NATA LIGHTING CO.,LTD.
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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: LN01D04524DA-N
Luminaire: 97.70.234.00
Report No: 210107-B005
Test No: 210107-C005
LampCAT: XICATO XOB LES 9.8MM
Lamp flux(lm): 1260.4
Number of Lamps: 1
Length(mm): 92
Phm Type: C

Voltage(V): 34.6100
Current(A): 0.3810
Power (W): 13.1860
PF: 0.0000
Ballast type: DC
Width(mm): 92
Height(mm): 50

Photometric Results

Lumens(lm): 1100.72
Efficiency(%): 87.33%
Lumens(lm)/Power(W): 83.48
Central intensity(cd): 3961.969
Maximum intensity(cd): 3961.969
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=28.1
[C90/270]Total=28.1
Field angle(10%Imax): [C0/180]Total=47.4
[C90/270]Total=47.4
Maximum s/h(1/2): C0_180=0.48 C90_270=0.48
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.33%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.348%

KY Nata LN01D04524DA-N

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3961.969	0.000	0	.000%	.000%
1.0	3952.266	3.787	3.787	.300%	.344%
2.0	3915.773	11.293	15.08	.896%	1.370%
3.0	3860.789	18.599	33.679	1.476%	3.060%
4.0	3788.016	25.603	59.282	2.031%	5.386%
5.0	3684.797	32.148	91.429	2.551%	8.306%
6.0	3562.242	38.085	129.515	3.022%	11.766%
7.0	3429.563	43.398	172.913	3.443%	15.709%
8.0	3274.172	47.977	220.89	3.806%	20.068%
9.0	3098.320	51.646	272.535	4.097%	24.760%
10.0	2912.203	54.393	326.928	4.315%	29.701%
11.0	2701.195	56.089	383.018	4.450%	34.797%
12.0	2490.469	56.752	439.77	4.503%	39.953%
13.0	2245.219	56.201	495.971	4.459%	45.059%
14.0	1997.789	54.310	550.281	4.309%	49.993%
15.0	1773.141	51.769	602.05	4.107%	54.696%
16.0	1554.680	48.762	650.812	3.869%	59.126%
17.0	1281.818	44.172	694.984	3.505%	63.139%
18.0	1103.154	39.323	734.307	3.120%	66.711%
19.0	952.334	35.761	770.068	2.837%	69.960%
20.0	786.621	31.828	801.896	2.525%	72.852%
21.0	650.109	27.588	829.484	2.189%	75.358%
22.0	546.722	24.051	853.535	1.908%	77.543%
23.0	450.816	20.931	874.466	1.661%	79.445%
24.0	371.053	17.969	892.435	1.426%	81.077%
25.0	315.492	15.611	908.045	1.239%	82.495%
26.0	264.705	13.696	921.741	1.087%	83.740%
27.0	225.563	11.995	933.735	.952%	84.829%
28.0	189.000	10.496	944.231	.833%	85.783%
29.0	162.766	9.203	953.435	.730%	86.619%
30.0	142.566	8.244	961.678	.654%	87.368%
31.0	125.824	7.469	969.147	.593%	88.046%
32.0	111.080	6.787	975.934	.538%	88.663%
33.0	99.527	6.205	982.139	.492%	89.227%
34.0	90.155	5.740	987.879	.455%	89.748%
35.0	80.902	5.312	993.192	.421%	90.231%
36.0	73.638	4.921	998.112	.390%	90.678%
37.0	67.641	4.608	1002.72	.366%	91.096%

KY Nata LN01D04524DA-N

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	61.995	4.327	1007.047	.343%	91.490%
39.0	56.602	4.048	1011.095	.321%	91.857%
40.0	52.425	3.802	1014.897	.302%	92.203%
41.0	48.488	3.593	1018.491	.285%	92.529%
42.0	44.782	3.389	1021.88	.269%	92.837%
43.0	41.569	3.199	1025.078	.254%	93.128%
44.0	38.644	3.027	1028.106	.240%	93.403%
45.0	35.930	2.866	1030.972	.227%	93.663%
46.0	33.384	2.711	1033.682	.215%	93.909%
47.0	31.064	2.563	1036.246	.203%	94.142%
48.0	28.969	2.427	1038.672	.193%	94.363%
49.0	27.127	2.304	1040.976	.183%	94.572%
50.0	25.137	2.179	1043.155	.173%	94.770%
51.0	23.555	2.060	1045.215	.163%	94.957%
52.0	22.219	1.964	1047.179	.156%	95.136%
53.0	20.925	1.877	1049.056	.149%	95.306%
54.0	19.814	1.796	1050.852	.142%	95.469%
55.0	18.977	1.732	1052.583	.137%	95.626%
56.0	18.183	1.679	1054.262	.133%	95.779%
57.0	17.416	1.628	1055.89	.129%	95.927%
58.0	16.819	1.583	1057.473	.126%	96.071%
59.0	16.242	1.546	1059.019	.123%	96.211%
60.0	15.659	1.507	1060.526	.120%	96.348%
61.0	15.152	1.470	1061.996	.117%	96.482%
62.0	14.681	1.438	1063.434	.114%	96.612%
63.0	14.238	1.407	1064.84	.112%	96.740%
64.0	13.823	1.377	1066.217	.109%	96.865%
65.0	13.563	1.355	1067.573	.108%	96.988%
66.0	13.458	1.348	1068.921	.107%	97.111%
67.0	13.521	1.357	1070.277	.108%	97.234%
68.0	13.760	1.382	1071.659	.110%	97.360%
69.0	14.245	1.429	1073.088	.113%	97.489%
70.0	14.738	1.489	1074.577	.118%	97.625%
71.0	15.356	1.555	1076.132	.123%	97.766%
72.0	16.172	1.639	1077.771	.130%	97.915%
73.0	16.812	1.725	1079.496	.137%	98.072%
74.0	17.409	1.799	1081.295	.143%	98.235%
75.0	17.923	1.867	1083.162	.148%	98.405%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.986	1.906	1085.068	.151%	98.578%
77.0	17.627	1.899	1086.967	.151%	98.750%
78.0	16.720	1.839	1088.806	.146%	98.917%
79.0	15.462	1.729	1090.535	.137%	99.074%
80.0	14.055	1.591	1092.126	.126%	99.219%
81.0	12.291	1.425	1093.551	.113%	99.348%
82.0	10.596	1.241	1094.792	.098%	99.461%
83.0	8.838	1.056	1095.848	.084%	99.557%
84.0	7.706	0.901	1096.75	.072%	99.639%
85.0	7.024	0.804	1097.554	.064%	99.712%
86.0	6.209	0.723	1098.277	.057%	99.778%
87.0	5.822	0.658	1098.935	.052%	99.838%
88.0	5.498	0.620	1099.556	.049%	99.894%
89.0	5.309	0.592	1100.148	.047%	99.948%
90.0	5.189	0.576	1100.724	.046%	100.000%

