NATA LIGHTING CO.,LTD.
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Tel:+86 571 85021543 Fax:+86 571 87977635
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 61-0261
Luminaire: 92.70.427.00
Report No: 20250630-B001
Ballast type: AC
Test No: 20250630-C001
LampCAT: LUMINUS CXM-9
Lamp flux(lm): 1507.0
Number of Lamps: 1
Length(mm): 50
Phm Type: C

Voltage(V): 33.650
Current(A): 0.360
Power (W): 12.110
PF: 0.000
Width(mm): 50
Height(mm): 24

Photometric Results

Lumens(lm): 1295.37, Efficiency(%): 85.96% , Luminous Efficacy(lm/W): 106.97
Central intensity(cd): 5812.049, Maximum intensity(cd): 5812.049
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.8
[C90/270]Total=25.8
Field angle(10%Imax): [C0/180]Total=44.6
[C90/270]Total=44.6
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.96%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.736%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5812.050	0.000	0	0.00%	0.00%
1.0	5793.862	5.553	5.553	0.37%	0.43%
2.0	5718.981	16.524	22.078	1.10%	1.70%
3.0	5616.234	27.110	49.188	1.80%	3.80%
4.0	5474.022	37.123	86.31	2.46%	6.66%
5.0	5274.705	46.240	132.551	3.07%	10.23%
6.0	5065.917	54.343	186.893	3.61%	14.43%
7.0	4803.663	61.260	248.154	4.07%	19.16%
8.0	4514.022	66.685	314.839	4.43%	24.30%
9.0	4202.213	70.640	385.479	4.69%	29.76%
10.0	3872.421	73.072	458.551	4.85%	35.40%
11.0	3536.795	74.033	532.585	4.91%	41.11%
12.0	3196.228	73.602	606.186	4.88%	46.80%
13.0	2855.660	71.821	678.007	4.77%	52.34%
14.0	2525.251	68.875	746.882	4.57%	57.66%
15.0	2162.487	64.355	811.238	4.27%	62.63%
16.0	1856.813	58.894	870.132	3.91%	67.17%
17.0	1590.262	53.680	923.812	3.56%	71.32%
18.0	1356.436	48.585	972.396	3.22%	75.07%
19.0	1128.039	43.225	1015.621	2.87%	78.40%
20.0	931.983	37.704	1053.325	2.50%	81.31%
21.0	769.530	32.672	1085.998	2.17%	83.84%
22.0	622.054	27.964	1113.962	1.86%	86.00%
23.0	503.212	23.611	1137.573	1.57%	87.82%
24.0	403.067	19.815	1157.388	1.31%	89.35%
25.0	310.382	16.222	1173.61	1.08%	90.60%
26.0	248.034	13.181	1186.792	0.87%	91.62%
27.0	204.588	11.073	1197.865	0.73%	92.47%
28.0	163.736	9.325	1207.19	0.62%	93.19%
29.0	145.445	8.089	1215.279	0.54%	93.82%
30.0	102.671	6.699	1221.978	0.44%	94.33%
31.0	85.430	5.235	1227.213	0.35%	94.74%
32.0	70.962	4.480	1231.693	0.30%	95.08%
33.0	60.783	3.881	1235.575	0.26%	95.38%
34.0	51.799	3.407	1238.982	0.23%	95.65%
35.0	44.441	2.989	1241.971	0.20%	95.88%
36.0	39.129	2.661	1244.631	0.18%	96.08%
37.0	34.242	2.393	1247.024	0.16%	96.27%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	30.577	2.164	1249.188	0.14%	96.43%
39.0	27.344	1.977	1251.165	0.13%	96.59%
40.0	24.887	1.822	1252.987	0.12%	96.73%
41.0	22.567	1.690	1254.676	0.11%	96.86%
42.0	20.858	1.578	1256.254	0.10%	96.98%
43.0	19.245	1.486	1257.74	0.10%	97.09%
44.0	17.866	1.401	1259.14	0.09%	97.20%
45.0	16.809	1.333	1260.473	0.09%	97.31%
46.0	15.923	1.280	1261.753	0.08%	97.40%
47.0	15.230	1.239	1262.992	0.08%	97.50%
48.0	14.743	1.212	1264.204	0.08%	97.59%
49.0	14.441	1.198	1265.402	0.08%	97.69%
50.0	14.283	1.198	1266.6	0.08%	97.78%
51.0	14.166	1.204	1267.803	0.08%	97.87%
52.0	14.166	1.216	1269.019	0.08%	97.97%
53.0	14.228	1.235	1270.254	0.08%	98.06%
54.0	14.180	1.252	1271.506	0.08%	98.16%
55.0	14.077	1.261	1272.768	0.08%	98.25%
56.0	13.947	1.266	1274.034	0.08%	98.35%
57.0	13.713	1.265	1275.299	0.08%	98.45%
58.0	13.411	1.254	1276.553	0.08%	98.55%
59.0	13.054	1.237	1277.79	0.08%	98.64%
60.0	12.588	1.211	1279.002	0.08%	98.74%
61.0	12.087	1.178	1280.179	0.08%	98.83%
62.0	11.517	1.137	1281.317	0.08%	98.91%
63.0	10.947	1.093	1282.409	0.07%	99.00%
64.0	10.302	1.043	1283.452	0.07%	99.08%
65.0	9.664	0.988	1284.44	0.07%	99.16%
66.0	9.005	0.931	1285.372	0.06%	99.23%
67.0	8.312	0.871	1286.242	0.06%	99.30%
68.0	7.694	0.811	1287.053	0.05%	99.36%
69.0	7.083	0.754	1287.807	0.05%	99.42%
70.0	6.486	0.697	1288.504	0.05%	99.47%
71.0	5.923	0.641	1289.145	0.04%	99.52%
72.0	5.408	0.589	1289.734	0.04%	99.56%
73.0	4.887	0.538	1290.273	0.04%	99.61%
74.0	4.413	0.489	1290.762	0.03%	99.64%
75.0	3.967	0.443	1291.204	0.03%	99.68%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.624	0.403	1291.607	0.03%	99.71%
77.0	3.274	0.368	1291.975	0.02%	99.74%
78.0	3.027	0.337	1292.313	0.02%	99.76%
79.0	2.828	0.315	1292.627	0.02%	99.79%
80.0	2.663	0.296	1292.923	0.02%	99.81%
81.0	2.560	0.282	1293.206	0.02%	99.83%
82.0	2.478	0.273	1293.479	0.02%	99.85%
83.0	2.395	0.265	1293.744	0.02%	99.87%
84.0	2.313	0.257	1294	0.02%	99.89%
85.0	2.244	0.249	1294.249	0.02%	99.91%
86.0	2.169	0.241	1294.49	0.02%	99.93%
87.0	2.087	0.233	1294.723	0.02%	99.95%
88.0	2.011	0.224	1294.947	0.01%	99.97%
89.0	1.936	0.216	1295.164	0.01%	99.98%
90.0	1.894	0.210	1295.374	0.01%	100.00%

