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

Nata

LumCAT: 3-2719-L
Luminaire: 99.70.131.00
Report No: 220816-B022
Test No: 220816-C020
LampCAT: CITIZEN CLU038
Lamp flux(lm): 2260.9
Number of Lamps: 1
Length(mm): 43
Phm Type: C

Voltage(V): 35.5200
Current(A): 0.4810
Power (W): 17.0850
PF: 0.0000
Ballast type: DC
Width(mm): 43
Height(mm): 0

Photometric Results

Lumens(lm): 1920.25
Efficiency(%): 84.93%
Lumens(lm)/Power(W): 112.39
Central intensity(cd): 6740.276
Maximum intensity(cd): 6740.276
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.5
[C90/270]Total=23.5
Field angle(10%Imax): [C0/180]Total=58.5
[C90/270]Total=58.5
Maximum s/h(1/2): C0_180=0.39 C90_270=0.39
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.93%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.027%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6740.277	0.000	0	.000%	.000%
1.0	6709.578	6.436	6.436	.285%	.335%
2.0	6602.546	19.107	25.542	.845%	1.330%
3.0	6422.316	31.151	56.694	1.378%	2.952%
4.0	6169.487	42.149	98.842	1.864%	5.147%
5.0	5848.166	51.699	150.542	2.287%	7.840%
6.0	5437.365	59.308	209.85	2.623%	10.928%
7.0	5052.332	65.109	274.959	2.880%	14.319%
8.0	4667.448	69.563	344.522	3.077%	17.941%
9.0	4272.780	72.456	416.978	3.205%	21.715%
10.0	3910.603	74.057	491.034	3.276%	25.571%
11.0	3589.655	74.943	565.977	3.315%	29.474%
12.0	3294.551	75.254	641.232	3.329%	33.393%
13.0	3004.077	74.749	715.98	3.306%	37.286%
14.0	2744.824	73.585	789.566	3.255%	41.118%
15.0	2515.000	72.209	861.775	3.194%	44.878%
16.0	2305.566	70.635	932.41	3.124%	48.557%
17.0	2104.796	68.681	1001.091	3.038%	52.133%
18.0	1937.040	66.641	1067.732	2.948%	55.604%
19.0	1787.732	64.803	1132.536	2.866%	58.978%
20.0	1651.645	62.950	1195.486	2.784%	62.257%
21.0	1515.184	60.810	1256.295	2.690%	65.423%
22.0	1386.925	58.319	1314.614	2.579%	68.460%
23.0	1274.007	55.834	1370.448	2.470%	71.368%
24.0	1147.868	52.951	1423.399	2.342%	74.126%
25.0	1032.104	49.568	1472.967	2.192%	76.707%
26.0	924.960	46.197	1519.163	2.043%	79.113%
27.0	836.451	43.093	1562.257	1.906%	81.357%
28.0	761.155	40.448	1602.705	1.789%	83.463%
29.0	693.985	38.071	1640.775	1.684%	85.446%
30.0	618.622	35.440	1676.215	1.568%	87.291%
31.0	537.111	32.162	1708.378	1.423%	88.966%
32.0	451.627	28.326	1736.704	1.253%	90.441%
33.0	371.290	24.243	1760.947	1.072%	91.704%
34.0	301.887	20.372	1781.32	.901%	92.765%
35.0	221.840	16.265	1797.585	.719%	93.612%
36.0	147.470	11.759	1809.344	.520%	94.224%
37.0	99.459	8.053	1817.397	.356%	94.644%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	74.392	5.803	1823.2	.257%	94.946%
39.0	63.607	4.710	1827.91	.208%	95.191%
40.0	57.691	4.230	1832.141	.187%	95.411%
41.0	52.642	3.929	1836.07	.174%	95.616%
42.0	48.064	3.659	1839.728	.162%	95.807%
43.0	44.299	3.421	1843.15	.151%	95.985%
44.0	41.185	3.226	1846.376	.143%	96.153%
45.0	38.212	3.051	1849.427	.135%	96.312%
46.0	35.224	2.872	1852.299	.127%	96.461%
47.0	32.887	2.709	1855.008	.120%	96.602%
48.0	30.773	2.573	1857.582	.114%	96.736%
49.0	28.846	2.448	1860.03	.108%	96.864%
50.0	26.986	2.328	1862.358	.103%	96.985%
51.0	25.522	2.222	1864.579	.098%	97.101%
52.0	24.282	2.137	1866.717	.095%	97.212%
53.0	23.184	2.065	1868.781	.091%	97.319%
54.0	22.303	2.005	1870.786	.089%	97.424%
55.0	21.728	1.965	1872.752	.087%	97.526%
56.0	21.242	1.942	1874.693	.086%	97.627%
57.0	20.884	1.926	1876.619	.085%	97.728%
58.0	20.704	1.923	1878.543	.085%	97.828%
59.0	20.368	1.920	1880.463	.085%	97.928%
60.0	19.972	1.906	1882.369	.084%	98.027%
61.0	19.547	1.886	1884.255	.083%	98.125%
62.0	18.860	1.851	1886.105	.082%	98.222%
63.0	18.060	1.796	1887.901	.079%	98.315%
64.0	17.254	1.733	1889.634	.077%	98.405%
65.0	16.298	1.660	1891.294	.073%	98.492%
66.0	15.469	1.585	1892.879	.070%	98.574%
67.0	14.729	1.518	1894.397	.067%	98.653%
68.0	13.930	1.452	1895.849	.064%	98.729%
69.0	13.273	1.388	1897.237	.061%	98.801%
70.0	12.765	1.337	1898.574	.059%	98.871%
71.0	12.309	1.296	1899.87	.057%	98.938%
72.0	11.936	1.261	1901.131	.056%	99.004%
73.0	11.629	1.232	1902.363	.055%	99.068%
74.0	11.361	1.209	1903.572	.053%	99.131%
75.0	11.069	1.185	1904.757	.052%	99.193%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.838	1.163	1905.92	.051%	99.254%
77.0	10.606	1.143	1907.063	.051%	99.313%
78.0	10.397	1.124	1908.187	.050%	99.372%
79.0	10.151	1.104	1909.291	.049%	99.429%
80.0	9.941	1.083	1910.374	.048%	99.486%
81.0	9.747	1.065	1911.439	.047%	99.541%
82.0	9.546	1.046	1912.485	.046%	99.595%
83.0	9.351	1.027	1913.513	.045%	99.649%
84.0	9.172	1.009	1914.522	.045%	99.701%
85.0	9.015	0.993	1915.514	.044%	99.753%
86.0	8.836	0.976	1916.49	.043%	99.804%
87.0	8.657	0.957	1917.448	.042%	99.854%
88.0	8.567	0.943	1918.391	.042%	99.903%
89.0	8.477	0.934	1919.325	.041%	99.952%
90.0	8.463	0.929	1920.254	.041%	100.000%

