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: 61-0257
Luminaire: 92.70.427.00
Report No: 20250430-B001
Ballast type: AC
Test No: 20250430-C001
LampCAT: LUMINUS CXM-9
Lamp flux(lm): 1518.6
Number of Lamps: 1
Length(mm): 50
Phm Type: C

Voltage(V): 33.770
Current(A): 0.363
Power (W): 12.250
PF: 0.000
Width(mm): 50
Height(mm): 24

Photometric Results

Lumens(lm): 1323.85, Efficiency(%): 87.18% , Luminous Efficacy(lm/W): 108.07
Central intensity(cd): 3779.220, Maximum intensity(cd): 3779.220
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=34.8
[C90/270]Total=34.8
Field angle(10%Imax): [C0/180]Total=53.4
[C90/270]Total=53.4
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.54 C90_270=0.54
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.18%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.793%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3779.220	0.000	0	0.00%	0.00%
1.0	3772.892	3.614	3.614	0.24%	0.27%
2.0	3756.972	10.808	14.421	0.71%	1.09%
3.0	3724.198	17.892	32.314	1.18%	2.44%
4.0	3693.223	24.828	57.142	1.64%	4.32%
5.0	3636.003	31.530	88.672	2.08%	6.70%
6.0	3573.787	37.889	126.561	2.50%	9.56%
7.0	3502.645	43.923	170.485	2.89%	12.88%
8.0	3413.251	49.496	219.98	3.26%	16.62%
9.0	3313.999	54.521	274.501	3.59%	20.74%
10.0	3198.026	58.931	333.433	3.88%	25.19%
11.0	3066.600	62.596	396.029	4.12%	29.92%
12.0	2917.321	65.413	461.442	4.31%	34.86%
13.0	2753.588	67.299	528.741	4.43%	39.94%
14.0	2574.666	68.201	596.942	4.49%	45.09%
15.0	2382.223	68.050	664.993	4.48%	50.23%
16.0	2199.638	67.137	732.13	4.42%	55.30%
17.0	1973.089	64.981	797.11	4.28%	60.21%
18.0	1785.575	61.972	859.083	4.08%	64.89%
19.0	1571.282	58.402	917.485	3.85%	69.30%
20.0	1339.431	53.274	970.759	3.51%	73.33%
21.0	1159.357	47.982	1018.741	3.16%	76.95%
22.0	1007.647	43.547	1062.288	2.87%	80.24%
23.0	867.774	39.351	1101.639	2.59%	83.22%
24.0	712.714	34.555	1136.195	2.28%	85.83%
25.0	569.830	29.162	1165.357	1.92%	88.03%
26.0	445.951	23.978	1189.334	1.58%	89.84%
27.0	351.787	19.517	1208.851	1.29%	91.31%
28.0	265.870	15.638	1224.489	1.03%	92.49%
29.0	193.676	12.023	1236.512	0.79%	93.40%
30.0	162.215	9.609	1246.121	0.63%	94.13%
31.0	106.034	7.465	1253.586	0.49%	94.69%
32.0	80.181	5.335	1258.921	0.35%	95.10%
33.0	65.087	4.280	1263.2	0.28%	95.42%
34.0	52.357	3.554	1266.755	0.23%	95.69%
35.0	44.943	3.022	1269.776	0.20%	95.92%
36.0	39.108	2.676	1272.453	0.18%	96.12%
37.0	33.886	2.381	1274.833	0.16%	96.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	30.129	2.137	1276.97	0.14%	96.46%
39.0	26.891	1.946	1278.916	0.13%	96.61%
40.0	24.407	1.789	1280.705	0.12%	96.74%
41.0	22.075	1.655	1282.361	0.11%	96.87%
42.0	20.257	1.538	1283.899	0.10%	96.98%
43.0	18.698	1.443	1285.342	0.10%	97.09%
44.0	17.466	1.365	1286.707	0.09%	97.19%
45.0	16.500	1.305	1288.012	0.09%	97.29%
46.0	15.960	1.269	1289.281	0.08%	97.39%
47.0	15.994	1.271	1290.552	0.08%	97.49%
48.0	16.340	1.307	1291.859	0.09%	97.58%
49.0	17.013	1.370	1293.229	0.09%	97.69%
50.0	17.992	1.459	1294.689	0.10%	97.80%
51.0	18.205	1.531	1296.22	0.10%	97.91%
52.0	17.286	1.523	1297.743	0.10%	98.03%
53.0	15.641	1.432	1299.175	0.09%	98.14%
54.0	14.648	1.335	1300.51	0.09%	98.24%
55.0	14.162	1.286	1301.796	0.08%	98.33%
56.0	13.742	1.261	1303.057	0.08%	98.43%
57.0	13.362	1.239	1304.296	0.08%	98.52%
58.0	12.929	1.216	1305.512	0.08%	98.62%
59.0	12.536	1.191	1306.703	0.08%	98.70%
60.0	12.170	1.167	1307.87	0.08%	98.79%
61.0	11.824	1.145	1309.015	0.08%	98.88%
62.0	11.324	1.115	1310.13	0.07%	98.96%
63.0	10.918	1.082	1311.212	0.07%	99.05%
64.0	10.418	1.047	1312.259	0.07%	99.12%
65.0	9.805	1.001	1313.26	0.07%	99.20%
66.0	9.319	0.954	1314.214	0.06%	99.27%
67.0	8.740	0.908	1315.122	0.06%	99.34%
68.0	8.133	0.855	1315.977	0.06%	99.41%
69.0	7.487	0.797	1316.774	0.05%	99.47%
70.0	6.821	0.735	1317.509	0.05%	99.52%
71.0	6.188	0.672	1318.181	0.04%	99.57%
72.0	5.582	0.612	1318.793	0.04%	99.62%
73.0	5.016	0.554	1319.347	0.04%	99.66%
74.0	4.396	0.495	1319.842	0.03%	99.70%
75.0	3.830	0.435	1320.277	0.03%	99.73%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.277	0.377	1320.654	0.02%	99.76%
77.0	2.804	0.324	1320.978	0.02%	99.78%
78.0	2.531	0.286	1321.264	0.02%	99.80%
79.0	2.305	0.260	1321.524	0.02%	99.82%
80.0	2.225	0.244	1321.768	0.02%	99.84%
81.0	2.145	0.236	1322.004	0.02%	99.86%
82.0	2.092	0.230	1322.234	0.02%	99.88%
83.0	2.025	0.224	1322.458	0.01%	99.90%
84.0	2.005	0.220	1322.677	0.01%	99.91%
85.0	1.892	0.213	1322.89	0.01%	99.93%
86.0	1.839	0.204	1323.094	0.01%	99.94%
87.0	1.785	0.198	1323.292	0.01%	99.96%
88.0	1.719	0.192	1323.484	0.01%	99.97%
89.0	1.645	0.184	1323.669	0.01%	99.99%
90.0	1.605	0.178	1323.847	0.01%	100.00%

