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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,Ching

Nata

LumCAT: 1-0928-M
Luminaire: 99.02.73.179+92.76.853.00

Report No: 220606-B010	Voltage(V): 38.0100
Test No: 220606-C010	Current(A): 0.3610
LampCAT: CREE CXA1512	Power (W): 13.7210
Lamp flux(lm): 1404.6	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1004.34
Efficiency(%): 71.50%
Lumens(lm)/Power(W): 73.20
Central intensity(cd): 3827.323
Maximum intensity(cd): 3827.323
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=31.5
[C90/270]Total=31.5
Field angle(10%Imax): [C0/180]Total=45.4
[C90/270]Total=45.4
Maximum s/h(1/2): C0_180=0.53 C90_270=0.53
Maximum s/h(1/4): C0_180=0.49 C90_270=0.49
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 71.50%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.570%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3827.323	0.000	0	.000%	.000%
1.0	3819.405	3.659	3.659	.260%	.364%
2.0	3796.475	10.931	14.59	.778%	1.453%
3.0	3755.246	18.061	32.651	1.286%	3.251%
4.0	3700.348	24.956	57.607	1.777%	5.736%
5.0	3620.727	31.495	89.102	2.242%	8.872%
6.0	3530.948	37.584	126.686	2.676%	12.614%
7.0	3420.779	43.149	169.835	3.072%	16.910%
8.0	3296.418	48.074	217.909	3.422%	21.697%
9.0	3153.534	52.273	270.182	3.721%	26.901%
10.0	2995.637	55.648	325.83	3.962%	32.442%
11.0	2833.856	58.249	384.079	4.147%	38.242%
12.0	2664.606	60.106	444.185	4.279%	44.227%
13.0	2480.268	61.057	505.242	4.347%	50.306%
14.0	2276.511	60.886	566.128	4.335%	56.368%
15.0	2080.521	59.815	625.943	4.258%	62.324%
16.0	1861.751	57.765	683.709	4.112%	68.075%
17.0	1634.839	54.451	738.16	3.877%	73.497%
18.0	1370.717	49.555	787.715	3.528%	78.431%
19.0	1171.822	44.235	831.95	3.149%	82.835%
20.0	928.104	38.434	870.384	2.736%	86.662%
21.0	696.711	31.200	901.584	2.221%	89.769%
22.0	506.540	24.180	925.764	1.721%	92.176%
23.0	331.718	17.589	943.353	1.252%	93.928%
24.0	206.088	11.758	955.111	.837%	95.098%
25.0	122.747	7.477	962.588	.532%	95.843%
26.0	75.050	4.669	967.257	.332%	96.308%
27.0	50.267	3.066	970.323	.218%	96.613%
28.0	35.277	2.166	972.489	.154%	96.829%
29.0	24.738	1.570	974.059	.112%	96.985%
30.0	18.762	1.174	975.234	.084%	97.102%
31.0	14.864	0.936	976.169	.067%	97.195%
32.0	12.234	0.776	976.946	.055%	97.272%
33.0	10.599	0.673	977.618	.048%	97.339%
34.0	9.493	0.608	978.226	.043%	97.400%
35.0	8.672	0.564	978.791	.040%	97.456%
36.0	8.029	0.532	979.322	.038%	97.509%
37.0	7.581	0.509	979.831	.036%	97.560%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	7.148	0.492	980.323	.035%	97.609%
39.0	6.804	0.476	980.799	.034%	97.656%
40.0	6.550	0.466	981.265	.033%	97.702%
41.0	6.296	0.457	981.723	.033%	97.748%
42.0	6.080	0.450	982.172	.032%	97.793%
43.0	5.908	0.444	982.616	.032%	97.837%
44.0	5.736	0.439	983.056	.031%	97.881%
45.0	5.594	0.435	983.491	.031%	97.924%
46.0	5.475	0.433	983.924	.031%	97.967%
47.0	5.348	0.430	984.355	.031%	98.010%
48.0	5.266	0.429	984.784	.031%	98.053%
49.0	5.184	0.429	985.213	.031%	98.095%
50.0	5.094	0.429	985.641	.031%	98.138%
51.0	5.034	0.429	986.07	.031%	98.181%
52.0	4.967	0.429	986.499	.031%	98.224%
53.0	4.915	0.430	986.929	.031%	98.266%
54.0	4.862	0.431	987.36	.031%	98.309%
55.0	4.810	0.432	987.791	.031%	98.352%
56.0	4.780	0.433	988.225	.031%	98.395%
57.0	4.743	0.435	988.66	.031%	98.439%
58.0	4.713	0.437	989.097	.031%	98.482%
59.0	4.676	0.439	989.536	.031%	98.526%
60.0	4.653	0.441	989.977	.031%	98.570%
61.0	4.638	0.443	990.421	.032%	98.614%
62.0	4.631	0.447	990.867	.032%	98.658%
63.0	4.601	0.449	991.316	.032%	98.703%
64.0	4.586	0.451	991.767	.032%	98.748%
65.0	4.579	0.454	992.221	.032%	98.793%
66.0	4.564	0.456	992.677	.032%	98.839%
67.0	4.541	0.458	993.135	.033%	98.884%
68.0	4.549	0.460	993.595	.033%	98.930%
69.0	4.534	0.463	994.058	.033%	98.976%
70.0	4.541	0.466	994.524	.033%	99.023%
71.0	4.534	0.469	994.993	.033%	99.069%
72.0	4.526	0.471	995.465	.034%	99.116%
73.0	4.549	0.475	995.939	.034%	99.163%
74.0	4.564	0.479	996.418	.034%	99.211%
75.0	4.579	0.483	996.901	.034%	99.259%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.601	0.487	997.388	.035%	99.308%
77.0	4.661	0.494	997.882	.035%	99.357%
78.0	4.698	0.501	998.383	.036%	99.407%
79.0	4.713	0.506	998.889	.036%	99.457%
80.0	4.623	0.503	999.392	.036%	99.507%
81.0	4.586	0.498	999.89	.035%	99.557%
82.0	4.608	0.499	1000.389	.035%	99.607%
83.0	4.631	0.502	1000.891	.036%	99.657%
84.0	4.691	0.508	1001.399	.036%	99.707%
85.0	4.676	0.511	1001.91	.036%	99.758%
86.0	4.676	0.511	1002.421	.036%	99.809%
87.0	4.392	0.496	1002.918	.035%	99.858%
88.0	4.317	0.477	1003.395	.034%	99.906%
89.0	4.310	0.473	1003.867	.034%	99.953%
90.0	4.317	0.473	1004.34	.034%	100.000%

