SOTEN LIGHTING LTD.
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Address:Jin OU Road,JiangMen Gity,GuangDong,China

SOTEN

LumCAT: G1067
Luminaire: 1-0805-S 75*75°
Report No:
Test No:
LampCAT: LUMILEDS-5050-3090*9
Lamp flux(lm): 3600.0
Number of Lamps: 1
Length(mm): 105
Phm Type: C

Voltage(V): 230.4000
Current(A): 0.1320
Power (W): 28.9800
PF: 0.9510
Ballast type: LC 30/500/54 FLXC SR SNC2
Width(mm): 105
Height(mm): 10

Photometric Results

Lumens(lm): 3136.95
Efficiency(%): 87.82%
Lumens(lm)/Power(W): 108.25
Central intensity(cd): 2320.500
Maximum intensity(cd): 2322.562
Angle of maximum intensity: C=90.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=73.6
[C90/270]Total=74.3
Field angle(10%Imax): [C0/180]Total=90.3
[C90/270]Total=89.2
Maximum s/h(1/2): C0_180=1.06 C90_270=1.22
Maximum s/h(1/4): C0_180=0.95 C90_270=1.74
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.82%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.396%



Equipment: GMS-1800
Temperature(°C): 25.0
Date: 2022/8/26
Humidity(%): 65.0%
Operator: New
Distance(m): 7.18

SOTEN G1067

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2290.222	.000	.000	.000%	.000%
1.0	2289.674	2.191	2.191	.061%	.061%
2.0	2288.772	6.571	8.763	.184%	.245%
3.0	2286.872	10.943	19.706	.306%	.552%
4.0	2284.230	15.301	35.007	.428%	.980%
5.0	2281.235	19.640	54.648	.550%	1.530%
6.0	2277.627	23.958	78.606	.671%	2.201%
7.0	2272.989	28.246	106.851	.791%	2.991%
8.0	2267.480	32.495	139.347	.910%	3.901%
9.0	2260.491	36.697	176.043	1.027%	4.928%
10.0	2253.082	40.846	216.889	1.144%	6.072%
11.0	2243.354	44.929	261.818	1.258%	7.330%
12.0	2233.337	48.937	310.755	1.370%	8.700%
13.0	2221.354	52.866	363.621	1.480%	10.180%
14.0	2207.986	56.695	420.316	1.587%	11.767%
15.0	2193.073	60.420	480.736	1.691%	13.458%
16.0	2177.031	64.034	544.770	1.793%	15.251%
17.0	2157.737	67.504	612.274	1.890%	17.141%
18.0	2139.312	70.849	683.123	1.983%	19.124%
19.0	2117.118	74.053	757.176	2.073%	21.198%
20.0	2093.733	77.070	834.246	2.158%	23.355%
21.0	2071.153	79.974	914.220	2.239%	25.594%
22.0	2044.289	82.702	996.922	2.315%	27.909%
23.0	2017.038	85.218	1082.140	2.386%	30.295%
24.0	1988.724	87.580	1169.720	2.452%	32.747%
25.0	1958.349	89.748	1259.468	2.513%	35.259%
26.0	1926.524	91.703	1351.171	2.567%	37.827%
27.0	1892.348	93.430	1444.600	2.616%	40.442%
28.0	1857.238	94.932	1539.532	2.658%	43.100%
29.0	1820.195	96.212	1635.744	2.694%	45.793%
30.0	1775.325	97.078	1732.822	2.718%	48.511%
31.0	1730.647	97.566	1830.388	2.731%	51.243%
32.0	1666.215	97.316	1927.704	2.724%	53.967%
33.0	1616.545	96.711	2024.416	2.707%	56.675%
34.0	1554.700	95.971	2120.387	2.687%	59.361%
35.0	1470.538	93.953	2214.339	2.630%	61.992%
36.0	1409.188	91.691	2306.031	2.567%	64.559%
37.0	1326.876	89.235	2395.266	2.498%	67.057%

SOTEN G1067

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1225.063	85.180	2480.446	2.385%	69.441%
39.0	1126.225	80.256	2560.702	2.247%	71.688%
40.0	995.383	73.994	2634.696	2.072%	73.760%
41.0	897.693	67.412	2702.107	1.887%	75.647%
42.0	786.580	61.193	2763.300	1.713%	77.360%
43.0	685.440	54.528	2817.828	1.527%	78.887%
44.0	594.356	48.303	2866.131	1.352%	80.239%
45.0	501.662	42.121	2908.252	1.179%	81.418%
46.0	425.292	36.251	2944.503	1.015%	82.433%
47.0	358.602	31.177	2975.681	.873%	83.306%
48.0	288.723	26.168	3001.849	.733%	84.038%
49.0	243.830	21.870	3023.719	.612%	84.651%
50.0	198.557	18.445	3042.163	.516%	85.167%
51.0	157.400	15.060	3057.223	.422%	85.589%
52.0	129.167	12.297	3069.520	.344%	85.933%
53.0	107.889	10.312	3079.832	.289%	86.222%
54.0	93.513	8.877	3088.709	.249%	86.470%
55.0	73.687	7.463	3096.173	.209%	86.679%
56.0	64.989	6.266	3102.439	.175%	86.854%
57.0	46.958	5.118	3107.557	.143%	86.998%
58.0	39.581	4.002	3111.559	.112%	87.110%
59.0	33.980	3.439	3114.998	.096%	87.206%
60.0	29.206	2.985	3117.983	.084%	87.290%
61.0	25.112	2.592	3120.575	.073%	87.362%
62.0	21.607	2.251	3122.827	.063%	87.425%
63.0	18.763	1.963	3124.790	.055%	87.480%
64.0	16.392	1.725	3126.515	.048%	87.528%
65.0	14.096	1.509	3128.024	.042%	87.571%
66.0	12.218	1.313	3129.337	.037%	87.607%
67.0	10.572	1.146	3130.483	.032%	87.640%
68.0	8.993	.991	3131.474	.028%	87.667%
69.0	7.698	.852	3132.326	.024%	87.691%
70.0	6.539	.731	3133.057	.020%	87.712%
71.0	5.479	.621	3133.678	.017%	87.729%
72.0	4.645	.526	3134.204	.015%	87.744%
73.0	3.869	.445	3134.650	.012%	87.756%
74.0	3.186	.371	3135.021	.010%	87.767%
75.0	2.664	.309	3135.330	.009%	87.775%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.158	.256	3135.585	.007%	87.782%
77.0	1.785	.210	3135.796	.006%	87.788%
78.0	1.462	.174	3135.969	.005%	87.793%
79.0	1.198	.143	3136.113	.004%	87.797%
80.0	1.015	.119	3136.232	.003%	87.800%
81.0	.879	.102	3136.334	.003%	87.803%
82.0	.754	.089	3136.423	.002%	87.806%
83.0	.676	.078	3136.501	.002%	87.808%
84.0	.602	.070	3136.570	.002%	87.810%
85.0	.570	.064	3136.634	.002%	87.812%
86.0	.548	.061	3136.695	.002%	87.813%
87.0	.554	.060	3136.756	.002%	87.815%
88.0	.577	.062	3136.818	.002%	87.817%
89.0	.599	.064	3136.882	.002%	87.819%
90.0	.593	.065	3136.948	.002%	87.820%