Zonal flux distribution table

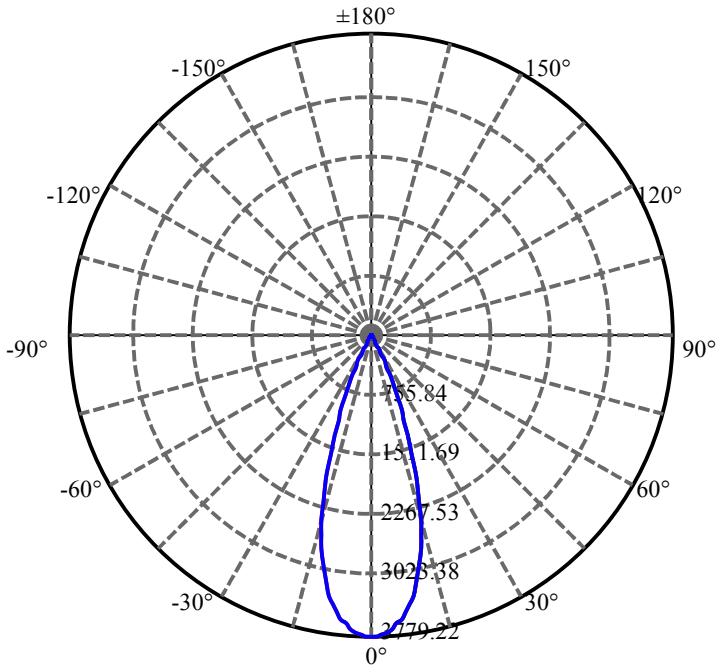
ZONAL LUMEN SUMMARY

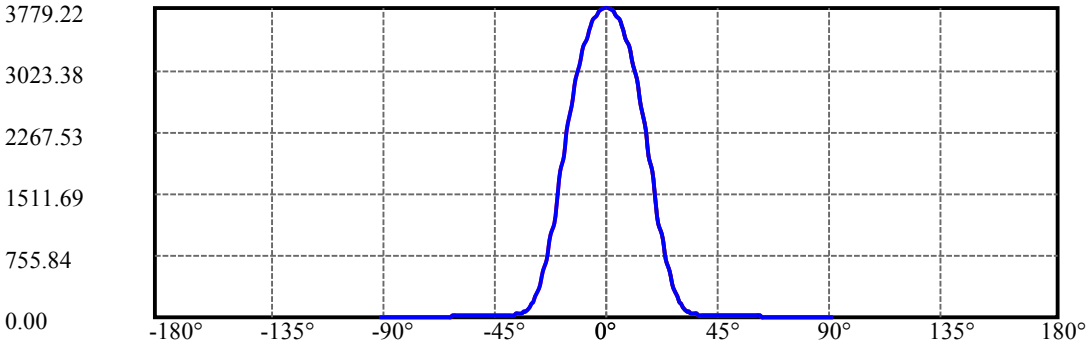
Zone	Lumens	%Lamp	%Fixt
0-30	1246.12	82.06%	94.13%
0-40	1280.71	84.34%	96.74%
0-60	1307.87	86.13%	98.79%
0-90	1323.67	87.17%	99.99%
0-120	1323.67	87.17%	99.99%
0-180	1323.85	87.18%	100.00%
60-90	15.80	1.04%	1.19%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-21.93	1059.08	69.74%	80.00%

ZONAL LUMEN SUMMARY

0-10	333.43
10-20	637.33
20-30	275.36
30-40	34.58
40-50	13.98
50-60	13.18
60-70	9.64
70-80	4.26
80-90	1.90
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):

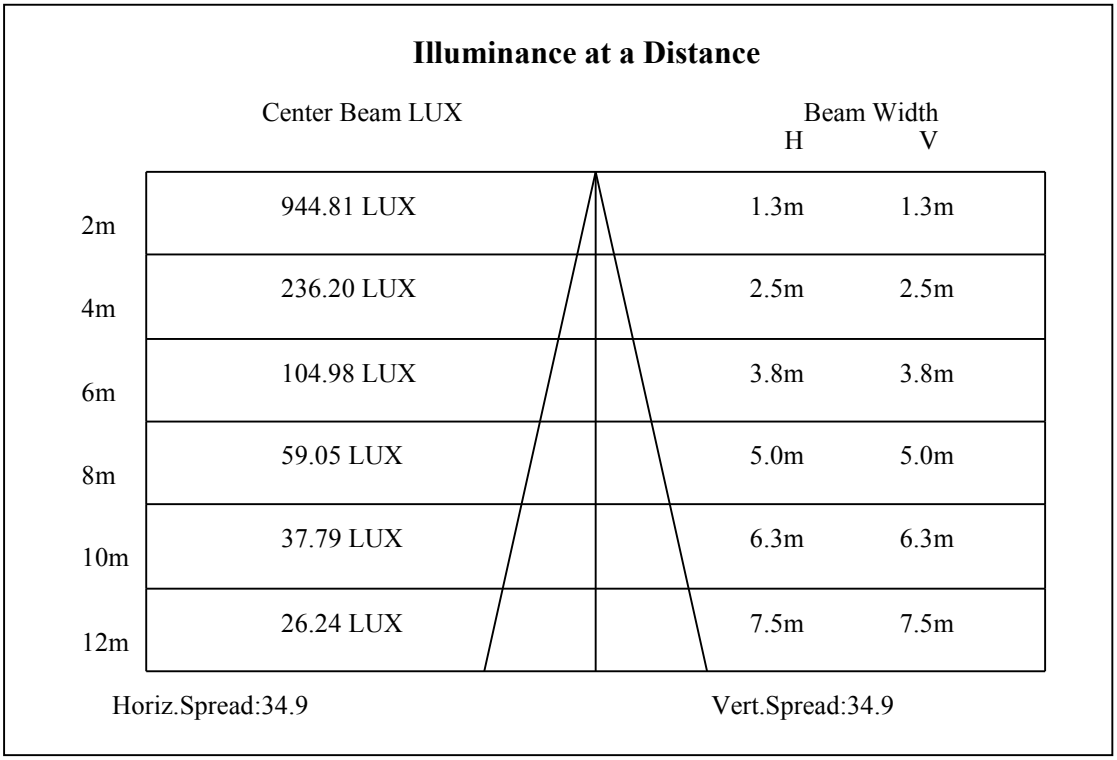
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:26.7 Right:26.7
:C90/270Left:26.7 Right:26.7