Zonal flux distribution table

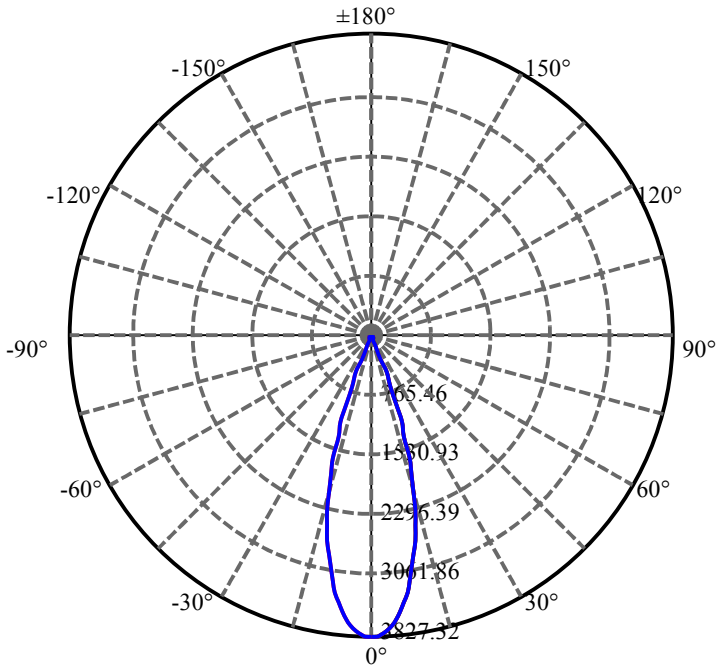
ZONAL LUMEN SUMMARY

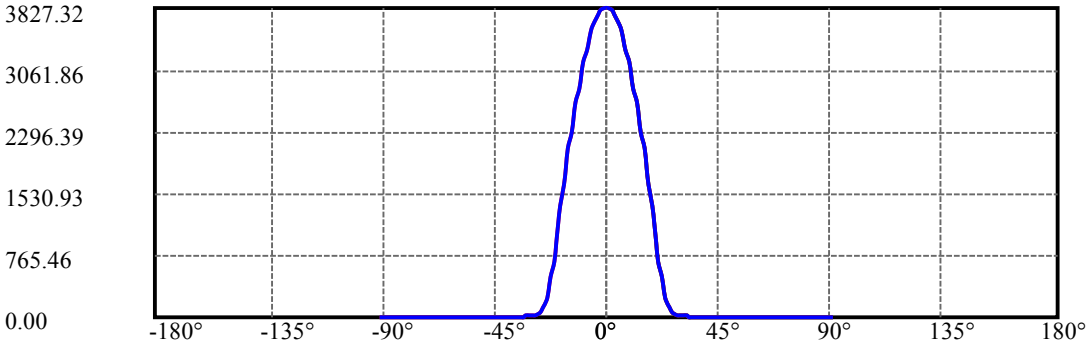
Zone	Lumens	%Lamp	%Fixt
0-30	975.23	69.43%	97.10%
0-40	981.27	69.86%	97.70%
0-60	989.98	70.48%	98.57%
0-90	1003.87	71.47%	99.95%
0-120	1003.87	71.47%	99.95%
0-180	1004.34	71.50%	100.00%
60-90	14.33	1.02%	1.43%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-18.36	803.47	57.20%	80.00%

ZONAL LUMEN SUMMARY

0-10	325.83
10-20	544.55
20-30	104.85
30-40	6.03
40-50	4.38
50-60	4.34
60-70	4.55
70-80	4.87
80-90	4.48
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):

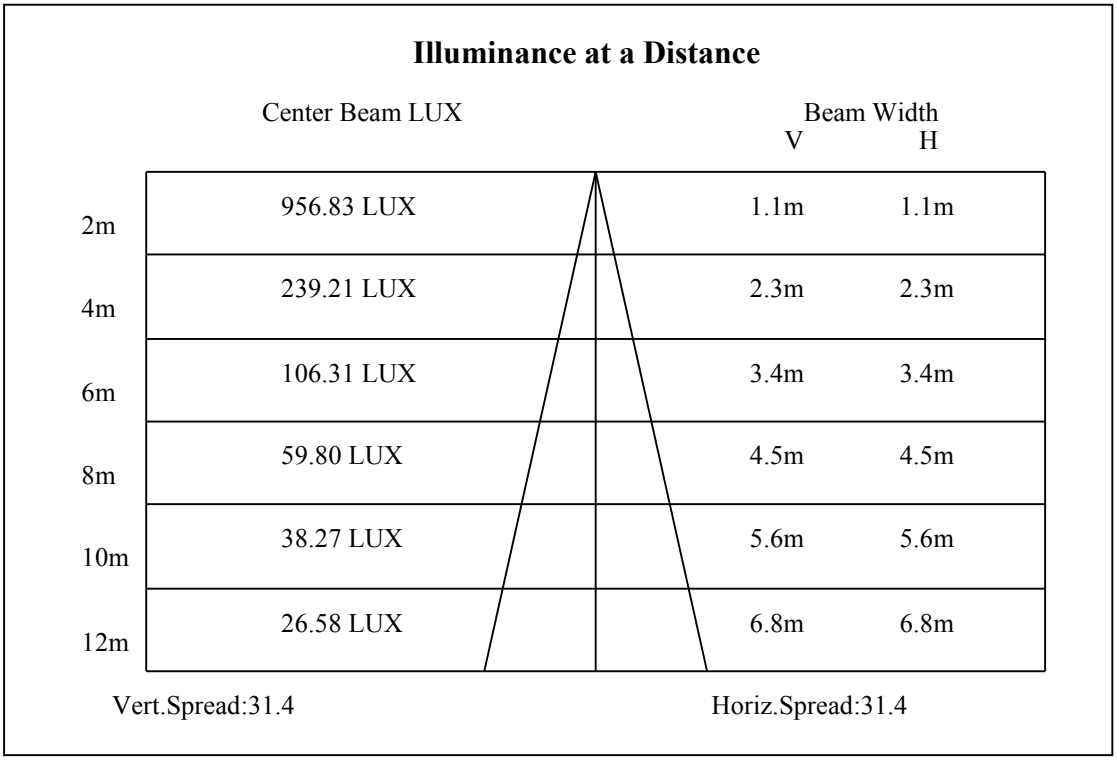
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:22.7 Right:22.7
:C90/270Left:22.7 Right:22.7

