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Nata

LumCAT: 2-2322-M
Luminaire: 92.70.131.00
Report No: 210727-B011
Test No: 210727-C011
LampCAT: TRIDONIC SLE G7 13MM
Lamp flux(lm): 2456.4
Number of Lamps: 1
Length(mm): 570
Phm Type: C

Voltage(V): 35.2400
Current(A): 0.4800
Power (W): 16.9150
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 2357.98
Efficiency(%): 95.99%
Lumens(lm)/Power(W): 139.40
Central intensity(cd): 2495.813
Maximum intensity(cd): 3414.938
Angle of maximum intensity: C=180.0 γ=19.0
Beam Angle(50%Imax): [C0/180]Total=67.1
[C90/270]Total=39.4
Field angle(10%Imax): [C0/180]Total=79.0
[C90/270]Total=64.9
Maximum s/h(1/2): C0_180=1.18 C90_270=0.57
Maximum s/h(1/4): C0_180=0.96 C90_270=0.65
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.99%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.218%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2469.305	0.000	0	.000%	.000%
1.0	2472.152	2.364	2.364	.096%	.100%
2.0	2477.320	7.104	9.468	.289%	.402%
3.0	2485.055	11.868	21.337	.483%	.905%
4.0	2492.191	16.660	37.997	.678%	1.611%
5.0	2498.063	21.468	59.465	.874%	2.522%
6.0	2498.344	26.257	85.722	1.069%	3.635%
7.0	2501.438	31.034	116.756	1.263%	4.952%
8.0	2506.324	35.840	152.596	1.459%	6.471%
9.0	2508.926	40.646	193.241	1.655%	8.195%
10.0	2503.125	45.357	238.599	1.846%	10.119%
11.0	2487.164	49.863	288.462	2.030%	12.233%
12.0	2465.895	54.144	342.606	2.204%	14.530%
13.0	2433.129	58.139	400.745	2.367%	16.995%
14.0	2399.660	61.859	462.604	2.518%	19.619%
15.0	2365.559	65.419	528.023	2.663%	22.393%
16.0	2329.488	68.796	596.819	2.801%	25.311%
17.0	2285.719	71.871	668.69	2.926%	28.359%
18.0	2244.797	74.698	743.388	3.041%	31.526%
19.0	2195.895	77.259	820.647	3.145%	34.803%
20.0	2133.984	79.249	899.896	3.226%	38.164%
21.0	2074.975	80.821	980.717	3.290%	41.591%
22.0	2012.706	82.144	1062.86	3.344%	45.075%
23.0	1944.179	83.026	1145.887	3.380%	48.596%
24.0	1875.702	83.516	1229.403	3.400%	52.138%
25.0	1801.118	83.603	1313.006	3.403%	55.683%
26.0	1728.316	83.313	1396.318	3.392%	59.217%
27.0	1640.261	82.413	1478.731	3.355%	62.712%
28.0	1553.193	80.851	1559.583	3.291%	66.141%
29.0	1463.474	78.925	1638.507	3.213%	69.488%
30.0	1369.505	76.490	1714.997	3.114%	72.732%
31.0	1263.537	73.274	1788.271	2.983%	75.839%
32.0	1149.950	69.144	1857.415	2.815%	78.771%
33.0	1042.896	64.602	1922.017	2.630%	81.511%
34.0	936.721	59.909	1981.926	2.439%	84.052%
35.0	825.195	54.719	2036.644	2.228%	86.372%
36.0	710.504	48.897	2085.541	1.991%	88.446%
37.0	620.181	43.399	2128.941	1.767%	90.287%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	517.823	37.985	2166.926	1.546%	91.897%
39.0	413.427	31.786	2198.712	1.294%	93.246%
40.0	320.365	25.592	2224.304	1.042%	94.331%
41.0	243.570	20.081	2244.385	.818%	95.182%
42.0	170.989	15.062	2259.447	.613%	95.821%
43.0	122.288	10.864	2270.311	.442%	96.282%
44.0	78.588	7.582	2277.892	.309%	96.603%
45.0	58.929	5.285	2283.177	.215%	96.828%
46.0	47.777	4.173	2287.35	.170%	97.005%
47.0	41.108	3.535	2290.886	.144%	97.155%
48.0	35.241	3.086	2293.972	.126%	97.285%
49.0	30.343	2.693	2296.665	.110%	97.400%
50.0	26.121	2.354	2299.019	.096%	97.499%
51.0	23.502	2.099	2301.119	.085%	97.589%
52.0	21.505	1.931	2303.05	.079%	97.670%
53.0	20.243	1.816	2304.866	.074%	97.747%
54.0	19.129	1.735	2306.602	.071%	97.821%
55.0	18.246	1.668	2308.27	.068%	97.892%
56.0	17.476	1.614	2309.884	.066%	97.960%
57.0	16.801	1.567	2311.451	.064%	98.027%
58.0	16.249	1.528	2312.98	.062%	98.092%
59.0	15.813	1.499	2314.479	.061%	98.155%
60.0	15.465	1.478	2315.956	.060%	98.218%
61.0	15.293	1.468	2317.424	.060%	98.280%
62.0	15.043	1.462	2318.886	.060%	98.342%
63.0	14.945	1.458	2320.345	.059%	98.404%
64.0	15.040	1.471	2321.816	.060%	98.466%
65.0	15.166	1.495	2323.311	.061%	98.530%
66.0	15.117	1.511	2324.822	.062%	98.594%
67.0	14.977	1.513	2326.335	.062%	98.658%
68.0	14.846	1.511	2327.846	.062%	98.722%
69.0	14.773	1.511	2329.357	.062%	98.786%
70.0	14.643	1.511	2330.867	.062%	98.850%
71.0	14.611	1.512	2332.379	.062%	98.914%
72.0	14.523	1.515	2333.894	.062%	98.978%
73.0	14.407	1.513	2335.407	.062%	99.043%
74.0	14.291	1.509	2336.916	.061%	99.107%
75.0	14.179	1.504	2338.42	.061%	99.170%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.999	1.496	2339.916	.061%	99.234%
77.0	13.809	1.483	2341.398	.060%	99.297%
78.0	13.500	1.462	2342.86	.060%	99.359%
79.0	13.222	1.436	2344.296	.058%	99.420%
80.0	12.878	1.407	2345.703	.057%	99.479%
81.0	12.502	1.372	2347.076	.056%	99.537%
82.0	12.171	1.338	2348.414	.054%	99.594%
83.0	11.640	1.294	2349.708	.053%	99.649%
84.0	11.412	1.256	2350.964	.051%	99.702%
85.0	11.190	1.234	2352.197	.050%	99.755%
86.0	10.888	1.207	2353.404	.049%	99.806%
87.0	10.582	1.175	2354.579	.048%	99.856%
88.0	10.403	1.150	2355.729	.047%	99.904%
89.0	10.255	1.132	2356.861	.046%	99.952%
90.0	10.181	1.120	2357.982	.046%	100.000%

