ZhongShan HaoXiang Lighting CO.,LTD
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Address:12 Wanfu Road Xinglong industrial area,Jiu Zhou ji,Xiaolan town,Zhongshan City,China.

HX-DA614R-30090

LumCAT: HX-DA614R-30090
Report No:
Test No:
LampCAT: 2835 12C7B
Lamp flux(lm): 1556.0
Number of Lamps: 1
Length(mm): -105
Phm Type: C

Luminaire: HX-DA614R
Voltage(V): 230.600
Current(A): 0.061
Power (W): 13.200
PF: 0.943
Ballast type: LS-16-350 LI1 16/220-240/350CS
Width(mm): -105
Height(mm): 0

Photometric Results

Lumens(lm): 1035.37
Efficiency(%): 66.54%
Lumens(lm)/Power(W): 78.44
Central intensity(cd): 469.704
Maximum intensity(cd): 473.456
Angle of maximum intensity: C=30.0 γ=0.0
Beam Angle(50%Imax): [H]Left=47.8 Right=45.4
[V]Left=50.5 Right=42.9
Field angle(10%Imax): [H]Left=73.1 Right=70.1
[V]Left=75.0 Right=68.2
Maximum s/h: C0_180=1.16 C90_270=1.19
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 66.54%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 86.992%

Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2023-9-14
Humidity(%): 65.3%
Operator: MinLi Ke
Distance(m): 7.27

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	471.007	.000	.000	.000%	.000%
1.0	470.884	.451	.451	.029%	.029%
2.0	470.501	1.351	1.802	.087%	.116%
3.0	469.928	2.249	4.051	.145%	.260%
4.0	469.118	3.143	7.194	.202%	.462%
5.0	468.061	4.032	11.226	.259%	.721%
6.0	466.744	4.913	16.139	.316%	1.037%
7.0	465.264	5.785	21.924	.372%	1.409%
8.0	463.450	6.647	28.570	.427%	1.836%
9.0	461.586	7.497	36.067	.482%	2.318%
10.0	459.402	8.335	44.402	.536%	2.854%
11.0	457.032	9.157	53.559	.589%	3.442%
12.0	454.482	9.964	63.523	.640%	4.082%
13.0	451.606	10.753	74.276	.691%	4.774%
14.0	448.541	11.522	85.798	.740%	5.514%
15.0	445.220	12.270	98.068	.789%	6.303%
16.0	441.723	12.996	111.064	.835%	7.138%
17.0	437.974	13.699	124.763	.880%	8.018%
18.0	434.002	14.377	139.140	.924%	8.942%
19.0	429.483	15.023	154.163	.965%	9.908%
20.0	424.907	15.638	169.801	1.005%	10.913%
21.0	419.859	16.221	186.022	1.042%	11.955%
22.0	414.640	16.770	202.792	1.078%	13.033%
23.0	409.231	17.287	220.079	1.111%	14.144%
24.0	403.501	17.769	237.848	1.142%	15.286%
25.0	397.731	18.218	256.066	1.171%	16.457%
26.0	391.508	18.630	274.696	1.197%	17.654%
27.0	385.368	19.006	293.703	1.221%	18.875%
28.0	378.731	19.345	313.048	1.243%	20.119%
29.0	372.199	19.646	332.694	1.263%	21.381%
30.0	365.381	19.915	352.609	1.280%	22.661%
31.0	358.598	20.147	372.756	1.295%	23.956%
32.0	351.542	20.345	393.101	1.307%	25.264%
33.0	344.240	20.498	413.599	1.317%	26.581%
34.0	336.792	20.610	434.209	1.325%	27.905%
35.0	329.371	20.689	454.897	1.330%	29.235%
36.0	321.808	20.734	475.631	1.332%	30.568%
37.0	314.127	20.741	496.372	1.333%	31.900%

HX-DA614R-30090

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	306.560	20.718	517.089	1.331%	33.232%
39.0	298.456	20.651	537.740	1.327%	34.559%
40.0	290.682	20.547	558.287	1.321%	35.880%
41.0	282.318	20.404	578.692	1.311%	37.191%
42.0	274.302	20.223	598.915	1.300%	38.491%
43.0	266.057	20.016	618.931	1.286%	39.777%
44.0	258.076	19.782	638.713	1.271%	41.048%
45.0	249.880	19.521	658.235	1.255%	42.303%
46.0	241.710	19.225	677.460	1.236%	43.539%
47.0	233.473	18.899	696.359	1.215%	44.753%
48.0	225.184	18.541	714.900	1.192%	45.945%
49.0	216.944	18.156	733.056	1.167%	47.112%
50.0	208.646	17.744	750.801	1.140%	48.252%
51.0	200.555	17.313	768.113	1.113%	49.365%
52.0	192.274	16.857	784.970	1.083%	50.448%
53.0	183.999	16.368	801.338	1.052%	51.500%
54.0	175.692	15.854	817.191	1.019%	52.519%
55.0	167.539	15.321	832.513	.985%	53.503%
56.0	159.523	14.779	847.292	.950%	54.453%
57.0	151.490	14.220	861.512	.914%	55.367%
58.0	143.685	13.650	875.162	.877%	56.244%
59.0	135.788	13.066	888.227	.840%	57.084%
60.0	128.010	12.463	900.690	.801%	57.885%
61.0	120.192	11.845	912.535	.761%	58.646%
62.0	112.497	11.212	923.747	.721%	59.367%
63.0	104.931	10.575	934.322	.680%	60.046%
64.0	97.765	9.946	944.268	.639%	60.686%
65.0	90.405	9.312	953.580	.598%	61.284%
66.0	83.353	8.669	962.250	.557%	61.841%
67.0	76.306	8.028	970.278	.516%	62.357%
68.0	69.480	7.385	977.663	.475%	62.832%
69.0	62.939	6.755	984.418	.434%	63.266%
70.0	56.614	6.140	990.558	.395%	63.661%
71.0	50.695	5.546	996.105	.356%	64.017%
72.0	45.075	4.980	1001.084	.320%	64.337%
73.0	39.803	4.438	1005.523	.285%	64.622%
74.0	34.834	3.924	1009.447	.252%	64.874%
75.0	30.633	3.459	1012.906	.222%	65.097%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	27.069	3.063	1015.969	.197%	65.294%
77.0	24.145	2.731	1018.699	.175%	65.469%
78.0	21.749	2.457	1021.156	.158%	65.627%
79.0	19.727	2.229	1023.384	.143%	65.770%
80.0	17.829	2.025	1025.409	.130%	65.900%
81.0	15.962	1.827	1027.237	.117%	66.018%
82.0	14.090	1.630	1028.866	.105%	66.123%
83.0	12.293	1.434	1030.300	.092%	66.215%
84.0	10.557	1.245	1031.545	.080%	66.295%
85.0	8.879	1.061	1032.606	.068%	66.363%
86.0	7.232	.881	1033.487	.057%	66.419%
87.0	5.673	.706	1034.193	.045%	66.465%
88.0	4.145	.538	1034.731	.035%	66.499%
89.0	2.757	.378	1035.109	.024%	66.524%
90.0	2.022	.262	1035.371	.017%	66.541%