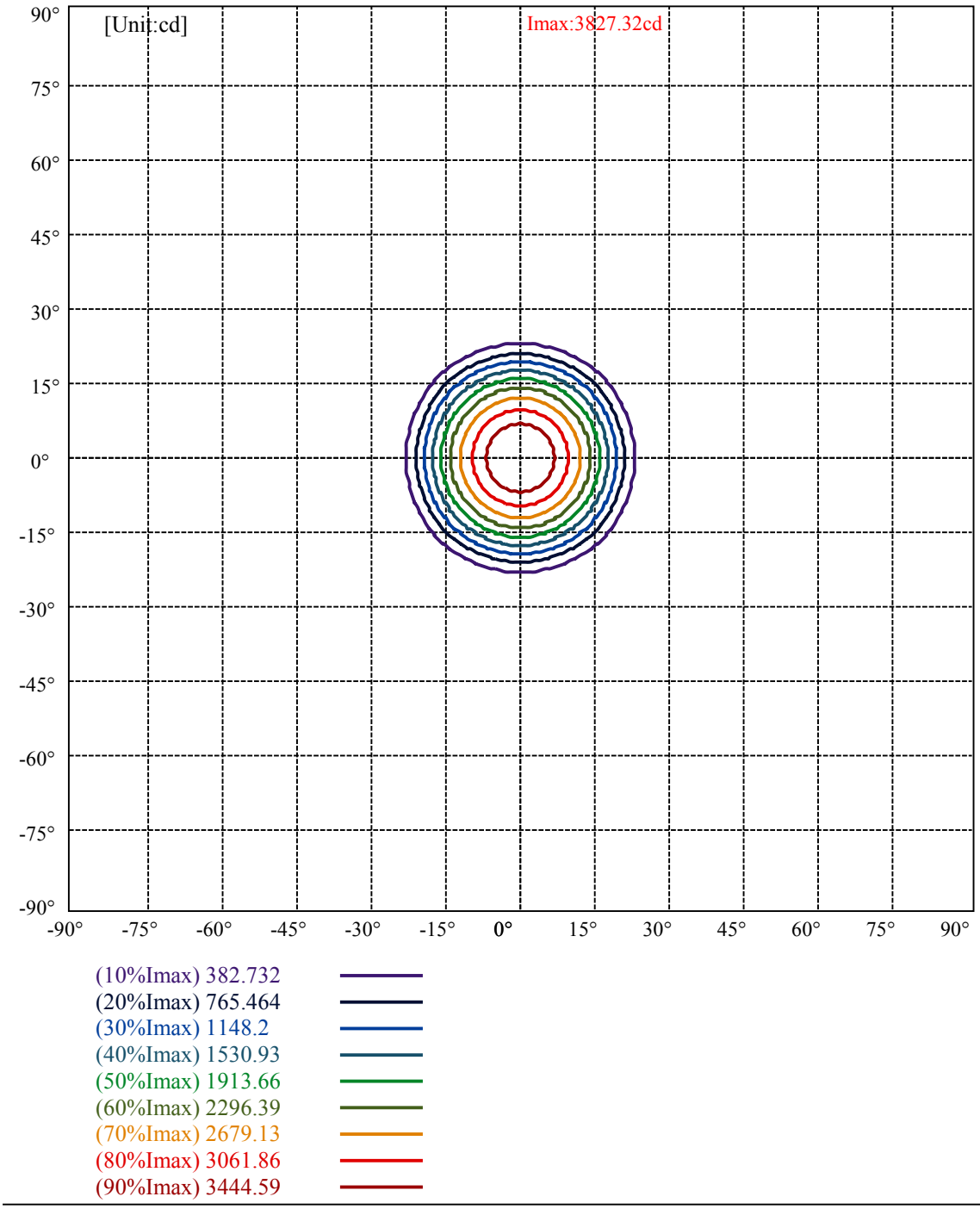
Beam Angle(50%Imax):C0/180Left:15.8 Right:15.8
:C90/270Left:15.8 Right:15.8

Lux distance Curve



Equipment: GMS1980 Date: 2022/6/06 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.73

ISO-Intensity(V-H)