Zonal flux distribution table

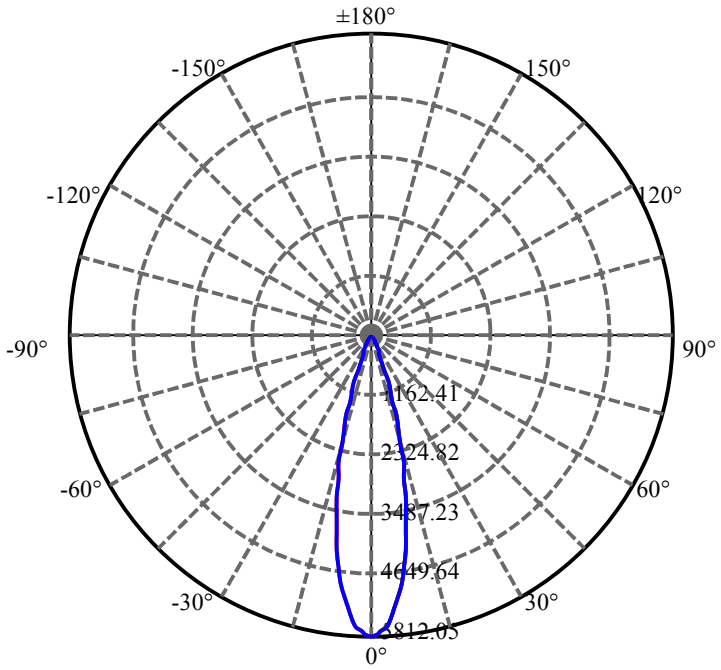
ZONAL LUMEN SUMMARY

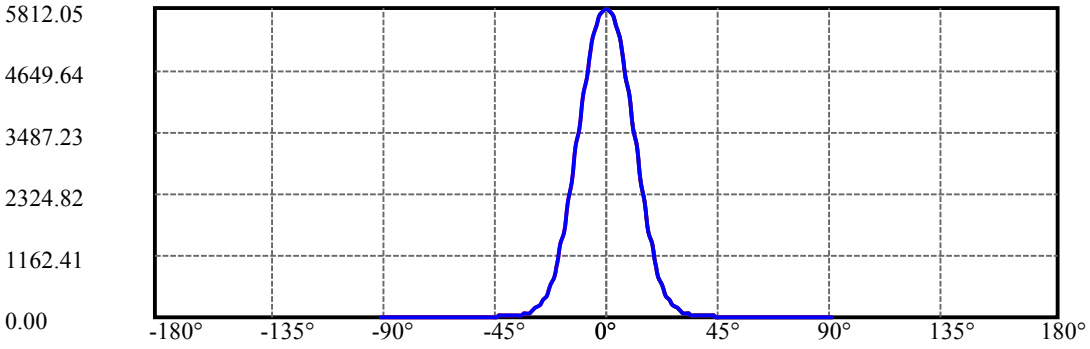
Zone	Lumens	%Lamp	%Fixt
0-30	1221.98	81.09%	94.33%
0-40	1252.99	83.14%	96.73%
0-60	1279.00	84.87%	98.74%
0-90	1295.16	85.94%	99.98%
0-120	1295.16	85.94%	99.98%
0-180	1295.37	85.96%	100.00%
60-90	16.16	1.07%	1.25%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.55	1036.30	68.77%	80.00%

ZONAL LUMEN SUMMARY

0-10	458.55
10-20	594.77
20-30	168.65
30-40	31.01
40-50	13.61
50-60	12.40
60-70	9.50
70-80	4.42
80-90	2.24
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

Light Distribution Curve [Unit:cd]





C0(Max):

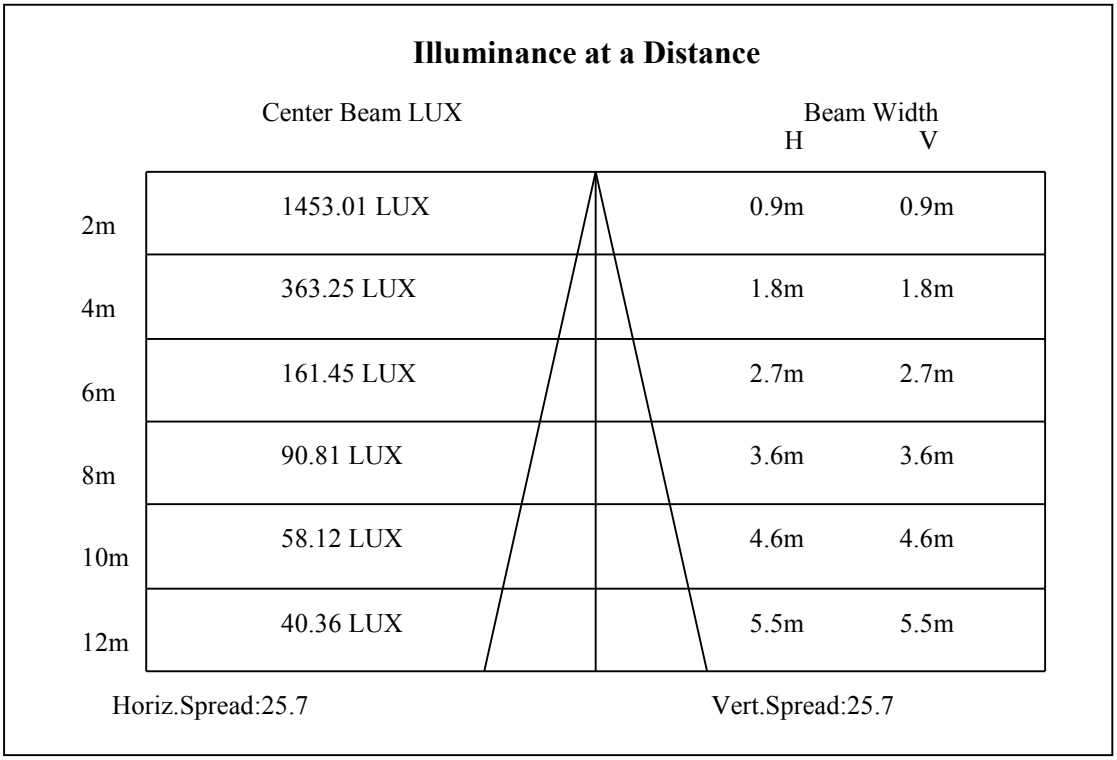
C0/C180:

C90/C270:

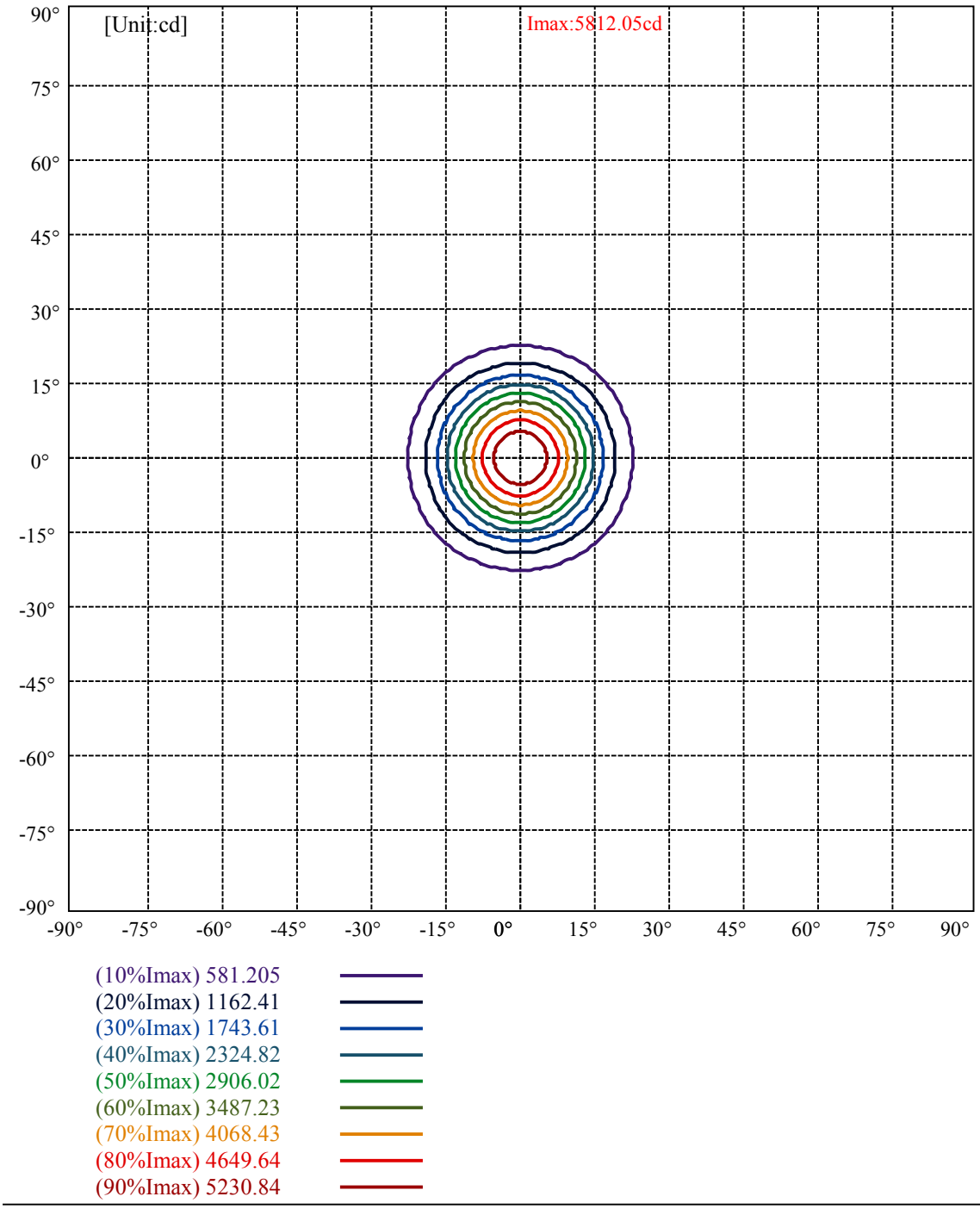
Field angle(10%Imax):C0/180Left:22.3 Right:22.3
:C90/270Left:22.3 Right:22.3

Beam Angle(50%Imax):C0/180Left:12.9 Right:12.9
:C90/270Left:12.9 Right:12.9

Lux distance Curve



ISO-Intensity(V-H)



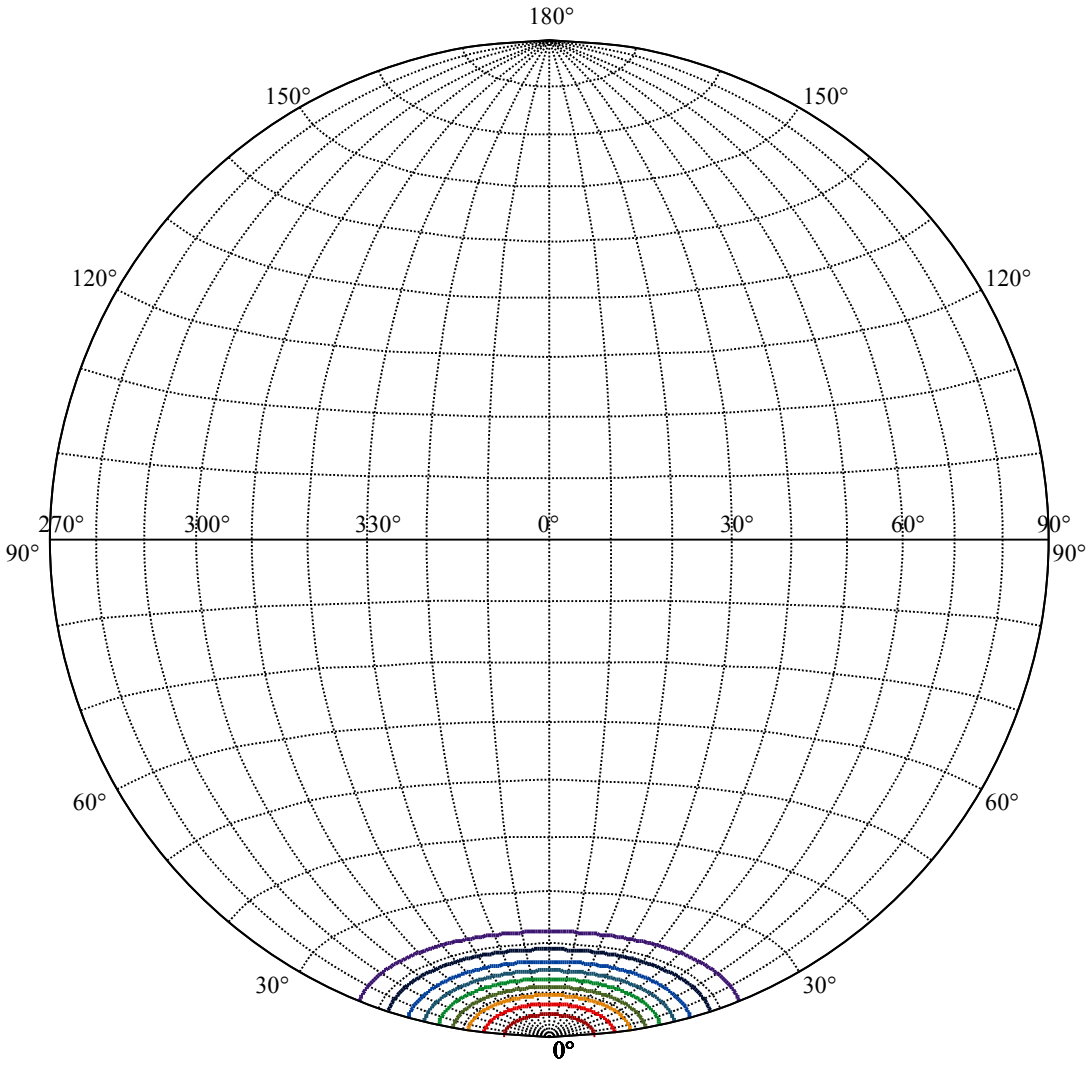
(10%Imax) 581.205
(20%Imax) 1162.41
(30%Imax) 1743.61
(40%Imax) 2324.82
(50%Imax) 2906.02
(60%Imax) 3487.23
(70%Imax) 4068.43
(80%Imax) 4649.64
(90%Imax) 5230.84

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/6/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5812.05