Zonal flux distribution table

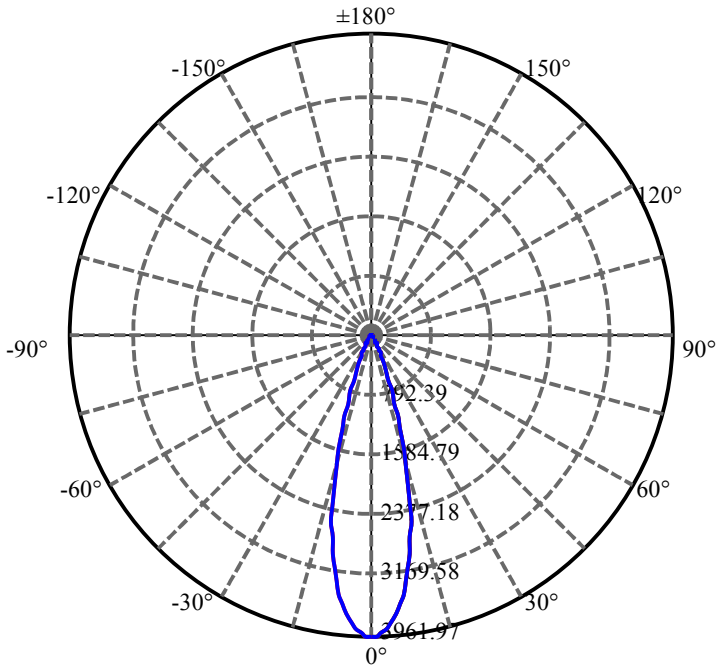
ZONAL LUMEN SUMMARY

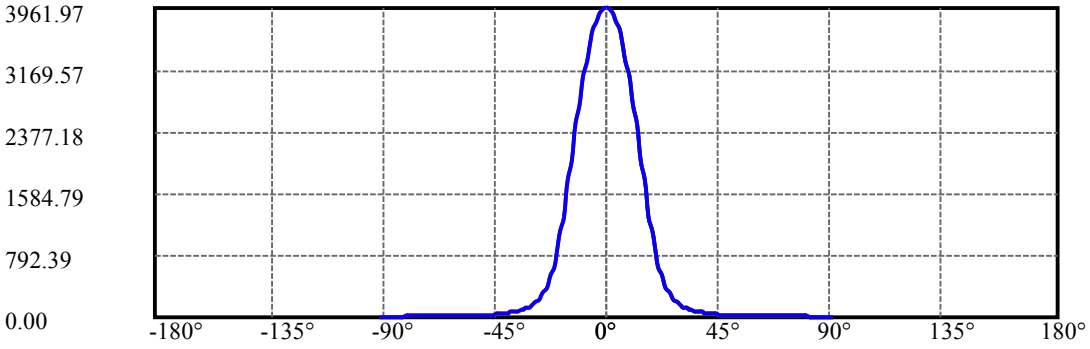
Zone	Lumens	%Lamp	%Fixt
0-30	961.68	76.30%	87.37%
0-40	1014.90	80.52%	92.20%
0-60	1060.53	84.14%	96.35%
0-90	1100.15	87.28%	99.95%
0-120	1100.15	87.28%	99.95%
0-180	1100.72	87.33%	100.00%
60-90	41.13	3.26%	3.74%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-23.34	880.58	69.86%	80.00%

ZONAL LUMEN SUMMARY

0-10	326.93
10-20	474.97
20-30	159.78
30-40	53.22
40-50	28.26
50-60	17.37
60-70	14.05
70-80	17.55
80-90	8.02
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]





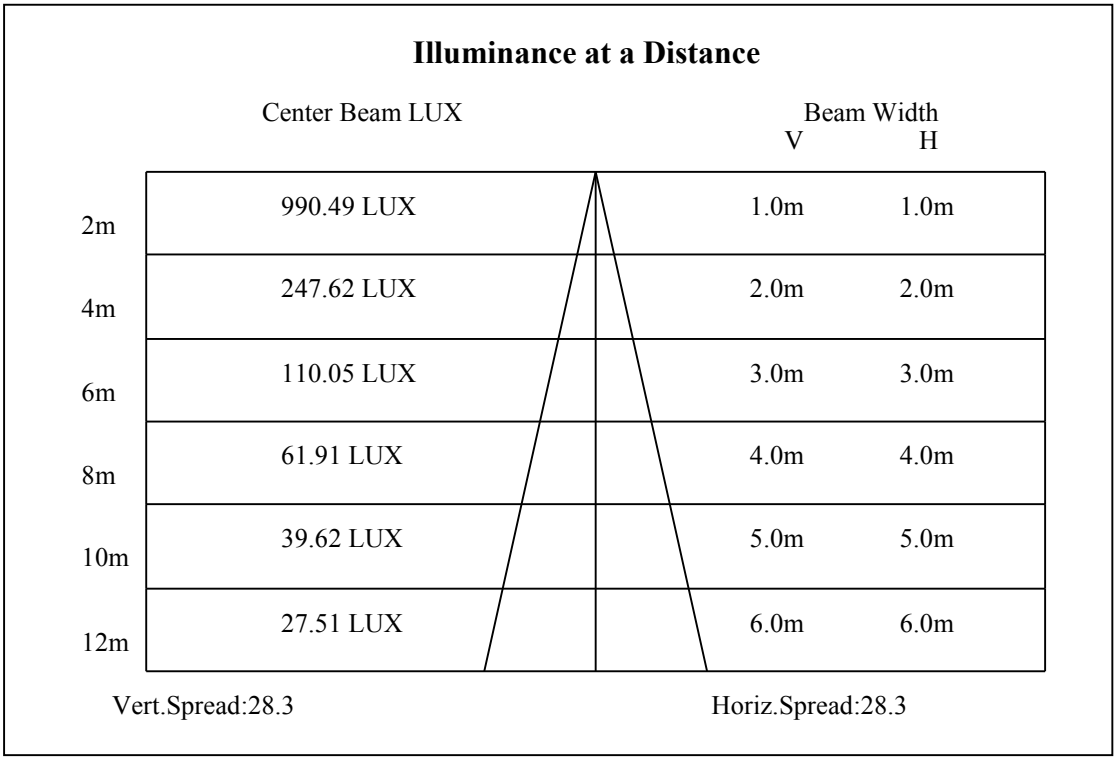
C0(Max):