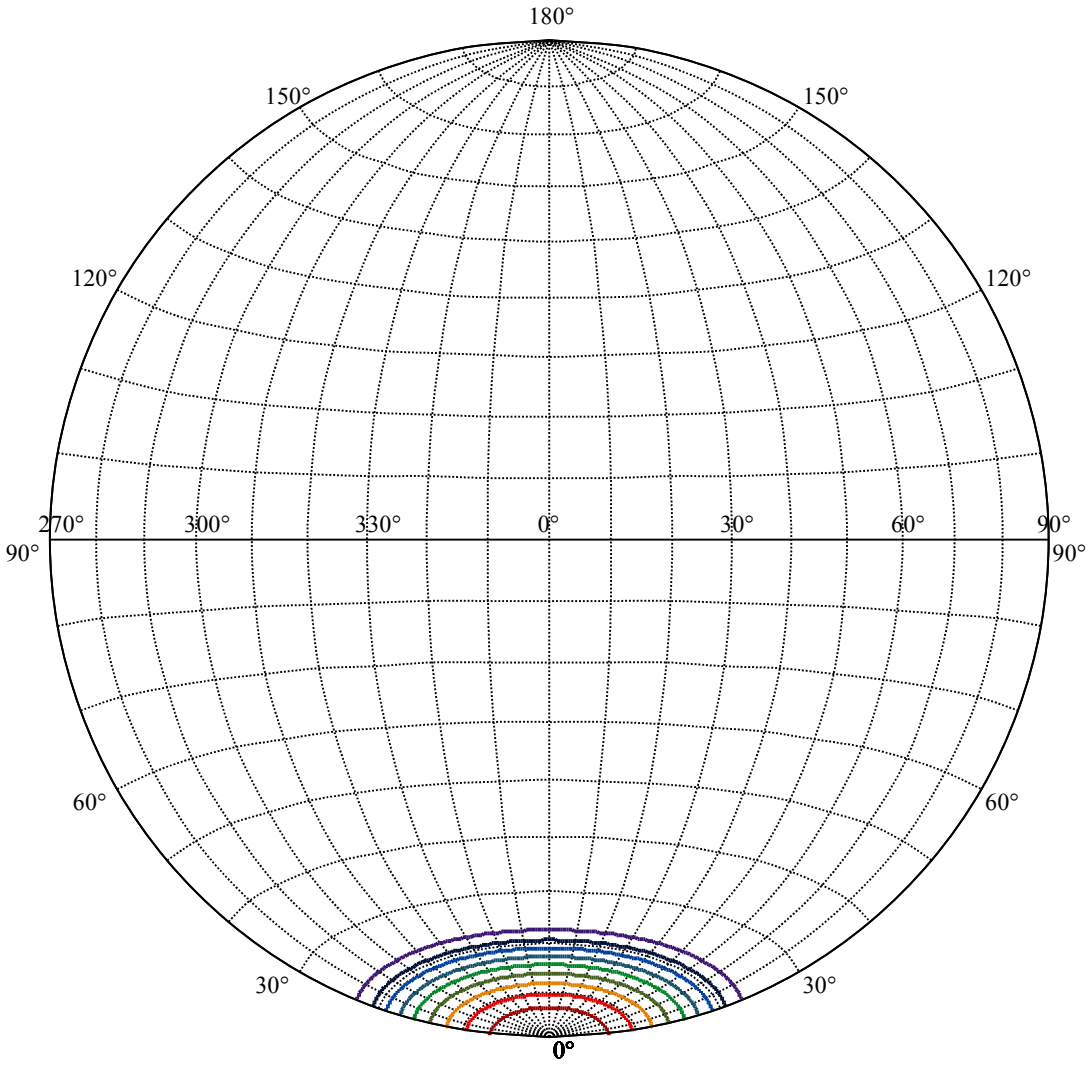
(10%Imax) 382.732
(20%Imax) 765.464
(30%Imax) 1148.2
(40%Imax) 1530.93
(50%Imax) 1913.66
(60%Imax) 2296.39
(70%Imax) 2679.13
(80%Imax) 3061.86
(90%Imax) 3444.59

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/6/06
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

ISO candela diagram on circular web



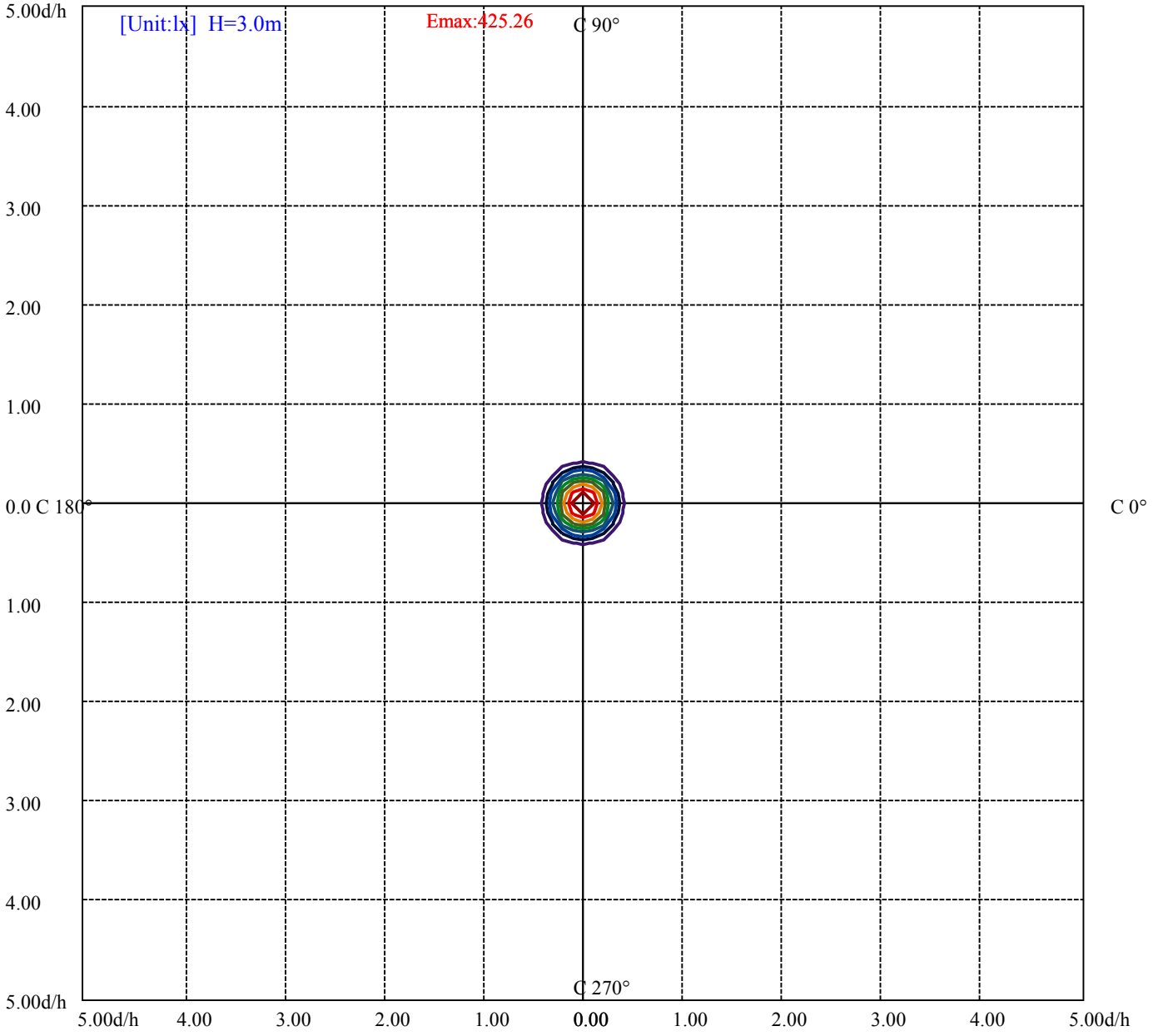
House [Unit:cd] Road

Imax:3827.32

(10%Imax) 382.732
(20%Imax) 765.464
(30%Imax) 1148.2
(40%Imax) 1530.93
(50%Imax) 1913.66
(60%Imax) 2296.39
(70%Imax) 2679.13
(80%Imax) 3061.86
(90%Imax) 3444.59