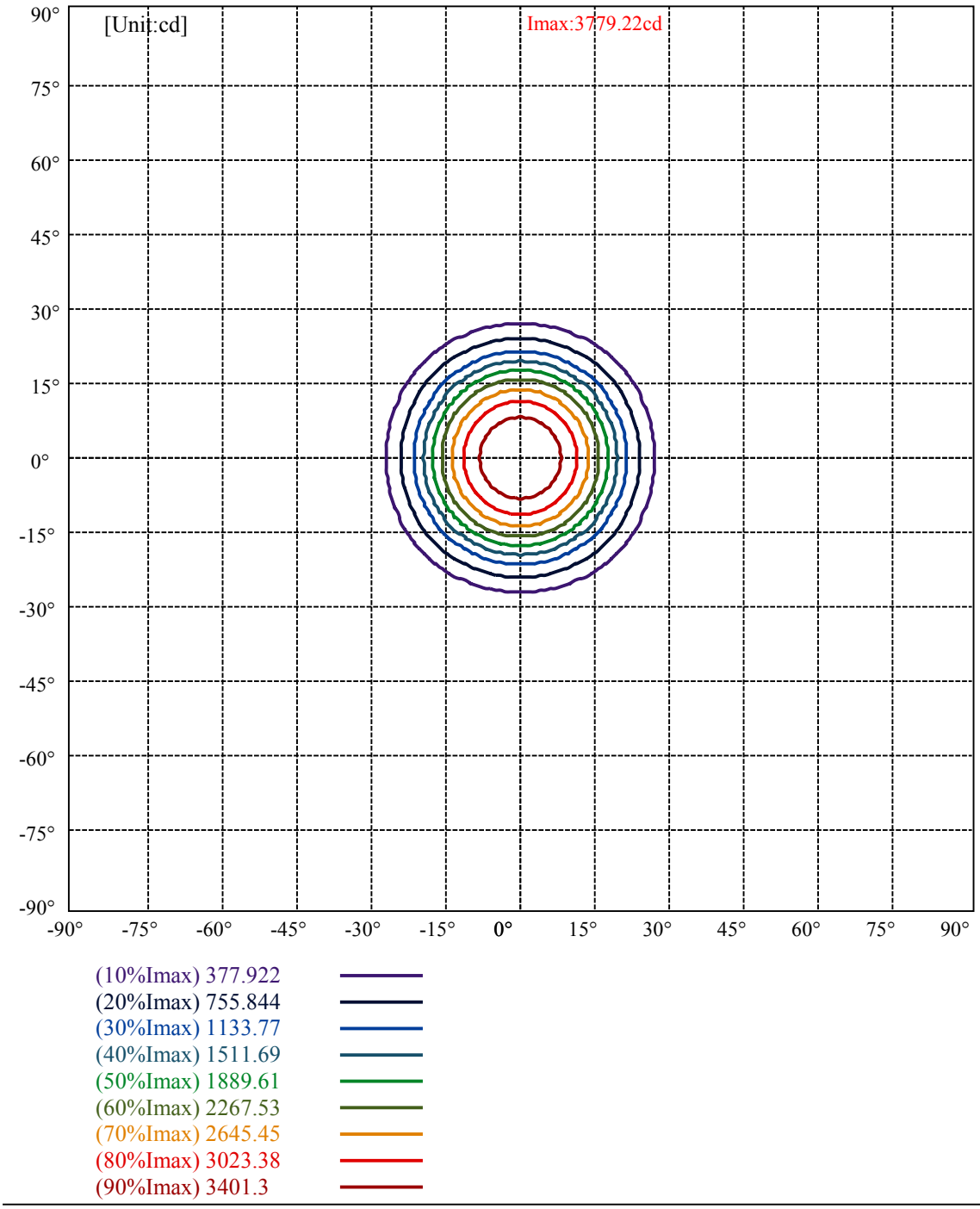
Beam Angle(50%Imax):C0/180Left:17.4 Right:17.4
:C90/270Left:17.4 Right:17.4

Lux distance Curve



Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2025/4/30
Humidity(%): 60.0%
Operator: NT
Distance(m): 7.30

ISO-Intensity(V-H)



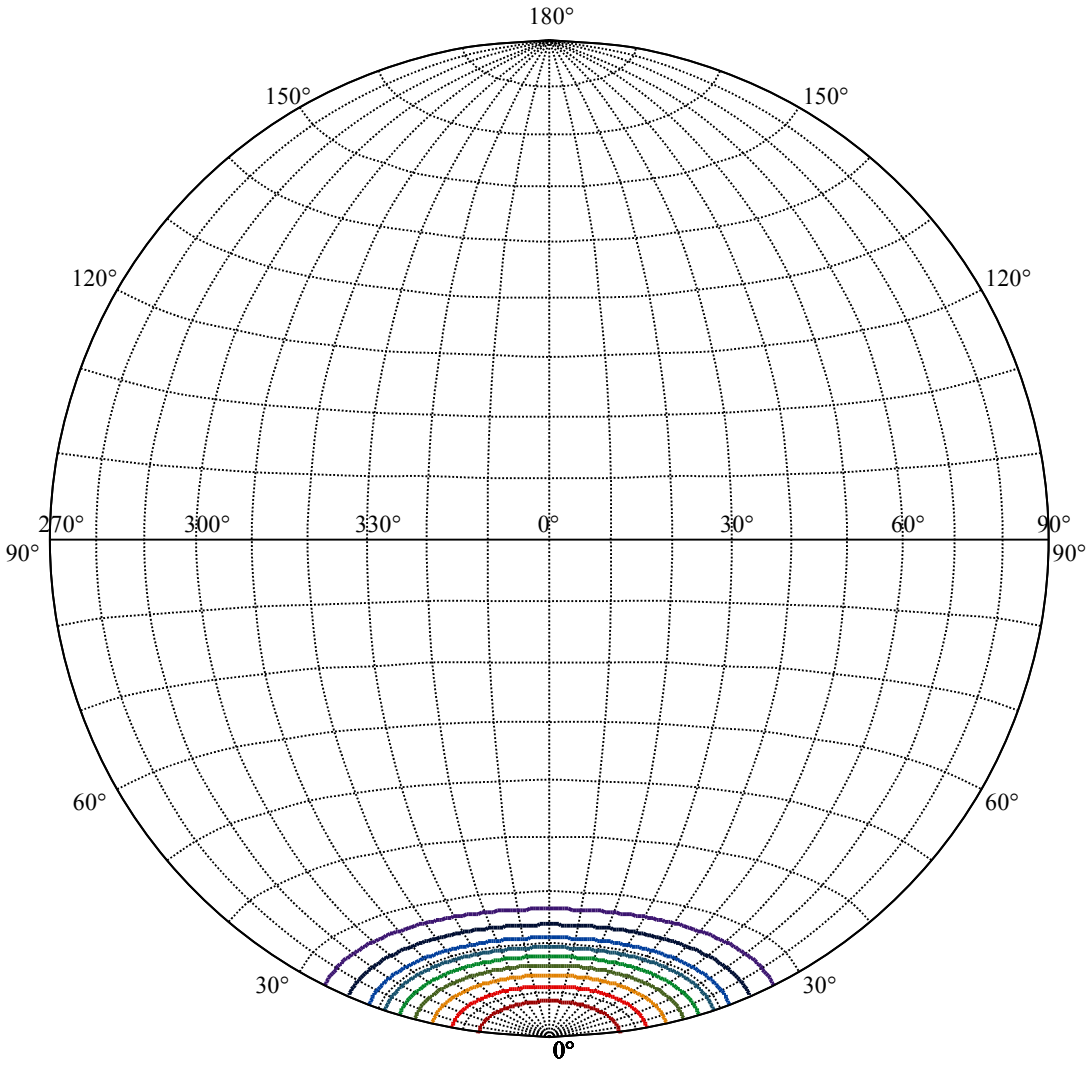
(10%Imax) 377.922
(20%Imax) 755.844
(30%Imax) 1133.77
(40%Imax) 1511.69
(50%Imax) 1889.61
(60%Imax) 2267.53
(70%Imax) 2645.45
(80%Imax) 3023.38
(90%Imax) 3401.3

