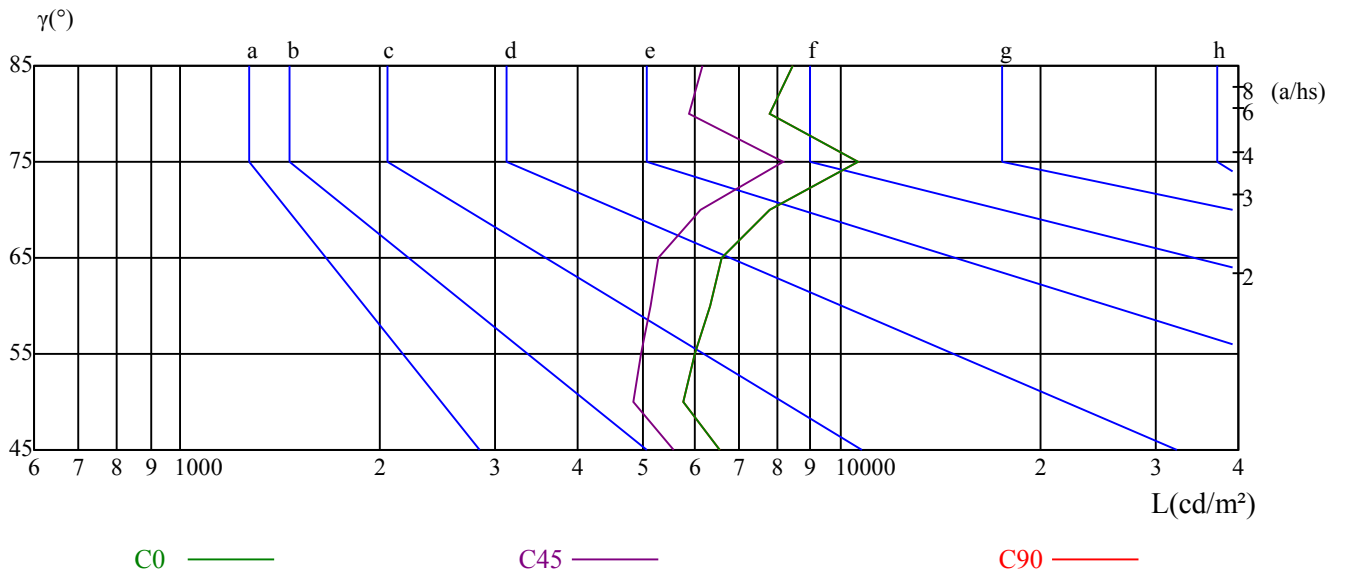
γ	45	50	55	60	65	70	75	80	85
C0	6563	5770	6002	6342	6598	7822	10602	7822	8459
C45	5601	4850	4967	5162	5279	6141	8151	5873	6180
C90	6563	5770	6002	6342	6598	7822	10602	7822	8459

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
16640	16640	16640	38682	38682	38682	77073	77073	77073