Zonal flux distribution table

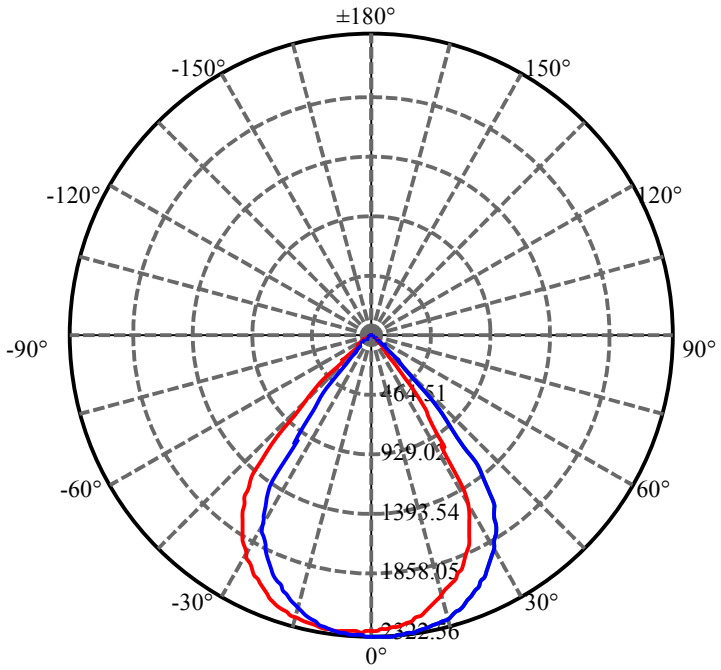
ZONAL LUMEN SUMMARY

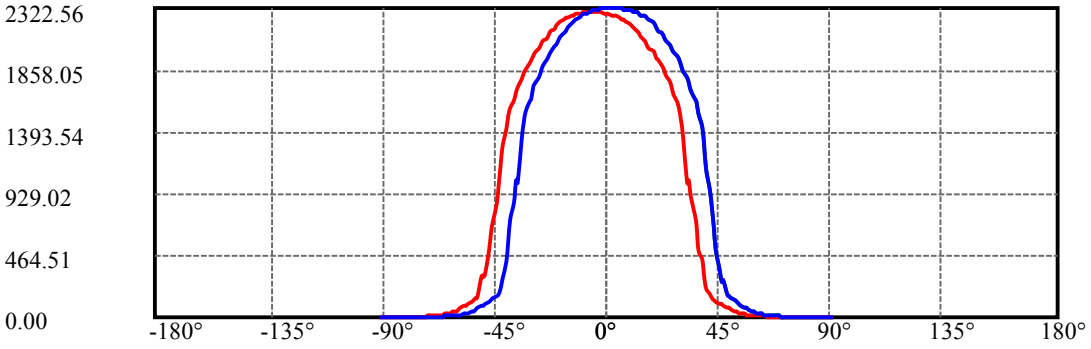
Zone	Lumens	%Lamp	%Fixt
0-30	1732.82	48.13%	55.24%
0-40	2634.70	73.19%	83.99%
0-60	3117.98	86.61%	99.40%
0-90	3136.88	87.14%	100.00%
0-120	3136.88	87.14%	100.00%
0-180	3136.95	87.14%	100.00%
60-90	21.88	0.61%	0.70%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-38.36	2509.56	69.71%	80.00%

ZONAL LUMEN SUMMARY

0-10	216.89
10-20	617.36
20-30	898.58
30-40	901.87
40-50	407.47
50-60	75.82
60-70	15.07
70-80	3.17
80-90	0.65
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]





C90(Max):

C0/C180:

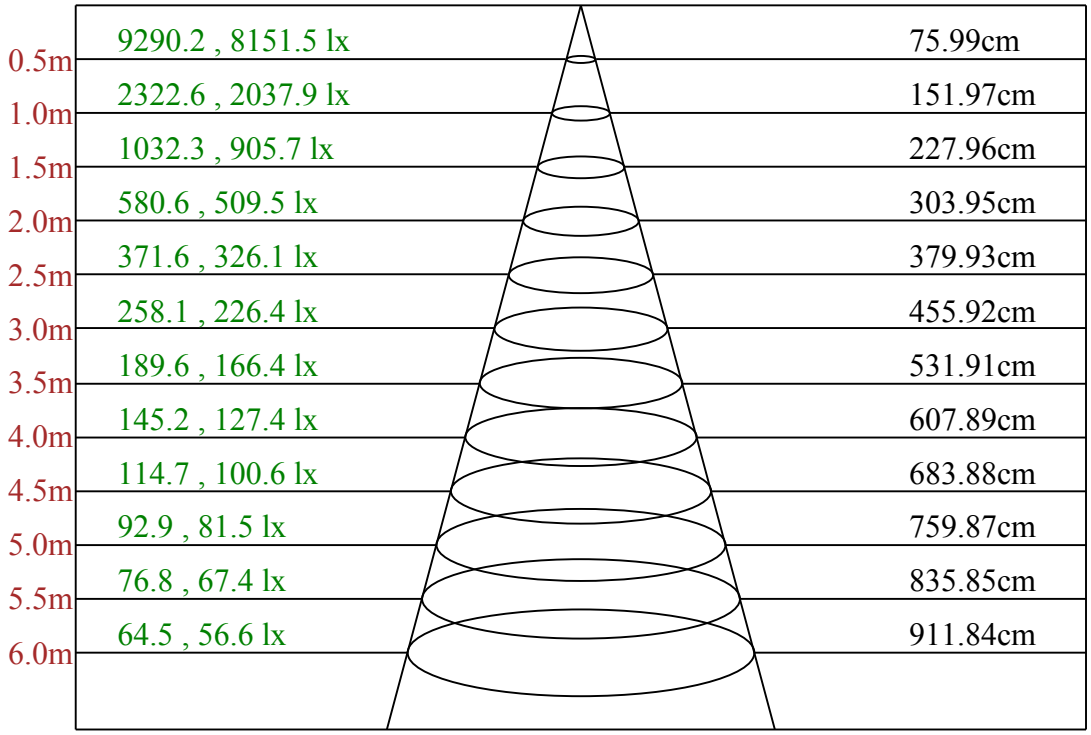
C90/C270:

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Lux distance Curve



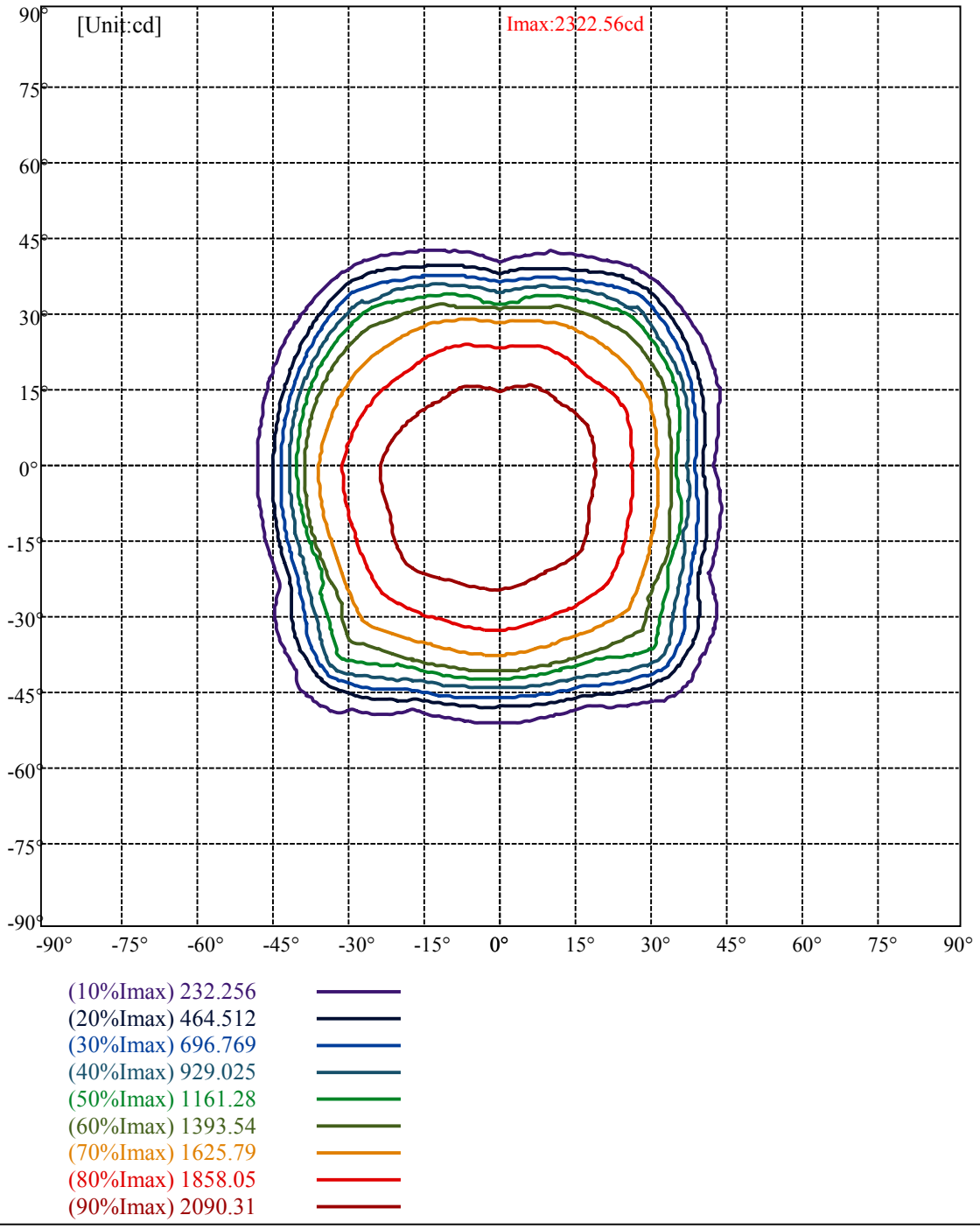
Max , Ave

Beam angle of C90plane74.28

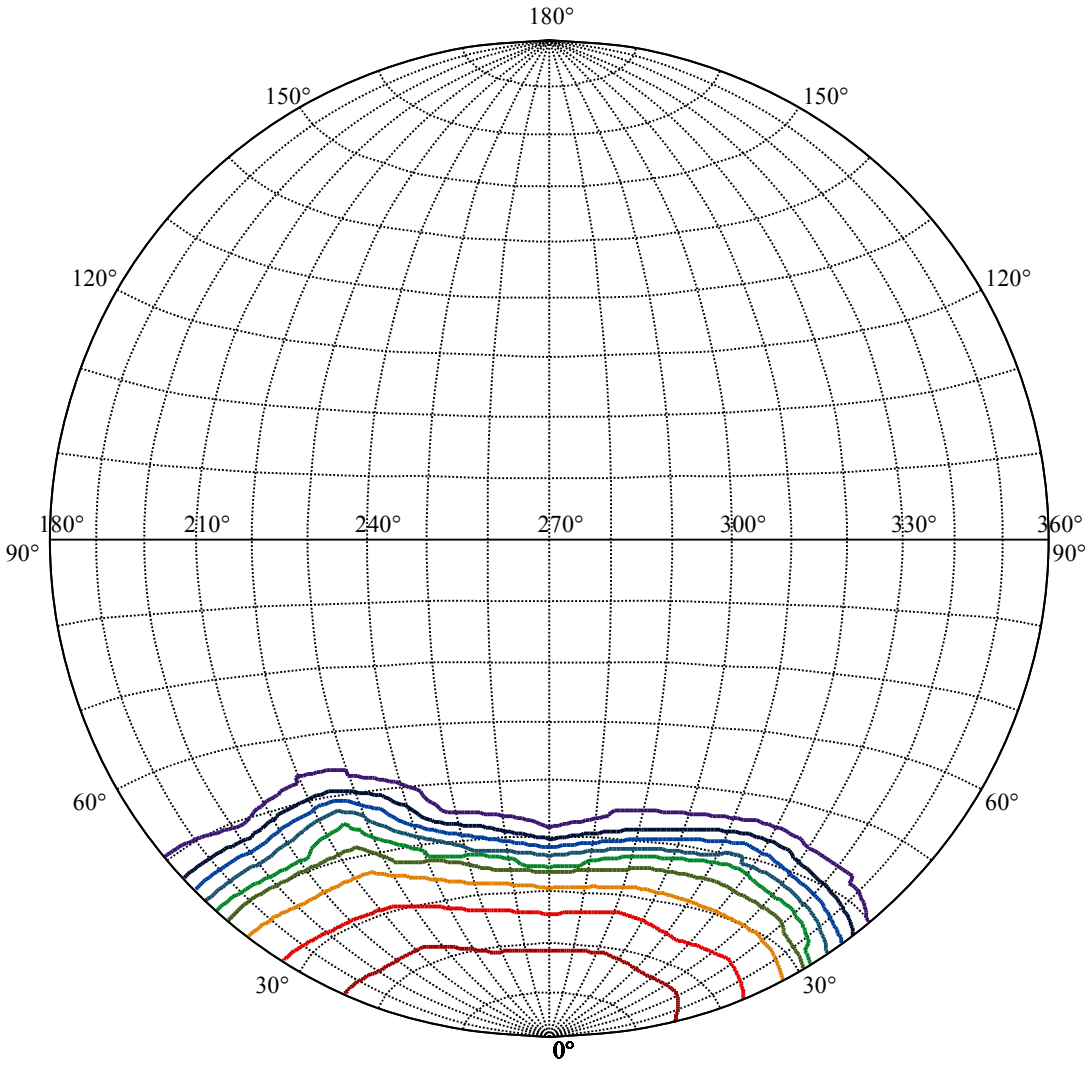
Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18


[Unit:cd]
Imax:2322.56cd
90°
75°
60°
45°
30°
15°
0°
-15°
-30°
-45°
-60°
-75°
-90°
-90° -75° -60° -45° -30° -15° 0° 15° 30° 45° 60° 75° 90°
(10%Imax) 232.256
(20%Imax) 464.512
(30%Imax) 696.769
(40%Imax) 929.025
(50%Imax) 1161.28
(60%Imax) 1393.54
(70%Imax) 1625.79
(80%Imax) 1858.05
(90%Imax) 2090.31

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2322.56

(10%Imax) 232.256
(20%Imax) 464.512
(30%Imax) 696.769
(40%Imax) 929.025
(50%Imax) 1161.28
(60%Imax) 1393.54
(70%Imax) 1625.79
(80%Imax) 1858.05
(90%Imax) 2090.31