Equipment: GMS1980 Date: 2022/6/06 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.73

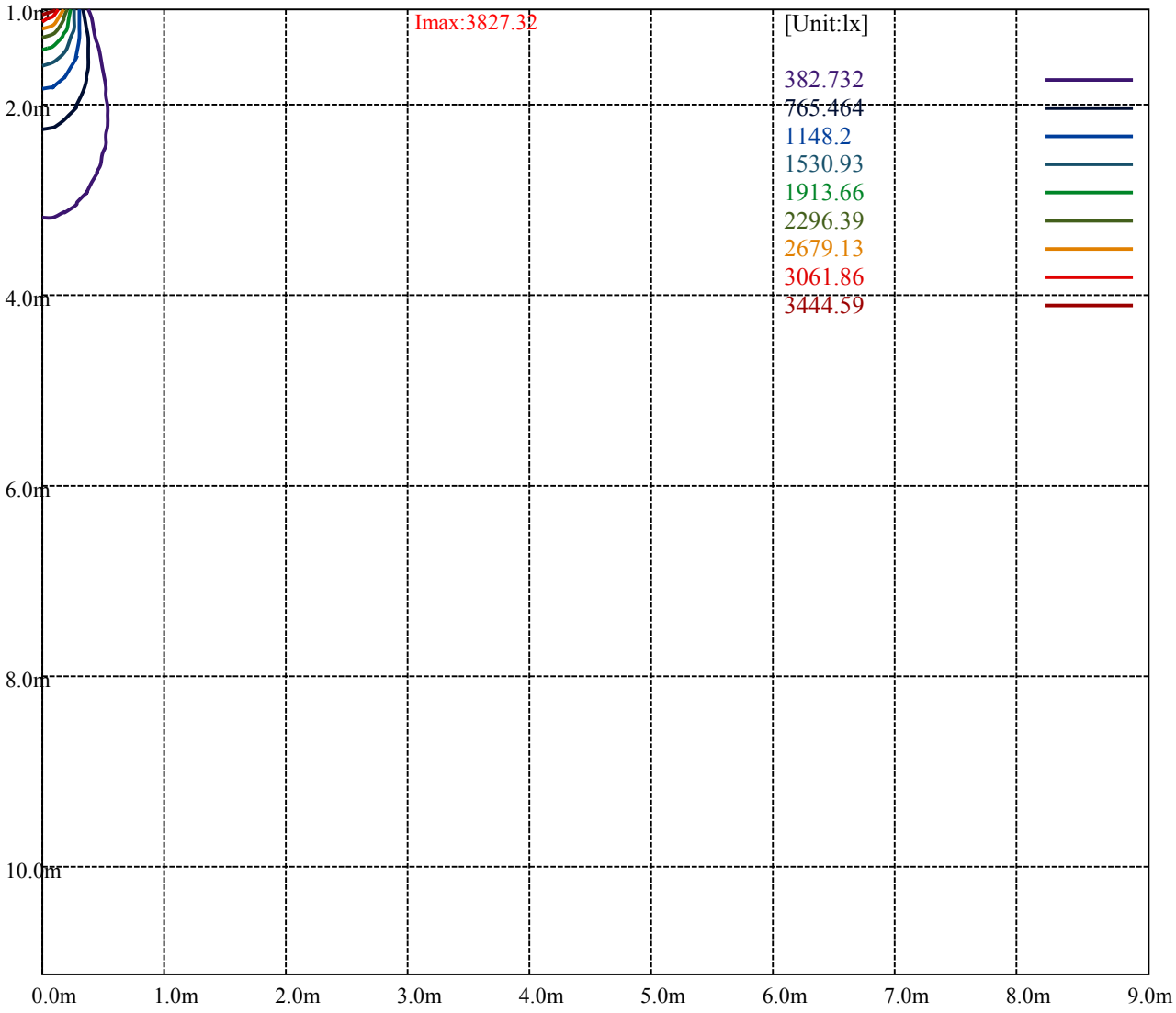
ISO illuminance diagram



(10%Emax) 42.52578
(20%Emax) 85.05155
(30%Emax) 127.5778
(40%Emax) 170.1033
(50%Emax) 212.6289
(60%Emax) 255.1544
(70%Emax) 297.6811
(80%Emax) 340.2067
(90%Emax) 382.7322

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2022/6/06
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.73

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/6/06
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

Luminance Limitting Curve(no luminous side)

Luminance Table

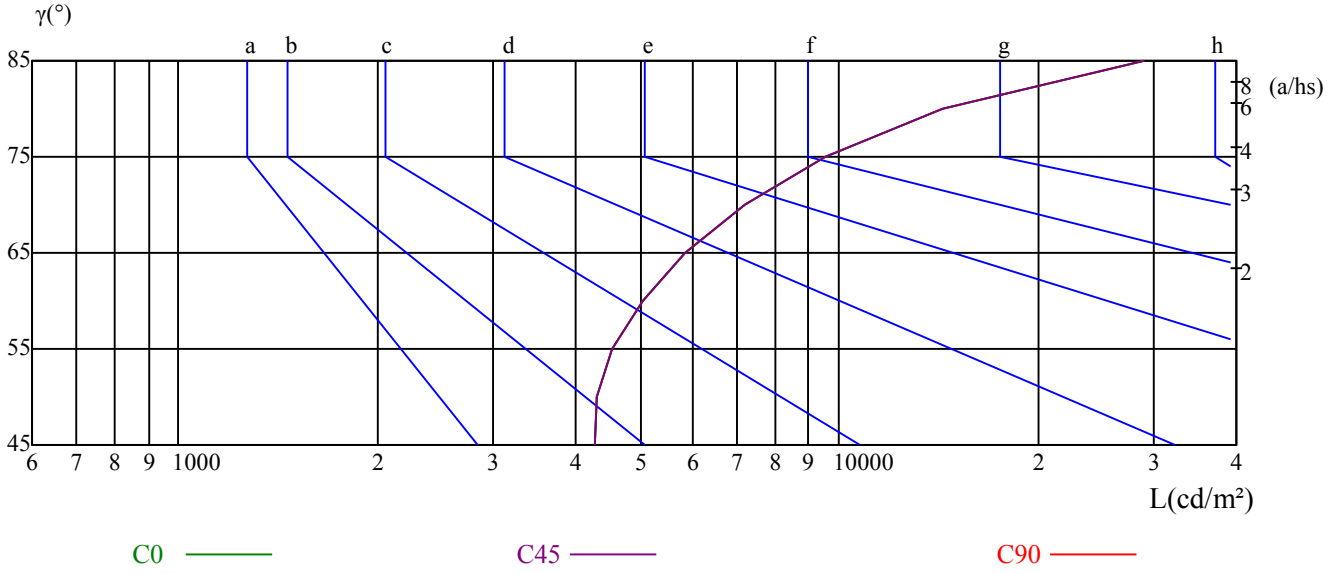
γ	45	50	55	60	65	70	75	80	85
C0	4279	4286	4536	5033	5859	7181	9567	14400	29014
C45	4279	4286	4536	5033	5859	7181	9567	14400	29014
C90	4279	4286	4536	5033	5859	7181	9567	14400	29014