Zonal flux distribution table

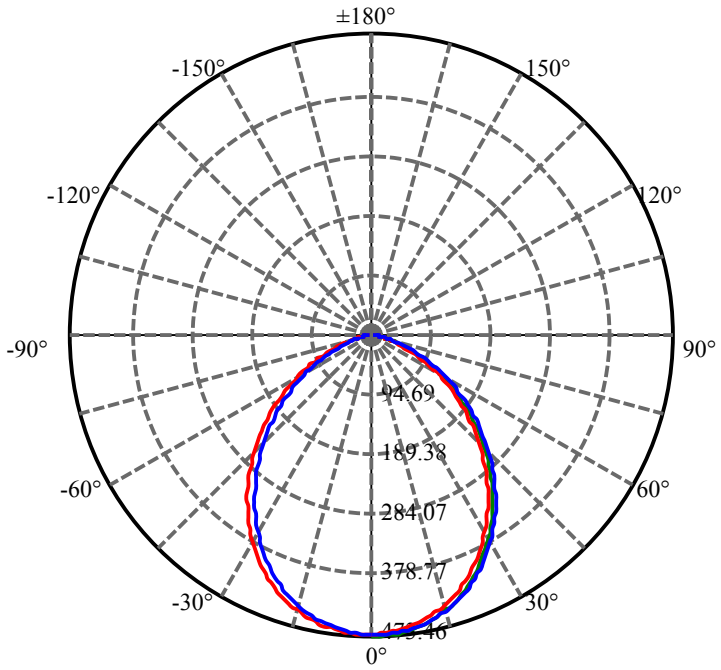
ZONAL LUMEN SUMMARY

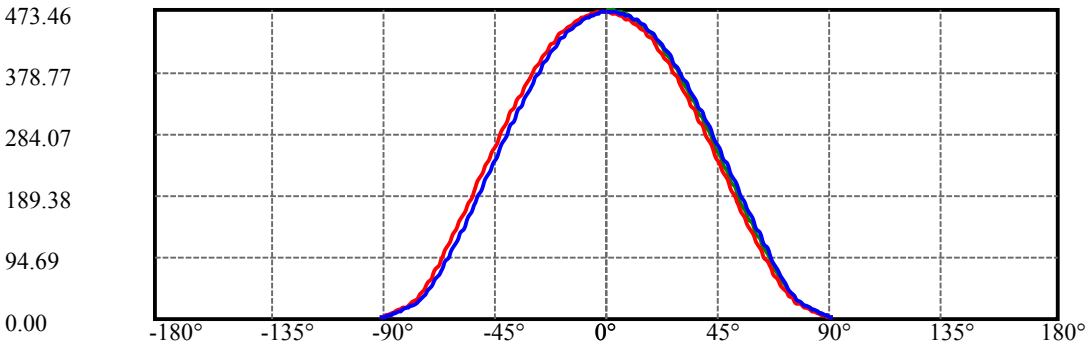
Zone	Lumens	%Lamp	%Fixt
0-30	352.61	22.66%	34.06%
0-40	558.29	35.88%	53.92%
0-60	900.69	57.88%	86.99%
0-90	1035.11	66.52%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	1035.37	66.54%	100.00%

ZONAL LUMEN SUMMARY

0-10	44.40
10-20	125.40
20-30	182.81
30-40	205.68
40-50	192.51
50-60	149.89
60-70	89.87
70-80	34.85
80-90	9.70
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]



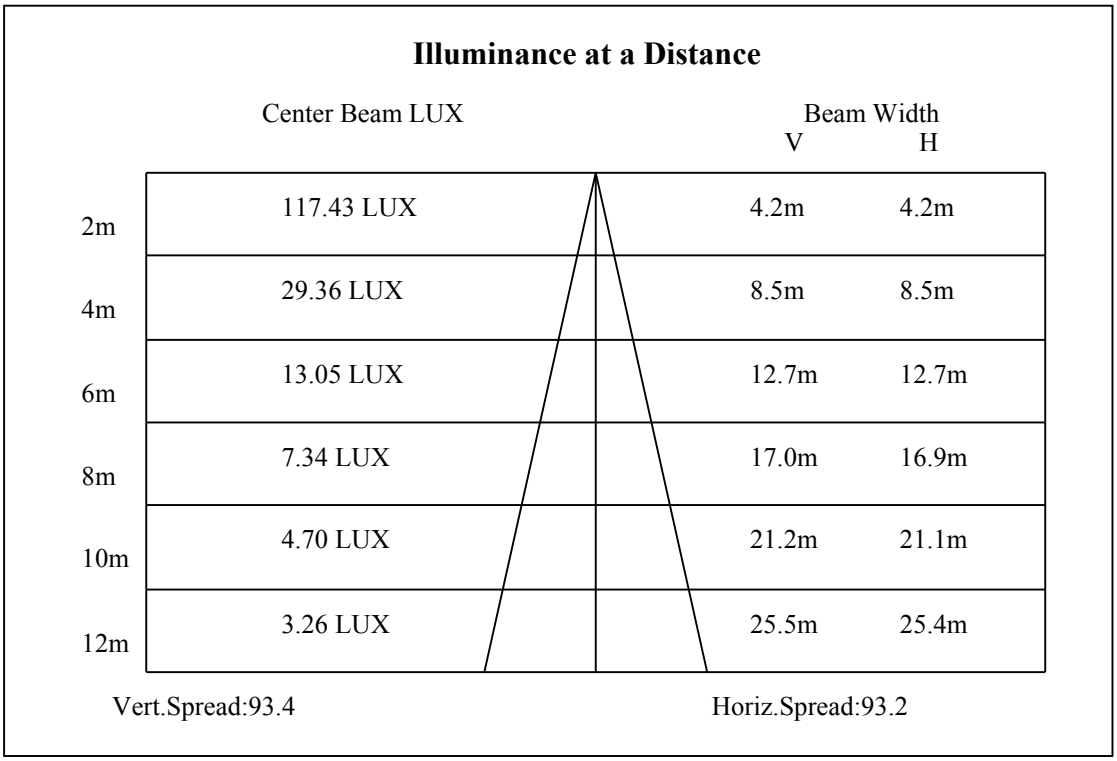


C30(Max):