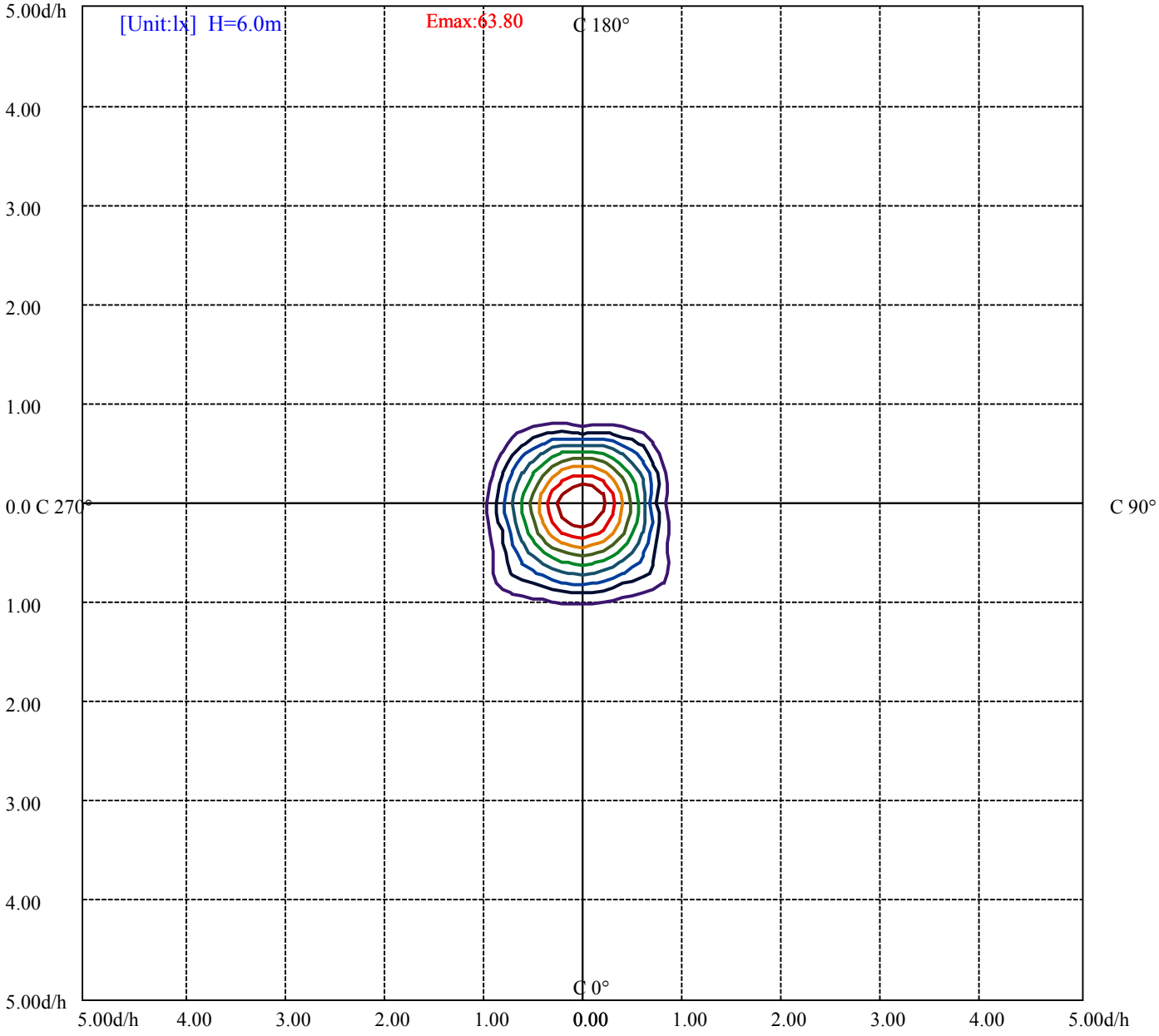
Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

SOTEN G1067

ISO illuminance diagram



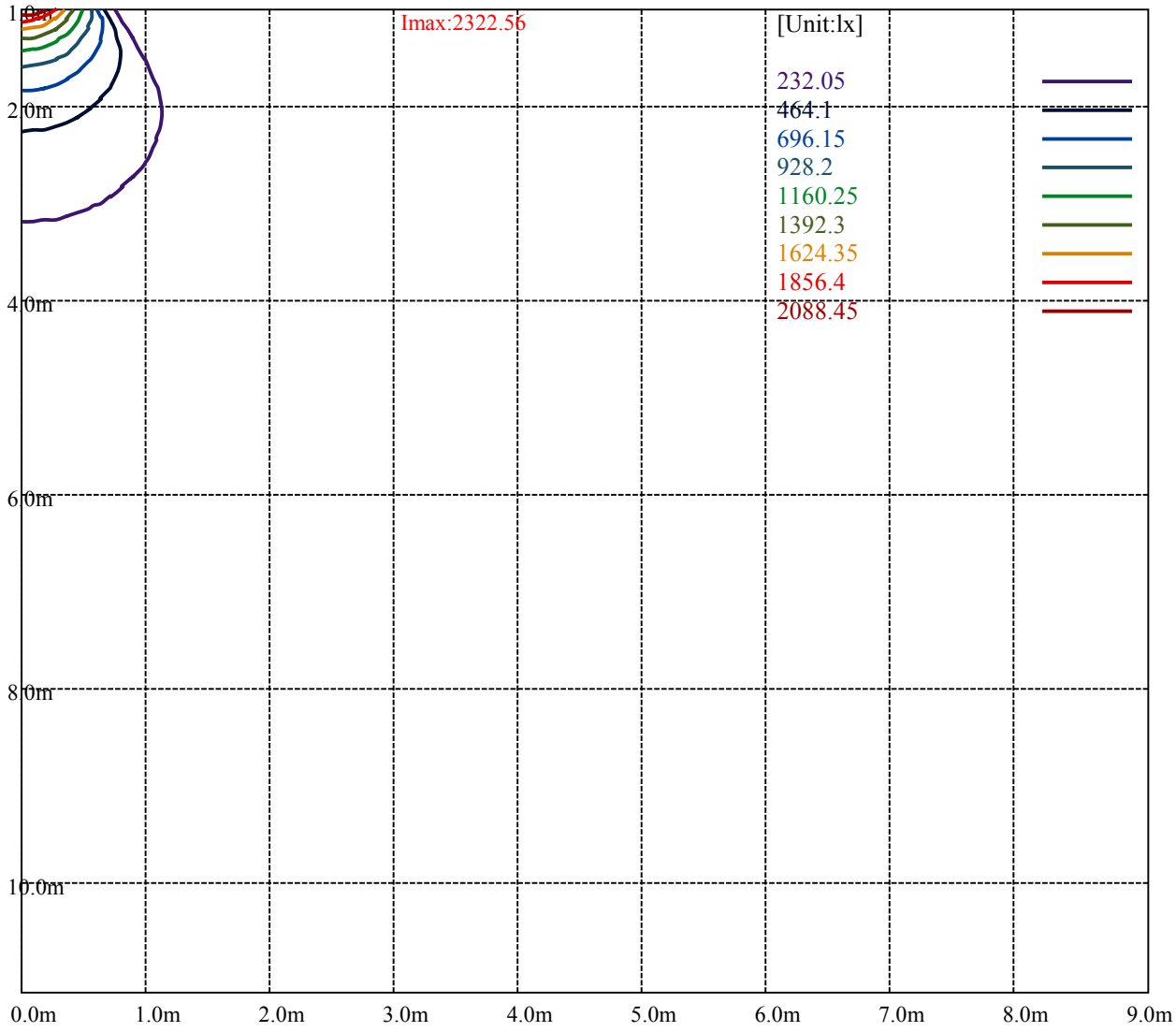
(10%Emax) 6.379972
(20%Emax) 12.75994
(30%Emax) 19.13995
(40%Emax) 25.51992
(50%Emax) 31.9
(60%Emax) 38.28
(70%Emax) 44.65972
(80%Emax) 51.03972
(90%Emax) 57.41972

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Space ISO Lux diagram



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

SOTEN G1067

Luminance Limitting Curve(no luminous side)