Glare Table

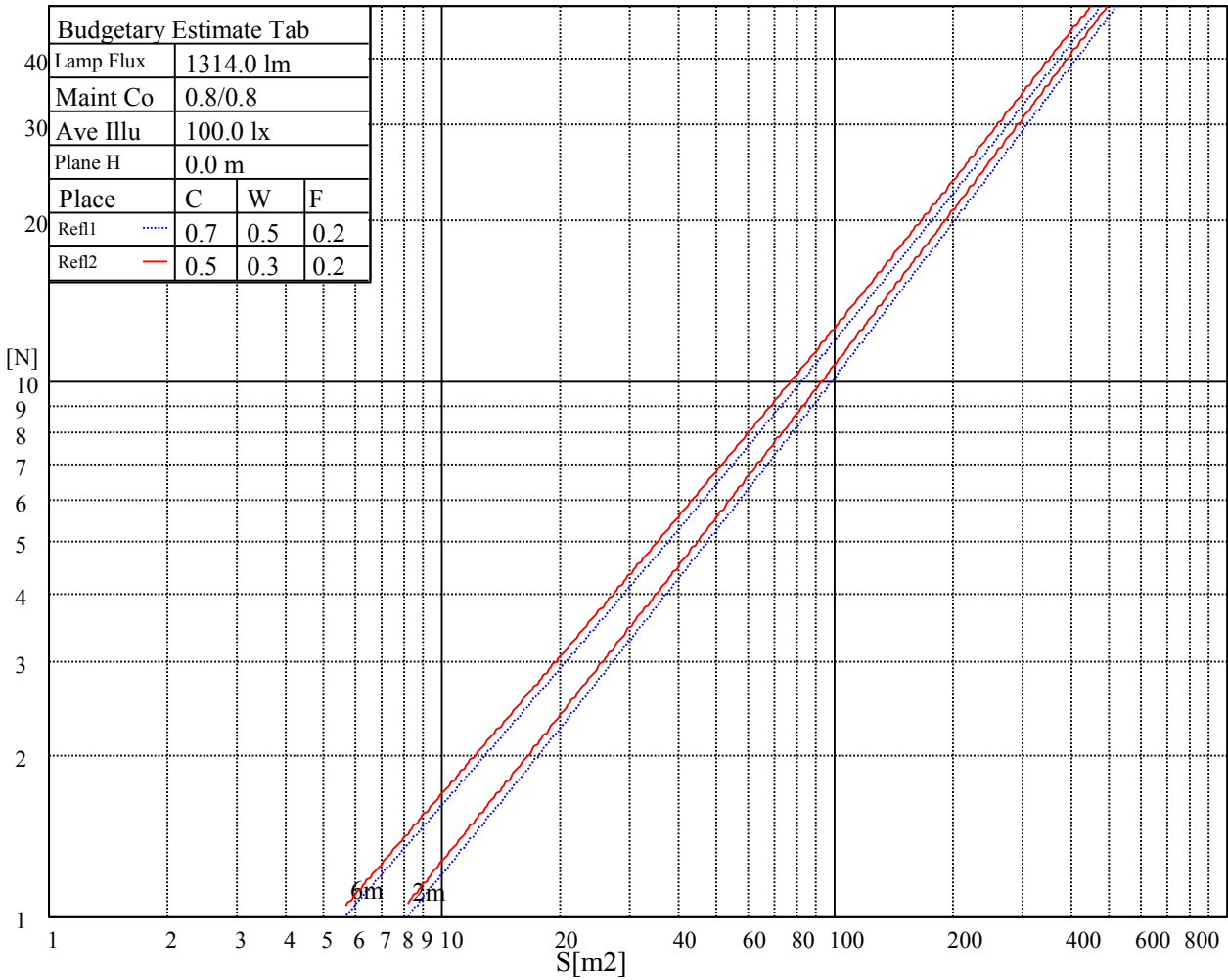
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