Zonal flux distribution table

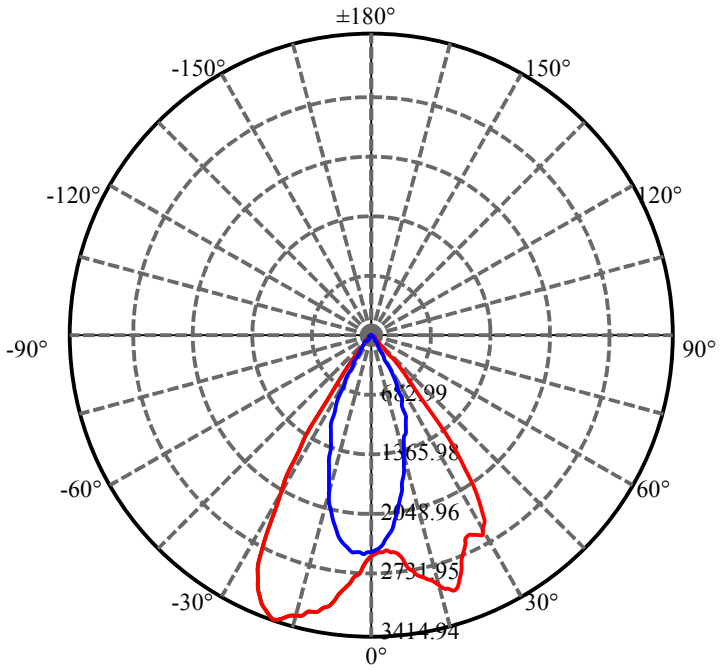
ZONAL LUMEN SUMMARY

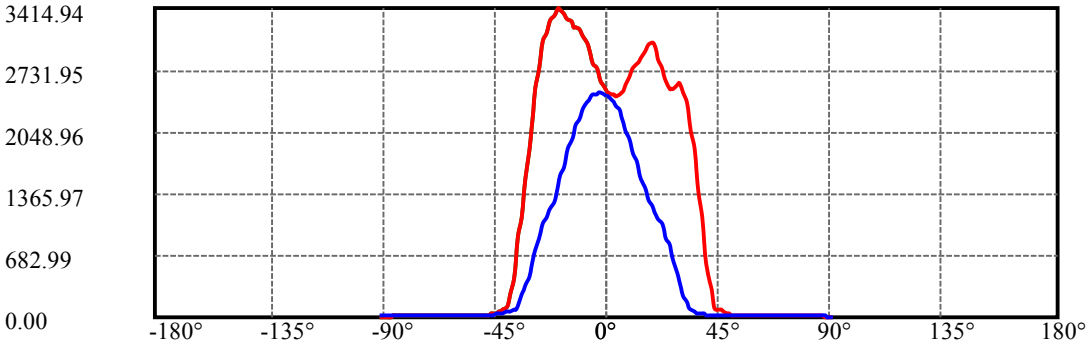
Zone	Lumens	%Lamp	%Fixt
0-30	1715.00	69.82%	72.73%
0-40	2224.30	90.55%	94.33%
0-60	2315.96	94.28%	98.22%
0-90	2356.86	95.95%	99.95%
0-120	2356.86	95.95%	99.95%
0-180	2357.98	95.99%	100.00%
60-90	42.38	1.73%	1.80%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-32.45	1886.39	76.79%	80.00%

ZONAL LUMEN SUMMARY

0-10	238.60
10-20	661.30
20-30	815.10
30-40	509.31
40-50	74.72
50-60	16.94
60-70	14.91
70-80	14.84
80-90	11.16
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]





C180(Max):

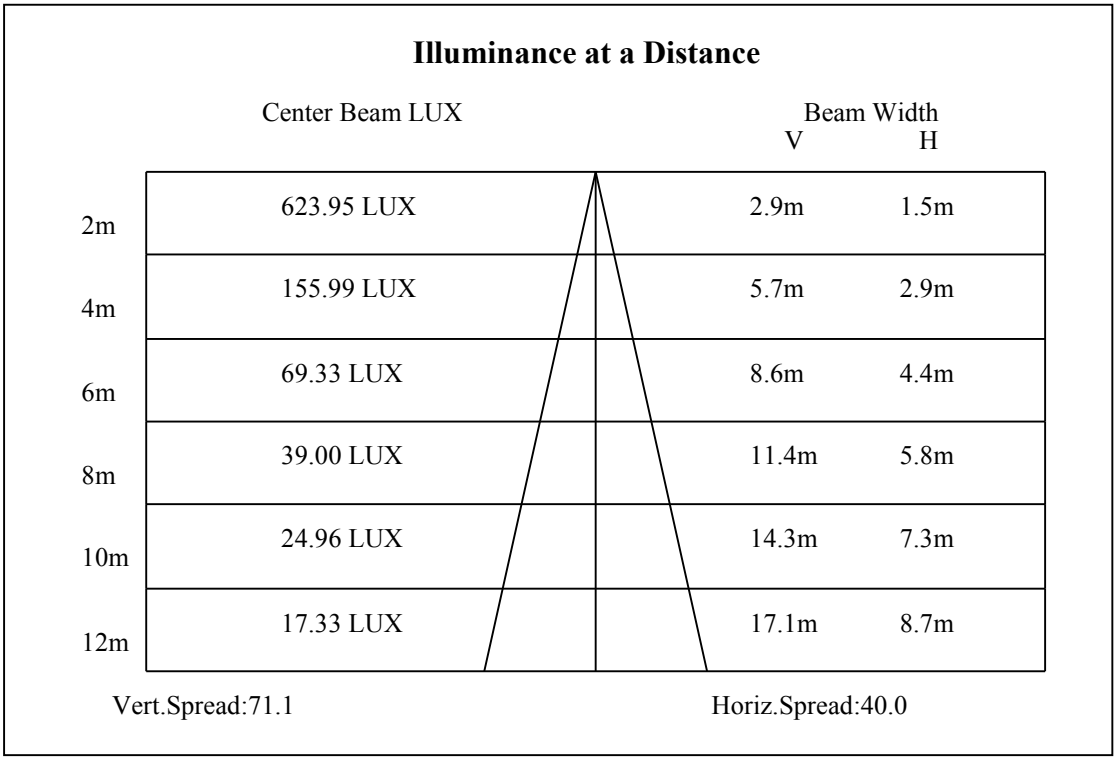
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:18.5 Right:60.5
:C90/270Left:31.9 Right:32.9