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5859	5859	5859	9567	9567	9567	29014	29014	29014

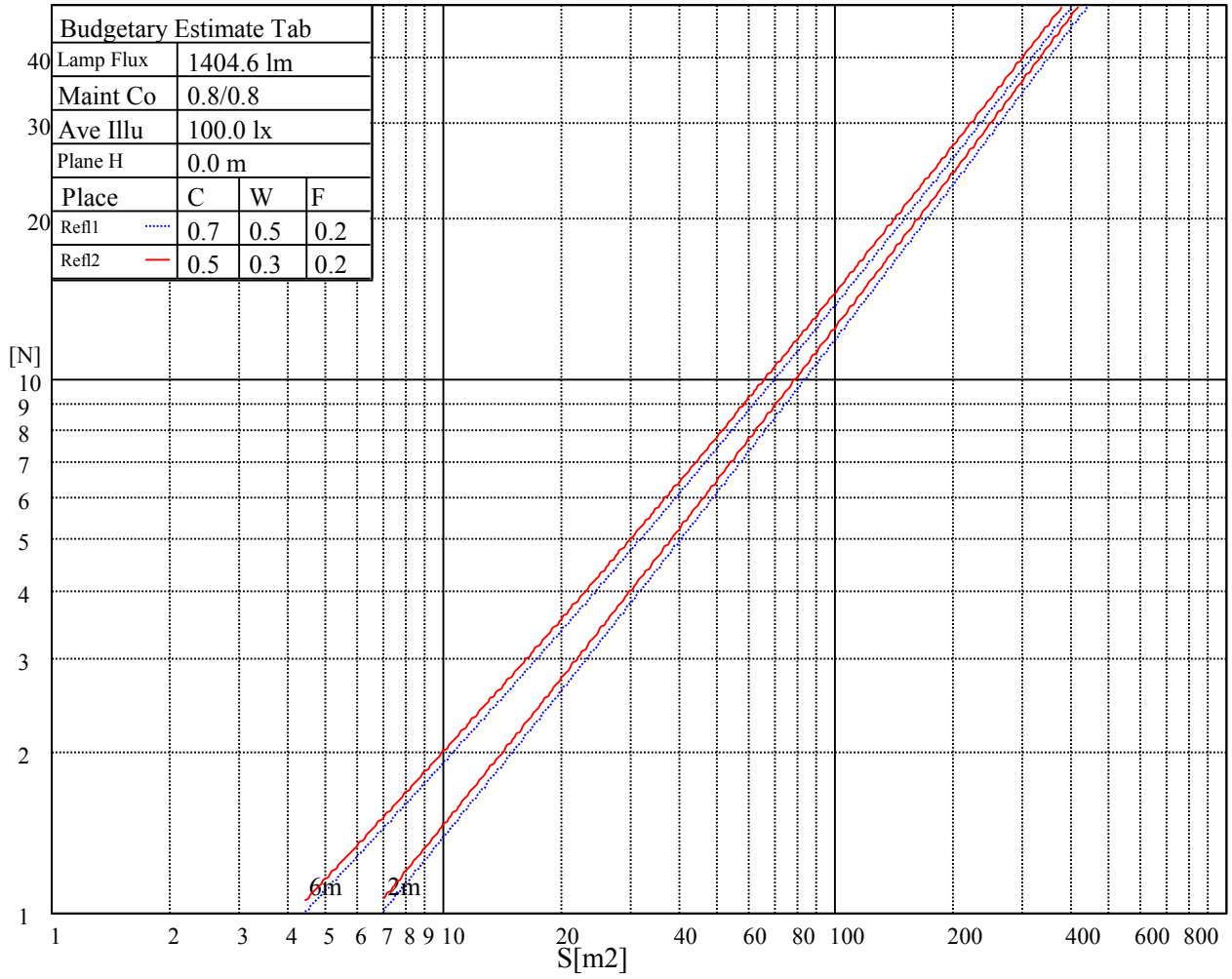
Glare Table

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



Budgetary Estimate Table

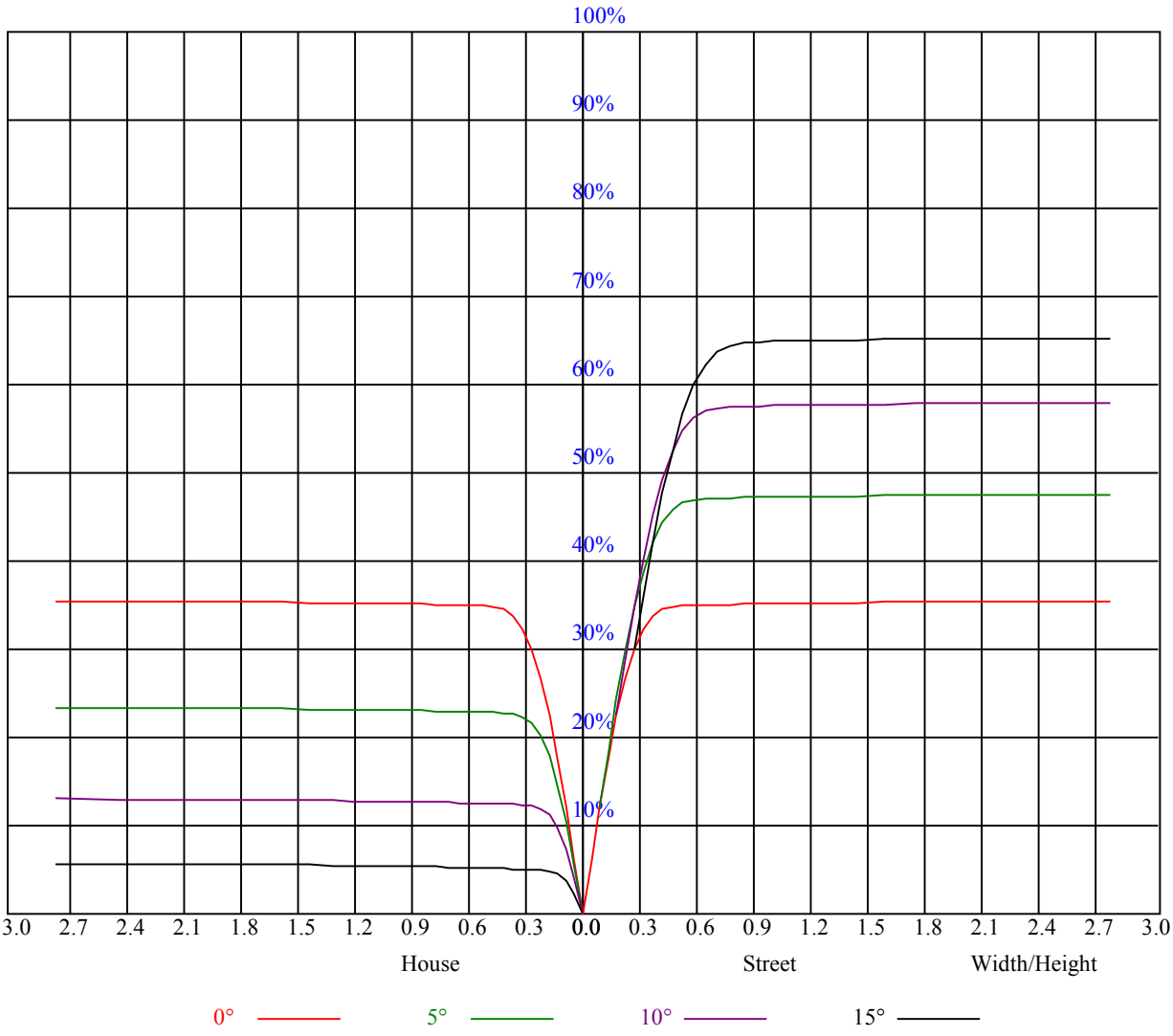


Equipment: GMS1980 Date: 2022/6/06 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.73

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	0.85	0.85	0.85	0.83	0.83	0.83	0.79	0.79	0.79	0.76	0.76	0.76	0.73	0.73	0.73	0.72
1	0.80	0.79	0.78	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.73	0.72	0.71	0.71	0.70	0.69
2	0.77	0.75	0.73	0.76	0.74	0.72	0.73	0.72	0.70	0.71	0.70	0.69	0.69	0.68	0.67	0.66
3	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.69	0.68	0.66	0.68	0.66	0.65	0.64
4	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.66	0.65	0.67	0.65	0.64	0.66	0.65	0.63	0.62
5	0.68	0.65	0.63	0.68	0.65	0.63	0.66	0.64	0.62	0.65	0.63	0.62	0.64	0.63	0.61	0.61
6	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.64	0.62	0.60	0.63	0.61	0.60	0.59
7	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.59	0.62	0.60	0.58	0.61	0.59	0.58	0.57
8	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.60	0.58	0.57	0.60	0.58	0.56	0.56
9	0.60	0.57	0.56	0.60	0.57	0.55	0.59	0.57	0.55	0.59	0.57	0.55	0.58	0.56	0.55	0.54
10	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.56	0.54	0.58	0.55	0.54	0.57	0.55	0.54	0.53

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2022/6/06	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.73

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	3829.56	3830.76	3813.43	3784.75	3736.95	3659.27	3566.05	3471.05	3362.89
45.0	3825.38	3803.87	3758.46	3702.89	3631.18	3523.63	3421.45	3301.35	3155.55
90.0	3819.41	3798.49	3761.45	3693.92	3623.42	3539.16	3429.82	3295.37	3159.73