(10%Imax) 581.205
(20%Imax) 1162.41
(30%Imax) 1743.61
(40%Imax) 2324.82
(50%Imax) 2906.02
(60%Imax) 3487.23
(70%Imax) 4068.43
(80%Imax) 4649.64
(90%Imax) 5230.84

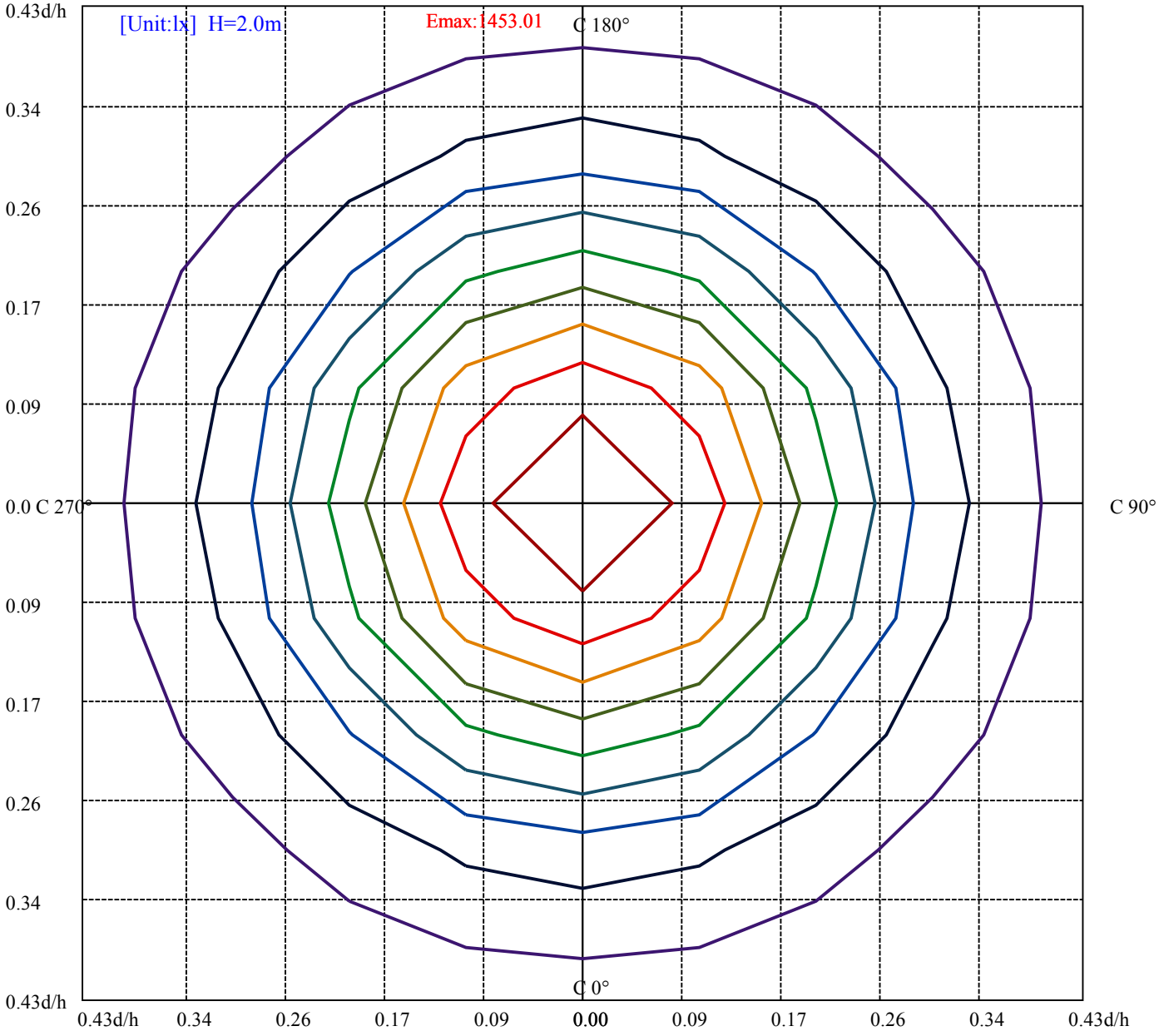
Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/6/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

NT NT 61-0261

ISO illuminance diagram



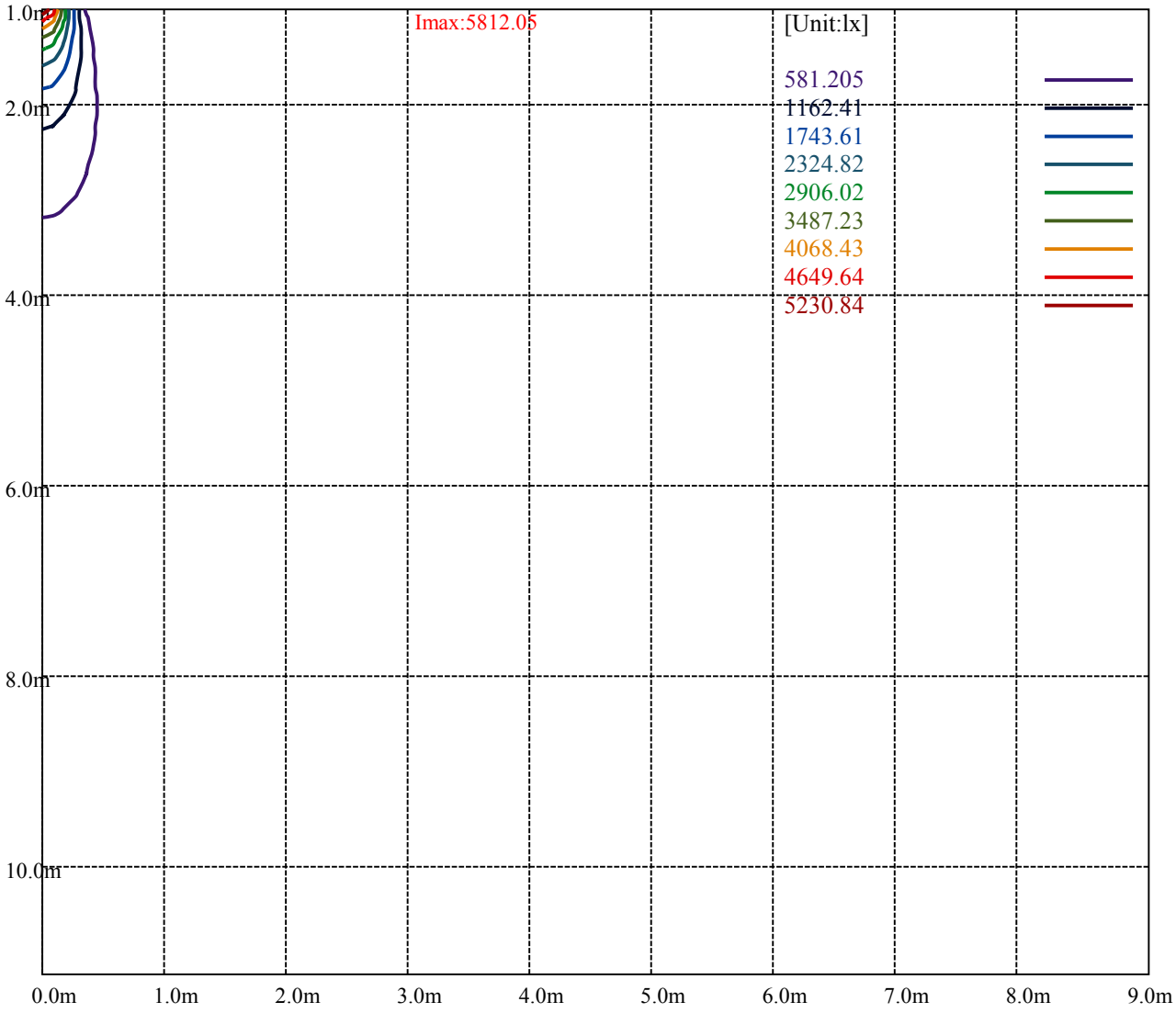
(10%Emax) 145.3013
(20%Emax) 290.6025
(30%Emax) 435.9025
(40%Emax) 581.205
(50%Emax) 726.505
(60%Emax) 871.8075
(70%Emax) 1017.107
(80%Emax) 1162.41
(90%Emax) 1307.71