C0/C180:

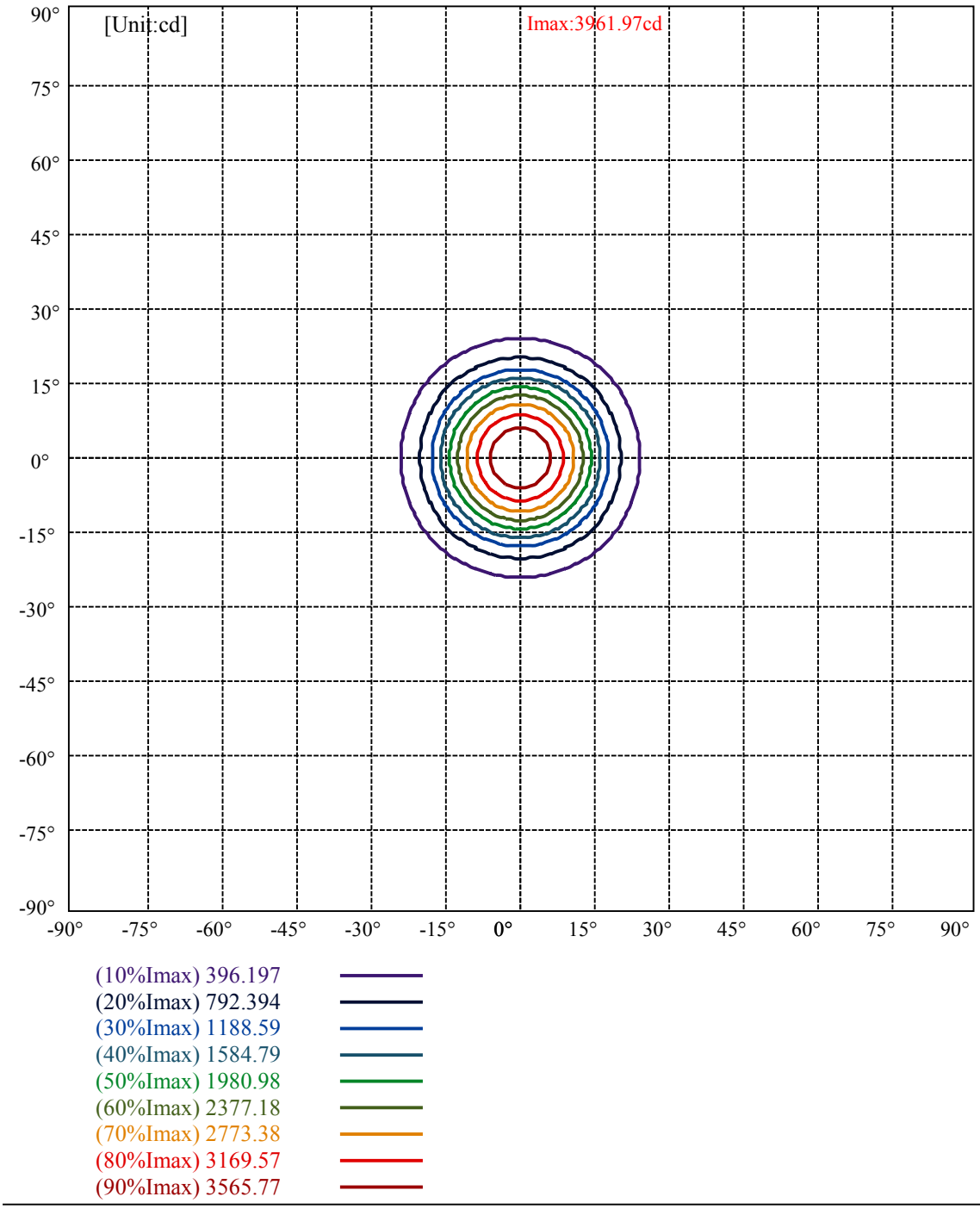
C90/C270:

Field angle(10%Imax):C0/180Left:23.7 Right:23.7
:C90/270Left:23.7 Right:23.7

Beam Angle(50%Imax):C0/180Left:14.1 Right:14.1
:C90/270Left:14.1 Right:14.1


Illuminance at a Distance
Center Beam LUX
Beam Width
V
H
2m
990.49 LUX
1.0m
1.0m
4m
247.62 LUX
2.0m
2.0m
6m
110.05 LUX
3.0m
3.0m
8m
61.91 LUX
4.0m
4.0m
10m
39.62 LUX
5.0m
5.0m
12m
27.51 LUX
6.0m
6.0m
Vert.Spread:28.3
Horiz.Spread:28.3

ISO-Intensity(V-H)