135.0	3834.94	3820.60	3797.89	3759.65	3705.87	3628.79	3542.15	3429.82	3311.51
180.0	3829.56	3817.61	3790.13	3742.92	3680.18	3598.92	3508.09	3387.39	3247.57
225.0	3825.38	3830.16	3825.98	3800.88	3764.43	3693.92	3629.39	3532.59	3410.70
270.0	3819.41	3828.97	3821.80	3800.88	3757.26	3693.92	3620.43	3530.80	3419.06
315.0	3834.94	3824.78	3802.67	3756.07	3703.48	3628.20	3530.20	3417.87	3304.34
360.0	3829.56	3830.76	3813.43	3784.75	3736.95	3659.27	3566.05	3471.05	3362.89

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3209.33	3070.10	2918.33	2735.49	2544.28	2366.81	2155.88	1930.02	1717.90
45.0	2993.02	2834.08	2647.05	2477.36	2275.99	2064.46	1863.69	1626.47	1386.86
90.0	2993.02	2818.54	2659.00	2468.99	2295.11	2087.17	1858.32	1643.20	1419.73
135.0	3164.51	3005.57	2850.21	2684.10	2471.38	2295.11	2111.67	1857.72	1638.42
180.0	3111.93	2925.50	2768.35	2602.84	2432.54	2210.26	2017.86	1810.51	1561.34
225.0	3310.31	3166.31	2986.45	2847.82	2680.52	2444.49	2289.13	2099.12	1869.07
270.0	3289.40	3146.59	3003.18	2851.41	2669.16	2472.58	2292.72	2076.41	1843.38
315.0	3156.75	2998.40	2838.26	2648.85	2473.17	2271.21	2054.90	1850.55	1642.01
360.0	3209.33	3070.10	2918.33	2735.49	2544.28	2366.81	2155.88	1930.02	1717.90

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1481.27	1272.14	1031.93	792.32	588.57	385.41	306.53	125.48	82.04
45.0	1164.58	926.77	677.00	489.38	311.91	168.50	98.89	68.00	46.07
90.0	1139.49	919.24	703.53	463.08	302.41	181.59	104.87	72.12	50.31
135.0	1412.56	1140.68	898.09	692.54	465.48	313.70	167.13	107.20	72.90
180.0	1191.95	1078.18	828.77	596.99	416.60	251.56	150.28	93.51	64.35
225.0	1631.85	1416.74	1169.48	922.88	711.60	513.58	321.35	180.27	109.71
270.0	1633.05	1451.40	1159.80	943.50	755.28	510.89	319.08	233.87	104.39
315.0	1310.98	1169.42	956.23	673.00	500.49	328.52	180.57	101.52	70.63
360.0	1481.27	1272.14	1031.93	792.32	588.57	385.41	306.53	125.48	82.04