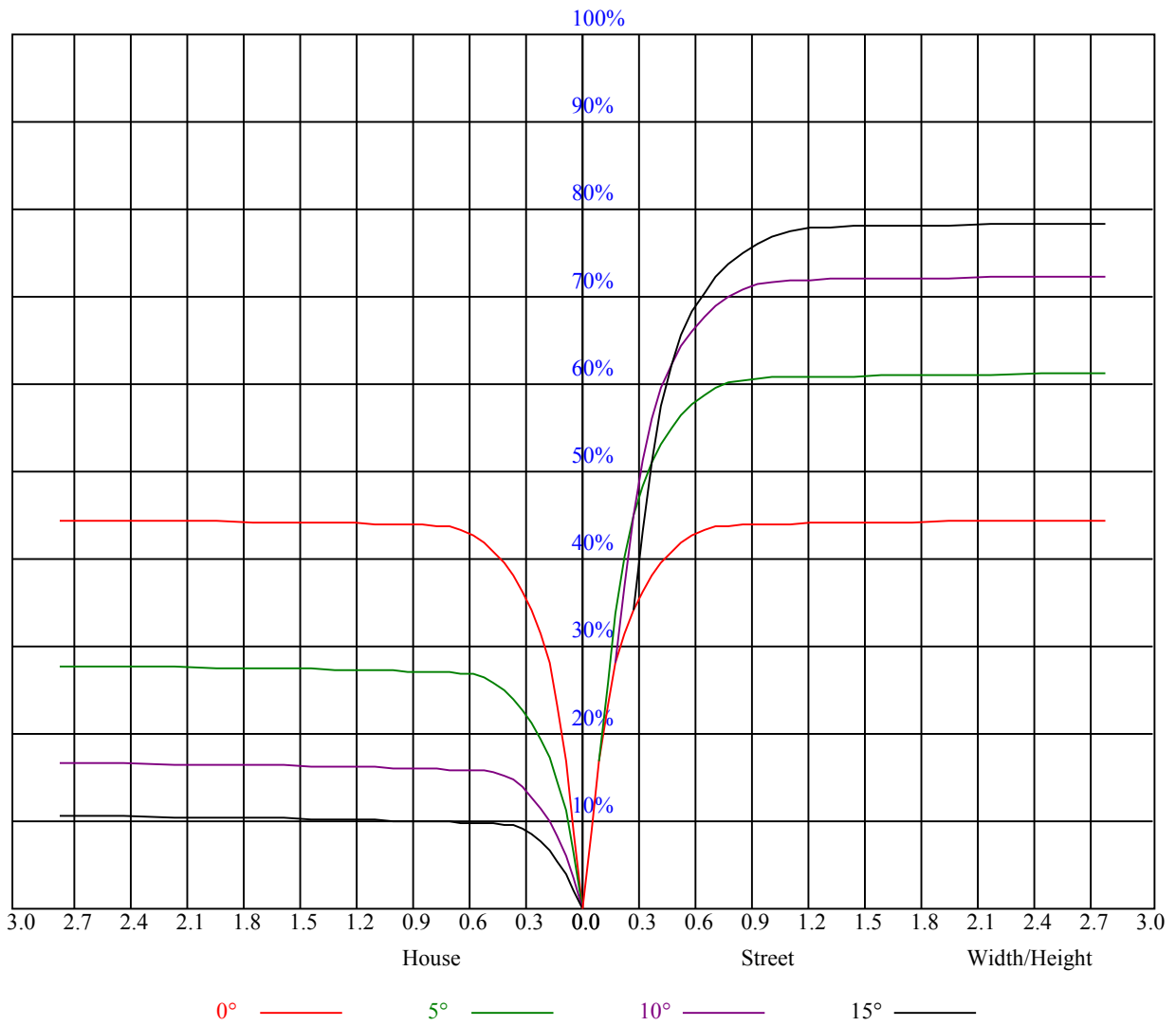


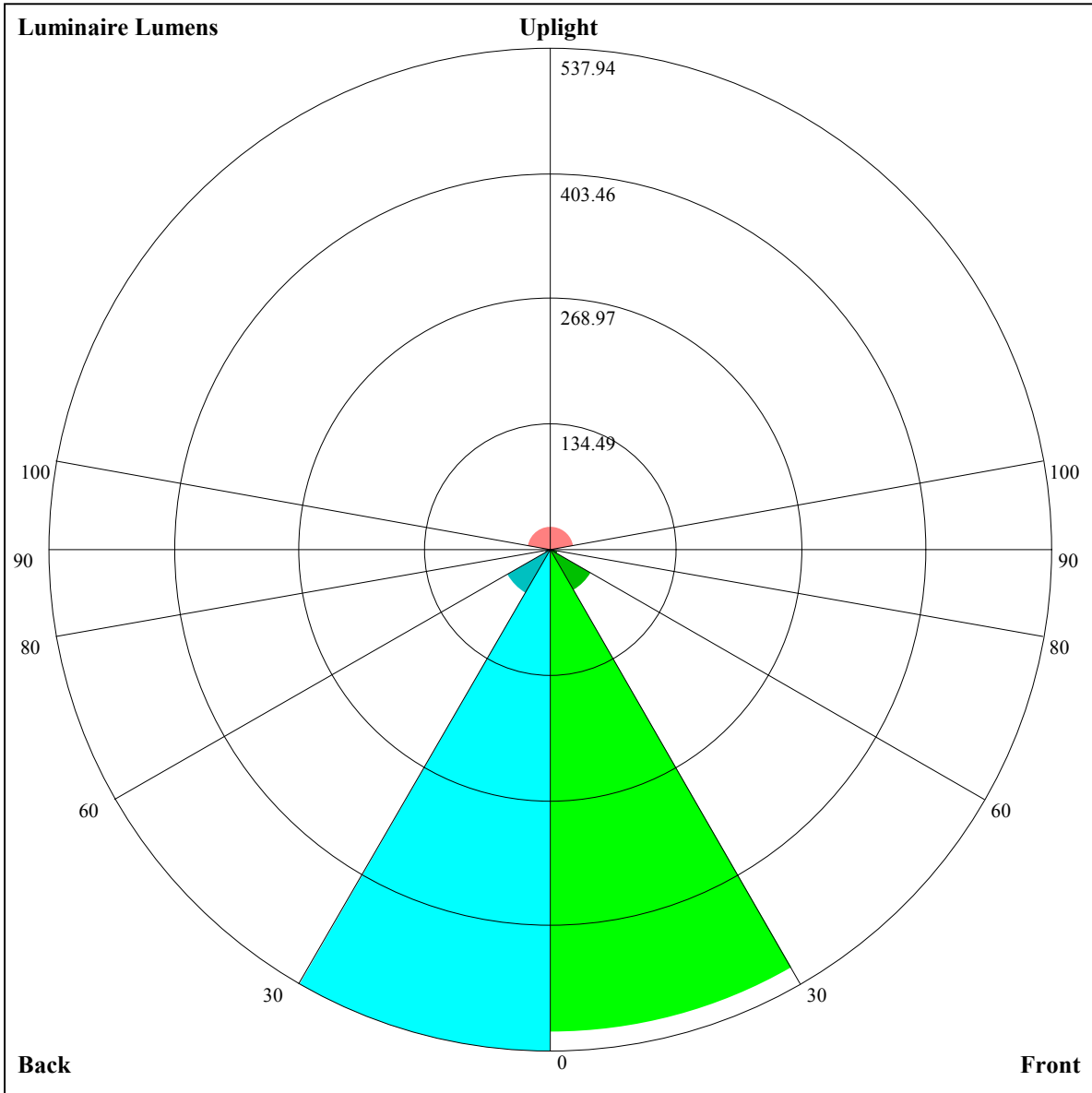
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.90	16.82	16.26	17.13	17.45	15.28	16.21	15.64	16.52	16.83
	3H	16.40	17.22	16.79	17.56	17.91	15.53	16.36	15.92	16.69	17.04
	4H	17.57	18.33	17.97	18.69	19.06	15.90	16.66	16.30	17.02	17.39
	6H	18.42	19.12	18.84	19.50	19.90	16.39	17.09	16.81	17.47	17.87
	8H	18.58	19.25	19.01	19.64	20.05	16.64	17.31	17.06	17.70	18.10
	12H	18.78	19.41	19.21	19.81	20.23	16.93	17.56	17.36	17.96	18.38