Luminance Table

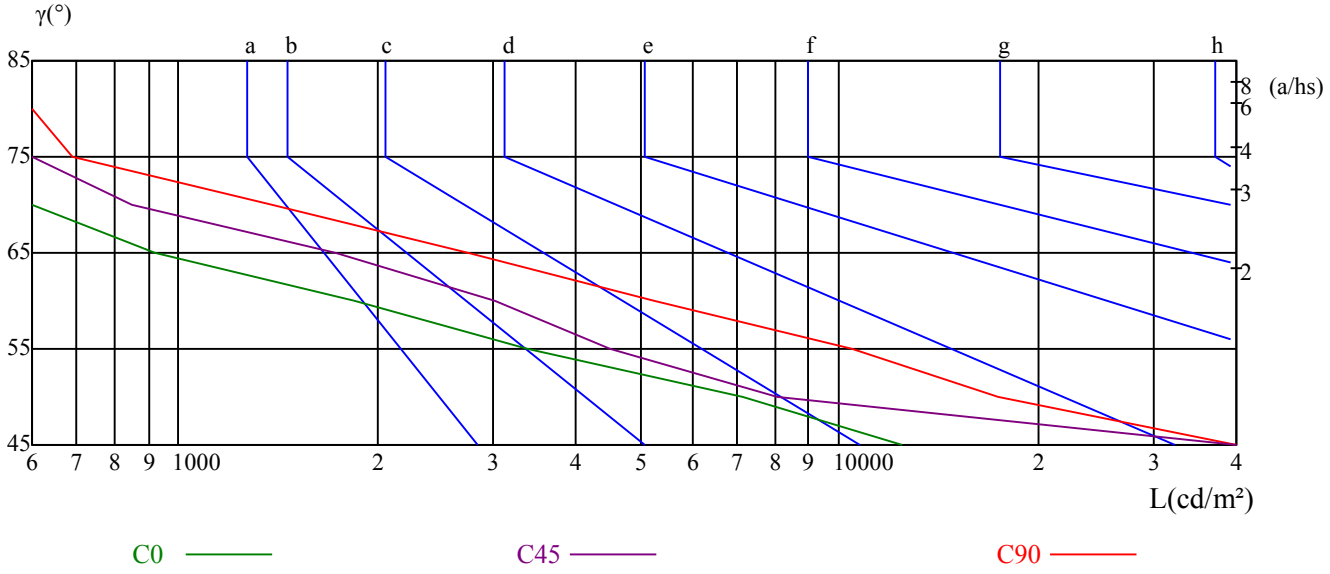
γ	45	50	55	60	65	70	75	80	85
C0	12458	7145	3372	1846	919	455	200	175	282
C45	55734	8059	4491	3010	1734	848	349	168	232
C90	42464	17399	10474	5249	2737	1387	693	332	282

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
2417	2798	3623	722	840	1237	670	590	630

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

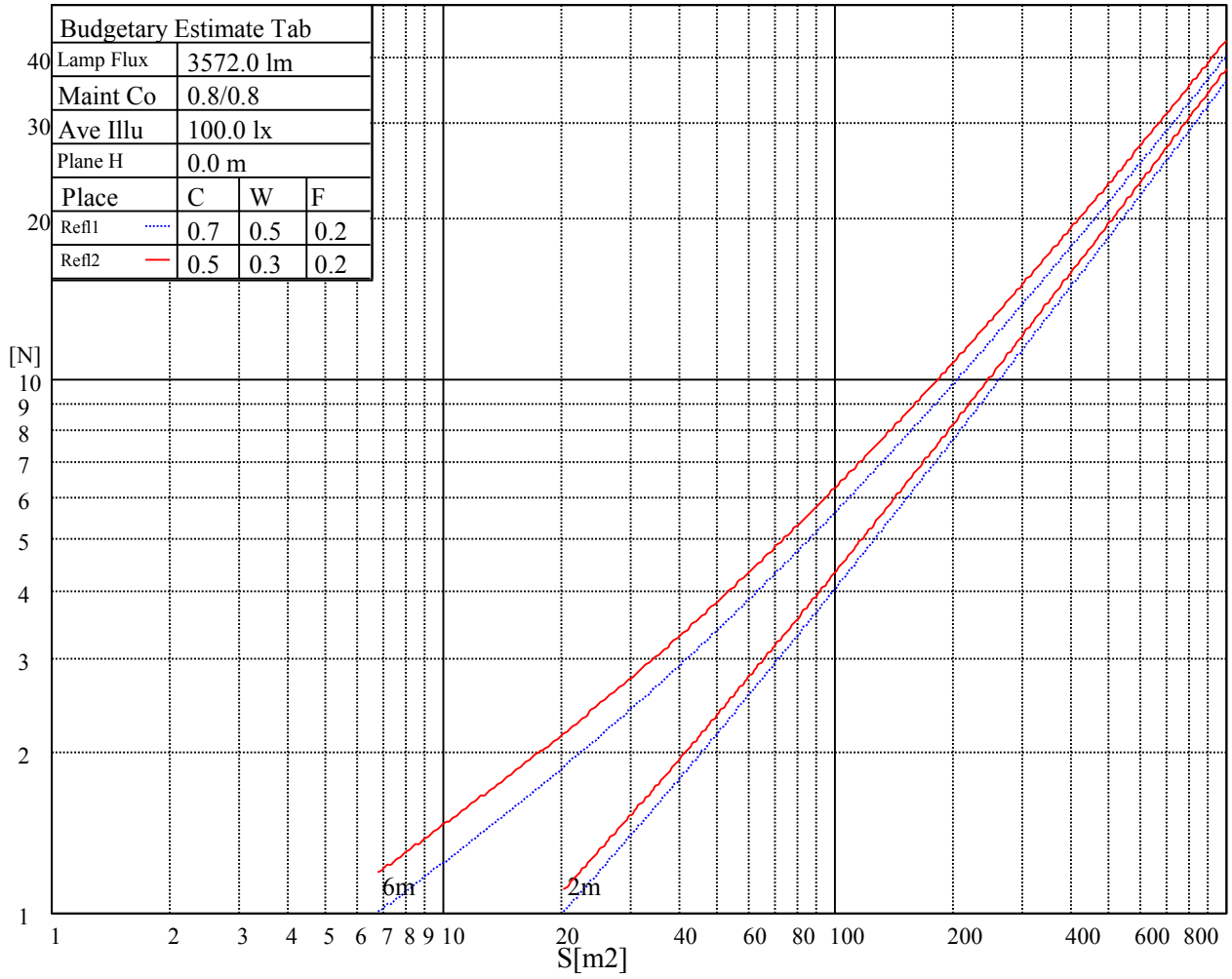
Luminance Limitting Curve



Illuminatin 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	14.5	15.5	14.8	15.7	15.9	15.8	16.7	16.0	17.0	17.2
	3H	14.4	15.2	14.7	15.5	15.7	15.6	16.4	15.9	16.7	17.0
	4H	14.2	14.9	14.5	15.2	15.5	15.4	16.1	15.8	16.4	16.7
	6H	14.2	14.9	14.5	15.2	15.5	15.4	16.1	15.8	16.4	16.7
	8H	14.2	14.9	14.5	15.2	15.5	15.4	16.1	15.8	16.4	16.7
	12H	14.0	14.5	14.4	14.9	15.3	15.2	15.7	15.6	16.1	16.5
4H	2H	14.2	14.9	14.5	15.2	15.5	15.4	16.1	15.8	16.4	16.7
	3H	14.0	14.5	14.4	14.9	15.3	15.2	15.7	15.6	16.1	16.5
	4H	14.0	14.5	14.4	14.9	15.3	15.2	15.7	15.6	16.1	16.5
	6H	14.0	14.5	14.4	14.9	15.3	15.2	15.7	15.6	16.1	16.5
	8H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
	12H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
8H	4H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
	6H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
	8H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
	12H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
12H	4H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
	6H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3
	8H	13.8	14.1	14.3	14.6	15.1	15.0	15.3	15.5	15.8	16.3

Variation with the observer position at spacings:		
S = 1.0H	5.0/-13.0	4.4/-12.8
S = 1.5H	6.7/-17.8	6.9/-17.4
S = 2.0H	8.7/-21.1	8.9/-20.1
Standard tables:	BK0	BK0
Uncorrected UGR	1.1	2.3