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/4/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

ISO candela diagram on circular web



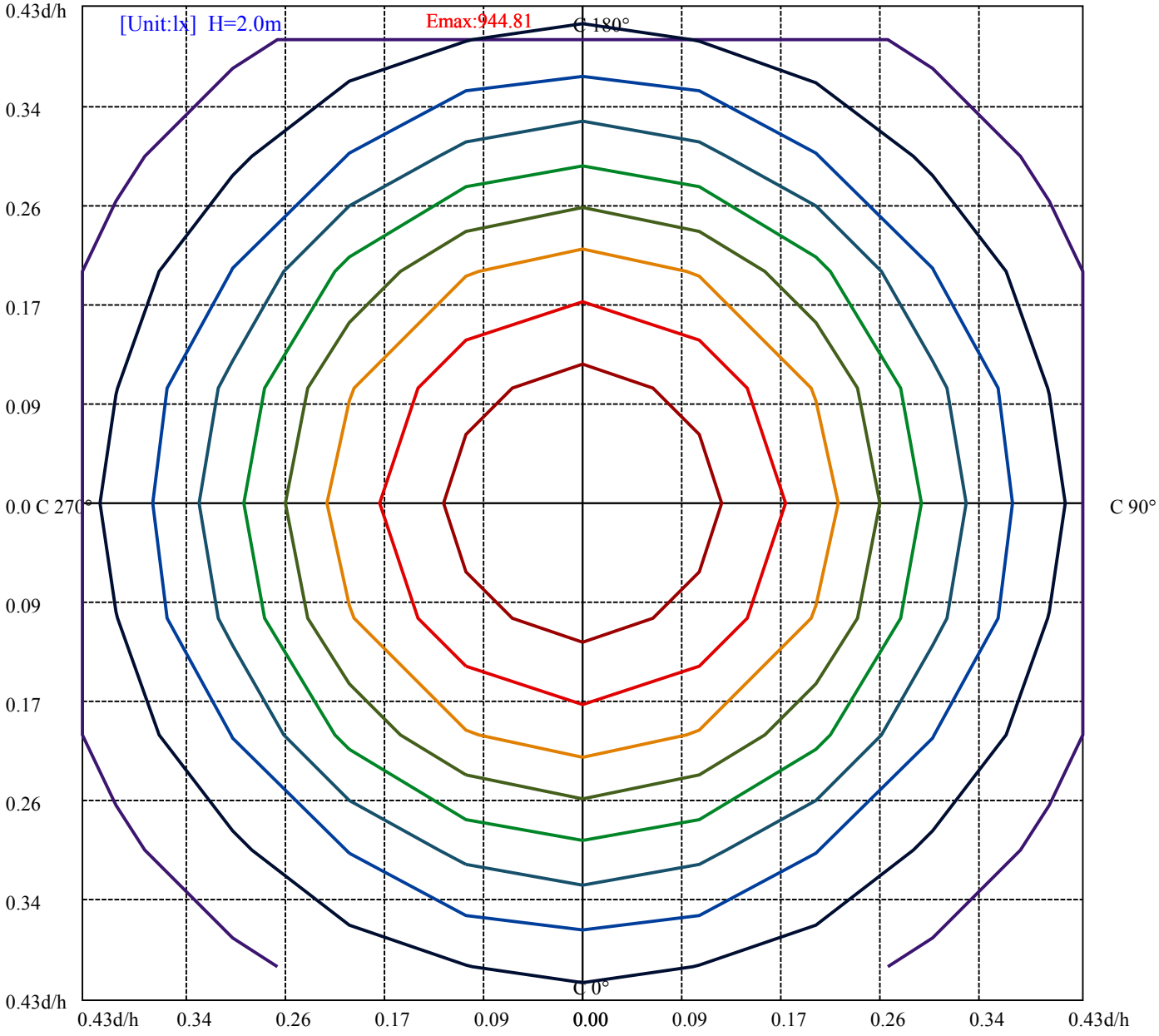
House [Unit:cd] Road

Imax:3779.22

(10%Imax) 377.922
(20%Imax) 755.844
(30%Imax) 1133.77
(40%Imax) 1511.69
(50%Imax) 1889.61
(60%Imax) 2267.53
(70%Imax) 2645.45
(80%Imax) 3023.38
(90%Imax) 3401.3