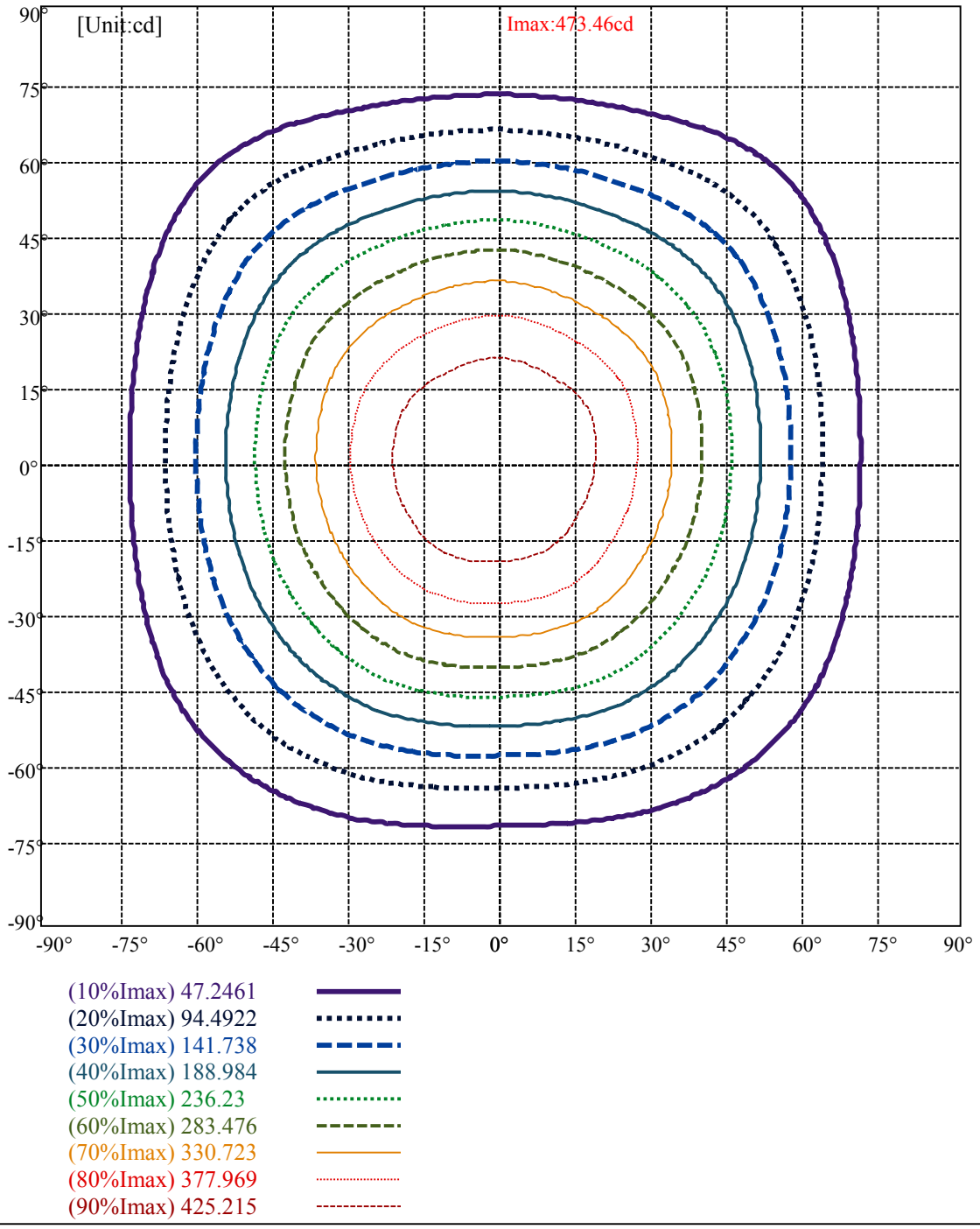
C0/C180:

C90/C270:

Lux distance Curve



ISO-Intensity(V-H)

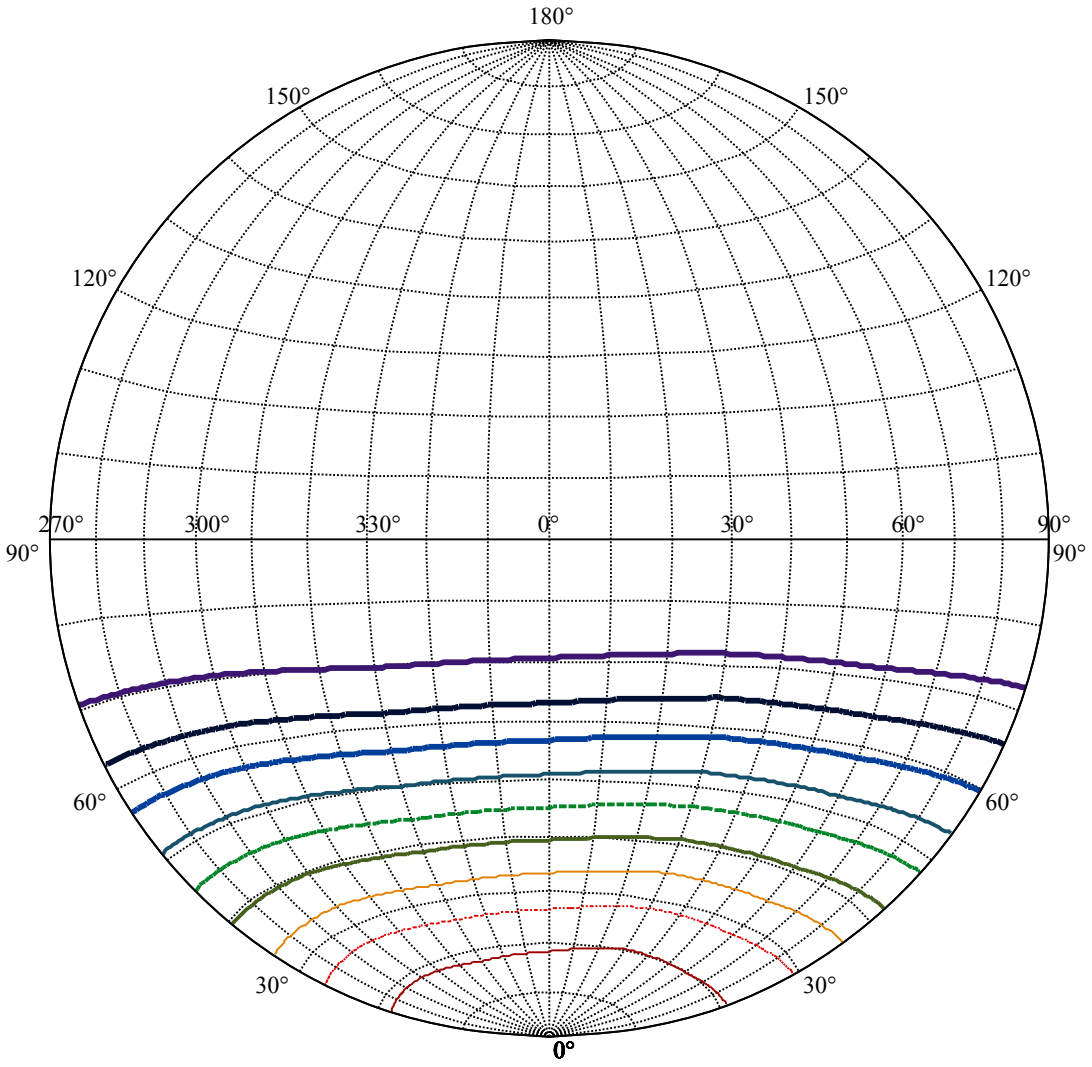


Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-14
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

ISO candela diagram on circular web



Imax:473.46cd

(10%Imax) 47.3456
(20%Imax) 94.6913
(30%Imax) 142.037
(40%Imax) 189.383
(50%Imax) 236.728
(60%Imax) 284.074
(70%Imax) 331.419
(80%Imax) 378.765
(90%Imax) 426.111