Budgetary Estimate Table



Equipment: GMS-1800
Temperature(°C): 25.0

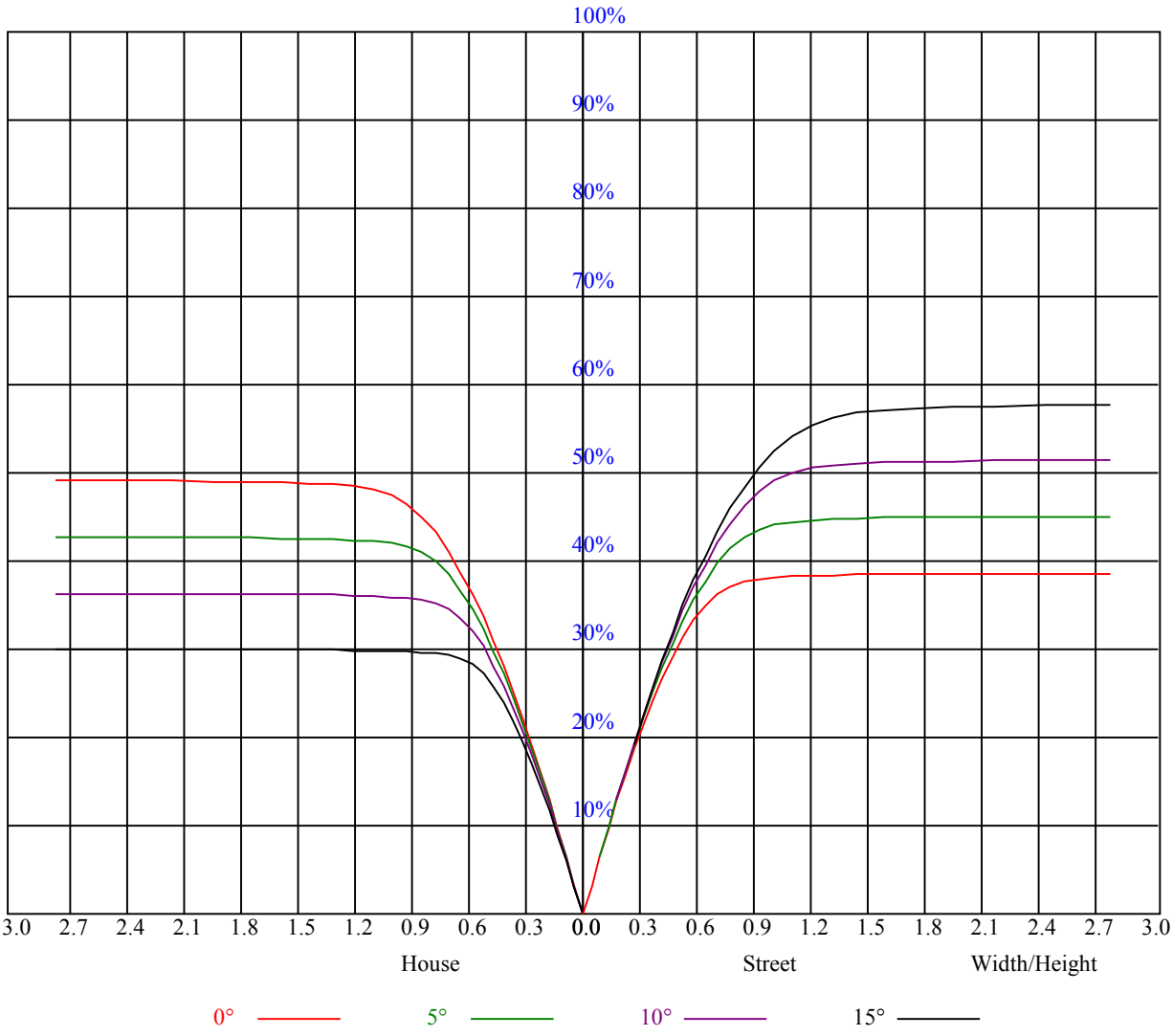
Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

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	1.05	1.05	1.05	1.02	1.02	1.02	0.98	0.98	0.98	0.93	0.93	0.93	0.90	0.90	0.90	0.88
1	0.97	0.94	0.92	0.95	0.92	0.91	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.81
2	0.89	0.85	0.82	0.87	0.84	0.81	0.84	0.81	0.79	0.82	0.79	0.77	0.79	0.77	0.76	0.74
3	0.82	0.77	0.73	0.81	0.76	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.68
4	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.63	0.62
5	0.70	0.64	0.60	0.69	0.64	0.60	0.67	0.63	0.59	0.66	0.62	0.58	0.64	0.61	0.58	0.57
6	0.65	0.59	0.55	0.64	0.58	0.54	0.63	0.58	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.52
7	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.49	0.56	0.52	0.49	0.48
8	0.56	0.50	0.46	0.55	0.50	0.46	0.54	0.49	0.46	0.53	0.49	0.45	0.52	0.48	0.45	0.44
9	0.52	0.46	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.50	0.45	0.42	0.49	0.45	0.42	0.41
10	0.49	0.43	0.39	0.48	0.43	0.39	0.48	0.43	0.39	0.47	0.42	0.39	0.46	0.42	0.39	0.38

Coefficient Utilization Curve



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

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	2281.33	2277.21	2269.48	2267.42	2260.72	2251.44	2242.68	2230.82	2220.00
22.5	2279.79	2276.69	2274.63	2267.93	2261.75	2257.11	2250.92	2244.22	2233.40
45.0	2271.02	2267.93	2264.32	2259.69	2254.53	2249.38	2243.19	2237.01	2229.28
67.5	2267.42	2268.45	2265.87	2264.32	2261.23	2258.14	2252.99	2248.86	2246.29
90.0	2320.50	2322.05	2322.56	2322.05	2321.02	2318.95	2317.92	2315.35	2311.74
112.5	2310.71	2313.29	2314.32	2313.29	2312.77	2310.71	2310.71	2309.16	2306.07
135.0	2296.79	2299.37	2304.01	2305.04	2304.52	2306.59	2305.04	2304.01	2302.98
157.5	2294.22	2295.76	2297.82	2299.89	2299.89	2300.92	2300.40	2296.79	2294.73
180.0	2281.33	2283.91	2287.00	2288.03	2288.55	2291.64	2290.09	2291.12	2288.55
202.5	2279.79	2280.30	2281.33	2282.36	2281.85	2279.27	2280.30	2279.27	2276.18
225.0	2271.02	2272.57	2274.63	2275.15	2274.12	2273.09	2273.60	2271.54	2269.48
247.5	2267.42	2268.96	2266.90	2265.87	2263.29	2262.26	2258.14	2252.99	2248.35
270.0	2320.50	2319.47	2316.38	2313.29	2310.71	2306.07	2299.89	2294.22	2285.97
292.5	2310.71	2307.62	2307.62	2301.95	2298.85	2295.76	2290.09	2283.91	2276.18
315.0	2296.79	2292.15	2288.03	2282.36	2279.27	2271.02	2264.32	2257.11	2246.80
337.5	2294.22	2289.06	2285.45	2281.33	2274.63	2267.42	2261.75	2251.44	2243.71
360.0	2281.33	2277.21	2269.48	2267.42	2260.72	2251.44	2242.68	2230.82	2220.00

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2205.06	2189.08	2172.07	2151.97	2130.33	2105.59	2078.79	2051.47	2026.73
22.5	2224.64	2212.79	2196.81	2182.38	2165.89	2145.79	2123.63	2109.19	2087.03
45.0	2218.46	2209.18	2197.84	2182.89	2168.46	2153.52	2133.93	2123.11	2093.22
67.5	2240.62	2233.40	2225.16	2220.00	2209.18	2198.36	2185.47	2172.07	2154.55
90.0	2307.62	2301.95	2296.28	2288.55	2279.79	2270.51	2264.32	2251.44	2230.82
112.5	2301.95	2296.79	2291.12	2284.94	2275.66	2265.87	2256.59	2242.68	2227.22
135.0	2300.92	2298.34	2295.25	2290.09	2284.42	2276.69	2274.12	2265.36	2256.59
157.5	2292.67	2289.06	2282.88	2278.24	2272.05	2265.87	2256.08	2246.80	2232.89
180.0	2287.00	2283.39	2279.79	2275.66	2269.48	2260.72	2254.02	2243.71	2231.86
202.5	2270.51	2266.39	2260.20	2254.02	2246.29	2238.04	2227.73	2215.36	2202.48
225.0	2264.84	2261.23	2255.56	2247.32	2240.62	2232.89	2221.55	2210.21	2198.36
247.5	2242.16	2236.49	2228.25	2217.94	2206.09	2192.69	2176.71	2158.67	2138.06
270.0	2276.69	2265.87	2252.47	2238.56	2221.55	2201.96	2180.32	2156.09	2129.29
292.5	2267.42	2258.14	2247.32	2233.40	2218.97	2202.99	2183.93	2162.28	2139.60
315.0	2235.98	2223.61	2209.69	2193.72	2176.19	2158.16	2137.03	2112.29	2088.06
337.5	2231.34	2223.61	2202.99	2193.72	2176.71	2158.16	2134.96	2111.77	2087.03
360.0	2205.06	2189.08	2172.07	2151.97	2130.33	2105.59	2078.79	2051.47	2026.73