Zonal flux distribution table

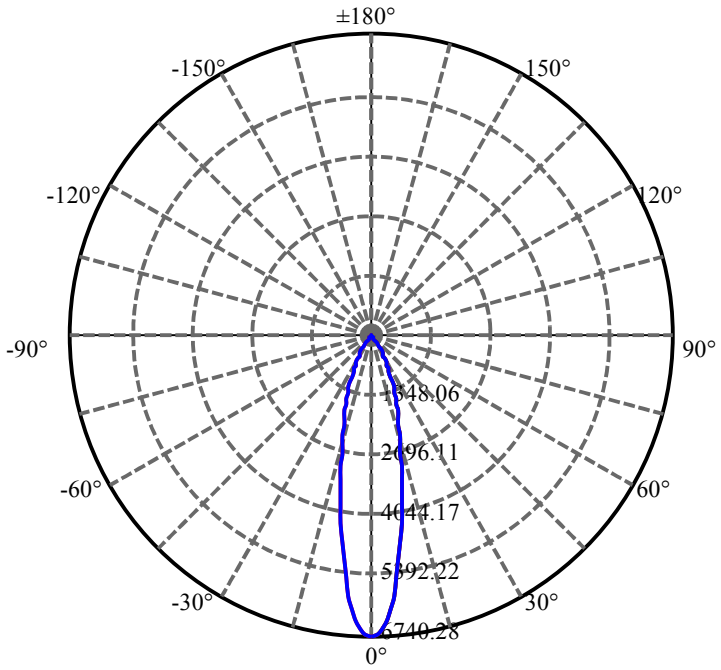
ZONAL LUMEN SUMMARY

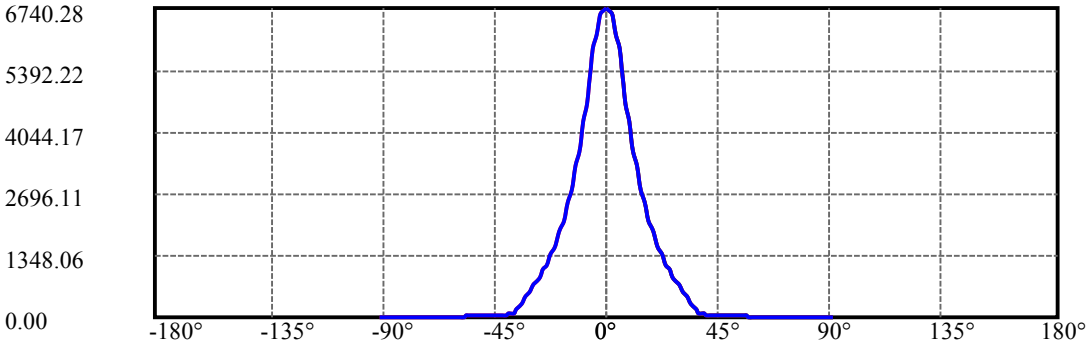
Zone	Lumens	%Lamp	%Fixt
0-30	1676.22	74.14%	87.29%
0-40	1832.14	81.04%	95.41%
0-60	1882.37	83.26%	98.03%
0-90	1919.33	84.89%	99.95%
0-120	1919.33	84.89%	99.95%
0-180	1920.25	84.93%	100.00%
60-90	38.86	1.72%	2.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.40	1536.20	67.95%	80.00%

ZONAL LUMEN SUMMARY

0-10	491.03
10-20	704.45
20-30	480.73
30-40	155.93
40-50	30.22
50-60	20.01
60-70	16.21
70-80	11.80
80-90	8.95
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:29.3 Right:29.3
:C90/270Left:29.3 Right:29.3

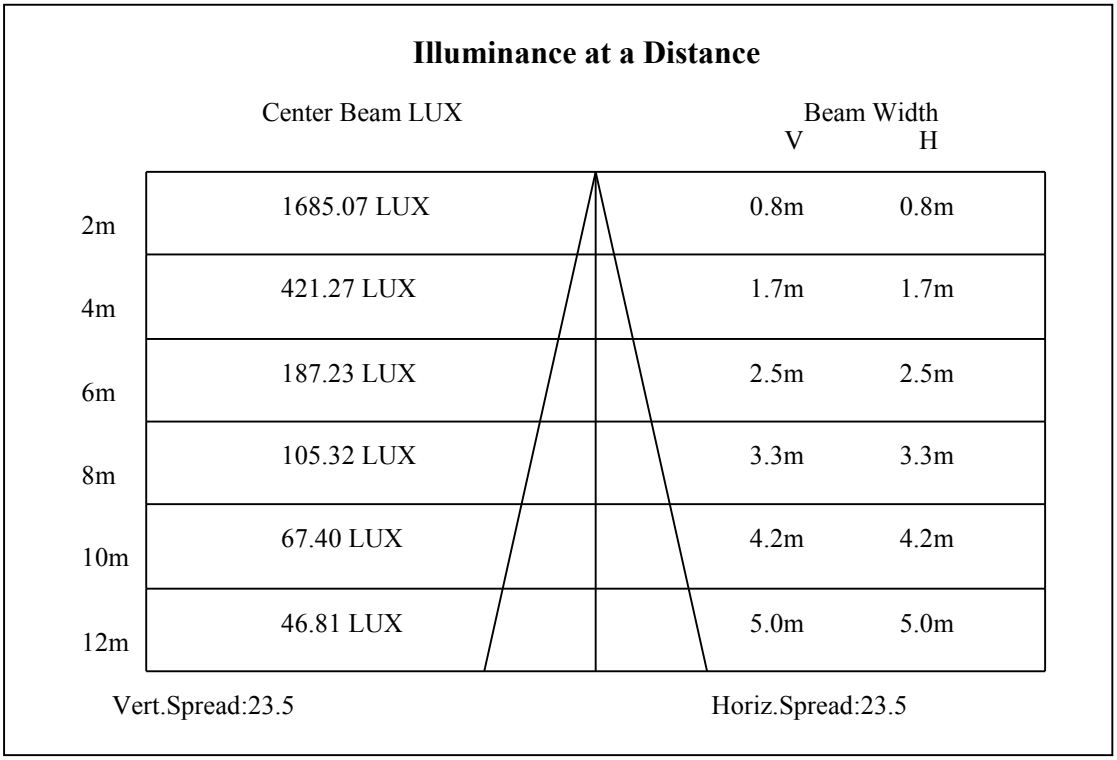
Beam Angle(50%Imax):C0/180Left:11.7 Right:11.7
:C90/270Left:11.7 Right:11.7