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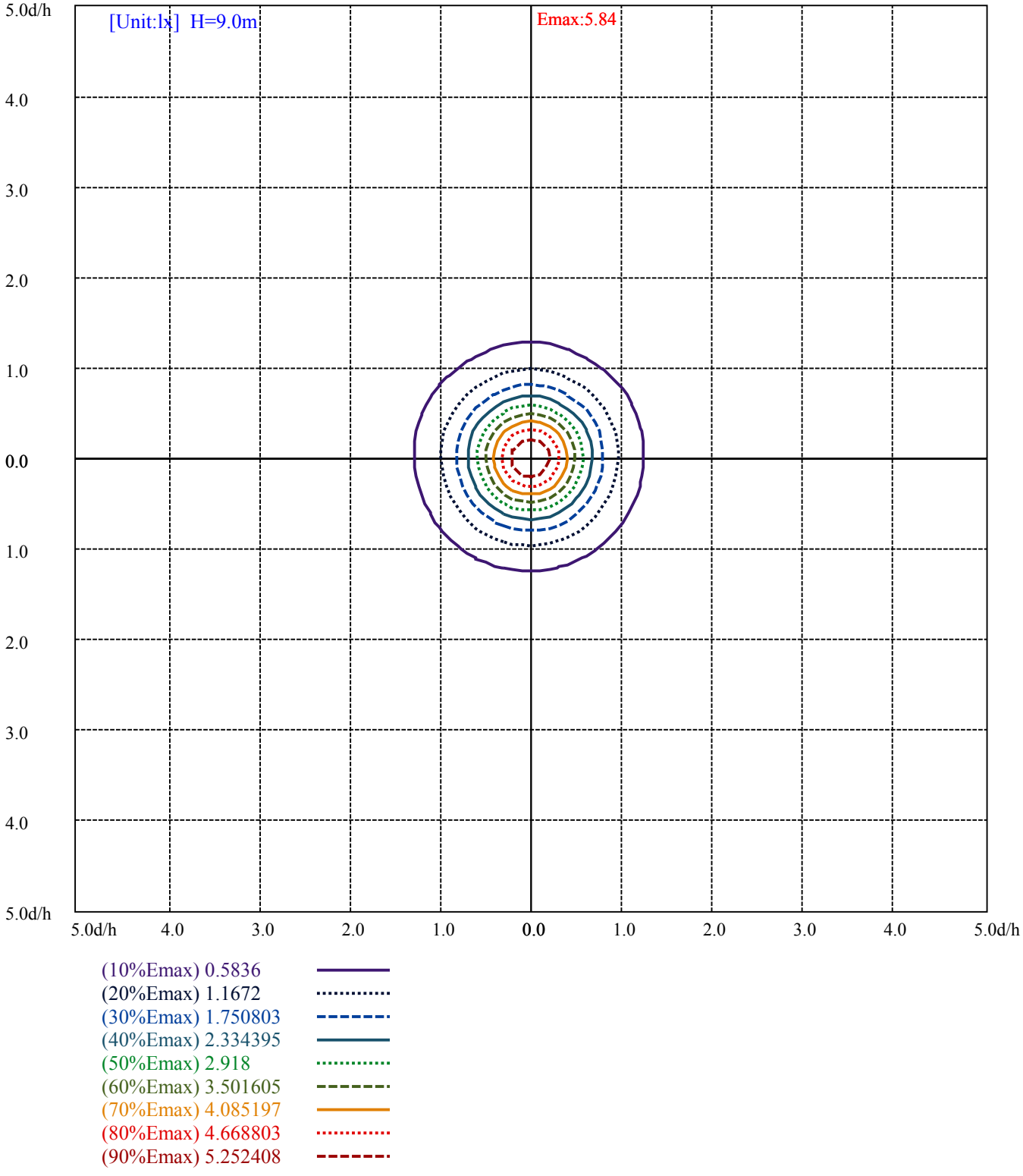
ISO illuminance diagram

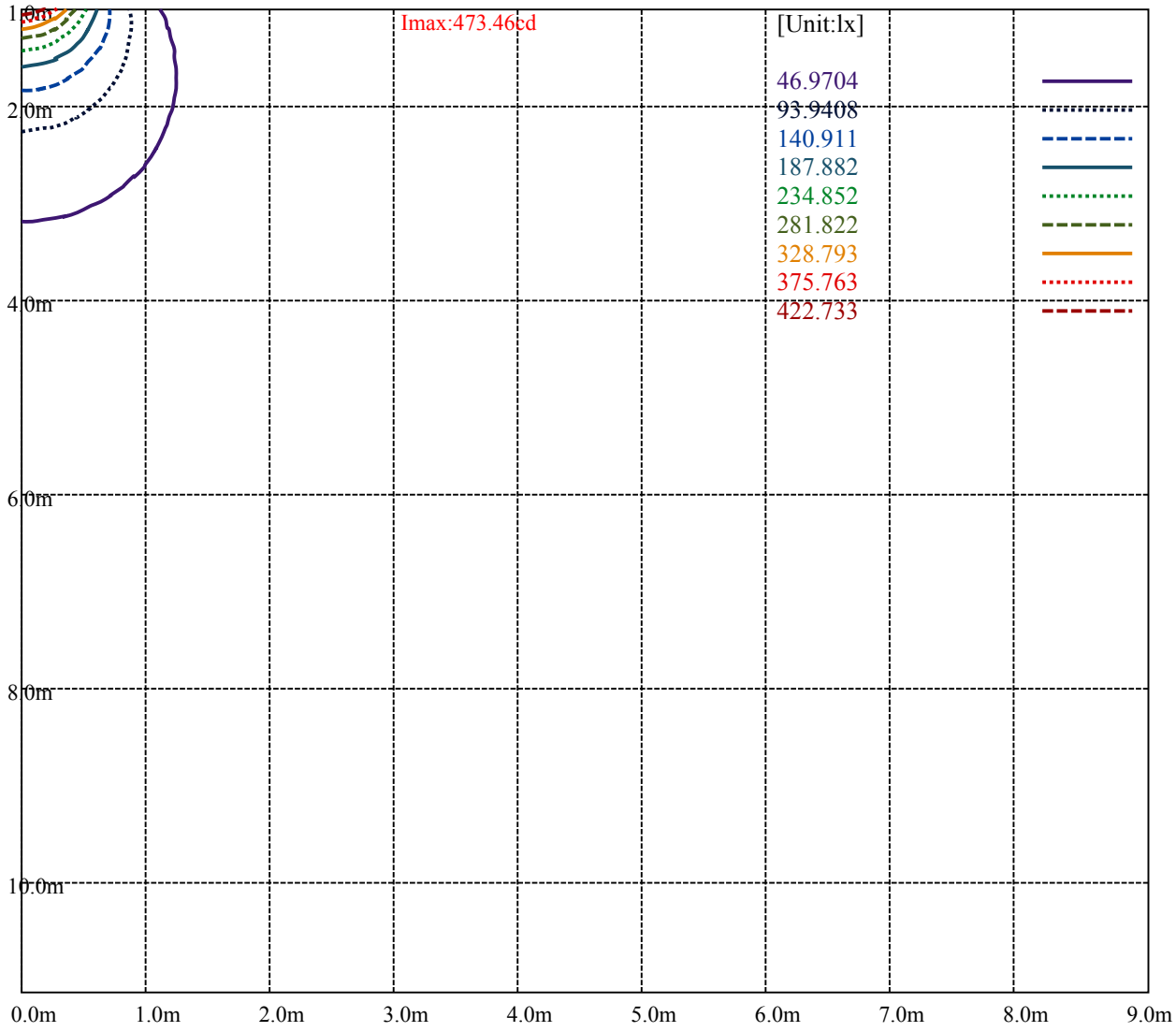


Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-14
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