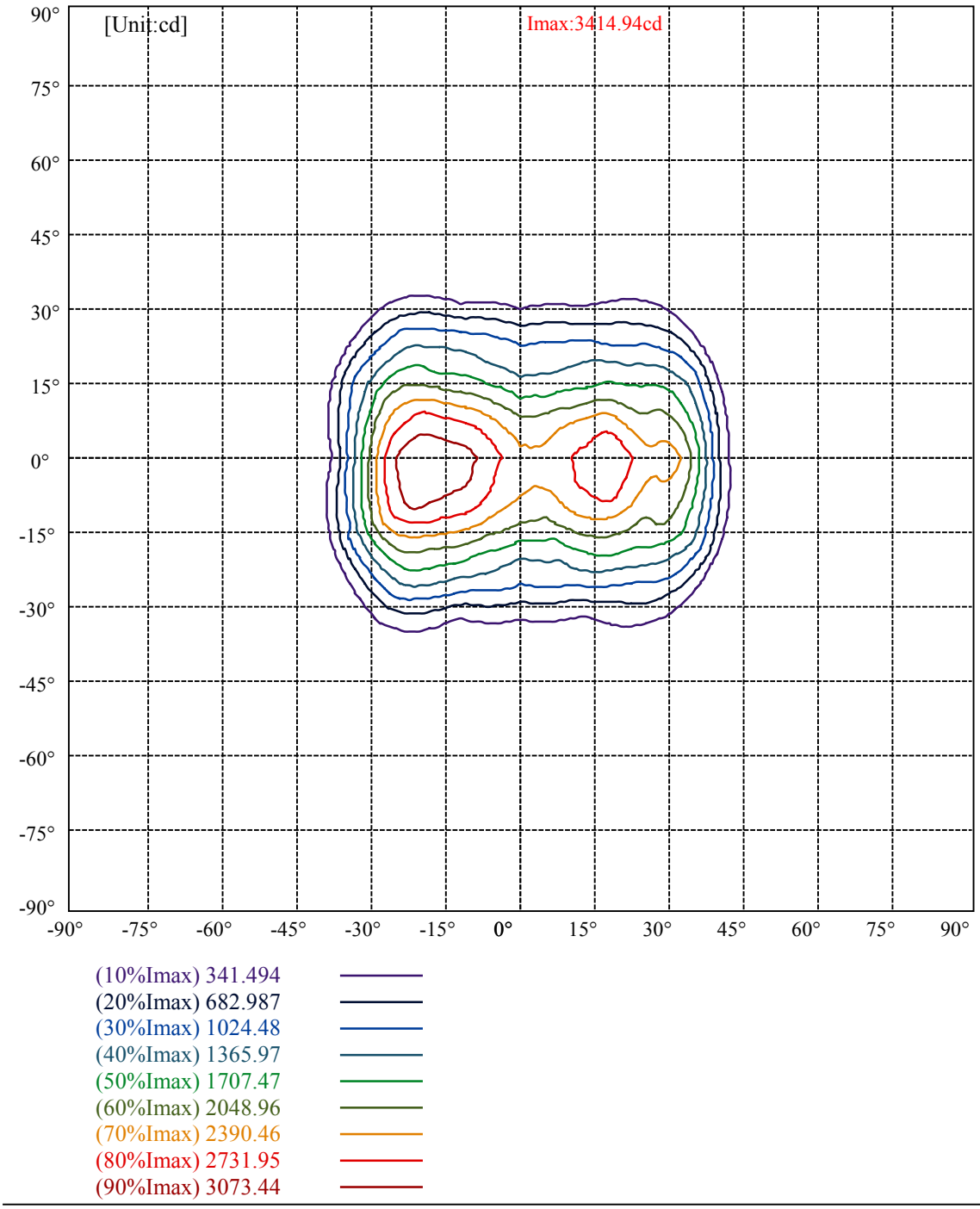
Beam Angle(50%Imax):C0/180Left:12.5 Right:54.6
:C90/270Left:19.6 Right:19.8

Lux distance Curve



Equipment: GMS1980 Date: 2021/7/27 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

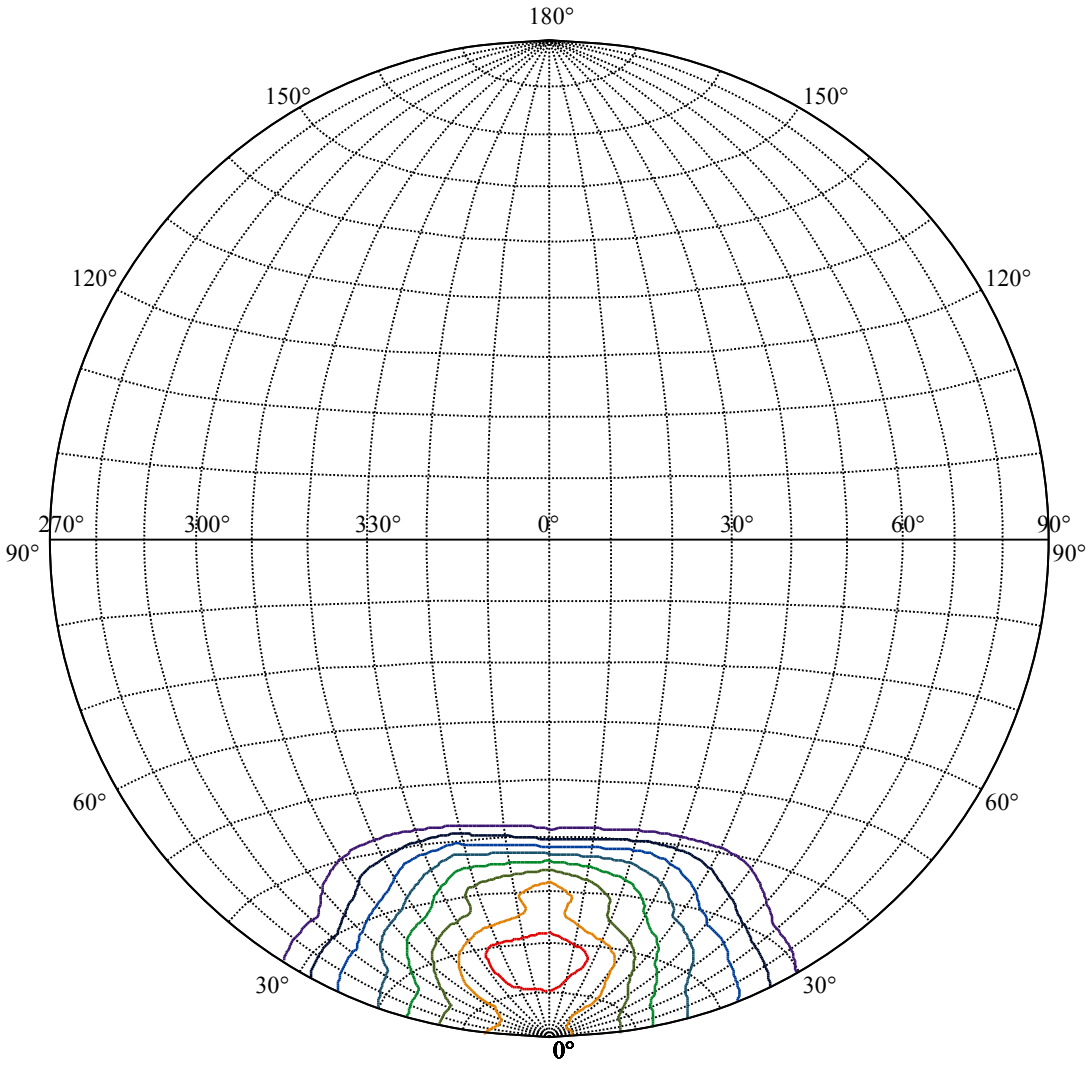


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/7/27
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