Equipment: GMS1980
Temperature(°C): 25.0

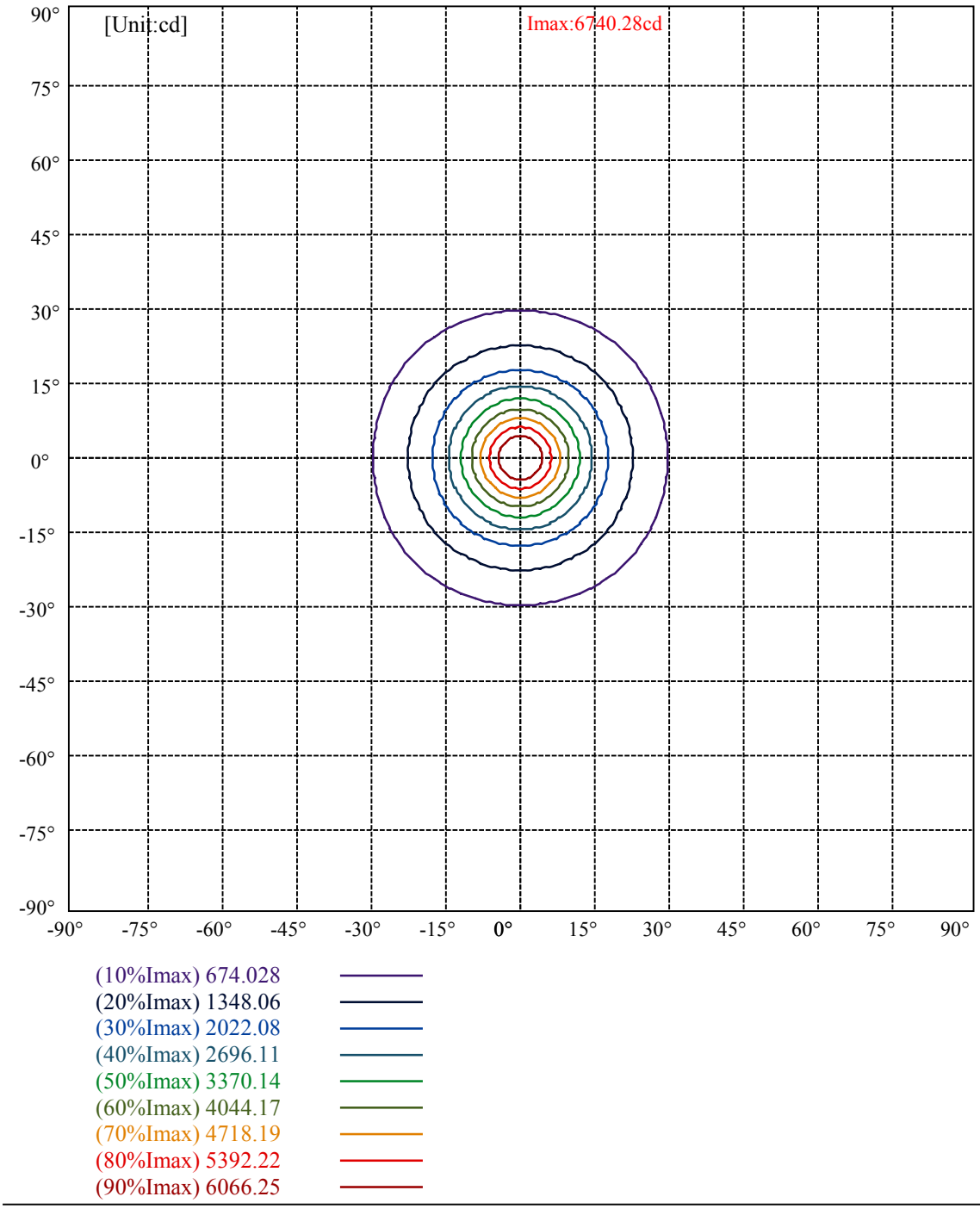
Date: 2022/8/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

Lux distance Curve



ISO-Intensity(V-H)