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	52.58	36.39	26.65	19.96	15.48	12.85	10.99	9.74	8.90
45.0	31.01	22.65	16.97	13.62	11.35	9.92	9.02	8.31	7.77
90.0	33.34	24.20	17.81	13.80	11.59	10.10	9.02	8.37	7.89
135.0	49.71	34.54	23.66	18.16	13.92	11.47	10.10	9.02	8.31
180.0	44.75	31.07	21.33	16.73	13.56	11.05	9.86	8.96	8.25
225.0	73.79	51.39	34.36	24.56	19.18	15.18	12.49	10.88	9.74
270.0	69.55	48.40	32.68	24.62	18.76	14.88	12.61	11.05	9.68
315.0	47.38	33.58	24.44	18.64	15.06	12.43	10.70	9.62	8.84
360.0	52.58	36.39	26.65	19.96	15.48	12.85	10.99	9.74	8.90

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	8.19	7.71	7.23	6.87	6.57	6.33	6.09	5.92	5.74
45.0	7.41	7.05	6.69	6.45	6.21	6.04	5.86	5.74	5.56
90.0	7.35	7.05	6.75	6.45	6.27	6.04	5.86	5.68	5.56
135.0	7.83	7.47	6.99	6.69	6.51	6.21	6.04	5.86	5.68
180.0	7.71	7.29	6.93	6.57	6.33	6.09	5.92	5.74	5.62
225.0	8.72	8.13	7.65	7.17	6.87	6.63	6.33	6.09	5.92
270.0	8.90	8.31	7.71	7.35	6.99	6.69	6.45	6.27	6.04
315.0	8.13	7.65	7.23	6.87	6.63	6.33	6.09	5.98	5.80
360.0	8.19	7.71	7.23	6.87	6.57	6.33	6.09	5.92	5.74

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	5.56	5.44	5.32	5.20	5.14	5.08	4.96	4.90	4.84
45.0	5.38	5.32	5.26	5.14	5.08	4.96	4.96	4.90	4.84
90.0	5.44	5.32	5.20	5.14	5.02	4.96	4.90	4.84	4.78
135.0	5.56	5.44	5.32	5.26	5.20	5.08	5.02	4.96	4.90
180.0	5.50	5.32	5.20	5.14	5.08	4.96	4.90	4.84	4.78
225.0	5.74	5.62	5.50	5.38	5.26	5.20	5.14	5.02	5.02
270.0	5.92	5.80	5.62	5.56	5.50	5.38	5.32	5.26	5.20
315.0	5.68	5.56	5.38	5.32	5.20	5.14	5.08	5.02	4.96
360.0	5.56	5.44	5.32	5.20	5.14	5.08	4.96	4.90	4.84

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.78	4.72	4.72	4.66	4.66	4.60	4.54	4.54	4.54
45.0	4.78	4.72	4.72	4.66	4.66	4.60	4.60	4.60	4.54
90.0	4.78	4.72	4.66	4.66	4.60	4.60	4.60	4.54	4.54
135.0	4.84	4.78	4.72	4.72	4.66	4.66	4.60	4.60	4.60
180.0	4.72	4.66	4.66	4.60	4.60	4.54	4.54	4.54	4.48
225.0	4.96	4.90	4.84	4.78	4.72	4.72	4.66	4.66	4.66
270.0	5.14	5.08	5.08	5.02	5.02	4.96	4.96	4.90	4.96
315.0	4.90	4.90	4.84	4.84	4.78	4.72	4.72	4.72	4.72
360.0	4.78	4.72	4.72	4.66	4.66	4.60	4.54	4.54	4.54

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.48	4.48	4.48	4.42	4.42	4.42	4.42	4.42	4.42
45.0	4.54	4.48	4.54	4.48	4.48	4.48	4.48	4.48	4.42
90.0	4.54	4.48	4.48	4.48	4.48	4.48	4.42	4.48	4.42
135.0	4.54	4.54	4.54	4.54	4.48	4.48	4.48	4.48	4.48
180.0	4.48	4.48	4.42	4.48	4.42	4.42	4.42	4.42	4.42
225.0	4.60	4.60	4.60	4.54	4.54	4.54	4.48	4.48	4.48
270.0	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.96
315.0	4.72	4.72	4.66	4.66	4.60	4.66	4.66	4.66	4.66
360.0	4.48	4.48	4.48	4.42	4.42	4.42	4.42	4.42	4.42

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
45.0	4.42	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48
90.0	4.42	4.42	4.42	4.48	4.48	4.42	4.42	4.42	4.42
135.0	4.48	4.48	4.48	4.48	4.42	4.48	4.48	4.48	4.48
180.0	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
225.0	4.48	4.48	4.48	4.42	4.48	4.42	4.48	4.48	4.48
270.0	4.96	5.08	5.20	5.32	5.50	6.04	6.27	6.39	5.68
315.0	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66
360.0	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.36	4.36	4.36	4.36	4.42	4.42	4.42	4.30	4.30
45.0	4.54	4.54	4.60	4.60	4.66	4.30	4.30	4.36	4.30
90.0	4.48	4.48	4.48	4.48	4.36	4.36	4.30	4.30	4.30
135.0	4.48	4.54	4.48	4.54	4.36	4.30	4.30	4.30	4.30
180.0	4.42	4.42	4.42	4.48	4.24	4.30	4.24	4.30	4.24
225.0	4.48	4.48	4.48	4.48	4.48	4.48	4.30	4.30	4.36
270.0	5.26	5.32	5.50	5.74	5.80	5.92	4.96	4.36	4.36
315.0	4.66	4.72	4.72	4.84	5.08	5.32	4.30	4.30	4.30
360.0	4.36	4.36	4.36	4.36	4.42	4.42	4.42	4.30	4.30

Intensity data(cd)

C/γ(°)	90.0
0.0	4.30
45.0	4.36
90.0	4.30
135.0	4.30
180.0	4.30
225.0	4.30
270.0	4.36
315.0	4.30
360.0	4.30