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2010.24	1985.50	1945.82	1926.23	1892.73	1856.14	1814.91	1771.62	1724.21
22.5	2060.23	2033.95	2008.70	1982.41	1955.10	1925.72	1896.34	1861.81	1822.64
45.0	2079.82	2042.71	2015.91	1997.87	1965.40	1936.03	1903.56	1872.64	1838.62
67.5	2135.48	2115.38	2092.70	2066.42	2040.65	2010.24	1981.38	1954.58	1925.72
90.0	2220.00	2201.45	2178.77	2155.58	2129.29	2101.98	2077.24	2053.02	2026.22
112.5	2213.30	2192.69	2174.65	2151.97	2127.23	2100.95	2075.70	2049.93	2026.22
135.0	2243.71	2233.40	2219.49	2204.02	2187.02	2167.43	2148.36	2126.20	2101.46
157.5	2220.52	2205.06	2187.02	2169.49	2147.33	2123.11	2097.34	2069.51	2045.29
180.0	2219.49	2205.57	2187.53	2168.46	2147.33	2123.11	2096.31	2075.70	2050.44
202.5	2185.99	2170.01	2150.94	2138.57	2107.13	2081.36	2064.87	2037.56	1998.39
225.0	2184.44	2168.98	2151.46	2131.36	2109.71	2087.03	2061.78	2040.13	2011.79
247.5	2117.44	2091.16	2067.45	2043.23	2018.49	1993.75	1966.95	1939.12	1906.65
270.0	2105.07	2079.82	2054.05	2027.76	1997.87	1965.40	1930.36	1891.19	1849.44
292.5	2113.83	2087.55	2059.72	2031.89	2002.51	1986.02	1957.16	1910.77	1889.64
315.0	2061.26	2030.34	2000.45	1965.92	1931.39	1895.31	1862.33	1829.34	1798.42
337.5	2058.17	2030.34	2005.09	1977.26	1949.43	1919.02	1885.00	1850.47	1809.24
360.0	2010.24	1985.50	1945.82	1926.23	1892.73	1856.14	1814.91	1771.62	1724.21

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1675.76	1621.13	1563.92	1477.34	1353.13	1027.77	1027.77	910.78	774.26
22.5	1783.47	1737.61	1689.68	1641.74	1588.66	1533.51	1459.30	1351.59	1218.62
45.0	1804.09	1768.53	1733.48	1696.38	1656.18	1613.40	1569.59	1521.66	1470.64
67.5	1895.31	1863.87	1827.80	1787.60	1754.10	1698.95	1660.30	1607.21	1544.34
90.0	1997.36	1964.89	1929.84	1891.70	1848.93	1803.06	1753.58	1701.01	1646.90
112.5	1998.39	1968.50	1936.03	1899.95	1859.75	1816.46	1770.07	1720.08	1665.97
135.0	2073.12	2044.77	2011.27	1979.32	1944.27	1911.29	1876.76	1844.29	1811.30
157.5	2017.46	1990.66	1960.77	1931.39	1896.86	1866.97	1818.00	1783.47	1737.61
180.0	2017.97	1997.87	1968.50	1937.57	1905.10	1867.48	1825.74	1782.96	1735.54
202.5	1981.90	1952.00	1923.66	1890.16	1855.11	1814.91	1773.17	1728.84	1680.40
225.0	1974.68	1950.97	1919.53	1886.04	1853.05	1817.49	1783.99	1746.88	1710.29
247.5	1871.09	1834.50	1803.06	1749.46	1711.32	1662.36	1599.48	1556.19	1495.89
270.0	1804.09	1755.13	1724.21	1647.41	1613.91	1546.91	1458.27	1339.73	1018.19
292.5	1851.50	1809.24	1764.41	1717.51	1664.94	1610.31	1555.68	1496.41	1427.35
315.0	1765.95	1736.57	1697.92	1655.66	1611.85	1564.95	1513.93	1459.82	1402.61
337.5	1765.44	1719.57	1669.06	1615.98	1573.20	1503.62	1419.10	1324.27	1188.73
360.0	1675.76	1621.13	1563.92	1477.34	1353.13	1027.77	1027.77	910.78	774.26

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	694.06	505.23	429.16	305.47	212.44	166.21	148.38	132.71	118.90
22.5	1087.71	1009.37	871.77	742.92	611.50	484.72	366.69	272.89	272.89
45.0	1417.55	1364.99	1308.81	1250.57	959.48	959.48	876.46	747.04	619.38
67.5	1498.98	1436.62	1358.29	1249.54	1108.33	944.95	793.43	657.88	514.09
90.0	1609.79	1532.48	1427.35	1283.56	1112.45	952.68	816.62	671.28	509.45
112.5	1611.85	1550.01	1466.00	1406.22	997.36	966.08	966.08	825.64	696.28
135.0	1776.77	1747.91	1699.47	1667.00	1621.13	1573.71	1524.75	1467.03	1409.31
157.5	1688.64	1635.56	1581.45	1525.27	1464.97	1376.32	1252.12	985.30	985.30
180.0	1686.58	1632.98	1578.35	1515.48	1417.04	1279.43	1140.28	1000.10	854.76
202.5	1627.83	1574.23	1518.57	1461.88	1388.69	1272.73	984.12	984.12	901.25
225.0	1669.58	1629.38	1585.57	1537.12	1486.10	1433.53	1376.84	1319.12	1285.10
247.5	1420.13	1323.76	977.21	977.21	887.59	753.59	626.08	478.27	334.69
270.0	1018.19	865.63	730.71	575.94	412.30	289.54	216.82	173.43	154.15
292.5	1339.73	1219.65	1067.61	907.33	766.11	635.72	488.84	341.95	292.48
315.0	1344.37	1284.07	1217.59	957.78	957.78	870.07	723.54	626.03	417.66
337.5	1055.24	918.15	783.12	656.34	522.85	404.32	284.23	284.23	144.00
360.0	694.06	505.23	429.16	305.47	212.44	166.21	148.38	132.71	118.90

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	106.37	95.35	85.24	75.97	64.94	56.38	46.08	39.74	33.19
22.5	136.32	121.94	109.26	97.66	86.94	77.26	68.96	64.16	51.80
45.0	493.01	371.43	258.82	173.22	107.77	66.28	51.90	46.33	41.59
67.5	373.39	260.01	260.01	194.76	126.53	117.46	103.59	91.27	80.61
90.0	362.57	280.62	280.62	170.33	152.96	137.30	128.38	109.57	97.72
112.5	549.19	394.27	280.99	209.19	165.49	144.77	130.08	116.68	104.67
135.0	1349.01	1287.16	1218.62	1135.13	1030.50	881.04	702.72	540.89	409.47
157.5	843.47	762.56	578.67	453.17	378.08	219.66	177.08	138.07	123.33
180.0	719.73	637.27	502.24	324.95	298.66	298.66	156.42	140.29	125.50
202.5	766.37	634.85	503.78	383.60	260.27	174.56	136.37	121.73	108.90
225.0	1191.82	1144.40	1051.63	872.28	774.36	601.71	460.49	344.53	277.02
247.5	235.53	195.69	143.43	127.87	119.72	107.10	96.43	86.69	77.87
270.0	138.17	126.68	111.17	101.58	91.02	79.57	67.67	56.85	47.21
292.5	292.48	140.75	124.46	111.37	99.42	88.49	78.70	69.78	59.22
315.0	341.95	237.85	126.63	92.82	58.86	49.89	44.99	40.82	37.00
337.5	127.20	113.85	102.05	95.65	85.76	76.79	68.55	59.27	51.13
360.0	106.37	95.35	85.24	75.97	64.94	56.38	46.08	39.74	33.19