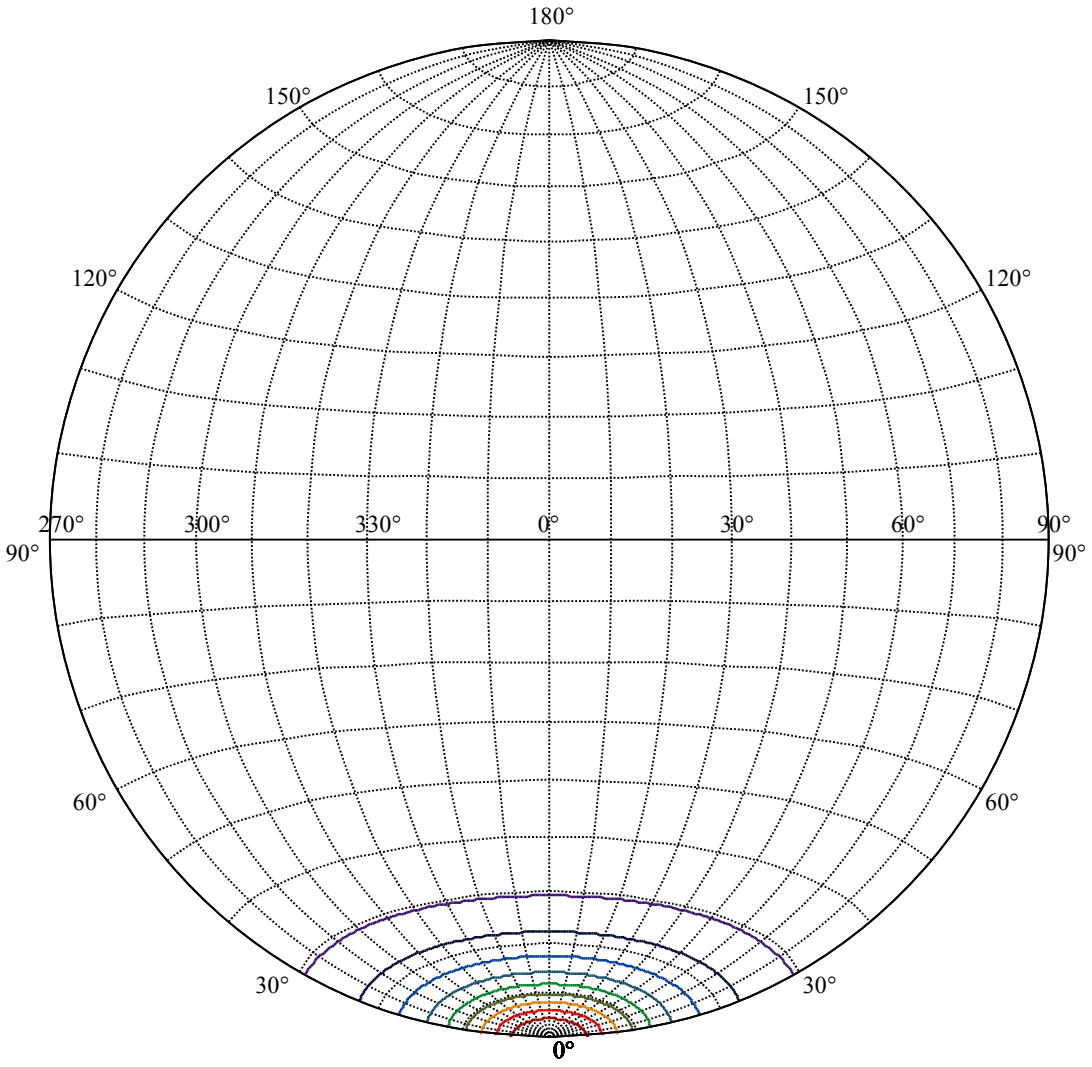


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/8/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

ISO candela diagram on circular web



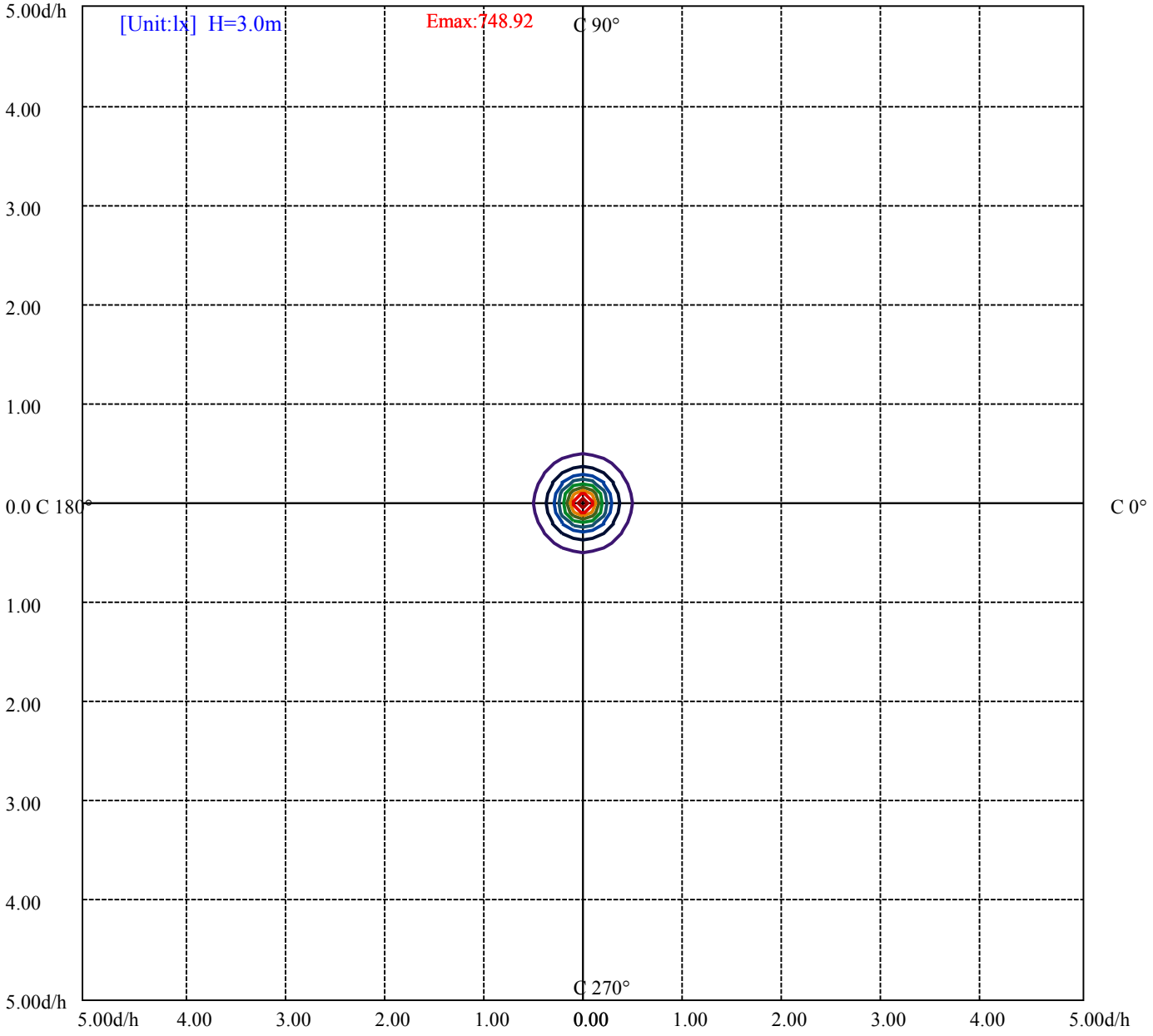
House [Unit:cd] Road

Imax:6740.28

(10%Imax) 674.028
(20%Imax) 1348.06
(30%Imax) 2022.08
(40%Imax) 2696.11
(50%Imax) 3370.14
(60%Imax) 4044.17
(70%Imax) 4718.19
(80%Imax) 5392.22
(90%Imax) 6066.25