NT NT 61-0257

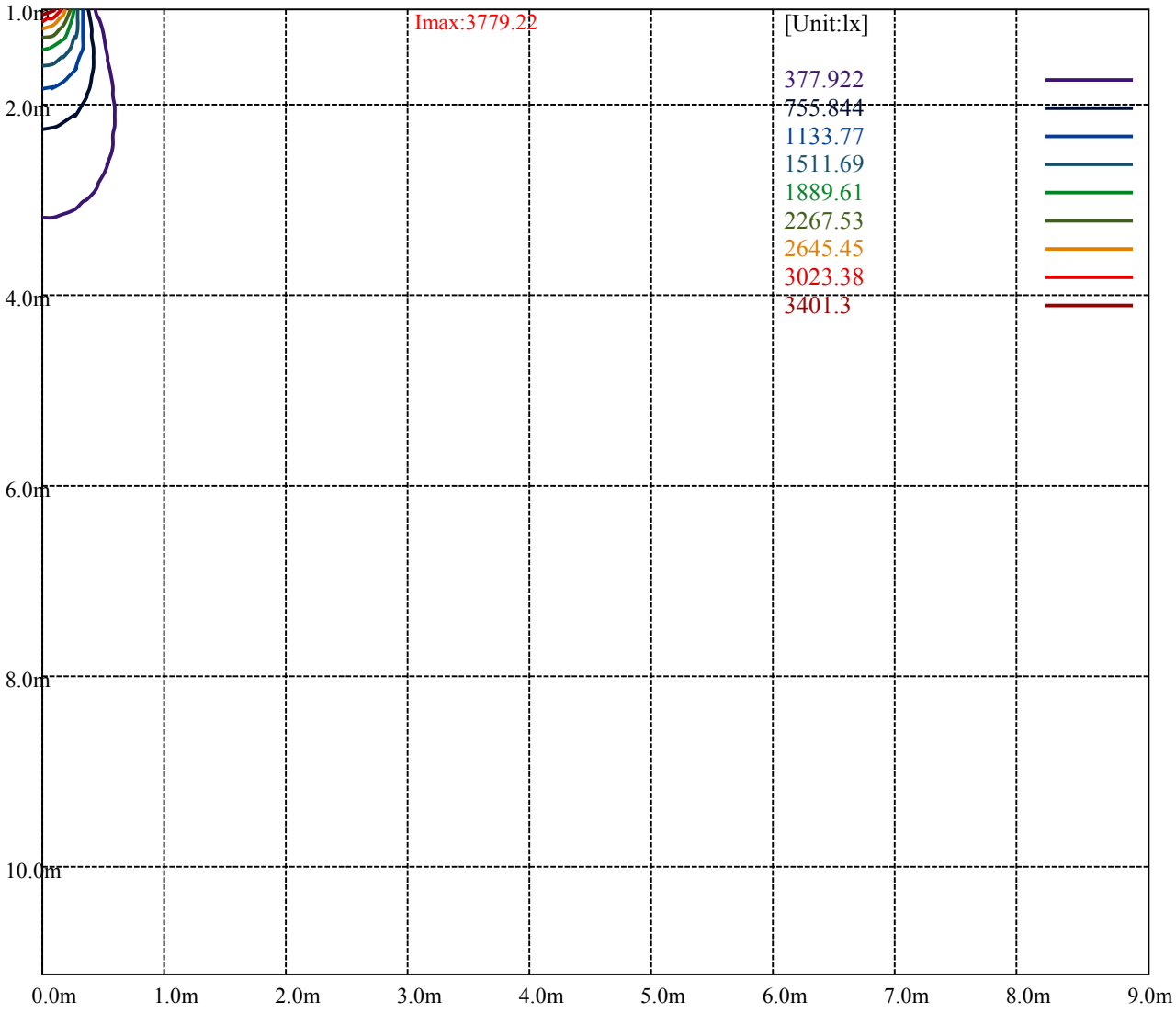
ISO illuminance diagram



(10%Emax) 94.4805
(20%Emax) 188.961
(30%Emax) 283.4425
(40%Emax) 377.9225
(50%Emax) 472.4025
(60%Emax) 566.8825
(70%Emax) 661.3625
(80%Emax) 755.845
(90%Emax) 850.325

Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2025/4/30
Humidity(%): 60.0%
Operator: NT
Distance(m): 7.30

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/4/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

NT NT 61-0257

Luminance Limitting Curve(no luminous side)

Luminance Table

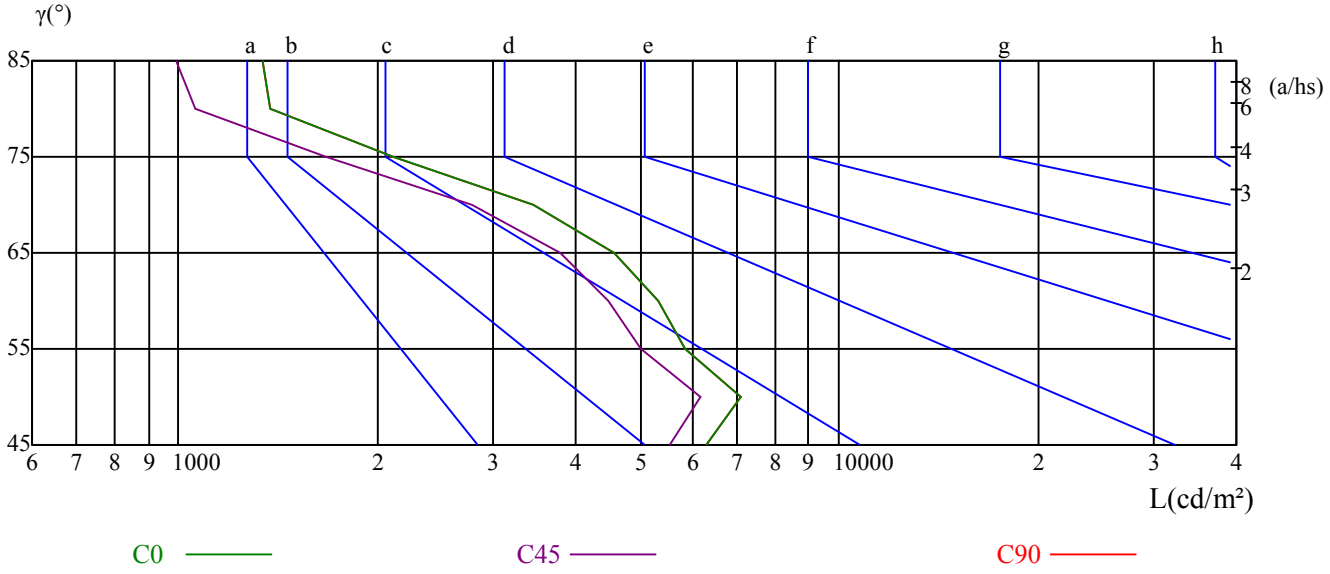
γ	45	50	55	60	65	70	75	80	85
C0	6307	7122	5859	5316	4573	3440	2121	1377	1339
C45	5560	6189	5015	4475	3779	2784	1675	1057	991
C90	6307	7122	5859	5316	4573	3440	2121	1377	1339

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9281	9281	9281	5920	5920	5920	8682	8682	8682

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

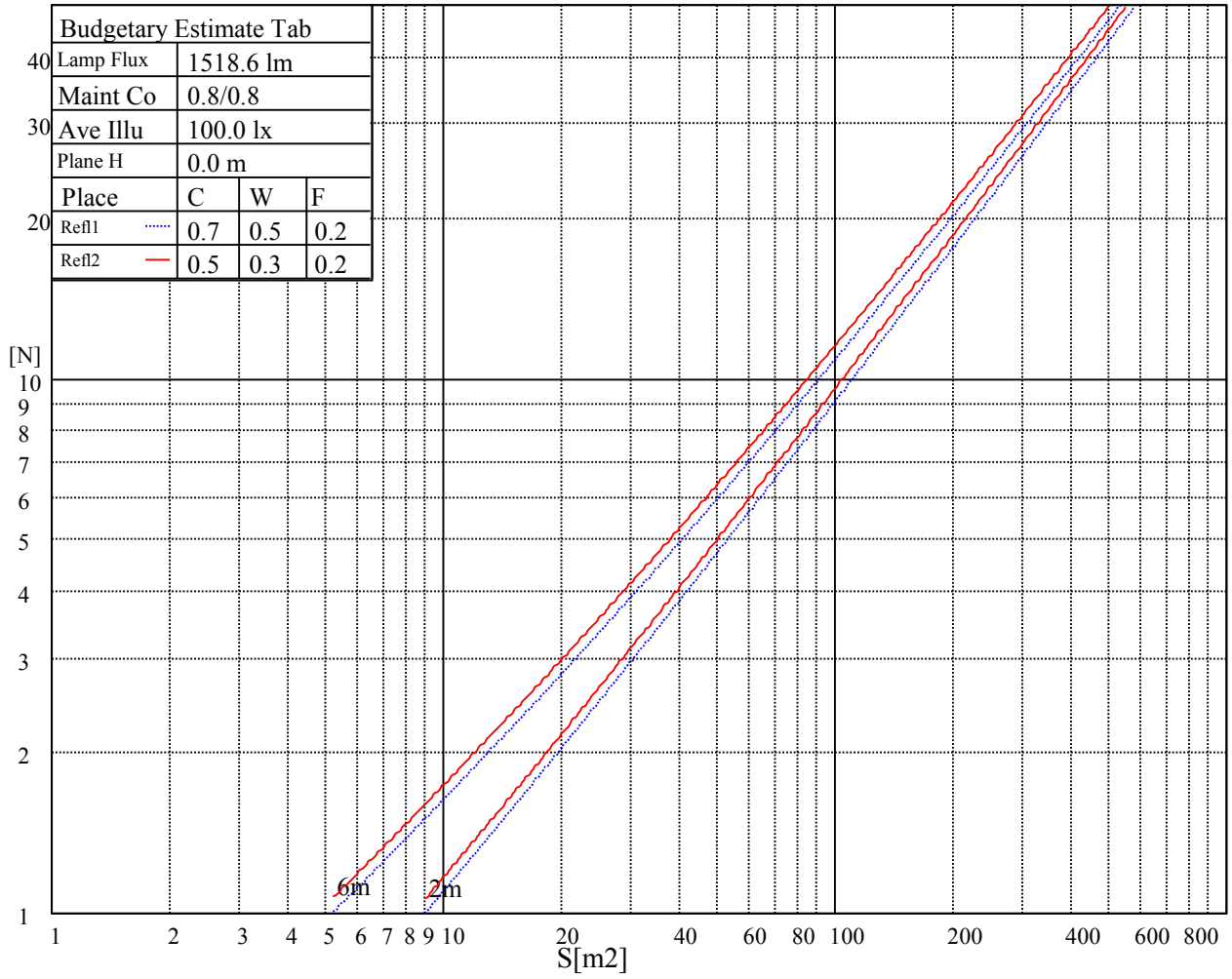
Date: 2025/4/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