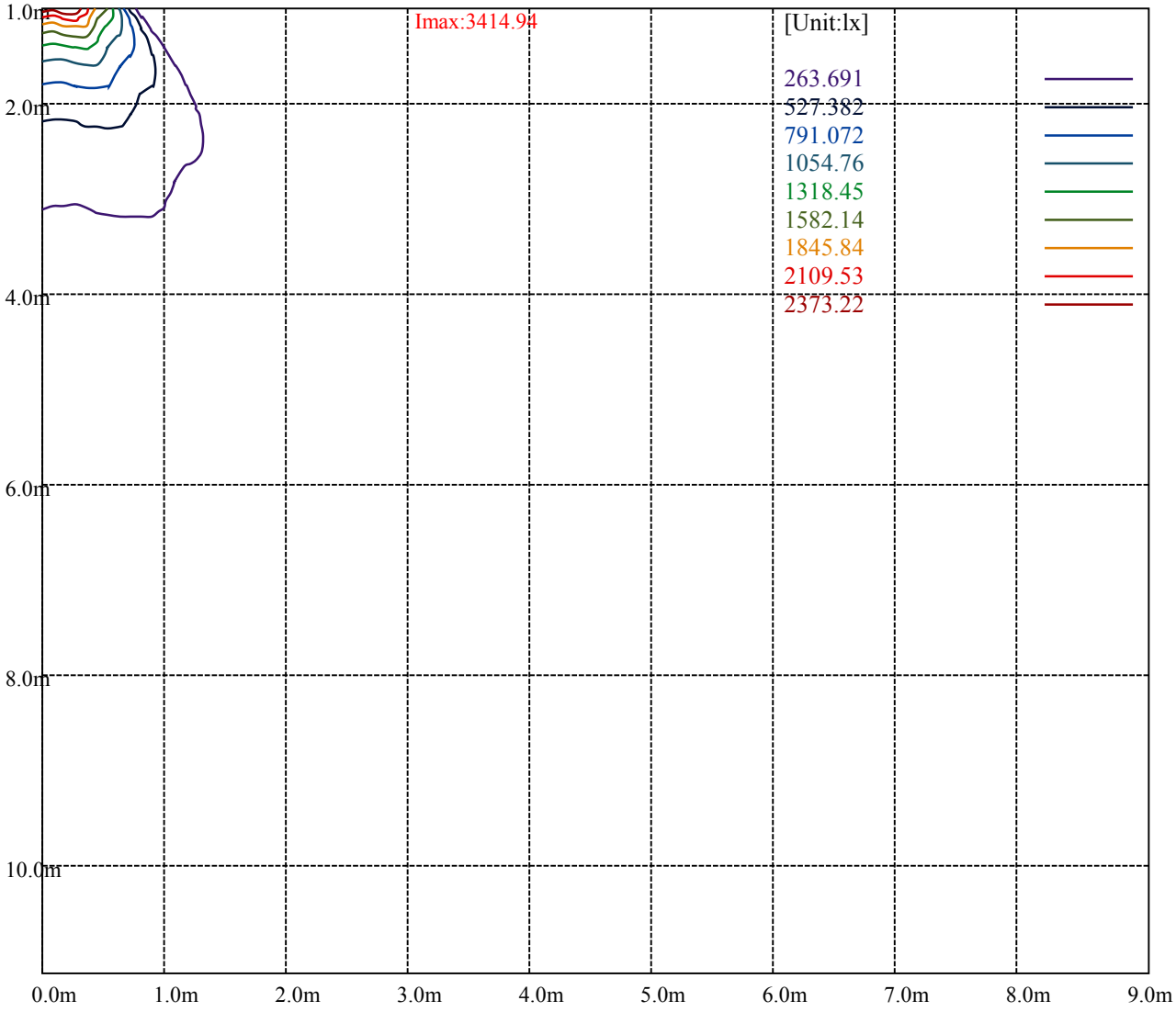
House [Unit:cd] Road

Imax:3414.94

(10%Imax) 341.494
(20%Imax) 682.987
(30%Imax) 1024.48
(40%Imax) 1365.97
(50%Imax) 1707.47
(60%Imax) 2048.96
(70%Imax) 2390.46
(80%Imax) 2731.95

Equipment: GMS1980 Date: 2021/7/27 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/7/27
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Nata 2-2322-M

Luminance Limitting Curve(no luminous side)

Luminance Table

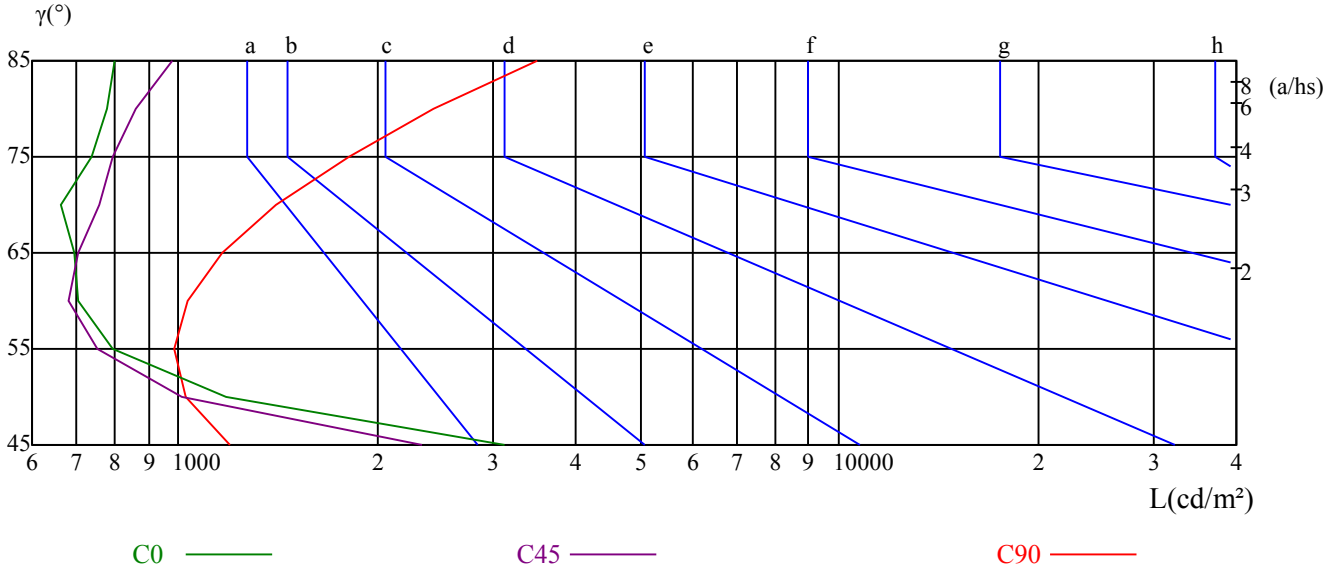
γ	45	50	55	60	65	70	75	80	85
C0	3124	1182	798	704	693	664	736	778	803
C45	2335	1013	755	680	703	757	793	864	981
C90	1195	1028	987	1030	1168	1409	1813	2433	3484