4H	2H	15.71	16.47	16.11	16.83	17.19	15.12	15.88	15.52	16.23	16.60
	3H	16.51	17.16	16.94	17.55	17.97	15.61	16.25	16.03	16.65	17.07
	4H	18.05	18.61	18.49	19.03	19.48	16.28	16.84	16.72	17.27	17.72
	6H	19.01	19.51	19.49	19.96	20.41	16.94	17.43	17.41	17.88	18.34
	8H	19.27	19.73	19.76	20.19	20.66	17.33	17.78	17.81	18.24	18.72
	12H	19.58	20.00	20.07	20.46	20.98	17.77	18.19	18.26	18.64	19.16
8H	4H	18.17	18.63	18.66	19.09	19.56	16.60	17.05	17.08	17.51	17.99
	6H	19.22	19.59	19.72	20.07	20.58	17.38	17.75	17.89	18.23	18.75
	8H	19.62	19.93	20.16	20.46	20.95	17.94	18.25	18.47	18.77	19.27
	12H	20.07	20.31	20.62	20.83	21.35	18.53	18.77	19.08	19.29	19.81
12H	4H	18.16	18.58	18.65	19.03	19.55	16.63	17.05	17.12	17.50	18.02
	6H	19.28	19.59	19.81	20.11	20.61	17.51	17.82	18.05	18.35	18.84
	8H	19.70	19.94	20.24	20.45	20.98	18.10	18.34	18.65	18.86	19.38
Variation with the observer position at spacings:											
S = 1.0H	5.2/-4.3					5.2/-4.3					
S = 1.5H	6.7/-2.5					6.7/-2.5					
S = 2.0H	8.0/-1.9					8.0/-1.9					
Standard tables:	BK3					BK3					
Uncorrected UGR	0.1					0.1					