Space ISO Lux diagram



Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-14
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

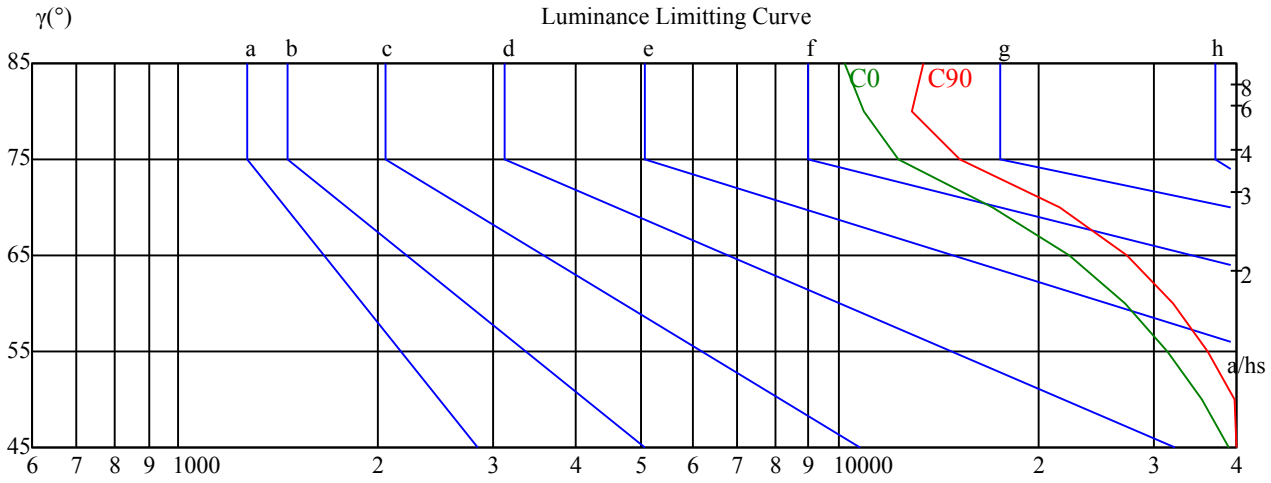
Luminance Limitting Curve(no luminous side)

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	38965	35353	31531	27089	22271	17043	12310	10932	10225
C45	0	0	0	0	0	0	0	0	0
C90	42694	39683	36118	32167	27355	21630	15282	12900	13446