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	10.23	11.16	10.59	11.47	11.79	9.67	10.60	10.03	10.91	11.22
	3H	11.23	12.05	11.61	12.39	12.73	10.56	11.38	10.94	11.72	12.06
	4H	11.42	12.19	11.83	12.54	12.91	10.68	11.44	11.08	11.80	12.17
	6H	11.49	12.18	11.91	12.56	12.96	10.72	11.41	11.14	11.79	12.19
	8H	11.49	12.15	11.91	12.54	12.94	10.72	11.39	11.15	11.77	12.18
	12H	11.50	12.13	11.93	12.52	12.94	10.74	11.37	11.17	11.77	12.18
4H	2H	10.57	11.33	10.97	11.69	12.05	10.11	10.87	10.51	11.23	11.59
	3H	11.64	12.28	12.07	12.68	13.10	11.07	11.71	11.50	12.11	12.53
	4H	11.93	12.48	12.37	12.91	13.36	11.29	11.84	11.73	12.26	12.71
	6H	11.99	12.47	12.46	12.93	13.38	11.32	11.80	11.79	12.26	12.71
	8H	12.04	12.48	12.52	12.94	13.42	11.37	11.81	11.85	12.27	12.75
	12H	12.11	12.52	12.60	12.97	13.49	11.44	11.85	11.93	12.31	12.83
8H	4H	11.89	12.34	12.38	12.80	13.28	11.28	11.73	11.77	12.19	12.67
	6H	11.99	12.36	12.50	12.84	13.35	11.36	11.73	11.87	12.21	12.72
	8H	12.13	12.43	12.66	12.95	13.45	11.50	11.81	12.04	12.33	12.83
	12H	12.26	12.49	12.80	13.01	13.53	11.64	11.87	12.19	12.39	12.91
12H	4H	11.85	12.26	12.34	12.72	13.24	11.25	11.66	11.74	12.11	12.64
	6H	12.00	12.31	12.54	12.83	13.33	11.38	11.69	11.92	12.21	12.71
	8H	12.12	12.35	12.67	12.87	13.39	11.51	11.74	12.06	12.26	12.78
Variation with the observer position at spacings:											
S = 1.0H		1.4/-0.8					1.4/-0.8				
S = 1.5H		2.5/-1.1					2.5/-1.1				
S = 2.0H		4.2/-1.4					4.2/-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
Temperature(°C): 25.0

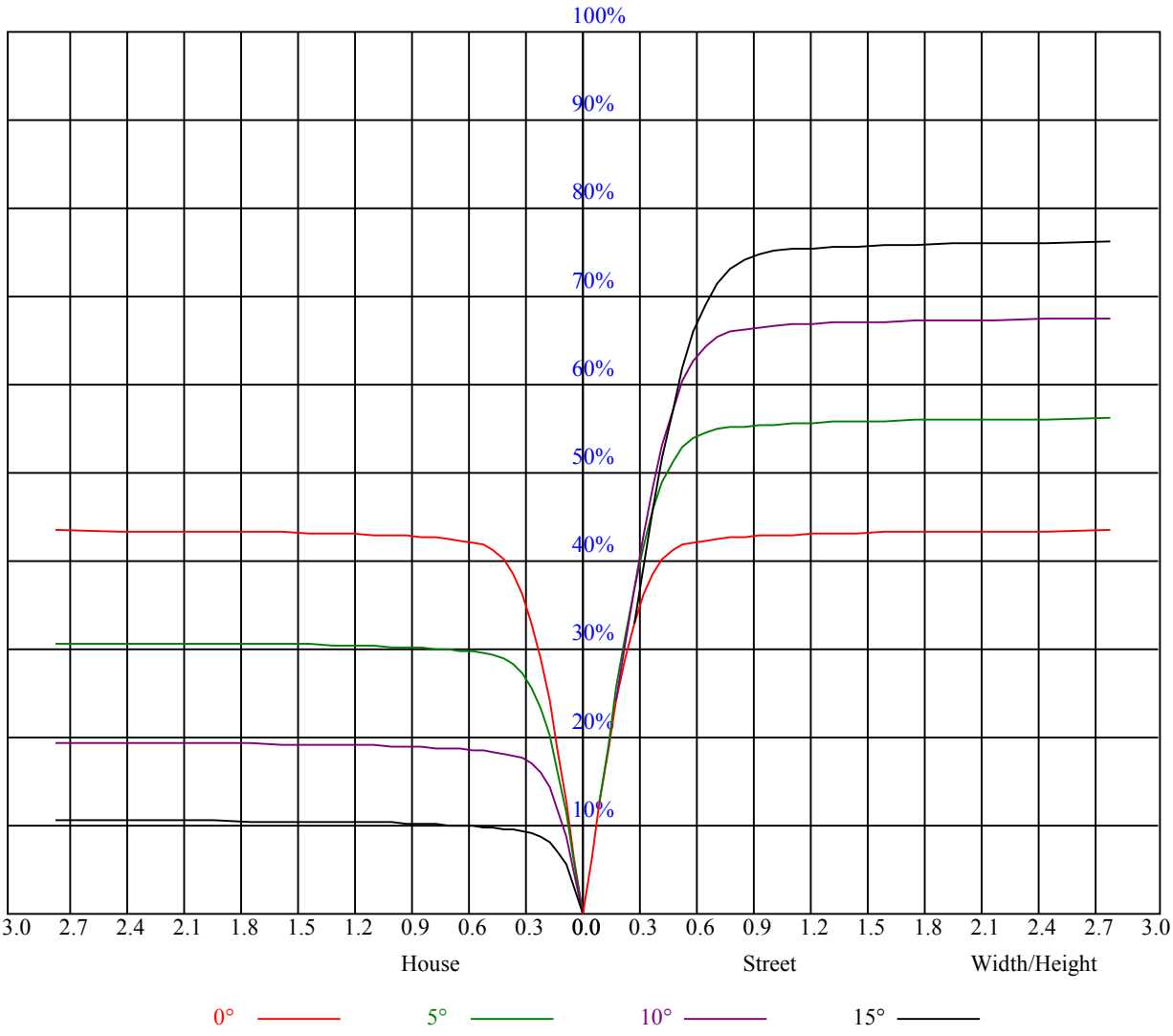
Date: 2025/4/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