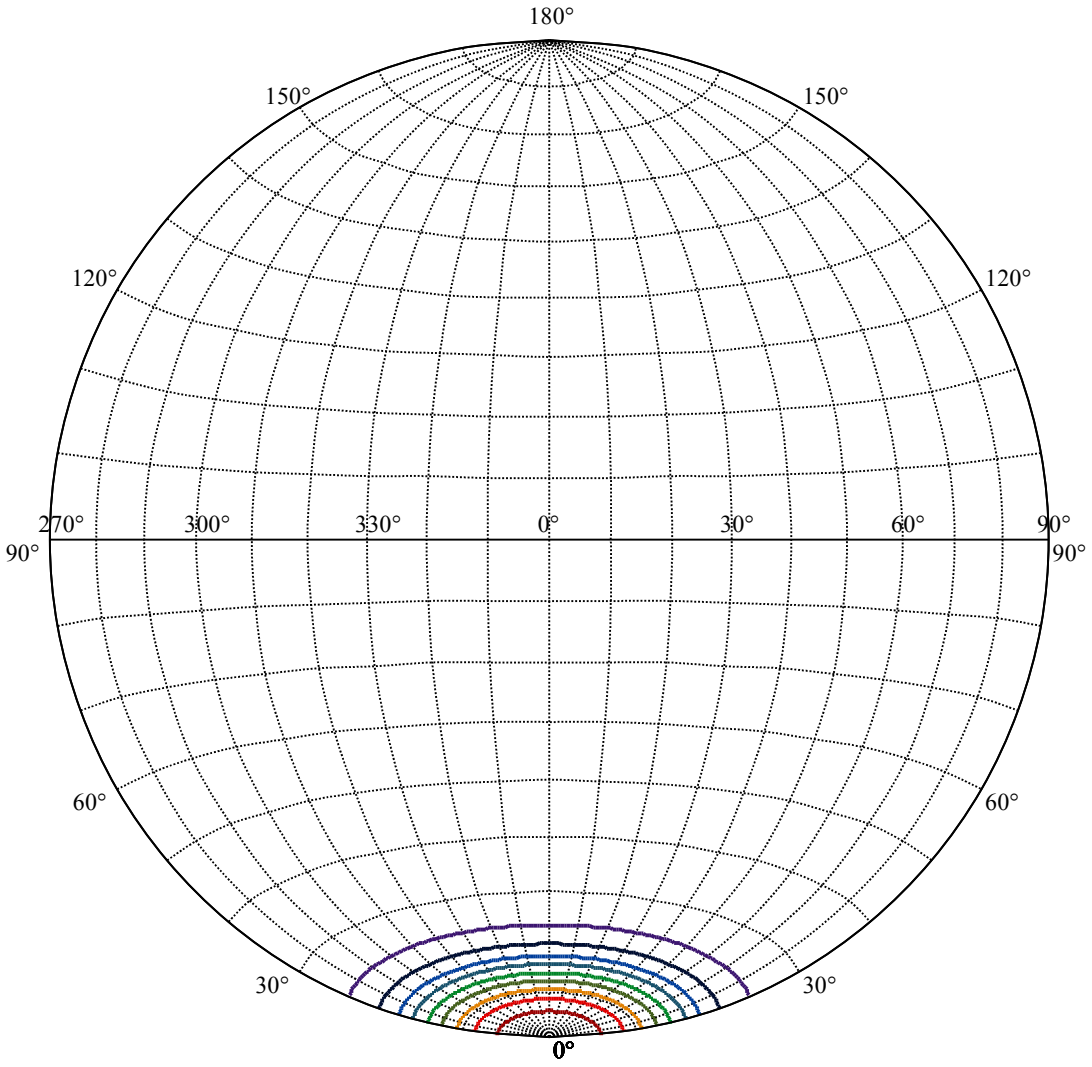
(10%Imax) 396.197
(20%Imax) 792.394
(30%Imax) 1188.59
(40%Imax) 1584.79
(50%Imax) 1980.98
(60%Imax) 2377.18
(70%Imax) 2773.38
(80%Imax) 3169.57
(90%Imax) 3565.77

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/01/07
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

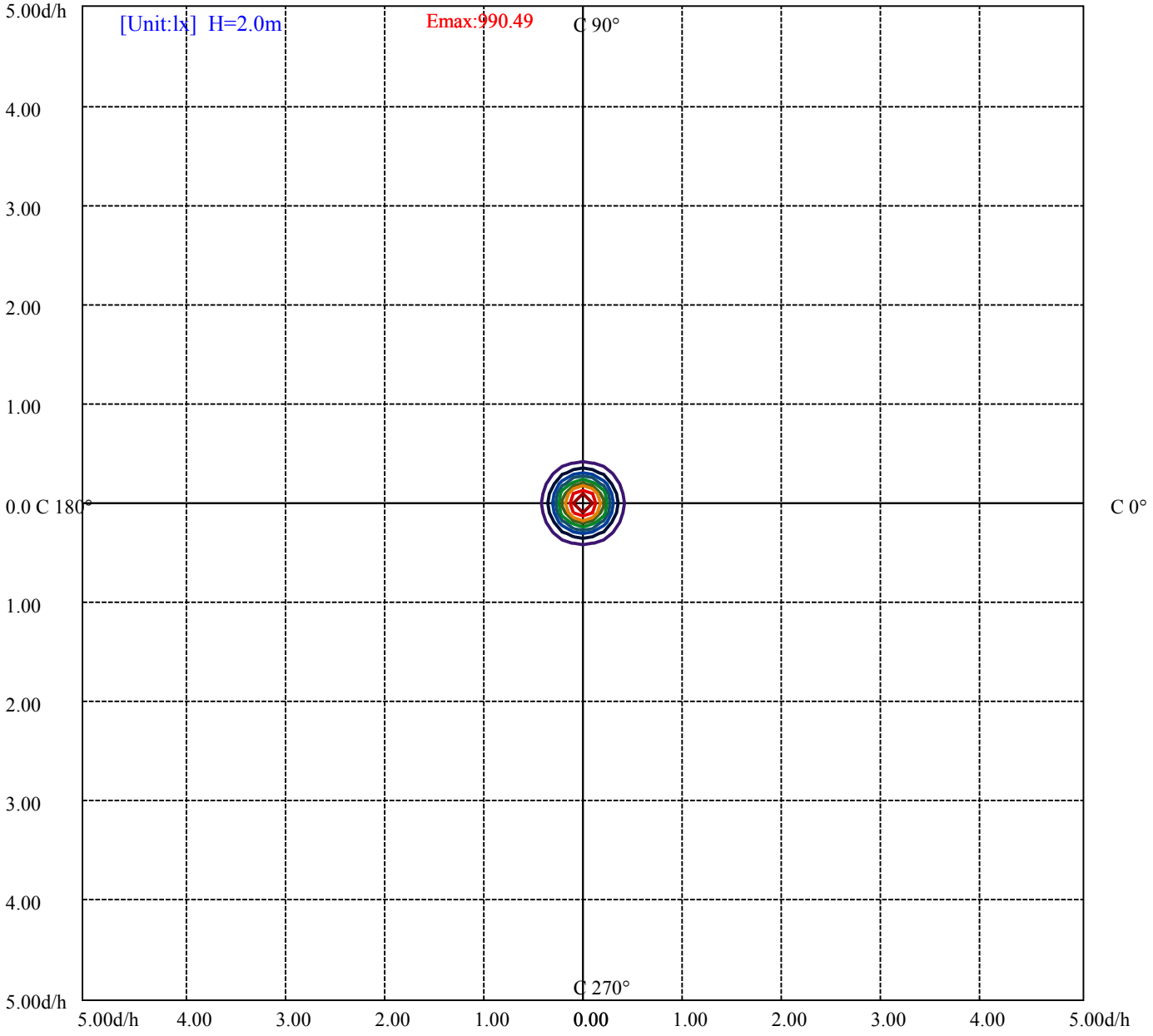
Imax:3961.97

(10%Imax) 396.197
(20%Imax) 792.394
(30%Imax) 1188.59
(40%Imax) 1584.79
(50%Imax) 1980.98
(60%Imax) 2377.18
(70%Imax) 2773.38
(80%Imax) 3169.57
(90%Imax) 3565.77

