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## Nata

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LumCAT: 2-2321-M  
Luminaire: 92.70.131.00  
Report No: 210807-B001  
Test No: 210807-C001  
LampCAT: LUMINUS CXM-14-AC40 LES14  
Lamp flux(lm): 2266.4  
Number of Lamps: 1  
Length(mm): 570  
Phm Type: C

Voltage(V): 34.0700  
Current(A): 0.5010  
Power (W): 17.0690  
PF: 0.0000  
Ballast type: DC  
Width(mm): 45  
Height(mm): 20

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## Photometric Results

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Lumens(lm): 2181.67  
Efficiency(%): 96.26%  
Lumens(lm)/Power(W): 127.81  
Central intensity(cd): 3016.326  
Maximum intensity(cd): 3058.751  
Angle of maximum intensity: C=0.0  $\gamma$ =8.0  
Beam Angle(50%Imax): [C0/180]Total=49.3  
                                  [C90/270]Total=48.3  
Field angle(10%Imax): [C0/180]Total=65.8  
                                  [C90/270]Total=65.3  
Maximum s/h(1/2): C0\_180=0.80 C90\_270=0.76  
Maximum s/h(1/4): C0\_180=0.70 C90\_270=0.67  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 96.26%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.342%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3016.550	0.000	0	.000%	.000%
1.0	3018.082	2.887	2.887	.127%	.132%
2.0	3018.343	8.664	11.552	.382%	.529%
3.0	3021.891	14.446	25.998	.637%	1.192%
4.0	3022.787	20.233	46.231	.893%	2.119%
5.0	3023.123	26.009	72.24	1.148%	3.311%
6.0	3022.115	31.769	104.01	1.402%	4.767%
7.0	3018.156	37.492	141.502	1.654%	6.486%
8.0	3010.762	43.148	184.649	1.904%	8.464%
9.0	2999.147	48.707	233.356	2.149%	10.696%
10.0	2981.707	54.125	287.481	2.388%	13.177%
11.0	2958.179	59.352	346.833	2.619%	15.898%
12.0	2931.365	64.381	411.214	2.841%	18.849%
13.0	2894.804	69.142	480.356	3.051%	22.018%
14.0	2854.172	73.586	553.942	3.247%	25.391%
15.0	2811.934	77.787	631.729	3.432%	28.956%
16.0	2762.899	81.687	713.416	3.604%	32.700%
17.0	2702.661	85.113	798.529	3.755%	36.602%
18.0	2638.875	88.070	886.6	3.886%	40.639%
19.0	2561.420	90.474	977.074	3.992%	44.786%
20.0	2462.790	91.957	1069.031	4.057%	49.001%
21.0	2349.335	92.403	1161.434	4.077%	53.236%
22.0	2221.165	91.846	1253.28	4.052%	57.446%
23.0	2079.252	90.234	1343.514	3.981%	61.582%
24.0	1909.904	87.217	1430.732	3.848%	65.580%
25.0	1744.012	83.082	1513.814	3.666%	69.388%
26.0	1583.441	78.545	1592.358	3.466%	72.988%
27.0	1408.906	73.208	1665.567	3.230%	76.344%
28.0	1209.238	66.286	1731.853	2.925%	79.382%
29.0	1041.743	58.892	1790.745	2.598%	82.081%
30.0	899.404	52.411	1843.155	2.312%	84.484%
31.0	746.007	45.789	1888.945	2.020%	86.583%
32.0	611.944	38.904	1927.849	1.717%	88.366%
33.0	505.341	32.916	1960.764	1.452%	89.875%
34.0	414.151	27.827	1988.591	1.228%	91.150%
35.0	330.180	23.116	2011.707	1.020%	92.210%
36.0	267.084	19.017	2030.724	.839%	93.081%
37.0	218.289	15.830	2046.554	.698%	93.807%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	178.489	13.244	2059.798	.584%	94.414%
39.0	152.280	11.290	2071.088	.498%	94.931%
40.0	120.847	9.526	2080.614	.420%	95.368%
41.0	101.628	7.922	2088.536	.350%	95.731%
42.0	84.842	6.775	2095.311	.299%	96.042%
43.0	72.577	5.831	2101.142	.257%	96.309%
44.0	63.256	5.127	2106.269	.226%	96.544%
45.0	55.238	4.554	2110.823	.201%	96.753%
46.0	47.873	4.032	2114.855	.178%	96.937%
47.0	42.320	3.587	2118.442	.158%	97.102%
48.0	37.656	3.233	2121.675	.143%	97.250%
49.0	33.682	2.930	2124.605	.129%	97.384%
50.0	29.962	2.654	2127.258	.117%	97.506%
51.0	27.173	2.417	2129.676	.107%	97.617%
52.0	24.812	2.231	2131.906	.098%	97.719%
53.0	22.699	2.067	2133.973	.091%	97.814%
54.0	20.917	1.922	2135.895	.085%	97.902%
55.0	19.498	1.804	2137.7	.080%	97.985%
56.0	18.292	1.708	2139.407	.075%	98.063%
57.0	17.149	1.620	2141.028	.071%	98.137%
58.0	16.260	1.545	2142.573	.068%	98.208%
59.0	15.521	1.486	2144.058	.066%	98.276%
60.0	14.819	1.433	2145.492	.063%	98.342%
61.0	14.255	1.387	2146.879	.061%	98.405%
62.0	13.792	1.351	2148.231	.060%	98.467%
63.0	13.411	1.323	2149.554	.058%	98.528%
64.0	13.030	1.297	2150.851	.057%	98.587%
65.0	12.765	1.277	2152.128	.056%	98.646%
66.0	12.526	1.262	2153.389	.056%	98.704%
67.0	12.332	1.250	2154.639	.055%	98.761%
68.0	12.145	1.240	2155.879	.055%	98.818%
69.0	11.995	1.232	2157.111	.054%	98.874%
70.0	11.891	1.227	2158.337	.054%	98.931%
71.0	11.805	1.225	2159.562	.054%	98.987%
72.0	11.745	1.225	2160.787	.054%	99.043%
73.0	11.682	1.225	2162.012	.054%	99.099%
74.0	11.641	1.226	2163.238	.054%	99.155%
75.0	11.573	1.227	2164.464	.054%	99.211%