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



Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-14
Humidity(%): 65.3%

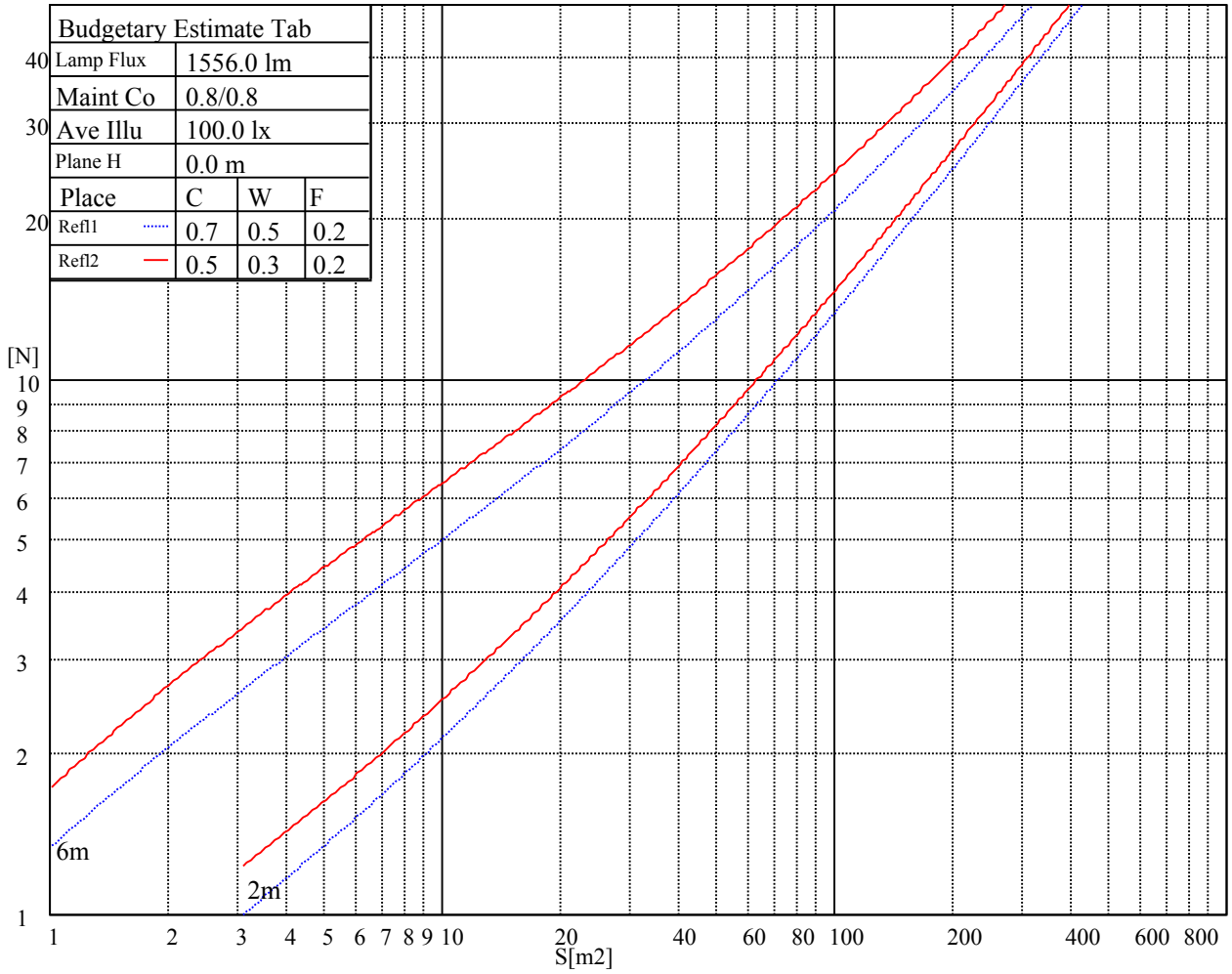
Operator: MinLi Ke
Distance(m): 7.27

UGR Glare

Illuminatin assessment acconding 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	22.8	24.1	23.1	24.3	24.6	23.2	24.5	23.5	24.7	24.9
	3H	23.6	24.7	23.9	25.0	25.3	24.1	25.2	24.4	25.5	25.8
	4H	23.6	24.6	24.0	24.9	25.2	24.2	25.1	24.5	25.4	25.8
	6H	23.8	24.8	24.2	25.1	25.4	24.4	25.3	24.7	25.6	26.0
	8H	23.9	24.8	24.3	25.1	25.5	24.4	25.4	24.8	25.7	26.0
	12H	23.8	24.5	24.2	24.8	25.3	24.3	25.0	24.8	25.4	25.8
4H	2H	23.1	24.1	23.5	24.4	24.7	23.4	24.4	23.8	24.7	25.0
	3H	24.1	24.8	24.5	25.2	25.6	24.4	25.1	24.9	25.5	25.9
	4H	24.4	25.1	24.8	25.5	25.9	24.8	25.5	25.2	25.9	26.3
	6H	24.6	25.3	25.0	25.7	26.1	25.0	25.7	25.5	26.1	26.5
	8H	24.6	25.0	25.1	25.4	25.9	25.0	25.4	25.5	25.9	26.4
	12H	24.6	25.0	25.1	25.5	26.0	25.1	25.5	25.6	26.0	26.5
8H	4H	24.4	24.8	24.9	25.3	25.8	24.8	25.2	25.3	25.7	26.2
	6H	24.7	25.1	25.2	25.6	26.1	25.1	25.5	25.6	26.0	26.5
	8H	24.9	25.3	25.4	25.8	26.3	25.3	25.7	25.8	26.1	26.6
	12H	25.0	25.4	25.5	25.9	26.4	25.4	25.8	25.9	26.3	26.8
12H	4H	24.4	24.8	24.9	25.3	25.8	24.8	25.2	25.3	25.7	26.2
	6H	24.8	25.2	25.3	25.6	26.2	25.2	25.6	25.7	26.0	26.5
	8H	25.0	25.4	25.5	25.8	26.3	25.3	25.7	25.8	26.2	26.7

Variation with the observer position at spacings:		
S = 1.0H	0.5/-0.5	0.4/-0.5
S = 1.5H	0.7/-1.3	0.7/-1.1
S = 2.0H	1.9/-2.0	1.8/-1.7
Standard tables:	BK3	BK2
Uncorrected UGR	5.8	5.6
According 1000lm		

Budgetary Estimate Table



Equipment: GMS-1980 Date: 2023-9-14 Operator: MinLi Ke
Temperature(°C): 25.0 Humidity(%): 65.3% Distance(m): 7.27

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	0.79	0.79	0.79	0.77	0.77	0.77	0.74	0.74	0.74	0.71	0.71	0.71	0.68	0.68	0.68	0.67
1	0.71	0.68	0.66	0.69	0.67	0.65	0.66	0.64	0.63	0.64	0.62	0.61	0.61	0.60	0.59	0.58
2	0.63	0.59	0.55	0.61	0.58	0.55	0.59	0.56	0.53	0.57	0.54	0.52	0.55	0.53	0.51	0.50
3	0.56	0.51	0.47	0.55	0.50	0.46	0.53	0.49	0.46	0.51	0.48	0.45	0.49	0.47	0.44	0.43
4	0.50	0.45	0.40	0.49	0.44	0.40	0.47	0.43	0.40	0.46	0.42	0.39	0.45	0.41	0.39	0.37
5	0.45	0.39	0.35	0.44	0.39	0.35	0.43	0.38	0.35	0.42	0.38	0.34	0.40	0.37	0.34	0.33
6	0.41	0.35	0.31	0.40	0.35	0.31	0.39	0.34	0.31	0.38	0.34	0.31	0.37	0.33	0.30	0.29
7	0.37	0.32	0.28	0.37	0.31	0.28	0.36	0.31	0.28	0.35	0.30	0.27	0.34	0.30	0.27	0.26
8	0.34	0.29	0.25	0.34	0.29	0.25	0.33	0.28	0.25	0.32	0.28	0.25	0.31	0.27	0.25	0.23
9	0.31	0.26	0.23	0.31	0.26	0.23	0.30	0.26	0.23	0.30	0.25	0.22	0.29	0.25	0.22	0.21
10	0.29	0.24	0.21	0.29	0.24	0.21	0.28	0.24	0.21	0.27	0.23	0.20	0.27	0.23	0.20	0.19

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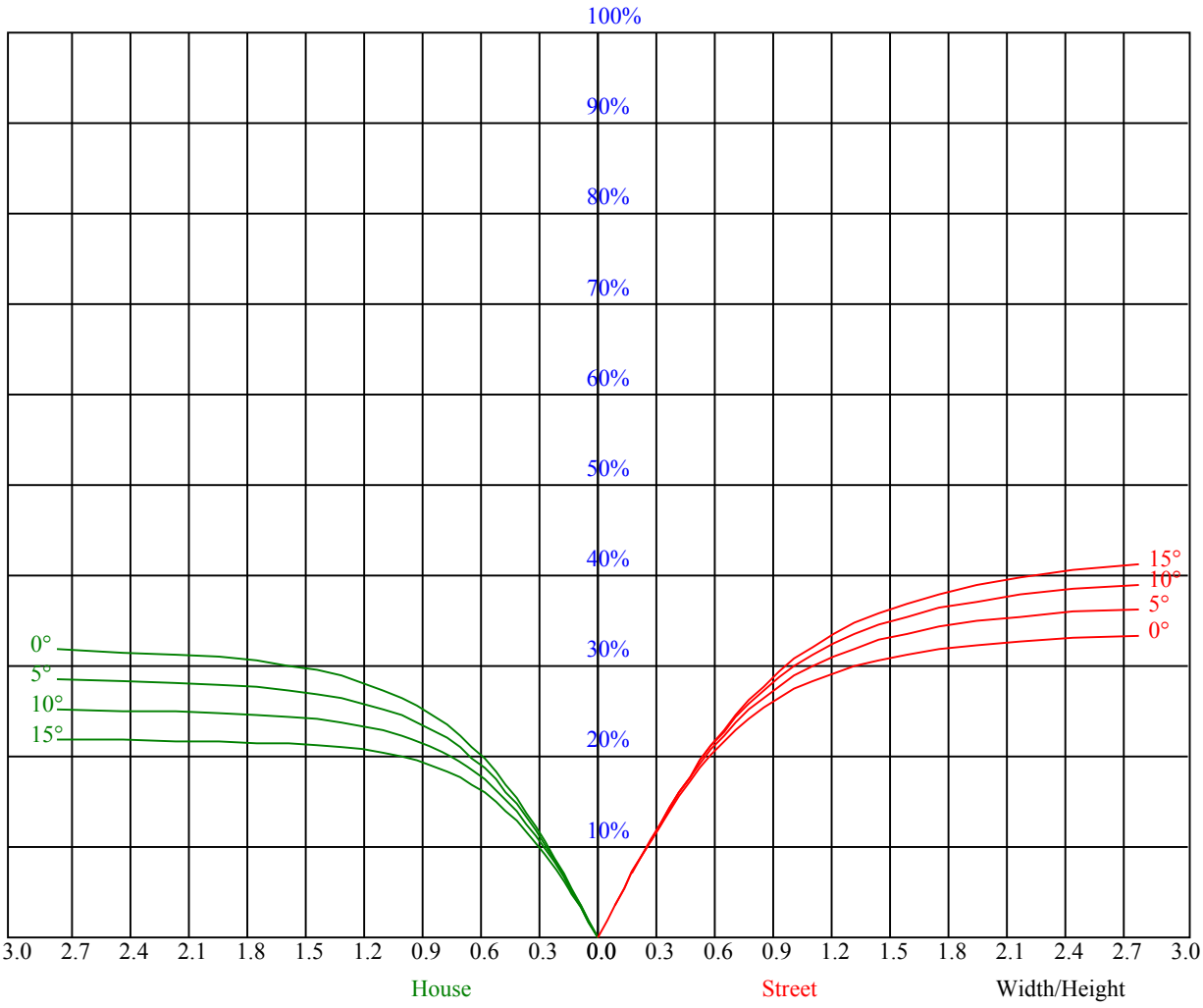
Coefficient Utilization Curve