Equipment: GMS1980 Date: 2021/01/07 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

KY Nata LN01D04524DA-N

ISO illuminance diagram



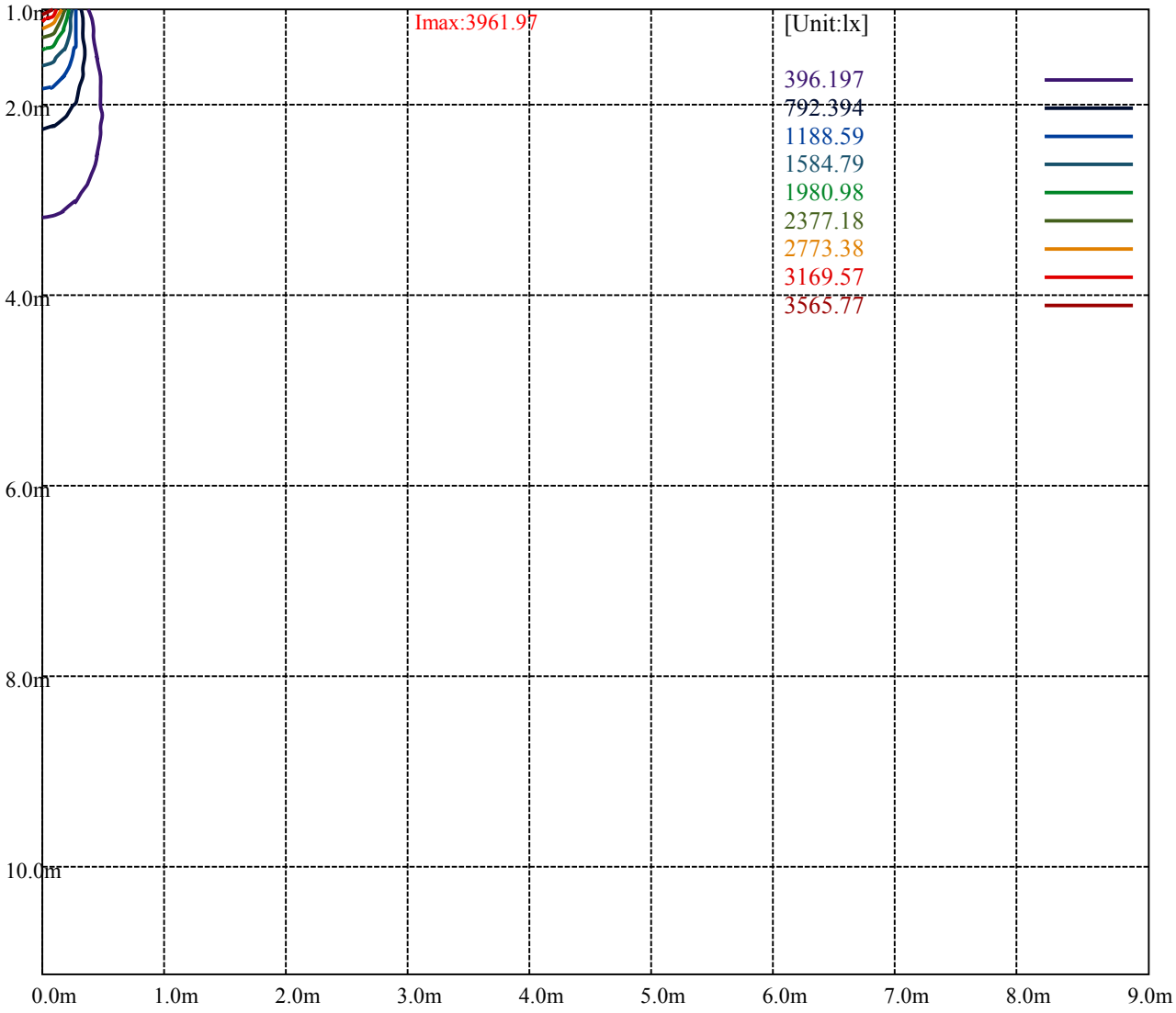
(10%Emax) 99.04925
(20%Emax) 198.0983
(30%Emax) 297.1475
(40%Emax) 396.1975
(50%Emax) 495.245
(60%Emax) 594.295
(70%Emax) 693.345
(80%Emax) 792.3925
(90%Emax) 891.4425

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/01/07
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/01/07
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

KY Nata LN01D04524DA-N

Luminance Limitting Curve(no luminous side)