Equipment: GMS1980 Date: 2022/8/16 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.73

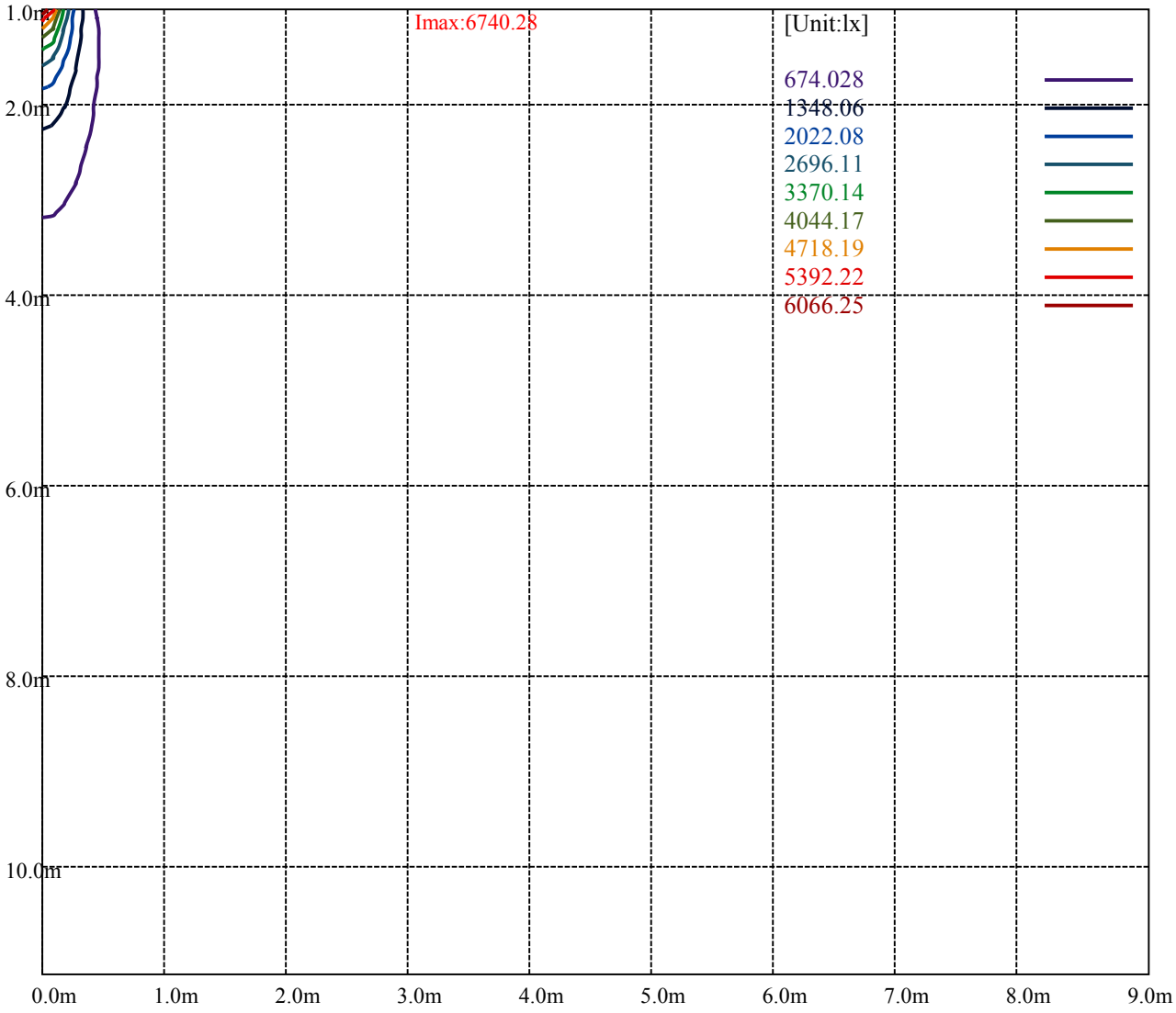
ISO illuminance diagram



(10%Emax) 74.89188
(20%Emax) 149.7833
(30%Emax) 224.6756
(40%Emax) 299.5678
(50%Emax) 374.46
(60%Emax) 449.3511
(70%Emax) 524.2433
(80%Emax) 599.1356
(90%Emax) 674.0267

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2022/8/16
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.73

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/8/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

Luminance Limitting Curve(no luminous side)

Luminance Table

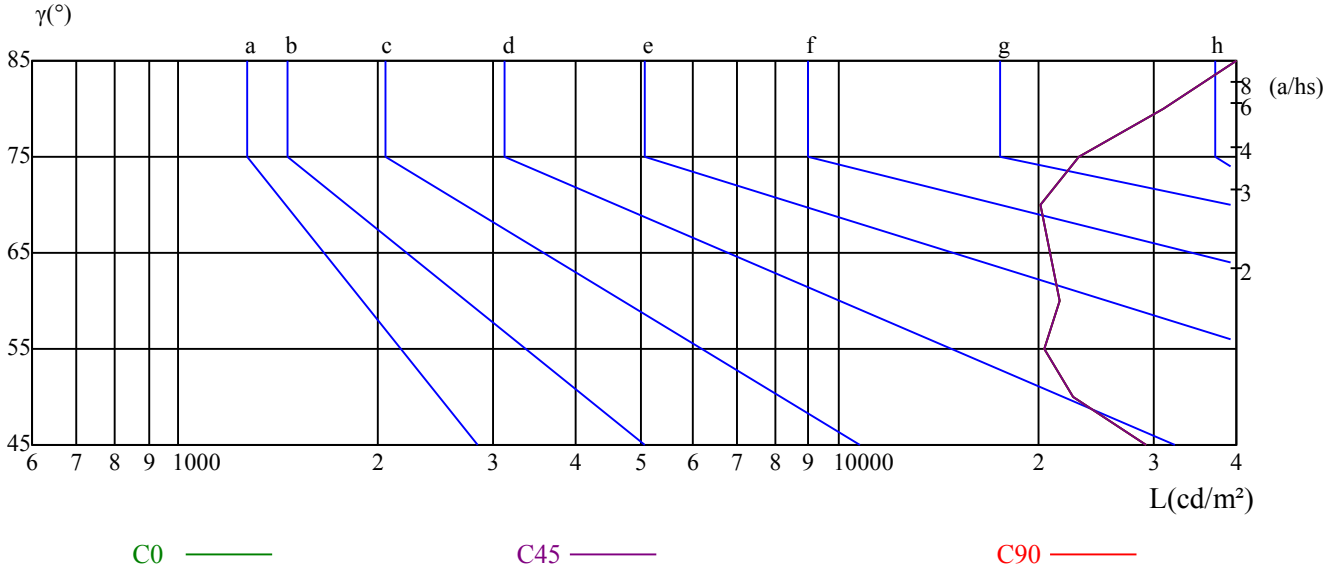
γ	45	50	55	60	65	70	75	80	85
C0	29227	22706	20487	21603	20856	20185	23130	30963	55943
C45	29227	22706	20487	21603	20856	20185	23130	30963	55943
C90	29227	22706	20487	21603	20856	20185	23130	30963	55943