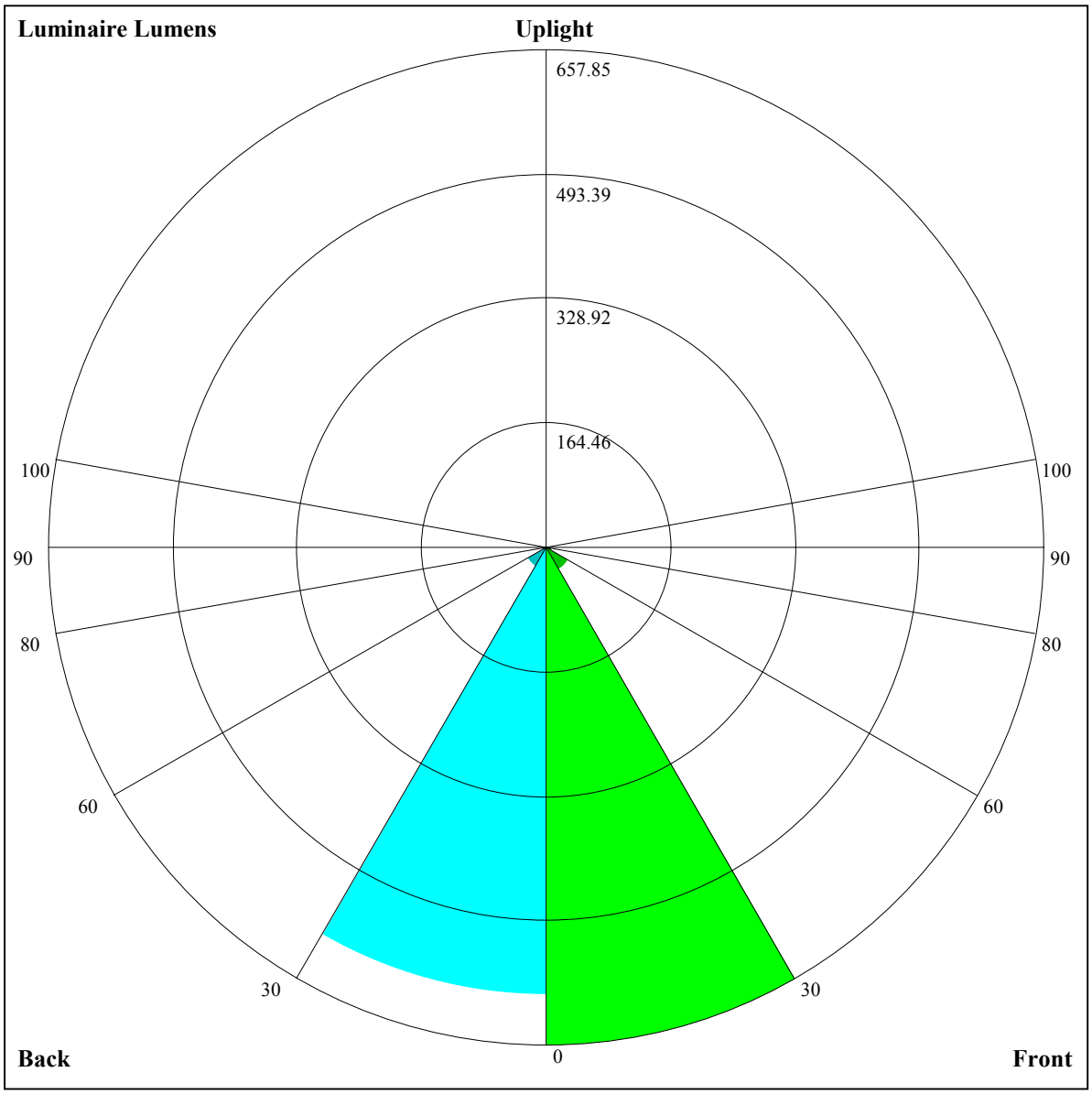
Utilization factor table for indoor luminaire

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	1.04	1.04	1.04	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.87
1	0.98	0.96	0.94	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	0.83
2	0.93	0.90	0.87	0.91	0.89	0.86	0.88	0.86	0.85	0.86	0.84	0.83	0.84	0.82	0.81	0.80
3	0.88	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.76
4	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.75	0.73
5	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.72	0.71
6	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
7	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.66
8	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
9	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2025/4/30	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.30



Luminaire Lumens:
FL=657.85,FM=34.46,FH=7.13,FVH=1.02
BL=591.36,BM=29.76,BH=6.68,BVH=1.04
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	3810.93	3816.79	3809.86	3787.48	3767.76	3693.69	3654.79	3580.71	3501.31
45.0	3772.03	3790.14	3796.01	3791.21	3775.22	3743.25	3700.62	3642.53	3573.25
90.0	3762.43	3740.05	3712.34	3674.51	3646.26	3589.77	3489.59	3437.90	3338.78
135.0	3771.49	3740.05	3717.14	3644.66	3607.36	3538.08	3459.21	3370.75	3270.03
180.0	3810.93	3789.61	3754.44	3706.48	3645.73	3568.46	3485.86	3395.80	3292.95
225.0	3772.03	3742.72	3701.68	3649.99	3604.70	3523.16	3460.81	3370.22	3246.59
270.0	3762.43	3772.56	3771.49	3760.30	3742.18	3712.34	3668.64	3615.35	3551.41
315.0	3771.49	3791.21	3792.81	3778.95	3756.57	3719.27	3670.78	3607.89	3531.69
360.0	3810.93	3816.79	3809.86	3787.48	3767.76	3693.69	3654.79	3580.71	3501.31

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3400.59	3288.69	3166.12	3021.17	2865.03	2691.84	2498.40	2292.70	2083.80
45.0	3489.06	3391.00	3278.03	3144.27	2990.26	2818.67	2631.62	2511.18	2220.75
90.0	3226.87	3093.64	2942.83	2776.04	2592.19	2395.55	2186.12	1972.96	1757.66
135.0	3151.73	3021.17	2873.02	2708.36	2529.30	2335.86	2137.09	1929.26	1721.96
180.0	3177.84	3050.48	2907.13	2748.33	2580.46	2399.28	2205.30	2087.00	1810.95
225.0	3152.26	3019.57	2868.23	2701.96	2525.04	2335.33	2137.09	1936.72	1736.35
270.0	3473.60	3379.28	3272.17	3148.00	3008.38	2850.64	2677.45	2484.54	2281.50
315.0	3440.03	3340.38	3225.27	3090.45	2938.04	2770.17	2584.72	2382.76	2171.73
360.0	3400.59	3288.69	3166.12	3021.17	2865.03	2691.84	2498.40	2292.70	2083.80