Luminance Table

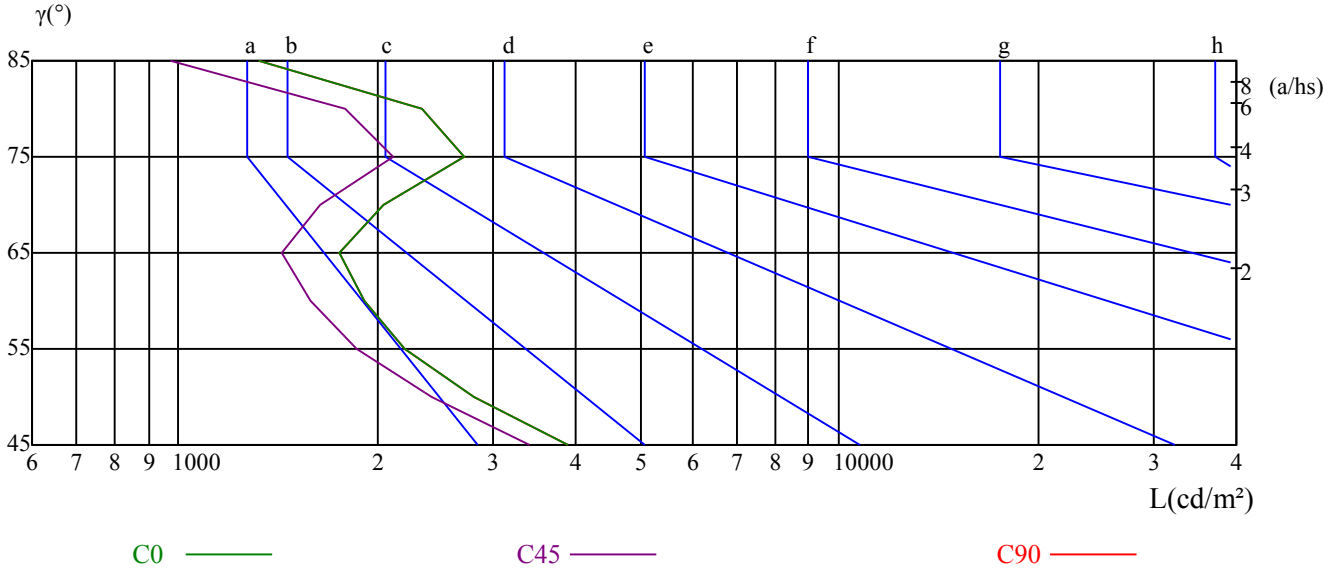
γ	45	50	55	60	65	70	75	80	85
C0	3889	2804	2201	1906	1751	2042	2702	2343	1320
C45	3394	2411	1864	1587	1432	1636	2115	1785	973
C90	3889	2804	2201	1906	1751	2042	2702	2343	1320

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3792	3792	3792	8181	8181	8181	9522	9522	9522