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/6/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/6/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

NT NT 61-0261

Luminance Limitting Curve(no luminous side)

Luminance Table

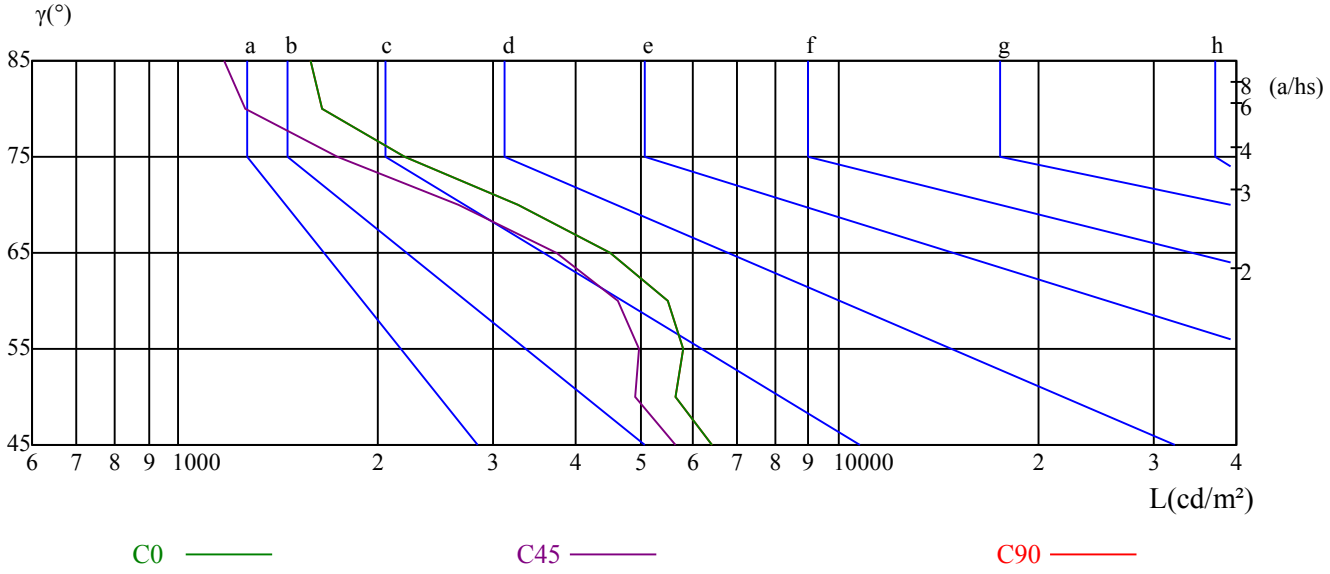
γ	45	50	55	60	65	70	75	80	85
C0	6425	5654	5824	5499	4507	3271	2196	1648	1588
C45	5664	4913	4985	4628	3725	2648	1735	1265	1176
C90	6425	5654	5824	5499	4507	3271	2196	1648	1588

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9147	9147	9147	6131	6131	6131	10300	10300	10300

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 Limitting Curve



Equipment: GMS 1800
Temperature(°C): 25.0

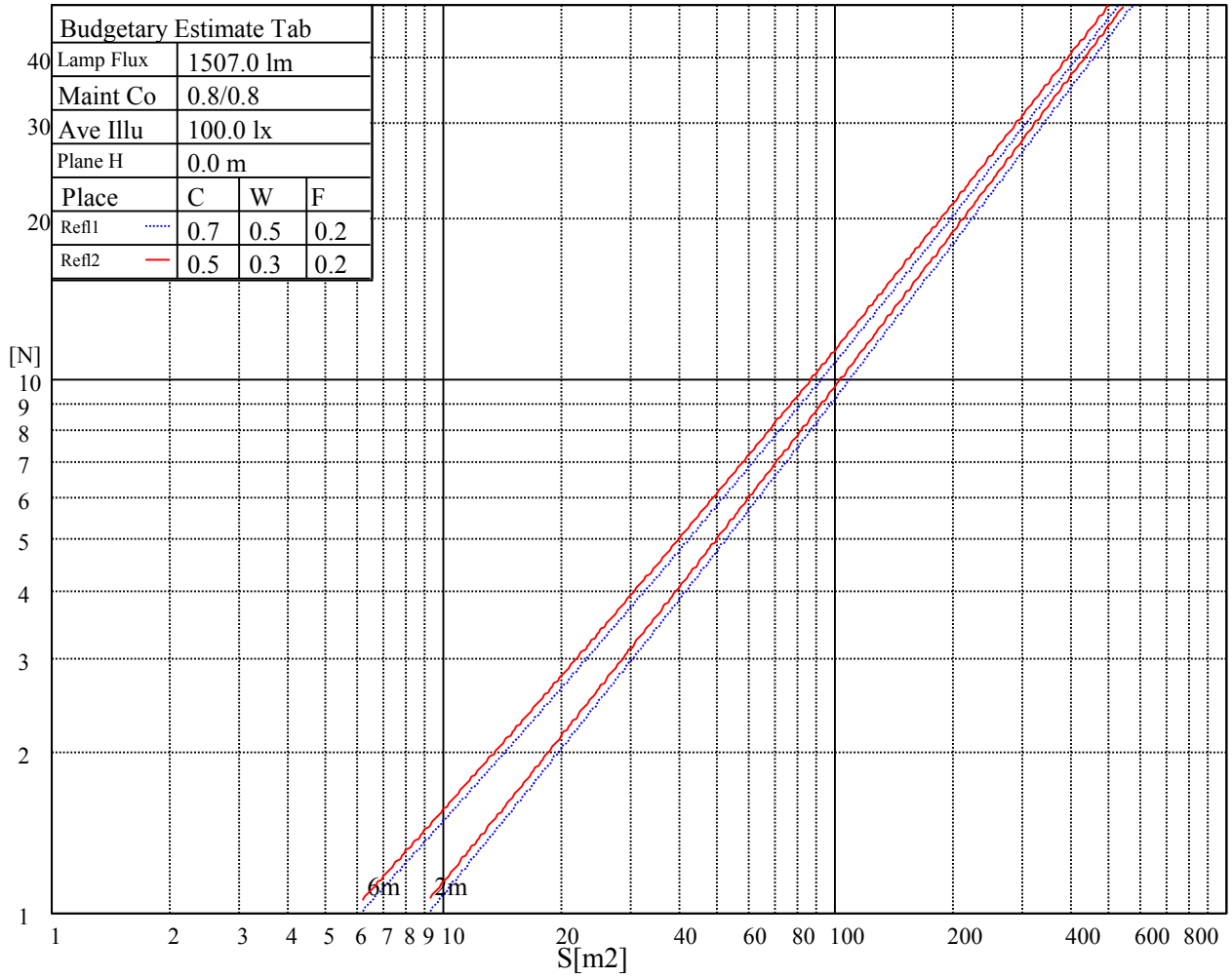
Date: 2025/6/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