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1388	1658	1270	1966	2466	1972	4844	5221	4900

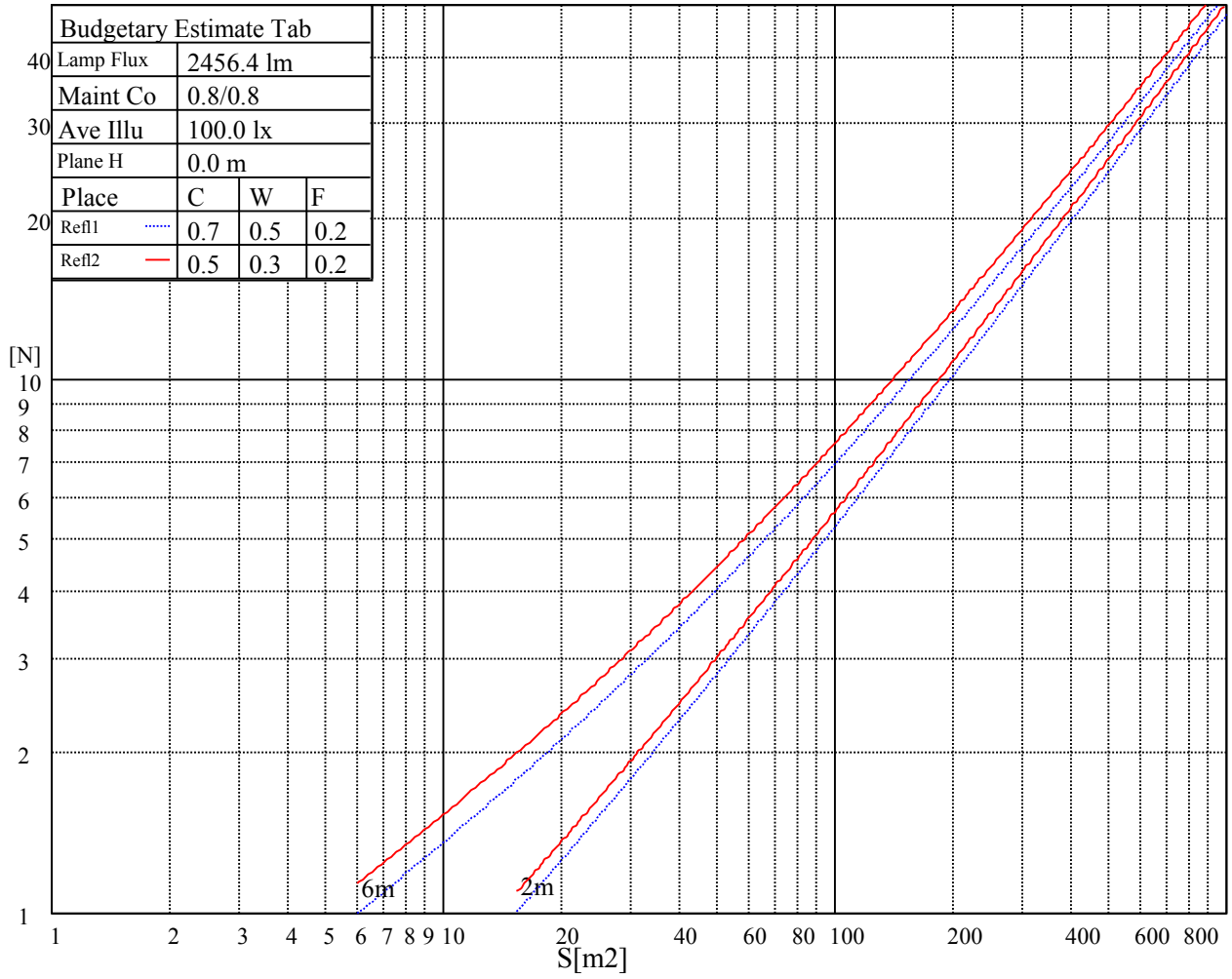
Glare Table

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

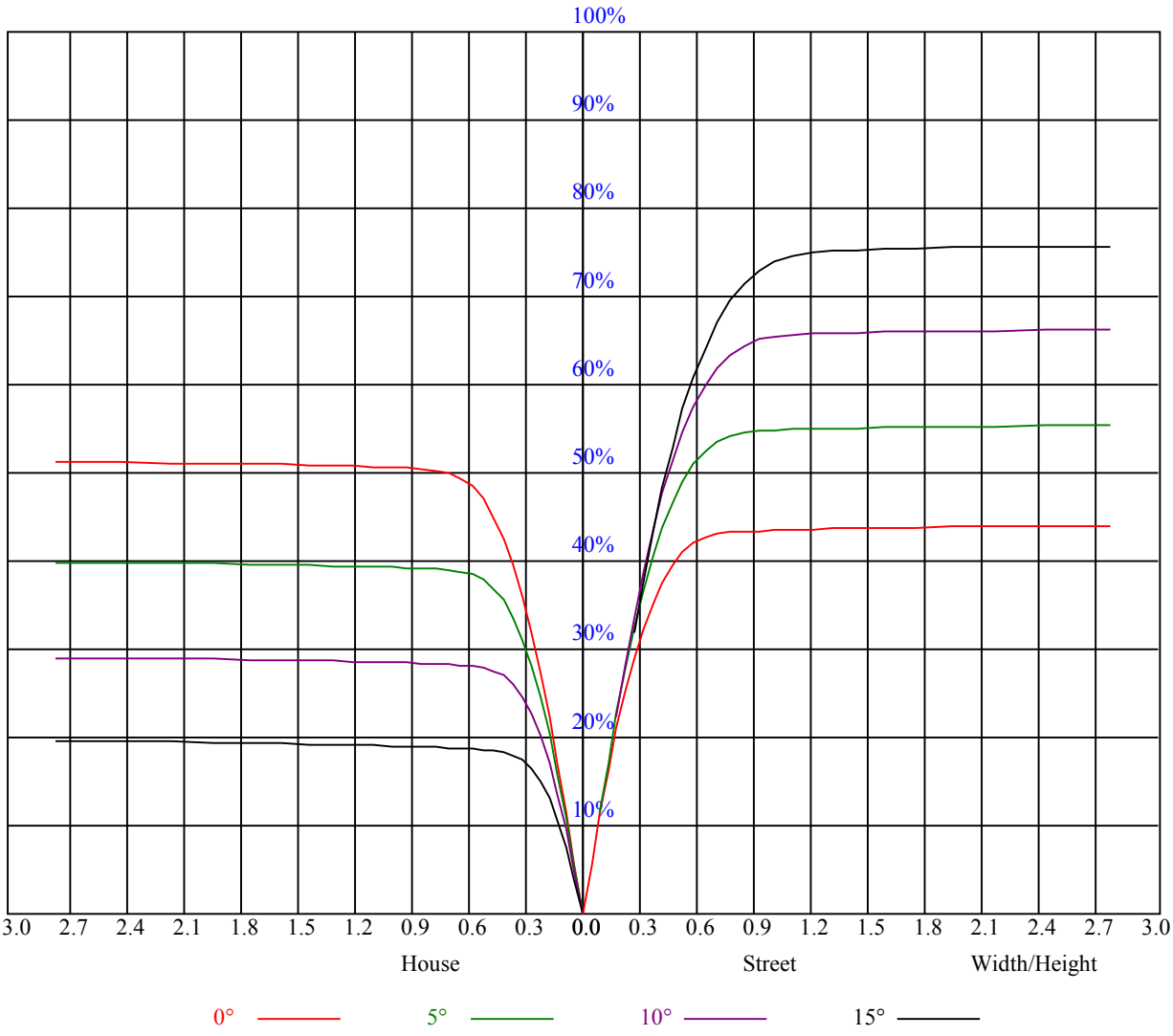


Equipment: GMS1980 Date: 2021/7/27 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.14	1.14	1.14	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.06	1.04	1.01	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.95	0.91	0.97	0.93	0.90	0.94	0.91	0.88	0.91	0.89	0.86	0.88	0.86	0.85	0.83
3	0.92	0.87	0.83	0.91	0.86	0.83	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.77
4	0.86	0.81	0.77	0.85	0.80	0.76	0.83	0.79	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.72
5	0.81	0.75	0.71	0.80	0.74	0.71	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.67
6	0.76	0.70	0.66	0.75	0.70	0.66	0.74	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.63
7	0.71	0.65	0.61	0.71	0.65	0.61	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.59
8	0.67	0.61	0.58	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.55
9	0.63	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.52
10	0.60	0.54	0.51	0.60	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.50	0.57	0.53	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/7/27
Humidity(%): 65.0%

Operator: NT07
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	2495.81	2476.69	2459.81	2455.88	2449.69	2458.13	2472.75	2504.81	2557.13
22.5	2459.81	2449.69	2432.25	2419.88	2415.38	2421.56	2438.44	2472.19	2532.94
45.0	2449.69	2430.56	2414.81	2385.56	2368.13	2338.88	2311.88	2284.31	2269.13
67.5	2458.13	2439.00	2415.38	2387.25	2351.25	2298.94	2244.94	2190.94	2124.56
90.0	2449.69	2435.63	2406.38	2370.94	2329.88	2280.38	2203.88	2136.38	2059.88
112.5	2472.19	2467.13	2458.13	2438.44	2421.56	2395.69	2359.69	2314.69	2271.38
135.0	2485.69	2496.38	2522.25	2547.00	2566.13	2600.44	2593.69	2586.94	2572.88
157.5	2483.44	2510.44	2562.19	2610.56	2682.56	2728.13	2766.94	2813.06	2856.38
180.0	2495.81	2545.31	2605.50	2691.56	2751.75	2808.00	2878.31	2967.19	3037.50
202.5	2459.81	2487.38	2525.06	2592.56	2652.19	2731.50	2789.44	2846.25	2919.38
225.0	2449.69	2468.25	2493.56	2527.31	2574.00	2621.25	2671.88	2703.38	2733.19
247.5	2458.13	2473.88	2484.00	2495.81	2509.31	2518.88	2529.00	2526.75	2516.06
270.0	2449.69	2463.75	2471.63	2471.63	2466.00	2456.44	2435.63	2406.38	2369.81
292.5	2472.19	2466.56	2462.63	2455.88	2442.38	2423.25	2402.44	2364.75	2330.44
315.0	2485.69	2477.25	2464.88	2459.25	2451.38	2441.25	2417.63	2416.50	2414.81
337.5	2483.44	2466.56	2458.69	2451.38	2443.50	2446.31	2457.00	2488.50	2535.75