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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.96	0.93	0.90	0.94	0.92	0.89	0.91	0.89	0.87	0.89	0.87	0.86	0.86	0.85	0.84	0.82
3	0.91	0.88	0.85	0.90	0.87	0.85	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.82	0.80	0.78	0.77
5	0.84	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
9	0.74	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.67
10	0.72	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65





Luminaire Lumens:

FL=517.46,FM=50.17,FH=8.74,FVH=3.36

BL=537.94,BM=54.13,BH=6.96,BVH=3.14

UL=5.34,UH=25.41

BUG Rating:B2-U2-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	8096.59	8031.63	7791.58	7461.24	6921.69	6344.15	5583.82	4767.33	4054.35
45.0	8132.93	8042.09	7733.77	7347.83	6860.58	6208.16	5422.50	4668.23	3871.57
90.0	8119.17	8006.30	7681.47	7323.05	6829.20	6066.11	5420.85	4583.45	3688.23
135.0	8083.93	8092.74	7945.74	7698.54	7252.58	6682.20	6053.45	5253.48	4516.28
180.0	8096.59	8051.45	7878.57	7499.23	7063.74	6514.82	5694.48	4963.89	4227.23
225.0	8132.93	8113.66	7942.44	7627.51	7230.01	6650.81	5938.93	5244.12	4432.04
270.0	8119.17	8094.94	7889.03	7595.58	7209.09	6574.28	5941.14	5247.98	4455.71
315.0	8083.93	7948.49	7696.33	7217.89	6720.73	6114.01	5334.41	4527.84	3824.77
360.0	8096.59	8031.63	7791.58	7461.24	6921.69	6344.15	5583.82	4767.33	4054.35
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3313.29	2672.44	2205.01	1838.33	1483.77	1274.56	1115.99	968.44	856.68
45.0	3147.02	2587.10	2075.08	1721.06	1431.47	1210.69	1063.69	944.77	829.15
90.0	3125.00	2502.86	1963.31	1668.21	1408.89	1091.82	1023.33	909.37	819.29
135.0	3721.81	2998.37	2452.21	2011.21	1596.09	1349.43	1168.30	994.87	886.96
180.0	3370.00	2786.40	2288.14	1817.41	1532.22	1311.99	1067.82	990.35	872.53
225.0	3733.93	3028.10	2442.30	2023.32	1651.69	1384.12	1090.06	1057.58	912.50
270.0	3684.92	3065.54	2480.29	2065.17	1691.33	1414.40	1227.76	1062.59	932.66
315.0	3110.14	2500.66	2071.22	1699.59	1444.13	1182.61	1051.58	949.83	855.47
360.0	3313.29	2672.44	2205.01	1838.33	1483.77	1274.56	1115.99	968.44	856.68
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	777.95	706.37	649.67	608.92	569.83	541.75	515.33	491.65	475.14
45.0	752.62	689.31	628.19	589.65	558.82	529.09	505.42	486.70	470.73
90.0	727.79	667.39	619.71	572.53	542.69	518.03	493.80	474.92	460.88
135.0	800.52	719.59	659.03	617.18	576.44	548.91	518.63	492.20	474.04
180.0	789.07	713.86	661.89	613.27	572.64	542.75	513.73	489.12	471.06
225.0	822.54	753.61	692.72	628.58	589.76	557.01	522.71	498.32	481.03
270.0	837.96	763.63	688.76	638.65	597.36	561.58	531.29	508.72	487.80
315.0	754.22	704.67	653.57	596.65	568.13	541.98	512.30	490.55	475.30
360.0	777.95	706.37	649.67	608.92	569.83	541.75	515.33	491.65	475.14
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	461.92	438.80	406.32	368.33	312.72	282.44	215.05	163.08	116.17
45.0	458.62	433.84	394.75	354.56	302.81	283.54	198.15	151.96	100.53
90.0	445.68	426.47	389.63	344.16	299.78	246.93	194.68	149.48	107.86
135.0	455.32	439.90	418.98	384.84	333.09	287.94	282.44	189.67	139.57
180.0	455.92	436.98	411.05	375.59	328.08	277.15	231.29	178.77	130.32
225.0	464.24	449.98	427.73	390.74	353.24	304.63	253.26	207.45	155.20
270.0	470.18	454.77	429.99	397.51	354.01	305.01	281.89	202.28	151.96
315.0	459.50	438.36	401.20	355.06	310.02	256.07	202.50	156.42	113.25
360.0	461.92	438.80	406.32	368.33	312.72	282.44	215.05	163.08	116.17
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	79.34	44.93	24.11	14.92	13.49	12.39	11.18	9.91	8.92
45.0	66.45	36.01	19.55	14.53	13.43	12.17	10.41	9.25	8.26
90.0	63.59	36.61	20.10	14.65	13.27	11.89	10.30	8.86	7.82
135.0	99.60	67.00	29.40	16.24	14.37	12.72	11.18	9.86	8.37
180.0	90.95	53.40	27.75	15.14	13.54	12.28	10.96	9.25	8.09
225.0	107.25	69.43	38.70	16.79	14.53	13.32	11.95	10.46	9.19
270.0	109.73	72.67	35.51	18.06	15.09	13.65	12.39	11.07	9.69
315.0	67.00	37.99	19.66	14.70	13.60	12.55	11.34	9.97	8.92
360.0	79.34	44.93	24.11	14.92	13.49	12.39	11.18	9.91	8.92