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	8.59	9.51	8.95	9.82	10.14	9.22	10.14	9.58	10.46	10.77
	3H	9.46	10.28	9.85	10.62	10.97	10.20	11.03	10.59	11.36	11.71
	4H	9.60	10.36	10.00	10.72	11.09	10.42	11.18	10.82	11.54	11.91
	6H	9.72	10.42	10.14	10.80	11.19	10.57	11.27	10.99	11.64	12.04
	8H	9.76	10.43	10.19	10.81	11.22	10.63	11.30	11.06	11.68	12.09
	12H	9.81	10.43	10.23	10.83	11.25	10.71	11.33	11.13	11.73	12.15
4H	2H	9.06	9.82	9.46	10.17	10.54	9.57	10.33	9.97	10.69	11.06
	3H	9.98	10.62	10.41	11.02	11.44	10.61	11.25	11.04	11.65	12.07
	4H	10.22	10.77	10.66	11.19	11.64	10.93	11.48	11.37	11.90	12.35
	6H	10.36	10.85	10.84	11.30	11.75	11.10	11.59	11.58	12.04	12.50
	8H	10.47	10.92	10.95	11.38	11.85	11.24	11.69	11.73	12.15	12.62
	12H	10.58	10.99	11.07	11.45	11.97	11.39	11.81	11.88	12.26	12.78
8H	4H	10.23	10.68	10.72	11.14	11.62	10.90	11.35	11.38	11.81	12.28
	6H	10.48	10.84	10.98	11.32	11.84	11.17	11.53	11.68	12.01	12.53
	8H	10.71	11.01	11.25	11.54	12.04	11.43	11.74	11.97	12.26	12.76
	12H	10.92	11.15	11.46	11.66	12.19	11.69	11.92	12.23	12.44	12.96
12H	4H	10.21	10.63	10.71	11.08	11.60	10.87	11.28	11.36	11.74	12.26
	6H	10.54	10.84	11.08	11.37	11.87	11.22	11.52	11.75	12.04	12.54
	8H	10.78	11.01	11.33	11.53	12.05	11.48	11.71	12.03	12.23	12.75
Variation with the observer position at spacings:											
S = 1.0H		1.2/-0.8					1.2/-0.8				
S = 1.5H		2.1/-1.0					2.1/-1.0				
S = 2.0H		3.7/-1.4					3.7/-1.4				
Standard tables:		BK3					BK3				
Uncorrected UGR		-6.3					-6.3				

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

Budgetary Estimate Table

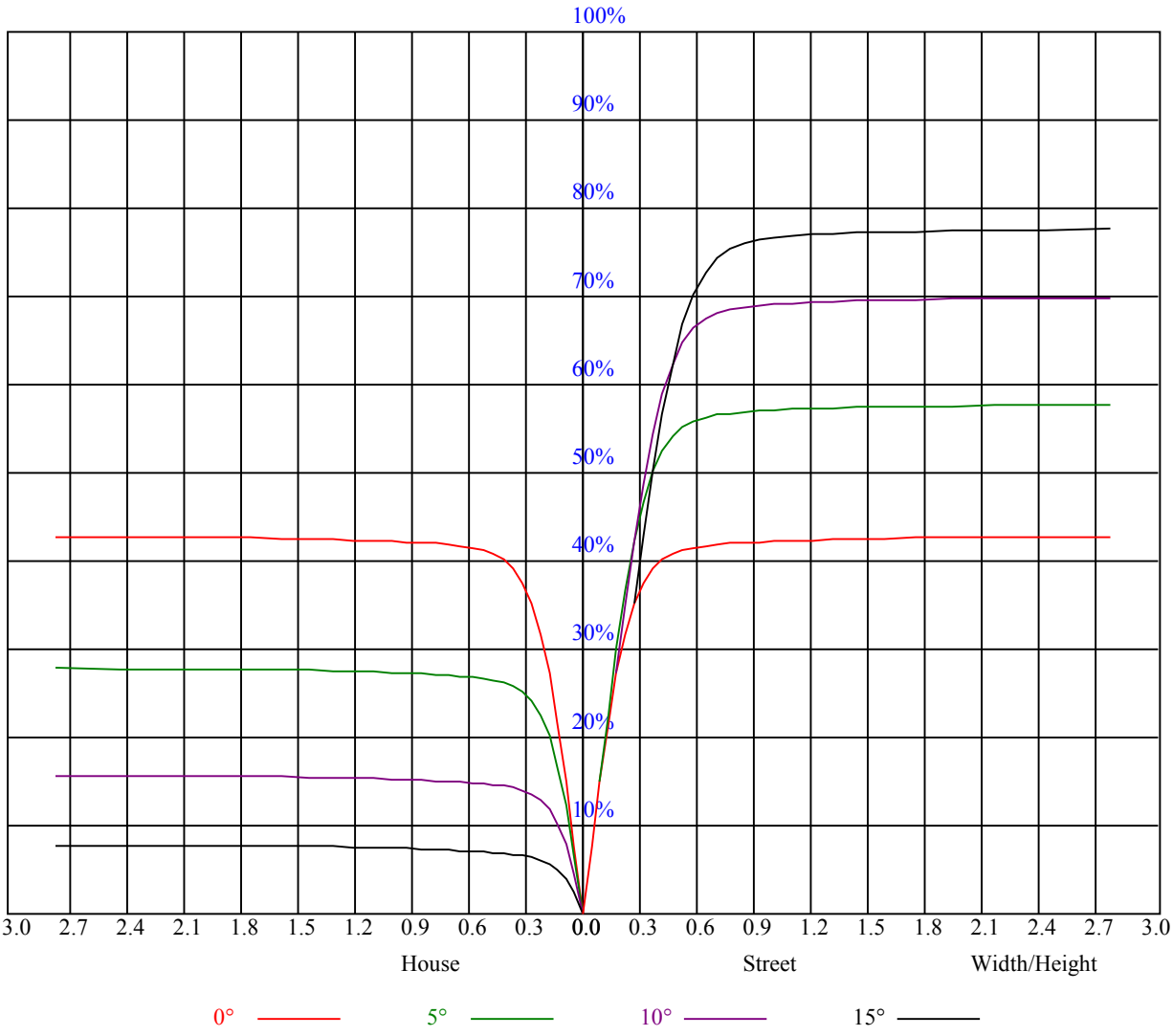


Equipment: GMS 1800 Date: 2025/6/30 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.41