Equipment: GMS-1980	Date: 2023-9-14	Operator: MinLi Ke
Temperature(°C): 25.0	Humidity(%): 65.3%	Distance(m): 7.27

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	469.70	469.33	468.65	467.91	466.69	465.58	464.00	462.15	459.98
30.0	473.46	473.35	472.98	472.45	471.77	470.76	469.39	467.75	466.16
60.0	471.98	471.82	471.40	470.92	470.07	468.96	467.54	466.27	464.26
90.0	470.60	470.66	470.39	470.13	469.55	468.75	467.80	466.59	465.05
120.0	470.50	470.66	470.44	470.18	469.55	468.65	467.64	466.32	464.79
150.0	469.81	470.13	470.18	470.13	469.92	469.23	468.33	467.22	466.00
180.0	469.70	469.81	469.86	469.60	469.18	468.38	467.22	465.85	464.31
210.0	473.46	473.35	472.98	472.24	471.50	470.39	469.23	467.80	465.90
240.0	471.98	471.71	471.29	470.81	470.02	469.07	467.70	466.32	464.52
270.0	470.60	470.39	469.76	468.59	467.38	466.00	464.26	462.67	460.45
300.0	470.50	470.13	469.55	468.70	467.59	466.27	464.74	463.15	461.09
330.0	469.81	469.28	468.54	467.48	466.22	464.68	463.10	461.09	458.87
360.0	469.70	469.33	468.65	467.91	466.69	465.58	464.00	462.15	459.98

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	457.92	455.38	452.90	449.99	447.08	443.54	439.74	436.25	431.97
30.0	464.15	462.04	459.61	457.18	454.11	450.89	447.56	444.18	440.74
60.0	462.52	460.19	457.92	455.12	452.05	449.20	445.76	442.54	438.68
90.0	463.68	461.83	459.56	457.49	454.64	451.73	448.83	445.50	442.22
120.0	463.10	461.35	459.03	456.60	453.85	451.26	448.03	445.07	441.59
150.0	464.42	462.73	460.93	458.71	456.23	453.48	450.84	447.51	444.49
180.0	462.83	460.93	458.76	456.60	453.80	450.99	447.88	444.92	441.37
210.0	464.10	461.67	459.45	456.70	454.11	450.99	447.51	443.75	440.21
240.0	462.52	460.24	457.92	455.17	452.58	449.41	446.24	442.64	438.68
270.0	458.50	456.07	453.32	450.78	447.61	444.60	441.00	437.04	432.65
300.0	458.87	456.38	453.90	451.10	448.25	444.81	441.43	437.62	433.39
330.0	456.44	454.01	451.10	448.35	444.97	441.59	437.83	433.66	429.69
360.0	457.92	455.38	452.90	449.99	447.08	443.54	439.74	436.25	431.97

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	427.90	422.93	417.70	412.94	407.23	401.10	395.60	389.79	383.13
30.0	436.67	432.07	427.69	422.51	417.12	412.09	406.02	400.57	394.12
60.0	434.82	430.22	425.36	420.07	415.05	409.98	403.95	397.93	391.69
90.0	438.47	434.19	430.28	425.47	420.97	415.58	410.56	404.91	398.88
120.0	438.04	433.71	429.11	424.14	419.60	414.68	409.08	403.32	397.30
150.0	441.00	437.46	433.24	428.64	424.25	419.12	414.31	408.87	402.90
180.0	437.94	433.76	429.64	424.78	419.49	414.68	409.08	404.06	398.14
210.0	435.72	431.02	426.63	421.87	416.22	411.20	405.12	399.04	392.54
240.0	434.72	430.17	425.84	420.71	415.27	410.03	404.01	398.30	391.90
270.0	428.58	423.56	418.70	413.79	408.02	401.95	395.76	390.00	383.40
300.0	429.38	424.51	419.97	414.47	408.82	402.90	397.30	390.74	384.87
330.0	424.78	420.18	414.74	408.92	403.64	397.45	391.22	385.24	379.22
360.0	427.90	422.93	417.70	412.94	407.23	401.10	395.60	389.79	383.13

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	376.42	369.44	363.05	355.75	349.25	341.75	334.88	327.05	319.07
30.0	387.52	381.44	374.73	368.28	360.93	354.17	346.61	338.79	330.91
60.0	385.88	379.01	372.82	365.58	359.14	351.58	343.91	336.14	329.22
90.0	392.43	386.67	380.75	374.04	367.86	360.72	353.48	345.98	339.32
120.0	391.85	385.40	379.33	372.56	366.16	358.98	351.58	344.92	337.31
150.0	397.51	391.16	384.66	378.74	371.98	365.79	358.66	351.31	344.71
180.0	391.96	385.61	379.59	372.93	366.64	359.35	352.79	345.24	337.57
210.0	386.62	379.75	373.67	366.48	359.03	352.42	344.71	337.78	329.91
240.0	385.93	379.11	372.19	365.11	358.71	351.31	344.50	336.57	329.59
270.0	377.26	370.23	363.05	356.44	348.93	342.17	334.35	327.27	319.34
300.0	378.69	371.77	364.58	357.29	350.73	343.33	336.41	328.48	321.45
330.0	372.35	365.16	357.97	351.37	343.81	336.94	329.01	321.98	314.05
360.0	376.42	369.44	363.05	355.75	349.25	341.75	334.88	327.05	319.07

Intensity data(cd)

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	310.78	303.48	296.08	287.57	279.27	271.66	263.26	254.91	247.19
30.0	323.83	315.80	308.45	300.20	292.75	284.14	275.42	267.81	259.24
60.0	322.19	314.42	307.18	298.94	290.59	282.02	274.36	265.85	258.35
90.0	331.65	324.68	316.75	308.71	301.53	293.33	285.78	277.21	269.76
120.0	330.54	322.83	315.85	307.76	299.57	291.06	283.45	274.94	267.65
150.0	337.10	330.33	322.40	315.43	307.39	299.25	290.80	283.19	274.78
180.0	330.86	323.30	316.32	308.29	300.94	292.54	283.93	275.52	268.18
210.0	322.83	314.79	306.55	298.09	290.74	282.39	274.89	266.48	258.82
240.0	321.56	313.52	306.12	297.83	290.43	281.97	273.73	266.38	257.76
270.0	311.25	303.01	295.55	287.10	279.54	270.92	263.47	254.91	246.19
300.0	313.26	304.91	297.40	289.05	281.44	272.99	264.74	256.34	248.62
330.0	305.86	298.46	290.06	282.50	273.99	265.53	257.82	249.15	240.38
360.0	310.78	303.48	296.08	287.57	279.27	271.66	263.26	254.91	247.19