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.20	24.22	20.92	19.07	16.29	14.12	11.85	10.15	8.66
22.5	47.42	38.86	33.55	28.09	24.43	20.82	18.19	15.51	13.45
45.0	37.47	33.86	30.56	28.81	25.87	22.01	20.46	17.99	15.82
67.5	71.12	62.36	53.60	45.87	37.78	32.26	27.11	23.35	19.89
90.0	91.17	75.25	68.18	57.93	47.31	40.41	33.71	29.02	24.48
112.5	93.59	83.90	76.79	67.05	57.77	47.93	40.30	34.02	28.71
135.0	292.48	292.48	270.83	80.76	58.24	50.40	45.35	41.08	37.42
157.5	110.50	98.75	88.59	79.21	70.81	59.17	50.76	41.08	35.20
180.0	112.40	100.96	90.45	80.45	66.90	57.83	46.69	40.25	33.29
202.5	97.05	86.94	77.51	68.65	57.52	49.32	43.03	34.32	28.55
225.0	277.02	80.97	56.54	49.37	44.22	39.99	36.33	33.60	29.79
247.5	68.96	58.70	49.94	40.82	34.84	29.17	25.10	21.39	18.66
270.0	40.20	33.81	29.17	24.79	21.54	18.30	15.77	13.45	11.60
292.5	50.66	41.39	35.36	29.63	25.56	23.35	19.07	17.37	15.00
315.0	33.81	30.67	27.68	24.79	22.01	19.38	17.01	14.89	12.94
337.5	42.16	35.87	30.15	26.03	22.21	19.22	16.54	14.33	12.27
360.0	30.20	24.22	20.92	19.07	16.29	14.12	11.85	10.15	8.66

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.32	6.13	5.15	4.38	3.66	3.04	2.53	2.16	1.70
22.5	11.60	10.00	8.56	7.32	6.24	5.26	4.59	3.61	2.99
45.0	13.76	12.01	10.41	8.86	7.52	6.39	5.31	4.38	3.50
67.5	17.32	14.84	12.78	10.87	9.38	7.99	7.01	5.82	4.64
90.0	21.18	17.94	15.36	12.94	11.03	9.28	7.78	6.60	5.46
112.5	24.58	21.13	18.19	15.51	13.30	11.29	9.64	8.04	6.80
135.0	33.96	30.77	27.78	24.94	22.06	19.38	16.96	14.74	12.73
157.5	29.38	25.41	21.59	18.81	16.54	13.92	11.91	10.51	8.92
180.0	28.76	25.10	20.92	18.40	15.67	13.45	11.39	9.69	8.09
202.5	26.13	22.26	19.28	16.49	14.28	12.21	10.41	8.86	7.58
225.0	26.75	24.43	21.18	19.12	16.70	14.43	12.52	10.77	9.23
247.5	15.98	13.86	11.80	10.15	8.66	7.68	6.29	5.36	4.69
270.0	9.79	8.40	7.16	6.03	5.51	4.28	3.87	3.25	2.53
292.5	12.11	11.08	9.53	8.19	6.96	5.82	5.00	4.12	3.45
315.0	11.08	9.84	8.14	6.91	6.03	4.84	4.17	3.40	2.78
337.5	10.51	9.07	7.68	6.55	5.62	4.64	3.81	3.30	2.58
360.0	7.32	6.13	5.15	4.38	3.66	3.04	2.53	2.16	1.70

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.39	1.19	0.93	0.77	0.67	0.57	0.52	0.46	0.52
22.5	2.47	2.01	1.60	1.29	1.08	0.88	0.67	0.57	0.57
45.0	2.89	2.37	1.86	1.49	1.13	0.98	0.82	0.62	0.57
67.5	3.97	3.14	2.47	1.96	1.60	1.29	1.03	0.88	0.77
90.0	4.90	3.66	3.04	2.68	2.01	1.80	1.44	1.19	0.98
112.5	5.67	4.74	3.76	3.35	2.53	1.96	1.75	1.24	1.03
135.0	10.93	9.33	7.94	6.91	5.57	4.54	3.87	3.09	2.37
157.5	7.58	6.44	5.36	4.43	3.66	3.09	2.42	1.96	1.55
180.0	6.96	5.77	4.84	4.02	3.35	2.78	2.27	1.91	1.60
202.5	6.39	5.36	4.54	3.71	3.09	2.42	2.06	1.70	1.29
225.0	7.83	6.70	5.62	4.64	3.76	3.14	2.53	2.01	1.65
247.5	3.76	3.35	2.68	2.22	1.80	1.55	1.19	0.98	0.82
270.0	2.32	1.91	1.65	1.44	1.19	0.98	0.88	0.77	0.72
292.5	2.83	2.37	1.91	1.49	1.29	1.08	0.82	0.72	0.67
315.0	2.22	1.80	1.39	1.08	0.88	0.77	0.62	0.57	0.57
337.5	2.22	1.75	1.39	1.13	0.93	0.72	0.52	0.52	0.57
360.0	1.39	1.19	0.93	0.77	0.67	0.57	0.52	0.46	0.52

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.52	0.46	0.46	0.46	0.57	0.52	0.57	0.62	0.62
22.5	0.52	0.46	0.52	0.52	0.46	0.46	0.46	0.52	0.57
45.0	0.62	0.52	0.57	0.52	0.57	0.57	0.62	0.62	0.67
67.5	0.62	0.57	0.62	0.57	0.57	0.52	0.57	0.57	0.62
90.0	0.82	0.72	0.57	0.52	0.57	0.41	0.36	0.46	0.41
112.5	0.82	0.62	0.62	0.52	0.41	0.36	0.46	0.41	0.46
135.0	1.91	1.39	1.08	0.77	0.62	0.52	0.46	0.41	0.46
157.5	1.29	1.03	0.77	0.62	0.41	0.46	0.41	0.41	0.41
180.0	1.29	1.08	0.93	0.72	0.57	0.52	0.52	0.52	0.52
202.5	1.03	0.93	0.72	0.57	0.62	0.57	0.57	0.57	0.52
225.0	1.39	1.03	0.82	0.72	0.62	0.62	0.62	0.62	0.62
247.5	0.72	0.67	0.62	0.62	0.62	0.62	0.67	0.67	0.67
270.0	0.72	0.77	0.72	0.72	0.72	0.67	0.57	0.67	0.77
292.5	0.72	0.67	0.67	0.62	0.67	0.67	0.72	0.72	0.77
315.0	0.62	0.62	0.62	0.62	0.62	0.72	0.77	0.77	0.82
337.5	0.46	0.52	0.52	0.57	0.52	0.57	0.52	0.67	0.67
360.0	0.52	0.46	0.46	0.46	0.57	0.52	0.57	0.62	0.62

C/γ(°)	90.0
0.0	0.57
22.5	0.57
45.0	0.62
67.5	0.57
90.0	0.41
112.5	0.46
135.0	0.41
157.5	0.36
180.0	0.46
202.5	0.62
225.0	0.67
247.5	0.67
270.0	0.77
292.5	0.77
315.0	0.88
337.5	0.67
360.0	0.57