360.0	2495.81	2476.69	2459.81	2455.88	2449.69	2458.13	2472.75	2504.81	2557.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2656.69	2716.31	2764.69	2802.94	2831.63	2860.88	2924.44	2975.63	3011.63
22.5	2586.94	2603.81	2611.13	2612.25	2607.19	2621.81	2630.81	2645.44	2643.19
45.0	2262.94	2249.44	2217.94	2179.69	2124.00	2046.38	1988.44	1913.06	1853.44
67.5	2037.38	1968.19	1883.25	1809.00	1720.69	1638.00	1570.50	1504.13	1425.94
90.0	1975.50	1882.69	1798.31	1707.75	1615.50	1534.50	1443.94	1370.25	1290.38
112.5	2202.75	2148.75	2085.19	2003.06	1918.13	1843.31	1753.31	1668.94	1599.19
135.0	2561.63	2534.63	2506.50	2473.31	2423.81	2357.44	2302.31	2237.06	2132.44
157.5	2906.44	2946.38	2959.31	2970.00	2968.31	2945.81	2927.81	2921.63	2905.88
180.0	3095.44	3144.94	3182.63	3200.63	3211.88	3261.94	3277.69	3312.00	3342.38
202.5	2977.31	3048.19	3095.44	3120.75	3142.69	3155.06	3146.63	3161.81	3161.81
225.0	2761.31	2778.75	2787.19	2798.44	2795.63	2782.13	2751.19	2700.00	2664.56
247.5	2496.38	2468.25	2415.38	2368.69	2309.06	2230.31	2158.88	2081.25	1986.19
270.0	2319.19	2256.75	2194.88	2124.00	2025.56	1942.31	1860.75	1760.06	1653.19
292.5	2285.44	2216.81	2165.06	2104.88	2032.88	1963.69	1891.69	1809.00	1731.38
315.0	2400.75	2410.88	2417.06	2431.13	2428.88	2428.31	2403.56	2370.94	2321.44
337.5	2616.75	2675.25	2710.69	2747.81	2774.25	2782.69	2817.00	2840.63	2848.50
360.0	2656.69	2716.31	2764.69	2802.94	2831.63	2860.88	2924.44	2975.63	3011.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3035.25	3008.25	2947.50	2840.06	2751.75	2676.38	2606.63	2532.94	2514.38
22.5	2612.81	2560.50	2444.06	2349.00	2244.38	2138.63	2059.31	1980.56	1944.00
45.0	1795.50	1726.31	1686.38	1645.31	1600.88	1557.56	1499.63	1429.88	1366.31
67.5	1375.31	1325.25	1261.69	1218.94	1176.75	1121.63	1073.25	1005.75	934.88
90.0	1220.06	1172.81	1120.50	1078.59	1038.54	985.56	879.92	800.89	710.04
112.5	1527.19	1468.13	1406.25	1366.88	1331.44	1289.25	1235.25	1175.63	1096.88
135.0	2061.56	1987.88	1907.44	1843.31	1776.94	1700.44	1644.75	1614.38	1599.75
157.5	2890.69	2867.06	2844.00	2824.88	2756.25	2647.69	2567.25	2468.25	2381.63
180.0	3383.44	3414.94	3382.88	3335.06	3283.88	3219.19	3147.19	3049.88	2907.00
202.5	3175.31	3177.00	3176.44	3212.44	3216.94	3174.19	3116.81	3032.44	2944.69
225.0	2600.44	2517.19	2432.81	2361.94	2273.06	2183.06	2100.38	2018.25	1968.75
247.5	1893.38	1818.56	1723.50	1636.31	1562.06	1497.38	1441.13	1370.25	1285.88
270.0	1563.19	1463.63	1362.38	1279.13	1211.06	1159.31	1105.31	1037.81	956.25
292.5	1649.25	1577.25	1511.44	1433.25	1361.25	1311.75	1263.38	1180.69	1120.89
315.0	2282.06	2219.06	2156.63	2109.94	2041.31	1965.38	1901.25	1833.19	1741.50
337.5	2851.31	2830.50	2779.88	2664.56	2576.81	2479.50	2369.81	2287.13	2180.25
360.0	3035.25	3008.25	2947.50	2840.06	2751.75	2676.38	2606.63	2532.94	2514.38