Utilization factor table for indoor luminaire

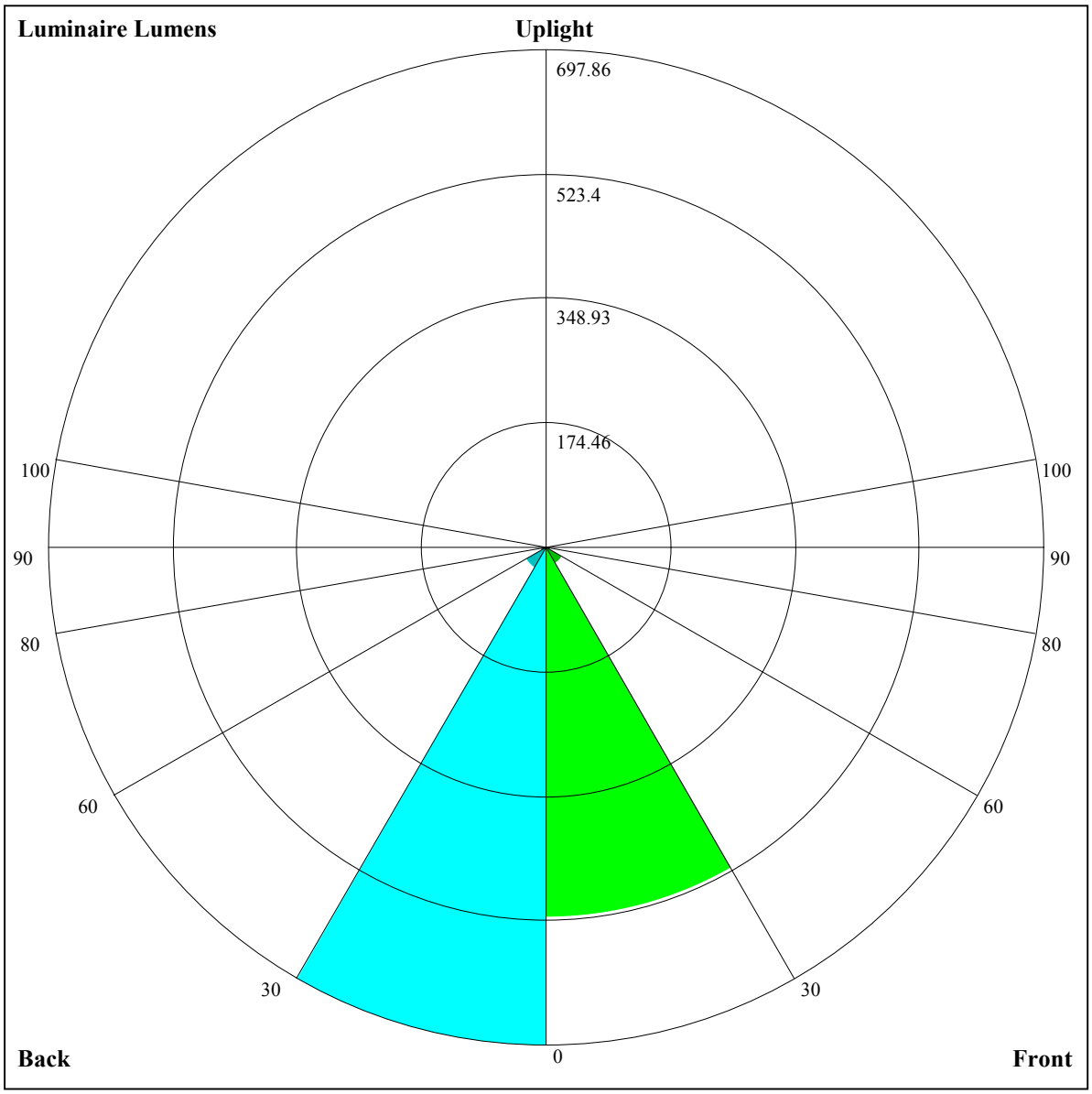
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.02	1.02	1.02	1.00	1.00	1.00	0.96	0.96	0.96	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.97	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.84	0.83
2	0.92	0.90	0.87	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.83	0.83	0.82	0.81	0.80
3	0.88	0.85	0.82	0.87	0.84	0.82	0.85	0.82	0.81	0.83	0.81	0.79	0.81	0.80	0.78	0.77
4	0.85	0.81	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.79	0.77	0.76	0.75
5	0.82	0.78	0.75	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.76	0.74	0.77	0.75	0.73	0.72
6	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.75	0.73	0.71	0.70
7	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.69	0.68
8	0.74	0.70	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
9	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.66	0.70	0.67	0.65	0.65
10	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.64	0.63

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2025/6/30	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.41

LCS Graph



Luminaire Lumens:

FL=518.71,FM=24.74,FH=6.24,FVH=1.13

BL=697.86,BM=32.49,BH=7.66,BVH=1.3

UL=0,UH=0

BUG Rating:B2-U0-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	5763.32	5603.54	5415.75	5221.93	4902.36	4597.62	4334.61	3990.34	3637.83
45.0	5893.45	5814.93	5697.98	5552.47	5339.98	5096.73	4820.00	4502.08	4167.14
90.0	5809.44	5775.95	5626.60	5446.50	5335.04	5121.99	4844.71	4547.10	4228.09
135.0	5781.99	5850.07	5866.55	5855.56	5814.38	5707.31	5550.82	5389.94	5158.78
180.0	5763.32	5870.94	5930.24	5963.73	5911.02	5832.50	5722.69	5555.77	5343.82
225.0	5893.45	5918.16	5886.31	5813.29	5750.14	5526.12	5421.24	5168.66	4902.91
270.0	5809.44	5842.39	5828.11	5761.12	5654.60	5499.21	5303.19	5072.03	4802.43
315.0	5781.99	5674.92	5500.31	5315.27	5084.65	4816.15	4530.08	4203.38	3871.19
360.0	5763.32	5603.54	5415.75	5221.93	4902.36	4597.62	4334.61	3990.34	3637.83

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3278.18	2914.14	2562.18	2221.75	1898.34	1594.15	989.94	989.94	865.02
45.0	3816.28	3461.02	3099.73	2751.61	2410.63	2077.89	1767.66	1538.69	1274.03
90.0	3896.99	3543.38	3197.46	2854.84	2518.25	2196.49	1882.96	1592.50	1017.01
135.0	4895.77	4603.66	4290.13	3966.18	3626.30	3275.98	2935.55	2594.02	2265.12
180.0	5098.38	4822.74	4508.67	4172.63	3818.47	3473.65	3112.36	2759.85	2552.84
225.0	4596.52	4273.11	3940.37	3588.96	3238.64	2893.27	2553.94	2226.14	1906.57
270.0	4504.28	4183.61	3856.91	3513.18	3166.17	2832.87	2490.25	2166.29	1854.41
315.0	3531.30	3177.70	2838.91	2500.68	2168.49	1857.71	1567.24	987.08	987.08
360.0	3278.18	2914.14	2562.18	2221.75	1898.34	1594.15	989.94	989.94	865.02