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1868.51	1653.75	1445.92	996.52	996.52	926.45	759.12	605.21	474.71
45.0	2091.79	1875.43	1666.01	1462.44	1267.40	1081.41	905.56	744.09	598.61
90.0	1546.64	1247.68	1012.24	1012.24	839.69	652.59	541.32	419.82	318.89
135.0	1515.73	1315.36	1200.25	946.06	776.60	680.14	534.13	412.09	310.84
180.0	1611.65	1493.35	1225.30	1116.59	943.39	781.92	633.78	501.62	386.51
225.0	1541.84	1351.59	999.99	999.99	898.79	742.44	599.94	474.39	366.21
270.0	2112.04	1899.95	1644.69	1480.02	1282.32	1094.74	918.35	752.61	603.40
315.0	1996.40	1733.15	1521.06	1261.00	1056.47	982.51	809.53	648.81	508.44
360.0	1868.51	1653.75	1445.92	996.52	996.52	926.45	759.12	605.21	474.71

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	361.15	269.65	196.64	141.27	102.80	78.50	63.15	52.92	45.67
45.0	471.24	363.06	307.64	307.64	159.34	109.88	87.08	67.73	52.76
90.0	239.22	176.92	129.33	95.23	72.79	57.93	47.64	40.29	34.90
135.0	310.84	158.70	116.39	87.56	68.10	55.53	46.68	40.39	35.49
180.0	291.66	291.66	148.31	111.00	85.26	67.52	54.94	46.47	40.34
225.0	276.89	208.04	155.07	115.59	87.88	68.96	55.79	46.68	39.97
270.0	473.91	365.20	277.27	277.27	151.61	111.86	94.11	66.56	58.51
315.0	389.39	293.73	218.76	162.16	120.49	91.29	71.30	57.82	51.90
360.0	361.15	269.65	196.64	141.27	102.80	78.50	63.15	52.92	45.67

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	39.65	35.01	31.23	27.87	25.15	23.02	21.80	19.56	18.81
45.0	45.67	39.27	34.16	30.22	27.23	24.94	22.97	21.00	18.97
90.0	30.85	27.39	24.51	22.12	20.84	18.49	17.05	16.41	15.51
135.0	31.39	27.98	26.27	22.75	21.53	19.72	17.80	17.11	16.25
180.0	37.14	32.56	27.60	25.85	23.23	21.16	19.45	17.96	16.89
225.0	34.90	30.75	27.34	24.57	22.17	19.98	18.65	17.27	16.25
270.0	48.97	41.83	36.29	32.03	28.40	25.31	22.65	20.41	18.60
315.0	44.28	36.29	33.63	29.74	26.70	23.98	21.69	19.88	18.44
360.0	39.65	35.01	31.23	27.87	25.15	23.02	21.80	19.56	18.81

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	17.69	16.84	16.20	15.83	15.88	16.31	16.73	16.79	16.31
45.0	17.53	16.47	15.99	15.83	16.63	19.13	20.94	20.52	16.25
90.0	14.92	14.81	15.40	16.09	16.15	16.41	16.25	15.29	14.55
135.0	15.72	16.09	17.69	18.49	18.44	17.05	15.45	14.55	14.23
180.0	16.20	15.88	16.09	17.32	19.50	21.10	20.57	18.54	16.52
225.0	15.45	15.03	15.03	15.93	17.59	18.81	17.59	15.93	15.03
270.0	17.16	16.09	15.40	15.13	15.51	17.53	19.24	18.49	15.24
315.0	17.32	16.47	16.15	16.09	16.41	17.59	18.86	18.17	17.00
360.0	17.69	16.84	16.20	15.83	15.88	16.31	16.73	16.79	16.31

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.72	15.35	14.76	14.12	13.59	13.11	12.79	12.36	11.88
45.0	14.87	14.34	14.07	13.75	13.43	13.06	12.68	12.31	11.83
90.0	13.86	13.59	13.32	12.84	12.20	11.83	11.40	11.19	10.50
135.0	13.80	13.32	13.16	12.90	12.58	12.26	11.67	11.46	11.03
180.0	14.97	14.39	13.38	13.00	12.68	12.10	11.94	11.56	11.19
225.0	14.34	13.80	13.16	12.63	12.20	11.83	11.46	11.14	10.39
270.0	14.02	13.70	13.59	13.43	13.00	12.74	12.42	12.04	11.67
315.0	15.61	14.81	14.49	14.23	13.75	13.38	13.00	12.52	12.10
360.0	15.72	15.35	14.76	14.12	13.59	13.11	12.79	12.36	11.88

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.51	10.98	10.28	9.81	9.17	8.53	7.83	7.14	6.50
45.0	11.35	10.87	10.39	9.75	9.11	8.47	7.89	7.14	6.45
90.0	10.18	9.59	8.74	8.42	7.83	7.09	6.39	5.76	5.12
135.0	10.44	10.13	9.59	9.17	8.63	8.05	7.35	6.66	5.97
180.0	10.82	10.34	9.81	9.27	8.74	8.26	7.62	6.93	6.34
225.0	10.13	9.49	8.74	8.42	7.83	7.19	6.55	6.02	5.44
270.0	11.24	10.76	10.23	9.65	9.11	8.58	7.94	7.30	6.71
315.0	11.67	11.19	10.66	10.07	9.49	8.90	8.31	7.62	6.98
360.0	11.51	10.98	10.28	9.81	9.17	8.53	7.83	7.14	6.50

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.86	5.22	4.64	4.10	3.52	2.88	2.50	2.45	2.34
45.0	5.81	5.38	4.58	4.00	3.73	3.14	2.56	2.18	2.13
90.0	4.53	4.00	3.46	2.93	2.40	2.13	2.08	2.08	1.97
135.0	5.33	4.74	4.05	3.41	2.72	2.45	2.34	2.24	2.18
180.0	5.76	5.17	4.53	4.00	3.30	2.77	2.50	2.40	2.40
225.0	4.85	4.32	3.84	3.36	2.77	2.45	2.45	2.40	2.29
270.0	6.13	5.54	4.90	4.32	3.84	3.30	2.93	2.29	2.18
315.0	6.39	5.76	5.17	4.53	3.94	3.30	2.88	2.40	2.29
360.0	5.86	5.22	4.64	4.10	3.52	2.88	2.50	2.45	2.34

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.24	2.13	2.13	2.08	1.97	1.97	1.92	1.92	1.81
45.0	2.03	1.97	1.92	1.92	1.81	1.76	1.65	1.65	1.60
90.0	1.97	1.97	1.92	1.92	1.81	1.76	1.71	1.60	1.55
135.0	2.08	2.08	1.97	1.97	1.87	1.81	1.71	1.60	1.49
180.0	2.29	2.18	2.08	1.97	1.87	1.81	1.76	1.60	1.55
225.0	2.18	2.24	2.13	2.18	2.08	2.08	2.08	2.08	2.03
270.0	2.13	2.03	1.97	1.97	1.87	1.76	1.76	1.65	1.55
315.0	2.24	2.13	2.08	2.03	1.87	1.76	1.71	1.65	1.60
360.0	2.24	2.13	2.13	2.08	1.97	1.97	1.92	1.92	1.81

Intensity data(cd)

C/γ(°)	90.0
0.0	1.71
45.0	1.49
90.0	1.60
135.0	1.55
180.0	1.49
225.0	2.03
270.0	1.49
315.0	1.49
360.0	1.71