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	2529.00	2566.13	2584.69	2541.94	2472.19	2382.19	2231.44	2050.31	1871.44
22.5	1935.56	1919.81	1908.56	1852.31	1793.81	1717.88	1640.25	1533.38	1417.50
45.0	1283.06	1113.53	1096.99	1022.68	950.01	903.04	844.43	773.27	701.44
67.5	825.19	740.25	646.88	546.75	446.06	351.56	284.06	194.34	137.81
90.0	604.58	497.03	405.11	314.44	243.45	175.16	114.36	76.89	57.38
112.5	970.88	869.63	762.75	640.13	516.38	407.81	315.56	289.69	168.08
135.0	1563.19	1505.81	1426.50	1383.19	1316.81	1213.31	1113.02	1048.44	892.52
157.5	2294.44	2172.38	2055.94	1914.75	1720.13	1568.25	1437.75	1279.69	1175.63
180.0	2729.25	2519.44	2259.56	2054.81	1842.75	1557.56	1343.25	1106.61	890.89
202.5	2836.13	2734.88	2585.81	2406.94	2235.38	2017.69	1803.94	1623.38	1451.25
225.0	1924.31	1852.88	1805.06	1744.31	1654.88	1576.69	1475.44	1344.38	1235.81
247.5	1116.96	1074.83	921.60	803.53	687.15	551.14	441.23	343.46	249.58
270.0	865.13	749.25	648.56	552.94	437.06	353.81	288.00	244.52	135.84
292.5	1028.14	918.96	799.26	699.30	590.79	480.99	393.19	308.87	240.02
315.0	1657.13	1536.75	1427.06	1328.06	1234.13	1139.63	1045.69	941.06	866.81
337.5	2081.25	2079.56	2081.25	2106.00	2075.63	2002.50	1914.75	1829.25	1711.13
360.0	2529.00	2566.13	2584.69	2541.94	2472.19	2382.19	2231.44	2050.31	1871.44

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1616.06	1369.13	1110.94	834.75	594.56	384.75	292.50	118.29	89.16
22.5	1333.13	1233.56	1075.50	911.25	705.94	492.19	314.44	284.06	112.22
45.0	621.51	541.63	467.72	400.73	331.26	261.62	193.22	129.09	85.56
67.5	84.88	58.78	48.99	43.76	39.54	34.65	30.94	28.91	27.45
90.0	51.02	46.01	41.23	34.76	31.78	29.36	27.06	25.14	23.68
112.5	112.16	72.84	54.84	49.22	43.37	38.36	32.23	29.03	26.89
135.0	771.53	648.90	539.83	408.54	320.63	234.39	162.68	104.51	61.37
157.5	1065.94	938.81	751.50	564.75	332.44	285.75	102.38	81.56	74.31
180.0	639.28	425.08	258.30	153.62	109.41	89.89	74.03	57.09	45.34
202.5	1116.17	1074.83	888.58	659.42	451.29	308.14	202.95	126.79	93.66
225.0	1117.69	973.69	826.88	699.75	564.19	452.25	348.75	285.75	189.11
247.5	183.77	127.24	84.54	73.41	65.42	56.76	51.13	43.31	36.84
270.0	93.54	75.88	66.49	59.40	54.11	47.48	40.05	36.79	33.08
292.5	171.90	111.83	78.02	63.90	56.42	50.34	44.44	37.63	32.51
315.0	822.38	762.75	658.13	547.31	450.56	374.06	297.00	288.56	168.36
337.5	1567.13	1461.94	1333.69	1110.26	974.93	757.13	522.06	280.07	157.89
360.0	1616.06	1369.13	1110.94	834.75	594.56	384.75	292.50	118.29	89.16

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	81.84	81.73	70.20	48.54	36.84	29.81	24.08	22.33	21.15
22.5	79.20	74.14	69.75	56.31	40.89	31.05	23.96	20.25	18.79
45.0	56.70	36.68	31.33	28.18	25.37	23.46	21.66	20.03	18.96
67.5	26.04	25.03	23.85	21.88	19.86	18.56	17.49	17.04	16.65
90.0	22.44	21.04	20.03	19.18	18.34	17.66	17.04	16.48	16.03
112.5	24.86	23.18	21.88	20.81	19.46	18.62	17.94	17.16	16.54
135.0	41.18	34.82	31.39	27.56	25.48	23.85	22.56	21.77	20.53
157.5	63.79	50.79	42.02	35.94	31.39	29.03	26.94	24.98	23.01
180.0	38.76	34.48	31.56	29.48	26.89	24.69	22.95	22.05	20.76
202.5	79.59	68.01	55.24	45.28	39.09	34.43	31.39	28.86	26.55
225.0	127.13	83.14	58.11	43.31	36.11	32.74	29.87	27.45	25.82
247.5	33.92	31.05	27.68	25.93	24.19	22.05	20.93	19.86	18.79
270.0	30.54	28.29	25.82	24.19	22.84	21.26	20.31	19.41	18.45
292.5	29.76	27.45	25.03	23.40	22.05	20.53	19.58	18.79	18.00
315.0	115.59	68.57	50.51	42.41	37.52	32.18	28.35	26.10	24.08
337.5	91.52	76.05	73.35	71.44	59.18	38.03	30.99	21.54	19.80
360.0	81.84	81.73	70.20	48.54	36.84	29.81	24.08	22.33	21.15