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	680.04	530.03	455.19	352.24	252.41	220.18	175.98	141.44	115.03
45.0	992.90	828.18	652.47	508.06	394.40	308.20	293.37	226.77	155.61
90.0	1017.01	933.71	676.03	583.89	456.67	357.84	281.24	223.75	179.55
135.0	1951.60	1658.39	1396.48	1154.33	941.29	822.69	654.67	466.88	405.39
180.0	2082.83	1897.24	1600.74	1231.20	1089.54	874.85	693.65	543.75	422.41
225.0	1612.82	1020.14	1020.14	932.94	740.16	578.68	450.36	351.03	275.36
270.0	1569.44	1404.71	1063.73	934.15	744.17	582.74	453.16	352.13	288.98
315.0	944.86	751.91	591.09	459.42	357.78	280.53	222.10	177.30	141.94
360.0	680.04	530.03	455.19	352.24	252.41	220.18	175.98	141.44	115.03

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	94.28	78.24	66.22	55.95	47.88	41.57	36.35	32.07	28.50
45.0	126.18	103.23	85.66	72.20	65.40	52.55	48.15	41.79	36.62
90.0	145.62	119.37	98.72	82.42	70.06	59.96	51.83	45.19	39.42
135.0	319.18	290.08	276.90	160.88	131.01	106.85	88.13	74.02	62.92
180.0	331.26	287.33	287.33	165.16	133.59	108.94	90.05	78.02	63.47
225.0	217.16	172.69	138.37	112.29	92.03	76.49	64.13	54.58	46.78
270.0	288.98	166.04	133.04	108.17	89.12	74.68	67.26	53.48	45.90
315.0	114.04	92.90	77.31	64.30	54.36	46.67	40.36	35.25	31.90
360.0	94.28	78.24	66.22	55.95	47.88	41.57	36.35	32.07	28.50

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	25.48	23.17	20.97	19.22	17.74	16.75	15.65	14.61	14.06
45.0	32.51	28.99	25.97	23.39	21.30	19.49	18.01	16.69	15.54
90.0	34.76	30.97	28.00	25.20	23.89	21.19	20.21	18.67	16.91
135.0	54.03	46.56	41.68	35.69	32.56	29.21	26.47	24.10	22.18
180.0	55.90	48.26	41.07	37.12	33.00	29.54	26.69	24.27	22.29
225.0	40.47	35.58	31.46	28.22	25.48	23.12	21.85	20.21	18.72
270.0	42.11	34.92	32.51	28.99	25.92	23.39	21.36	19.71	18.28
315.0	27.78	25.48	22.95	20.92	19.22	17.85	16.64	15.70	14.94
360.0	25.48	23.17	20.97	19.22	17.74	16.75	15.65	14.61	14.06

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	13.45	13.12	13.01	13.01	13.12	13.23	13.29	13.40	13.45
45.0	14.72	14.06	13.51	13.29	13.45	13.73	13.73	13.73	13.67
90.0	16.25	15.43	14.83	14.44	14.22	14.11	14.22	14.17	14.22
135.0	20.54	19.11	17.85	16.91	16.14	15.65	15.26	15.21	15.21
180.0	20.59	19.05	17.90	16.86	16.09	15.54	15.15	15.26	15.76
225.0	17.52	16.53	15.65	14.99	14.50	14.22	13.95	13.89	13.95
270.0	17.02	16.09	15.26	14.66	14.28	14.00	13.89	13.84	13.84
315.0	14.39	14.00	13.84	13.78	13.73	13.78	13.84	13.84	13.73
360.0	13.45	13.12	13.01	13.01	13.12	13.23	13.29	13.40	13.45

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.34	13.12	12.90	12.52	12.02	11.48	10.87	10.27	9.55
45.0	13.51	13.40	13.18	12.85	12.57	12.13	11.70	11.15	10.54
90.0	14.22	14.11	13.89	13.67	13.34	12.85	12.30	11.86	11.09
135.0	15.21	15.15	15.15	14.99	14.94	14.77	14.33	13.95	13.62
180.0	15.70	15.70	15.43	15.26	15.10	14.72	14.33	13.89	13.51
225.0	13.95	13.95	13.95	13.84	13.62	13.40	13.01	12.52	11.92
270.0	13.89	13.84	13.78	13.67	13.40	13.18	12.85	12.30	11.81
315.0	13.62	13.34	13.29	12.90	12.30	11.92	11.31	10.76	10.10
360.0	13.34	13.12	12.90	12.52	12.02	11.48	10.87	10.27	9.55

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.11	8.18	7.80	7.14	6.26	5.93	5.44	4.89	4.45
45.0	9.88	9.22	8.62	7.96	7.36	6.75	6.20	5.66	5.22
90.0	10.54	9.94	9.11	8.57	7.91	7.25	6.64	6.09	5.55
135.0	13.01	12.35	11.70	10.98	10.27	9.55	8.90	8.18	7.47
180.0	12.90	12.35	11.70	10.98	10.32	9.61	8.90	8.24	7.58
225.0	11.53	10.93	10.32	9.66	8.95	8.24	7.58	6.92	6.31
270.0	11.20	10.65	9.99	9.28	8.62	8.02	7.36	6.75	6.09
315.0	9.39	8.79	8.07	7.47	6.81	6.20	5.66	5.16	4.72
360.0	9.11	8.18	7.80	7.14	6.26	5.93	5.44	4.89	4.45

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.95	3.46	3.02	2.64	2.47	2.36	2.31	2.20	2.14
45.0	4.78	4.34	3.79	3.40	3.18	2.91	2.75	2.75	2.64
90.0	5.11	4.61	4.17	3.68	3.29	2.97	2.80	2.69	2.64
135.0	6.86	6.26	5.77	5.27	4.83	4.34	3.90	3.46	3.24
180.0	6.97	6.42	5.88	5.44	5.16	4.67	4.34	4.12	3.68
225.0	5.77	5.16	4.72	4.23	3.73	3.24	2.80	2.47	2.25
270.0	5.60	5.05	4.61	4.17	3.68	3.24	2.86	2.58	2.42
315.0	4.23	3.79	3.35	2.91	2.64	2.47	2.47	2.36	2.31
360.0	3.95	3.46	3.02	2.64	2.47	2.36	2.31	2.20	2.14

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.09	1.98	1.87	1.76	1.70	1.59	1.48	1.48	1.43
45.0	2.64	2.58	2.53	2.47	2.47	2.42	2.36	2.36	2.31
90.0	2.58	2.53	2.42	2.31	2.20	2.14	2.03	1.98	1.87
135.0	2.91	2.86	2.80	2.69	2.53	2.47	2.31	2.25	2.14
180.0	3.57	3.40	3.35	3.29	3.35	3.29	3.29	3.24	3.13
225.0	2.09	2.03	1.98	1.87	1.81	1.70	1.59	1.43	1.37
270.0	2.36	2.31	2.20	2.14	2.03	1.98	1.92	1.76	1.70
315.0	2.25	2.14	2.03	1.98	1.87	1.76	1.70	1.59	1.54
360.0	2.09	1.98	1.87	1.76	1.70	1.59	1.48	1.48	1.43

Intensity data(cd)

C/γ(°)	90.0
0.0	1.43
45.0	2.36
90.0	1.81
135.0	2.03
180.0	3.02
225.0	1.32
270.0	1.65
315.0	1.54
360.0	1.43