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
20856	20856	20856	23130	23130	23130	55943	55943	55943

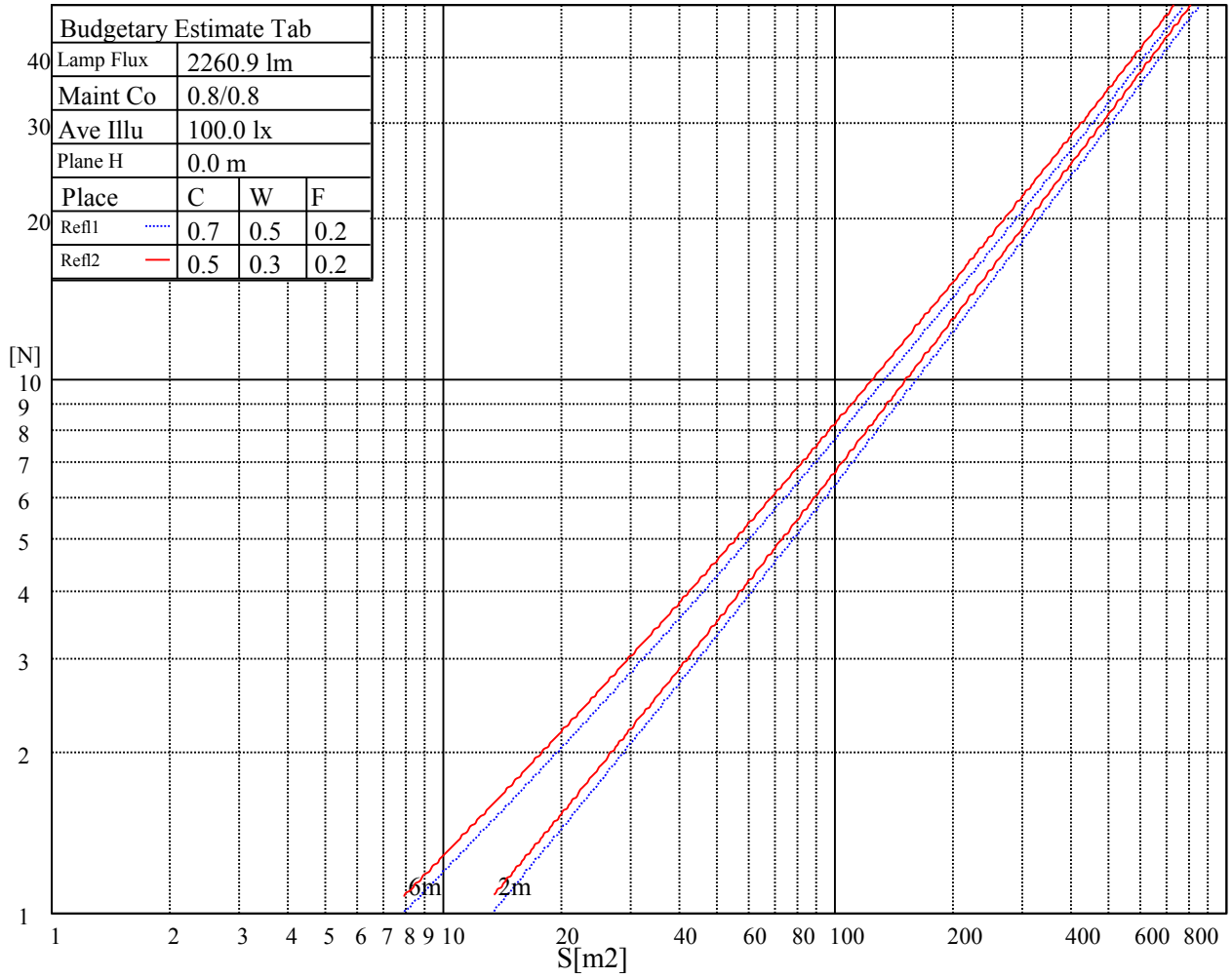
Glare Table

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
Temperature(°C): 25.0

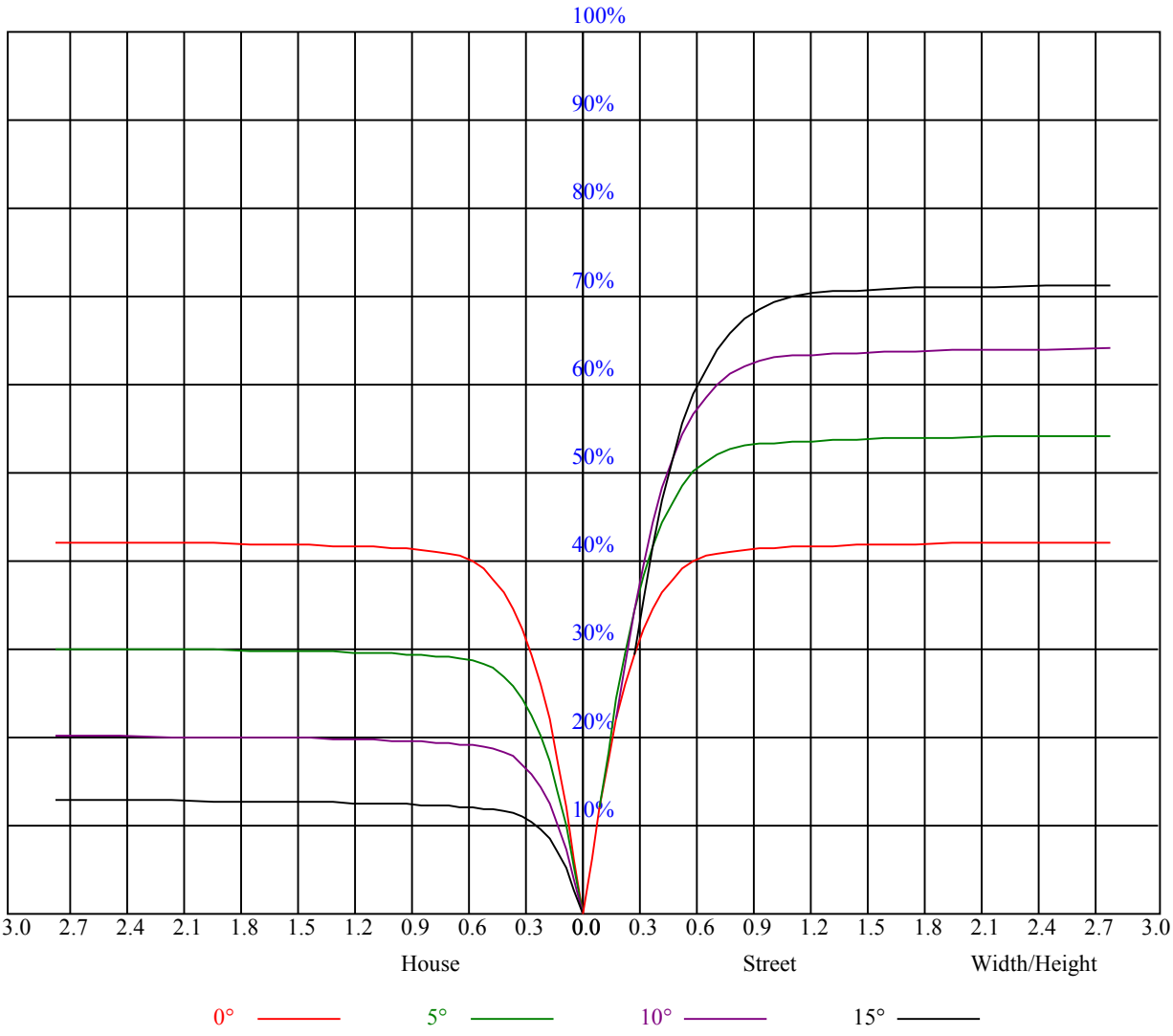
Date: 2022/8/16
Humidity(%): 65.0%

Operator: NT07
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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.82	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.78	0.76
3	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.79	0.77	0.75	0.77	0.76	0.74	0.73
4	0.80	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.71	0.75	0.72	0.71	0.69
5	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.68	0.66
6	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
7	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
8	0.68	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.57
10	0.63	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.55	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2022/8/16	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	6712.64	6756.86	6744.31	6630.18	6461.68	6217.89	5826.51	5445.28	5076.61
45.0	6761.04	6693.52	6541.15	6340.38	6063.13	5690.27	5283.35	4902.13	4495.21
90.0	6740.13	6643.92	6507.09	6269.87	5934.66	5589.29	5176.99	4759.32	4390.64
135.0	6747.30	6701.29	6569.83	6369.06	6112.72	5808.58	5350.87	4989.96	4618.30
180.0	6712.64	6620.02	6389.38	6153.35	5857.58	5454.24	5038.96	4651.17	4243.65
225.0	6761.04	6756.86	6679.78	6526.21	6305.72	5983.06	5601.24	5233.76	4822.66
270.0	6740.13	6754.47	6716.23	6589.55	6383.40	6108.54	5690.87	5329.36	4952.92