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	19.97	19.18	18.51	17.89	17.38	16.65	15.98	15.75	15.41
22.5	17.94	17.38	16.93	16.65	16.37	16.03	15.64	15.30	15.02
45.0	17.66	16.48	15.81	15.19	14.51	14.18	13.84	13.67	13.56
67.5	16.09	15.75	15.30	14.85	14.57	14.40	14.12	13.95	13.78
90.0	15.64	15.24	14.96	14.63	14.40	14.18	14.01	13.84	13.73
112.5	16.14	15.64	15.24	15.02	14.68	14.46	14.29	14.01	13.84
135.0	19.46	18.56	17.66	16.71	16.09	15.64	15.19	14.79	14.46
157.5	21.38	20.08	18.79	17.89	17.16	16.37	15.75	15.30	14.85
180.0	19.86	19.07	18.17	17.44	16.88	16.20	15.86	15.53	15.30
202.5	24.19	22.39	20.93	19.46	18.39	17.55	16.76	16.14	15.58
225.0	24.30	22.95	21.71	20.70	19.41	18.62	17.78	17.10	16.48
247.5	17.94	17.33	16.71	16.26	15.81	15.47	15.41	15.86	16.48
270.0	17.78	17.33	16.82	16.37	16.26	16.59	17.10	18.11	17.04
292.5	17.38	16.82	16.31	15.92	15.47	15.19	15.36	15.86	16.43
315.0	22.05	20.42	18.96	17.38	16.37	15.58	14.79	14.29	13.89
337.5	18.28	17.33	16.82	16.48	16.26	15.92	15.58	15.19	14.85
360.0	19.97	19.18	18.51	17.89	17.38	16.65	15.98	15.75	15.41

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.91	14.57	14.68	14.40	13.95	13.61	13.28	12.94	12.66
22.5	14.74	14.46	14.29	14.06	13.73	13.56	13.33	13.11	12.88
45.0	13.61	13.33	13.16	13.05	12.99	12.94	12.77	12.83	12.71
67.5	13.61	13.50	13.39	13.33	13.33	13.39	13.33	13.33	13.56
90.0	13.67	13.56	13.61	13.56	13.67	13.78	13.61	13.56	13.95
112.5	13.73	13.61	13.50	13.44	13.50	13.61	13.61	13.56	13.73
135.0	14.12	13.95	13.84	13.73	13.39	13.28	13.33	12.94	12.88
157.5	14.51	14.18	13.95	13.73	13.61	13.44	13.39	13.22	13.05
180.0	15.19	15.24	15.41	15.47	15.36	15.36	15.36	15.19	14.68
202.5	15.19	14.85	14.51	14.29	14.18	14.06	13.95	13.84	13.78
225.0	15.92	15.36	14.96	14.63	14.34	14.34	14.29	14.23	14.34
247.5	17.04	17.89	18.96	19.58	19.69	19.80	20.48	20.76	20.31
270.0	17.78	20.76	22.33	22.44	21.77	20.25	19.69	19.01	19.24
292.5	17.04	17.89	18.96	19.41	19.52	19.52	19.46	19.29	19.41
315.0	13.56	13.28	13.11	12.99	13.05	13.22	13.33	13.50	13.78
337.5	14.51	14.23	14.01	13.78	13.56	13.39	13.16	12.99	12.83
360.0	14.91	14.57	14.68	14.40	13.95	13.61	13.28	12.94	12.66

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.49	12.43	12.54	12.99	12.88	12.83	12.77	12.54	12.21
22.5	12.77	12.60	12.49	12.38	12.21	12.09	11.93	11.76	11.64
45.0	12.26	12.04	11.98	11.93	11.70	11.59	11.48	11.36	11.25
67.5	13.50	13.44	13.67	13.56	13.61	13.22	13.05	12.94	12.66
90.0	13.67	13.56	13.84	13.61	13.67	13.67	13.39	13.22	12.99
112.5	13.67	13.67	13.67	13.73	13.67	13.61	13.39	13.16	12.71
135.0	12.54	12.32	12.15	11.98	11.87	11.76	11.59	11.53	11.42
157.5	12.99	12.88	12.77	12.66	12.49	12.26	12.09	11.93	11.70
180.0	14.06	13.67	13.22	13.11	12.88	12.49	12.38	12.21	12.09
202.5	13.61	13.50	13.44	13.33	13.16	13.05	12.83	12.66	12.43
225.0	14.63	14.74	14.51	14.79	14.34	14.18	13.67	13.39	12.99
247.5	19.86	20.14	19.58	19.07	18.96	18.68	17.94	17.61	16.71
270.0	20.48	20.36	20.14	19.13	18.62	18.79	18.00	17.66	17.04
292.5	19.29	18.79	18.56	18.79	18.11	17.61	17.33	16.37	15.24
315.0	13.95	14.01	13.84	13.67	13.84	13.28	12.43	11.59	11.48
337.5	12.60	12.38	12.26	12.15	11.98	11.87	11.76	11.64	11.48
360.0	12.49	12.43	12.54	12.99	12.88	12.83	12.77	12.54	12.21

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	11.93	11.76	11.42	11.14	10.91	10.63	10.24	10.01	9.79
22.5	11.42	11.25	11.03	10.86	10.63	10.35	10.24	9.90	9.84
45.0	11.14	11.03	10.91	10.80	10.69	10.58	10.41	10.24	10.24
67.5	12.09	11.76	11.64	11.59	11.53	10.91	10.86	10.63	10.58
90.0	12.77	12.04	11.59	11.53	10.91	10.80	10.69	10.58	10.58
112.5	12.32	11.93	11.76	11.64	11.19	10.91	10.86	10.91	10.46
135.0	11.25	11.19	11.08	10.91	10.63	10.52	10.35	10.18	10.07
157.5	11.53	11.36	11.08	10.86	10.58	10.35	10.18	9.90	9.68
180.0	11.87	11.70	11.36	11.14	10.74	10.35	10.07	9.79	9.45
202.5	12.15	12.04	11.81	11.59	11.36	10.91	10.69	10.46	10.24
225.0	12.60	12.15	11.87	11.81	11.70	11.53	10.91	10.74	10.63
247.5	15.69	15.02	12.77	12.54	12.43	11.36	11.14	10.97	10.91
270.0	16.48	15.98	13.84	12.54	12.43	12.15	11.08	10.91	10.80
292.5	14.18	13.28	12.09	11.98	11.93	11.70	10.91	10.80	10.69
315.0	11.31	11.19	11.03	10.91	10.80	10.69	10.52	10.41	10.29
337.5	11.31	11.08	10.97	10.74	10.58	10.46	10.18	10.01	9.84
360.0	11.93	11.76	11.42	11.14	10.91	10.63	10.24	10.01	9.79

C/γ(°)	90.0
0.0	9.45
22.5	9.84
45.0	10.24
67.5	10.58
90.0	10.58
112.5	10.46
135.0	10.01
157.5	9.62
180.0	9.51
202.5	10.01
225.0	10.46
247.5	10.91
270.0	10.74
292.5	10.63
315.0	10.18
337.5	9.68
360.0	9.45