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	8.15	7.38	7.32	7.27	7.32	7.32	7.32	7.38	7.32
45.0	7.32	6.72	6.72	6.77	6.77	6.77	6.77	6.77	6.77
90.0	6.83	6.17	6.06	6.06	6.06	6.06	6.11	6.11	6.17
135.0	7.10	6.44	5.95	5.89	5.89	5.84	5.84	5.84	5.95
180.0	7.10	6.22	6.06	6.06	6.06	6.00	6.06	6.00	6.00
225.0	7.93	6.88	6.33	6.39	6.33	6.33	6.33	6.33	6.33
270.0	8.48	7.60	6.94	6.94	6.94	6.94	6.99	6.99	6.94
315.0	8.09	7.49	7.43	7.43	7.38	7.38	7.43	7.43	7.49
360.0	8.15	7.38	7.32	7.27	7.32	7.32	7.32	7.38	7.32
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.38	7.38	7.43	7.49	7.54	7.54	7.49	7.54	7.60
45.0	6.83	6.83	6.83	6.94	6.99	6.99	6.99	6.99	7.05
90.0	6.11	6.11	6.11	6.17	6.22	6.28	6.28	6.28	6.28
135.0	5.95	5.95	5.89	5.95	5.95	6.00	6.06	6.06	6.06
180.0	6.06	6.11	6.17	6.17	6.17	6.17	6.22	6.28	6.28
225.0	6.44	6.44	6.44	6.44	6.44	6.50	6.55	6.61	6.66
270.0	6.94	6.99	7.05	7.05	7.10	7.10	7.10	7.10	7.21
315.0	7.49	7.49	7.54	7.54	7.54	7.60	7.65	7.71	7.71
360.0	7.38	7.38	7.43	7.49	7.54	7.54	7.49	7.54	7.60
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.60	7.71	7.71	7.82	7.82	8.48	9.36	10.46	12.33
45.0	7.10	7.10	7.10	7.16	7.16	7.21	7.27	7.65	8.37
90.0	6.33	6.33	6.44	6.39	6.39	6.44	6.44	6.44	6.44
135.0	6.06	6.11	6.17	6.17	6.17	6.17	6.22	6.22	6.22
180.0	6.33	6.39	6.39	6.44	6.44	6.44	6.50	6.50	6.55
225.0	6.66	6.72	6.72	6.77	6.83	6.77	6.77	6.77	6.77
270.0	7.21	7.21	7.21	7.21	7.21	7.27	7.27	7.32	7.87
315.0	7.60	6.83	6.33	6.55	7.10	7.32	7.82	9.30	10.74
360.0	7.60	7.71	7.71	7.82	7.82	8.48	9.36	10.46	12.33
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.49	14.37	15.64	16.02	15.75	14.87	13.05	10.35	7.76
45.0	9.25	9.80	9.86	9.19	9.25	8.92	7.05	6.17	6.17
90.0	6.44	6.44	6.50	6.88	7.38	7.32	6.44	6.33	6.28
135.0	6.06	6.06	5.89	5.84	5.78	5.78	5.78	5.73	5.67
180.0	6.55	6.55	6.50	6.50	6.94	7.16	6.94	6.33	6.33
225.0	6.88	6.99	7.71	8.86	9.86	10.41	9.97	7.65	6.61
270.0	8.75	9.74	10.79	8.53	7.43	6.33	6.22	6.17	6.11
315.0	12.22	13.65	14.65	15.14	15.42	14.76	12.88	8.26	7.54
360.0	13.49	14.37	15.64	16.02	15.75	14.87	13.05	10.35	7.76
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.16	7.16	7.10	6.99	6.88	6.83	6.72	4.96	4.79
45.0	6.17	6.28	6.39	6.33	6.33	6.22	5.01	4.96	4.90
90.0	6.22	6.22	6.22	6.17	6.00	4.96	4.90	4.90	4.90
135.0	5.62	5.62	5.67	5.73	5.73	5.07	4.90	4.90	4.84
180.0	6.33	6.28	6.33	6.28	6.28	4.90	4.84	4.84	4.79
225.0	6.55	6.50	6.55	6.50	6.50	6.44	5.07	4.96	4.90
270.0	6.17	6.33	6.33	6.44	6.55	6.50	6.39	4.96	4.96
315.0	7.49	7.54	7.49	7.43	7.38	7.27	6.72	4.96	4.90
360.0	7.16	7.16	7.10	6.99	6.88	6.83	6.72	4.96	4.79

Intensity data(cd)

C/ γ (°)	90.0
0.0	4.84
45.0	4.96
90.0	4.90
135.0	4.84
180.0	4.84
225.0	4.96
270.0	4.90
315.0	4.90
360.0	4.84