315.0	6747.30	6749.69	6672.61	6499.92	6237.01	5933.46	5530.13	5107.68	4739.60
360.0	6712.64	6756.86	6744.31	6630.18	6461.68	6217.89	5826.51	5445.28	5076.61

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4654.75	4267.55	3929.35	3589.95	3276.85	3017.52	2739.07	2517.39	2294.51
45.0	4090.68	3773.99	3434.60	3164.51	2876.50	2626.14	2419.99	2206.08	2024.43
90.0	4046.47	3655.08	3376.64	3113.13	2835.87	2585.51	2385.93	2174.41	1993.36
135.0	4177.92	3848.68	3540.96	3236.22	2935.06	2711.59	2464.21	2259.26	2077.61
180.0	3873.78	3568.44	3252.35	2997.21	2727.72	2480.94	2289.73	2114.06	1915.68
225.0	4455.18	4072.16	3708.26	3406.51	3137.03	2819.14	2597.46	2388.92	2163.05
270.0	4503.58	4149.84	3830.16	3500.32	3189.61	2939.25	2667.97	2454.05	2235.95
315.0	4379.89	3949.07	3644.93	3348.55	3053.97	2778.51	2555.63	2330.36	2133.78
360.0	4654.75	4267.55	3929.35	3589.95	3276.85	3017.52	2739.07	2517.39	2294.51

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2097.92	1945.55	1805.14	1647.39	1527.28	1417.34	1278.11	1163.99	1048.66
45.0	1873.25	1728.65	1580.46	1462.15	1348.62	1219.56	1090.49	979.35	869.40
90.0	1838.00	1685.63	1563.14	1432.87	1310.38	1181.20	1086.85	949.29	855.36
135.0	1900.74	1753.15	1621.10	1486.05	1370.13	1256.60	1115.59	1003.25	902.27
180.0	1770.48	1627.07	1507.57	1382.68	1184.18	1142.00	1014.37	906.39	817.66
225.0	1993.95	1851.14	1715.51	1563.73	1450.20	1334.28	1187.17	1074.66	963.69
270.0	2047.73	1897.75	1740.60	1601.38	1487.25	1374.91	1236.29	1121.56	1008.03
315.0	1974.24	1812.90	1679.65	1545.21	1417.34	1266.16	1174.08	1058.34	934.60
360.0	2097.92	1945.55	1805.14	1647.39	1527.28	1417.34	1278.11	1163.99	1048.66