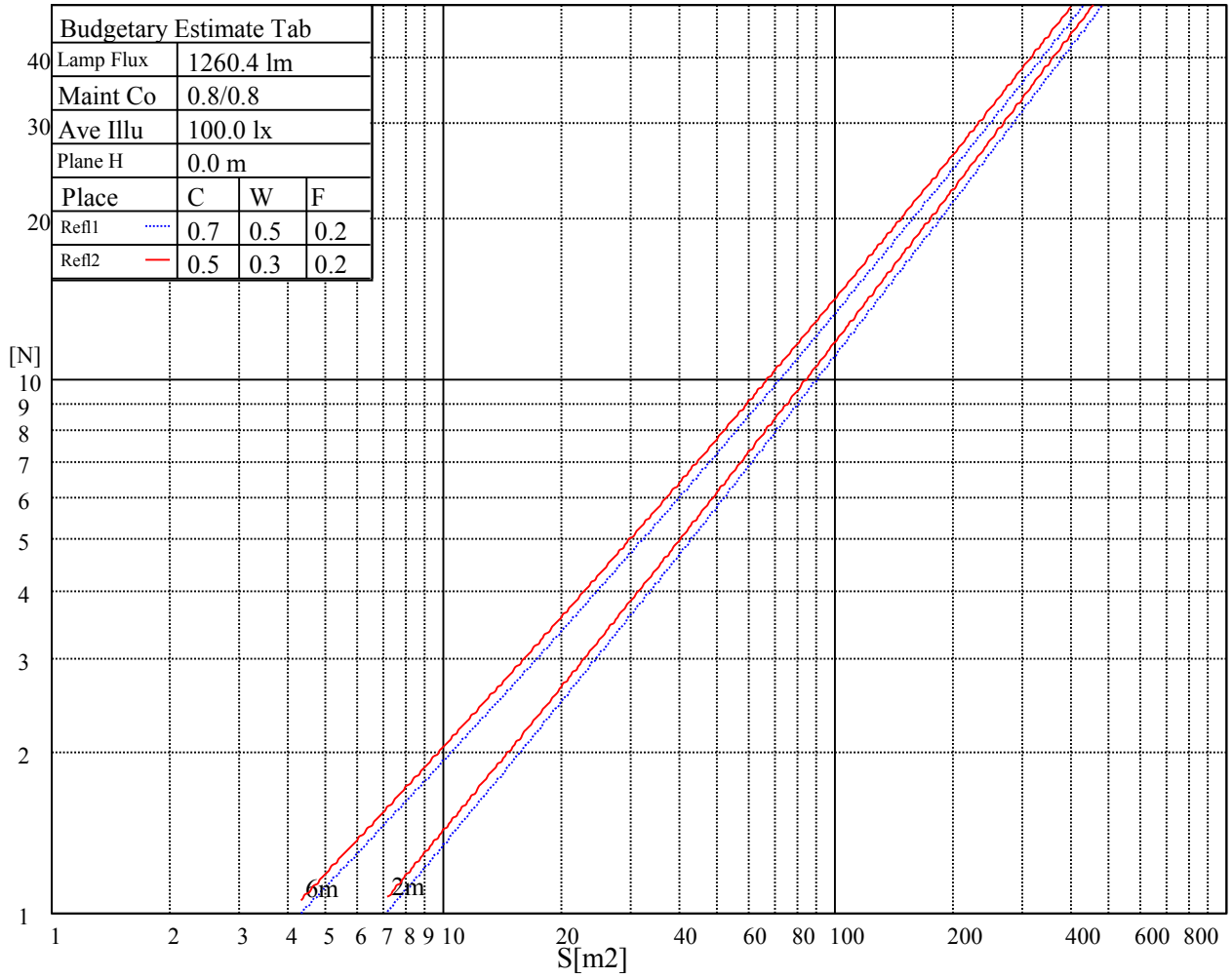
Glare Table

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

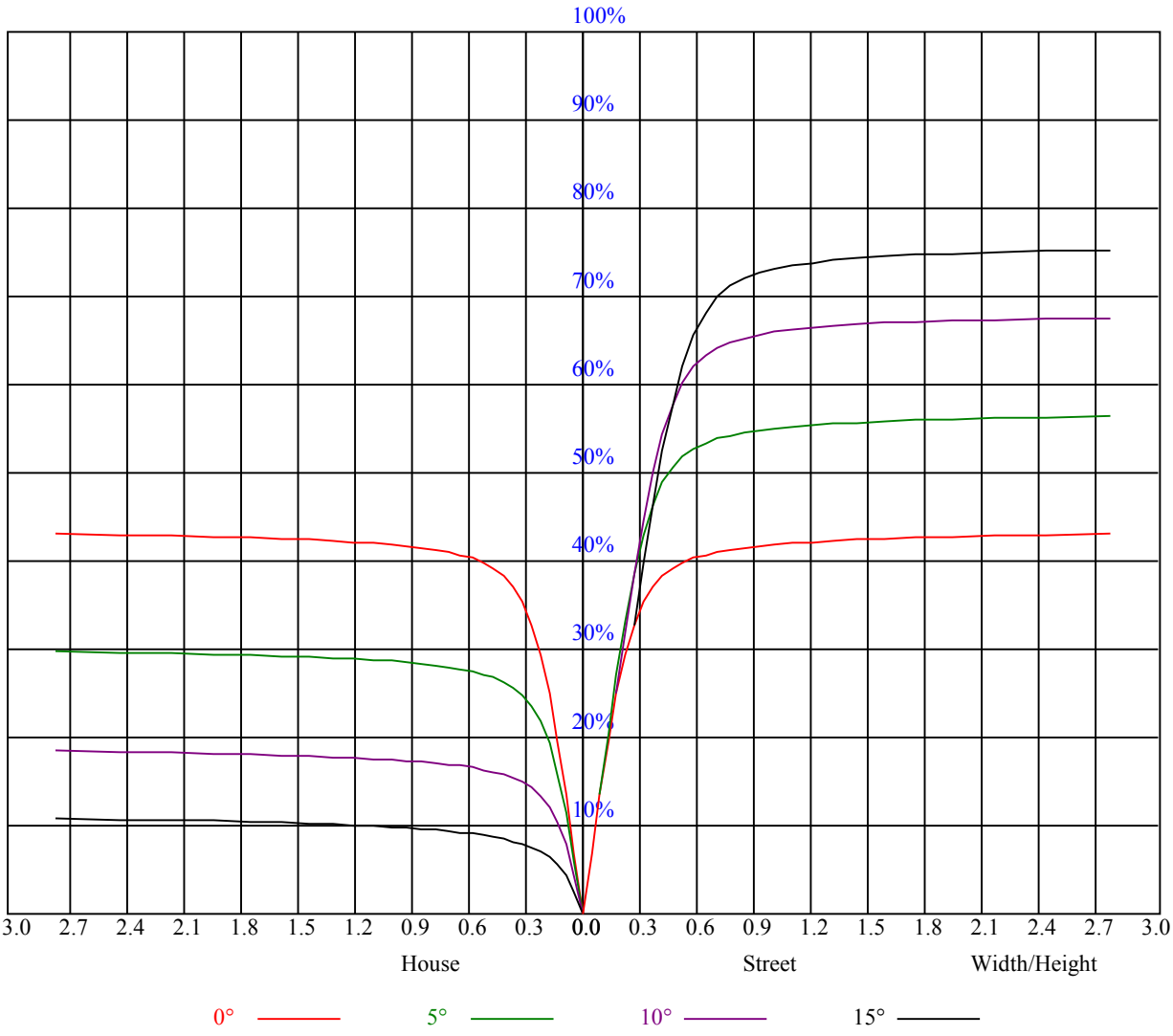


Equipment: GMS1980 Date: 2021/01/07 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.87
1	0.97	0.95	0.93	0.95	0.94	0.92	0.92	0.90	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.82
2	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.78
3	0.87	0.83	0.80	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.70	0.68	0.72	0.70	0.68	0.67
7	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.64
8	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
9	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
10	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2021/01/07	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

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	3961.13	3949.88	3908.81	3851.44	3771.56	3659.63	3525.19	3389.63	3219.75
45.0	3966.75	3952.13	3910.50	3843.00	3760.31	3656.25	3499.31	3354.19	3214.69
90.0	3963.38	3952.69	3918.38	3857.63	3782.81	3675.38	3560.63	3409.31	3238.31
135.0	3956.63	3965.06	3950.44	3917.25	3866.63	3785.63	3678.75	3565.13	3420.00
180.0	3961.13	3954.94	3920.63	3872.81	3807.00	3696.75	3586.50	3458.81	3281.06
225.0	3966.75	3959.44	3931.31	3879.00	3804.75	3719.81	3603.94	3468.94	3331.69
270.0	3963.38	3954.38	3917.25	3866.06	3797.44	3687.19	3582.00	3462.75	3330.00
315.0	3956.63	3929.63	3868.88	3799.13	3713.63	3597.75	3461.63	3327.75	3157.88
360.0	3961.13	3949.88	3908.81	3851.44	3771.56	3659.63	3525.19	3389.63	3219.75

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3031.88	2849.63	2628.00	2413.69	2162.25	1905.75	1681.31	1465.88	1217.81
45.0	2972.81	2778.75	2596.50	2317.50	2058.19	1856.81	1582.31	1373.63	1179.00
90.0	3070.69	2868.19	2648.25	2436.75	2215.13	1936.13	1717.31	1506.94	1119.43
135.0	3255.75	3092.63	2891.81	2697.75	2462.63	2215.69	1992.94	1770.75	1504.13
180.0	3140.44	2946.38	2712.94	2536.88	2297.25	2021.63	1826.44	1608.75	1323.00
225.0	3179.81	2993.06	2788.31	2588.63	2320.88	2099.25	1875.38	1653.75	1388.81
270.0	3143.81	2981.25	2781.56	2585.25	2349.56	2102.06	1878.75	1633.50	1403.44
315.0	2991.38	2787.75	2562.19	2347.31	2095.88	1845.00	1630.69	1424.25	1118.93
360.0	3031.88	2849.63	2628.00	2413.69	2162.25	1905.75	1681.31	1465.88	1217.81

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1042.88	887.06	718.88	603.56	507.38	416.81	344.25	290.81	256.78
45.0	957.94	798.75	669.38	540.56	454.50	381.38	309.94	286.31	225.68
90.0	1075.78	914.68	756.45	624.04	526.39	436.67	371.08	311.18	262.74
135.0	1303.88	1106.44	902.25	758.81	643.50	524.25	435.38	363.38	303.75
180.0	1105.76	977.29	822.99	659.64	551.70	462.54	372.43	315.39	268.71
225.0	1105.88	1021.61	848.19	698.96	585.51	477.90	390.66	328.95	273.77
270.0	1216.69	1047.38	858.94	726.19	610.88	502.31	412.31	347.06	291.94
315.0	1016.44	865.46	715.89	589.11	493.93	404.66	332.38	280.86	234.28
360.0	1042.88	887.06	718.88	603.56	507.38	416.81	344.25	290.81	256.78