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	238.58	230.76	222.09	213.31	205.49	196.77	189.16	180.70	173.20
30.0	251.74	243.28	234.72	227.00	218.39	209.83	202.16	194.45	185.78
60.0	249.84	241.38	233.77	225.47	217.97	209.51	201.85	193.02	184.35
90.0	261.41	253.17	244.66	237.05	228.48	220.87	212.36	204.65	195.82
120.0	259.24	251.63	243.07	234.56	227.06	218.44	210.62	201.63	192.60
150.0	267.54	259.19	251.69	242.96	234.46	226.79	217.97	210.25	201.32
180.0	259.88	252.32	243.65	235.30	227.74	219.13	211.46	202.64	194.71
210.0	250.26	241.59	233.93	225.26	217.49	208.93	200.31	192.65	183.98
240.0	249.10	241.27	232.55	224.78	216.01	207.34	199.63	191.01	183.45
270.0	238.42	229.80	222.04	213.42	204.65	196.93	188.26	179.65	172.09
300.0	239.90	232.13	223.30	215.48	206.76	198.04	190.32	181.76	174.26
330.0	232.66	223.99	216.22	207.61	198.83	191.17	182.55	174.89	166.43
360.0	238.58	230.76	222.09	213.31	205.49	196.77	189.16	180.70	173.20

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	164.85	156.60	148.20	140.85	132.61	125.37	117.28	110.20	102.64
30.0	177.06	168.60	161.36	153.17	145.93	137.68	129.65	122.51	114.59
60.0	175.79	168.34	160.04	152.64	144.45	137.15	129.17	121.03	113.85
90.0	187.05	179.38	171.03	163.58	155.28	146.72	139.27	130.92	122.62
120.0	184.83	176.11	168.50	159.99	152.43	143.92	135.67	127.38	119.87
150.0	192.44	183.77	176.16	167.60	160.09	152.48	143.92	135.41	127.01
180.0	186.10	177.43	168.92	161.36	153.96	145.61	137.42	129.97	121.61
210.0	175.47	167.91	160.46	152.11	143.87	135.51	128.17	119.92	112.79
240.0	175.15	167.76	159.35	151.00	142.76	135.41	128.22	120.19	112.31
270.0	164.58	156.23	147.83	139.64	132.40	124.36	117.17	109.30	102.53
300.0	165.96	157.71	150.21	141.86	133.61	126.37	118.34	111.36	103.70
330.0	159.03	150.63	142.23	134.09	126.85	118.87	111.84	104.12	96.46
360.0	164.85	156.60	148.20	140.85	132.61	125.37	117.28	110.20	102.64

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	95.14	88.63	81.50	75.37	68.55	62.05	55.71	50.47	44.82
30.0	107.77	100.16	93.44	85.99	78.75	71.72	65.59	58.88	53.17
60.0	105.86	98.89	91.07	83.35	76.69	69.40	63.11	56.45	50.90
90.0	115.27	108.03	100.10	92.18	84.46	77.80	70.40	64.06	57.13
120.0	111.52	104.38	96.35	89.32	81.55	73.99	67.44	60.46	54.49
150.0	119.61	111.36	104.28	96.25	88.42	81.55	74.10	67.55	60.41
180.0	113.32	106.08	98.09	91.01	83.19	75.63	69.13	62.10	56.13
210.0	104.91	97.88	90.22	82.61	75.95	68.71	62.47	55.65	49.36
240.0	104.81	98.20	90.96	84.62	77.43	71.19	64.32	57.72	52.11
270.0	95.03	87.58	80.34	74.15	68.18	61.63	55.44	50.26	44.50
300.0	96.09	89.53	82.40	76.16	69.24	63.26	56.71	50.63	44.92
330.0	89.85	82.45	76.11	69.24	63.26	56.82	50.84	45.14	40.38
360.0	95.14	88.63	81.50	75.37	68.55	62.05	55.71	50.47	44.82

Intensity data(cd)

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	40.01	35.62	31.24	27.59	24.42	22.15	20.14	18.34	16.44
30.0	47.04	41.97	36.57	31.82	28.22	24.95	22.46	20.35	18.60
60.0	44.87	39.16	34.04	30.13	26.43	23.68	21.25	19.34	17.34
90.0	51.27	45.08	39.43	34.25	30.34	26.95	23.78	21.56	19.40
120.0	48.20	42.12	36.57	32.29	28.17	25.16	22.46	20.56	18.39
150.0	54.28	47.88	41.97	36.47	32.19	28.12	25.16	22.46	20.61
180.0	49.73	44.29	38.58	33.51	29.23	26.00	22.99	21.09	19.08
210.0	43.97	38.48	33.56	29.81	26.16	23.52	21.35	19.24	17.39
240.0	46.03	40.91	35.73	31.34	27.91	24.68	22.36	20.24	18.45
270.0	39.16	34.88	30.60	27.27	24.15	21.67	19.87	17.97	16.23
300.0	40.22	35.41	31.66	27.91	25.16	22.41	20.40	18.71	16.81
330.0	36.10	31.82	28.06	25.21	22.46	20.45	18.76	16.86	15.22
360.0	40.01	35.62	31.24	27.59	24.42	22.15	20.14	18.34	16.44

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.64	12.84	11.15	9.41	7.72	6.18	4.76	3.28	1.90
30.0	16.65	14.59	12.90	11.10	9.35	7.72	6.18	4.60	3.17
60.0	15.49	13.79	12.00	10.25	8.62	6.87	5.34	3.70	2.33
90.0	17.60	15.70	13.64	11.79	10.15	8.19	6.61	5.07	3.54
120.0	16.49	14.75	12.84	11.20	9.41	7.72	6.03	4.44	2.85
150.0	18.55	16.38	14.53	12.68	10.94	9.20	7.45	5.87	4.23
180.0	17.34	15.22	13.53	11.73	10.04	8.35	6.71	5.02	3.54
210.0	15.43	13.69	11.79	9.99	8.46	6.71	5.07	3.65	2.27
240.0	16.49	14.43	12.63	10.83	9.09	7.45	5.97	4.39	3.01
270.0	14.48	12.58	10.83	9.25	7.61	6.18	4.65	3.28	1.90
300.0	15.01	13.37	11.47	9.94	8.30	6.77	5.34	3.81	2.48
330.0	13.37	11.73	10.20	8.51	6.87	5.44	3.96	2.64	1.85
360.0	14.64	12.84	11.15	9.41	7.72	6.18	4.76	3.28	1.90

C/γ(°)	90.0
0.0	1.85
30.0	1.80
60.0	1.74
90.0	2.11
120.0	2.22
150.0	2.75
180.0	2.91
210.0	1.74
240.0	1.74
270.0	1.80
300.0	1.80
330.0	1.80
360.0	1.85