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	921.99	828.77	766.63	696.12	630.39	544.35	455.91	376.44	307.73
45.0	794.71	739.74	661.46	591.55	503.12	412.89	336.41	307.73	180.33
90.0	790.05	720.56	650.89	573.87	488.24	403.93	328.70	250.07	177.41
135.0	818.61	749.90	690.15	607.69	521.64	442.17	354.33	306.53	201.61
180.0	760.59	690.50	614.56	539.39	459.98	364.31	288.61	214.45	136.60
225.0	858.17	784.56	721.22	642.52	568.01	481.31	393.47	319.26	245.94
270.0	901.07	807.86	743.92	664.45	577.21	501.92	428.43	342.38	306.53
315.0	846.40	767.35	703.05	633.38	548.29	462.13	384.45	298.23	218.58
360.0	921.99	828.77	766.63	696.12	630.39	544.35	455.91	376.44	307.73

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	203.28	139.76	94.23	68.24	62.14	56.47	51.03	46.49	43.14
45.0	121.96	83.77	66.74	60.53	54.67	49.65	45.35	42.42	39.38
90.0	121.66	80.73	67.88	60.71	54.14	49.77	46.01	42.36	39.56
135.0	136.95	87.54	68.66	62.98	57.18	52.58	47.98	44.40	41.47
180.0	91.78	72.66	65.97	58.92	53.96	49.12	45.65	42.31	39.02
225.0	162.71	109.71	80.73	68.54	62.38	56.94	51.33	47.44	44.16
270.0	190.01	122.85	79.71	66.80	60.41	54.85	49.59	45.29	42.31
315.0	151.41	98.65	71.23	62.14	56.65	51.75	47.56	43.68	40.45
360.0	203.28	139.76	94.23	68.24	62.14	56.47	51.03	46.49	43.14

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	40.09	36.81	34.18	31.91	29.82	27.84	26.05	24.62	23.66
45.0	36.15	33.94	31.73	29.58	27.79	25.93	24.62	23.60	22.29
90.0	36.69	33.94	31.79	29.82	28.08	26.23	24.98	23.78	22.77
135.0	38.30	35.19	33.10	30.95	28.86	27.19	25.75	24.50	23.36
180.0	36.51	34.06	31.61	29.94	28.26	26.17	25.10	23.90	22.83
225.0	40.39	37.47	35.07	32.27	30.59	28.68	26.71	25.57	24.50
270.0	39.97	36.03	33.76	31.97	29.28	27.73	26.35	24.68	23.60
315.0	37.58	34.36	31.85	29.76	28.08	26.11	24.62	23.60	22.47
360.0	40.09	36.81	34.18	31.91	29.82	27.84	26.05	24.62	23.66

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.41	21.57	21.09	20.55	20.32	20.32	19.96	19.66	19.60
45.0	21.75	21.33	20.91	20.79	20.61	20.20	19.90	19.42	18.46
90.0	22.05	21.57	21.09	20.91	20.73	20.26	19.90	19.36	18.28
135.0	22.59	21.93	21.39	21.15	21.03	20.61	20.14	19.90	18.94
180.0	22.23	21.63	21.21	21.15	20.79	20.26	20.20	19.24	18.05
225.0	23.18	22.65	22.11	21.39	21.21	20.73	20.08	19.66	19.24
270.0	22.77	21.99	21.57	21.03	20.73	20.67	20.20	19.72	19.48
315.0	21.45	21.15	20.55	20.08	20.20	19.90	19.42	19.42	18.82
360.0	22.41	21.57	21.09	20.55	20.32	20.32	19.96	19.66	19.60

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.76	17.75	17.27	16.13	15.24	14.58	13.68	13.03	12.49
45.0	17.75	16.97	15.72	15.12	14.40	13.50	12.97	12.55	12.13
90.0	17.63	16.79	15.66	15.06	14.40	13.50	12.97	12.55	12.19
135.0	18.05	17.15	16.07	15.36	14.70	13.80	13.21	12.73	12.25
180.0	17.45	16.55	15.36	14.82	14.10	13.27	12.79	12.43	12.01
225.0	18.34	17.75	16.85	15.83	15.12	14.34	13.62	13.03	12.61
270.0	18.64	17.75	17.15	16.13	15.24	14.58	13.86	13.21	12.67
315.0	17.87	17.33	16.31	15.30	14.64	13.86	13.09	12.61	12.13
360.0	18.76	17.75	17.27	16.13	15.24	14.58	13.68	13.03	12.49

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.07	11.71	11.41	11.11	10.88	10.70	10.46	10.22	10.04
45.0	11.77	11.53	11.29	10.93	10.76	10.46	10.28	10.04	9.86
90.0	11.83	11.53	11.29	10.99	10.76	10.58	10.34	10.10	9.86
135.0	12.01	11.59	11.35	11.05	10.82	10.58	10.40	10.10	9.92
180.0	11.65	11.41	11.11	10.88	10.64	10.34	10.16	9.92	9.74
225.0	12.13	11.83	11.53	11.23	10.99	10.76	10.52	10.28	10.04
270.0	12.31	11.95	11.71	11.41	11.17	10.93	10.76	10.46	10.28
315.0	11.71	11.47	11.17	10.93	10.70	10.52	10.28	10.10	9.80
360.0	12.07	11.71	11.41	11.11	10.88	10.70	10.46	10.22	10.04

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.86	9.62	9.44	9.26	9.08	8.90	8.78	8.66	8.48
45.0	9.62	9.44	9.32	9.14	9.02	8.84	8.66	8.54	8.43
90.0	9.74	9.56	9.26	9.08	8.90	8.78	8.60	8.54	8.43
135.0	9.68	9.50	9.32	9.14	9.02	8.78	8.60	8.48	8.43
180.0	9.56	9.32	9.14	8.96	8.84	8.72	8.48	8.48	8.43
225.0	9.86	9.62	9.44	9.26	9.08	8.90	8.78	8.66	8.54
270.0	10.04	9.86	9.62	9.44	9.20	8.90	8.72	8.60	8.54
315.0	9.62	9.44	9.26	9.08	8.96	8.84	8.60	8.54	8.54
360.0	9.86	9.62	9.44	9.26	9.08	8.90	8.78	8.66	8.48

Intensity data(cd)

C/γ(°)	90.0
0.0	8.48
45.0	8.48
90.0	8.48
135.0	8.43
180.0	8.48
225.0	8.48
270.0	8.43
315.0	8.43
360.0	8.48