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	204.53	173.76	150.30	133.48	117.73	104.79	95.18	86.85	77.85
45.0	192.04	165.54	146.03	128.25	113.85	102.83	92.25	84.32	76.73
90.0	227.14	196.93	165.94	146.03	129.21	111.66	100.01	90.28	79.88
135.0	285.75	216.23	183.43	159.92	138.66	121.05	108.28	97.37	87.13
180.0	226.24	191.59	166.89	144.39	128.03	112.89	100.41	91.01	82.01
225.0	233.89	197.55	169.43	149.06	132.30	115.37	104.06	94.28	83.76
270.0	233.78	199.18	171.84	147.83	129.09	115.48	102.49	91.80	83.53
315.0	201.15	171.23	148.28	131.57	117.73	104.57	93.54	85.33	76.33
360.0	204.53	173.76	150.30	133.48	117.73	104.79	95.18	86.85	77.85

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	71.61	66.04	60.47	55.52	51.64	47.76	44.21	41.29	38.31
45.0	70.03	64.69	60.08	54.96	51.08	47.53	43.76	40.89	38.25
90.0	72.62	66.32	59.57	55.46	50.63	45.96	43.03	39.66	36.34
135.0	78.30	71.44	65.42	59.01	54.51	50.40	45.96	42.75	39.94
180.0	74.25	68.29	62.94	57.04	52.93	49.22	45.51	42.08	39.26
225.0	76.61	70.43	64.46	58.95	54.79	50.51	47.14	43.59	40.39
270.0	75.66	69.36	63.34	57.77	53.61	49.78	45.51	42.41	39.54
315.0	70.03	64.58	59.68	54.11	50.23	46.74	43.14	39.88	37.13
360.0	71.61	66.04	60.47	55.52	51.64	47.76	44.21	41.29	38.31

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	35.83	33.30	30.94	28.91	27.11	24.98	23.57	22.22	20.81
45.0	35.55	33.02	30.99	28.86	27.11	25.31	23.74	22.44	21.26
90.0	34.14	31.89	29.03	27.45	25.71	23.51	22.28	20.98	19.91
135.0	37.01	34.31	32.12	29.87	28.01	26.10	24.36	22.89	21.49
180.0	36.51	33.86	31.78	29.59	27.73	25.82	24.08	22.73	21.32
225.0	37.80	35.04	32.46	30.49	28.58	26.38	24.81	23.40	21.99
270.0	36.28	33.92	31.67	29.25	27.23	25.37	23.63	22.28	20.93
315.0	34.31	31.73	29.53	27.34	25.54	23.63	21.99	20.81	19.69
360.0	35.83	33.30	30.94	28.91	27.11	24.98	23.57	22.22	20.81

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.86	19.01	18.23	17.49	16.93	16.20	15.58	15.08	14.57
45.0	20.14	19.35	18.62	17.78	17.16	16.59	15.98	15.47	14.96
90.0	18.84	18.11	17.33	16.82	16.20	15.58	15.13	14.63	14.18
135.0	20.31	19.41	18.68	17.72	17.10	16.59	15.92	15.41	14.96
180.0	20.19	19.29	18.45	17.55	16.99	16.43	15.81	15.24	14.79
225.0	20.76	19.86	18.84	18.17	17.49	16.88	16.26	15.69	15.08
270.0	19.86	18.96	18.17	17.38	16.82	16.31	15.69	15.24	14.74
315.0	18.56	17.83	17.16	16.43	15.86	15.36	14.91	14.46	14.18
360.0	19.86	19.01	18.23	17.49	16.93	16.20	15.58	15.08	14.57

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.12	13.61	13.33	12.88	12.54	12.15	11.87	11.48	11.19
45.0	14.46	14.01	13.61	13.22	12.77	12.43	12.04	11.70	11.36
90.0	13.84	13.44	13.28	13.33	13.73	14.34	15.64	16.82	18.00
135.0	14.46	14.01	14.06	14.51	15.30	16.54	18.23	19.80	21.60
180.0	14.23	13.84	13.28	12.88	12.54	12.15	11.76	11.48	11.14
225.0	14.63	14.18	13.73	13.33	12.99	12.54	12.26	11.87	11.53
270.0	14.34	13.95	13.67	13.33	13.11	13.28	13.84	14.68	15.92
315.0	13.84	13.56	13.56	14.18	15.19	16.65	18.34	20.08	22.11
360.0	14.12	13.61	13.33	12.88	12.54	12.15	11.87	11.48	11.19

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.86	10.46	10.18	9.84	9.56	9.28	8.89	8.61	8.27
45.0	10.97	10.63	10.41	10.01	9.73	9.45	9.11	8.78	8.44
90.0	19.63	20.87	21.88	22.56	22.28	21.43	19.69	17.72	15.30
135.0	24.08	25.99	27.90	29.87	30.77	30.88	29.87	27.68	25.26
180.0	10.74	10.41	10.07	9.79	9.45	9.17	8.83	8.49	8.27
225.0	11.19	10.91	10.52	10.24	9.96	9.56	9.34	9.00	8.66
270.0	17.38	18.68	20.03	21.09	21.60	21.54	20.48	18.96	16.93
315.0	24.53	26.55	28.29	29.98	30.54	29.70	27.56	24.47	21.32
360.0	10.86	10.46	10.18	9.84	9.56	9.28	8.89	8.61	8.27

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.99	7.59	7.20	6.81	6.47	5.96	5.57	5.34	5.18
45.0	8.10	7.82	7.37	7.03	6.75	6.24	5.91	5.57	5.46
90.0	12.54	10.01	7.93	7.59	6.75	6.02	5.57	5.29	5.18
135.0	21.99	18.68	14.34	9.96	7.82	6.36	5.85	5.51	5.29
180.0	7.93	7.65	7.31	6.98	6.64	6.13	5.85	5.46	5.29
225.0	8.38	8.10	7.71	7.43	7.14	6.75	6.36	5.96	5.68
270.0	13.95	11.36	8.94	7.88	7.48	6.36	5.96	5.63	5.34
315.0	17.44	13.56	9.90	7.99	7.14	5.85	5.51	5.23	5.06
360.0	7.99	7.59	7.20	6.81	6.47	5.96	5.57	5.34	5.18

Intensity data(cd)

C/γ(°)	90.0
0.0	5.06
45.0	5.40
90.0	5.18
135.0	5.06
180.0	5.12
225.0	5.51
270.0	5.12
315.0	5.06
360.0	5.06