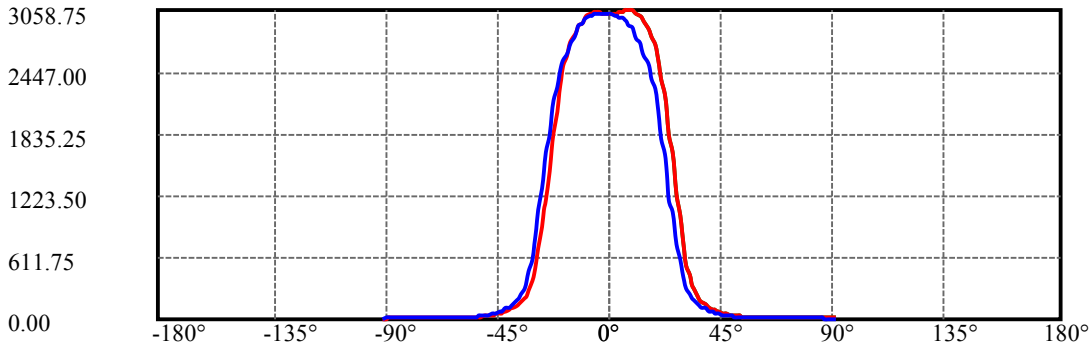
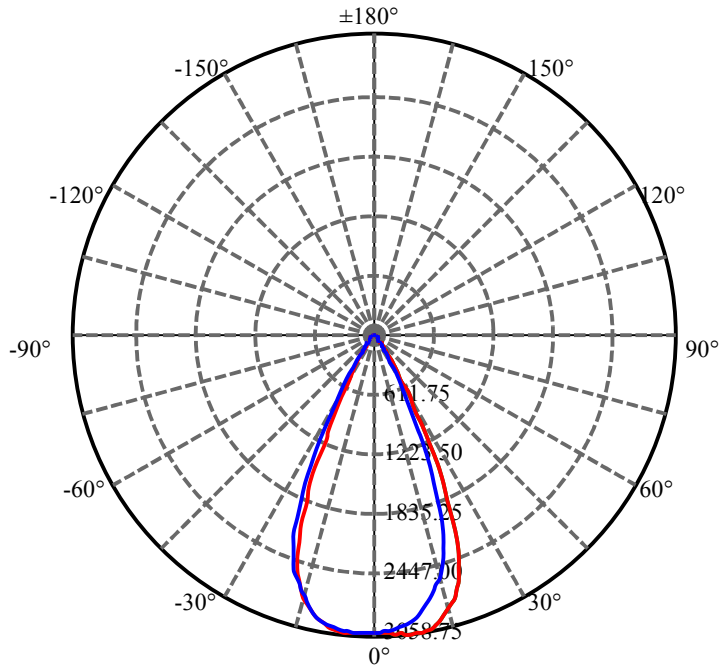
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.480	1.224	2165.688	.054%	99.268%
77.0	11.409	1.220	2166.909	.054%	99.323%
78.0	11.290	1.215	2168.124	.054%	99.379%
79.0	11.211	1.209	2169.333	.053%	99.435%
80.0	11.088	1.202	2170.535	.053%	99.490%
81.0	10.909	1.190	2171.724	.052%	99.544%
82.0	10.763	1.175	2172.9	.052%	99.598%
83.0	10.539	1.158	2174.058	.051%	99.651%
84.0	10.307	1.136	2175.193	.050%	99.703%
85.0	10.121	1.115	2176.308	.049%	99.754%
86.0	9.915	1.095	2177.403	.048%	99.804%
87.0	9.811	1.080	2178.483	.048%	99.854%
88.0	9.732	1.071	2179.553	.047%	99.903%
89.0	9.635	1.062	2180.615	.047%	99.952%
90.0	9.583	1.054	2181.669	.046%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1843.16	81.32%	84.48%
0-40	2080.61	91.80%	95.37%
0-60	2145.49	94.66%	98.34%
0-90	2180.61	96.21%	99.95%
0-120	2180.61	96.21%	99.95%
0-180	2181.67	96.26%	100.00%
60-90	36.56	1.61%	1.68%
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%
0-28.23	1745.34	77.01%	80.00%

ZONAL LUMEN SUMMARY

0-10	287.48
10-20	781.55
20-30	774.12
30-40	237.46
40-50	46.64
50-60	18.23
60-70	12.85
70-80	12.20
80-90	10.08
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



C0(Max): ———

C0/C180: ———

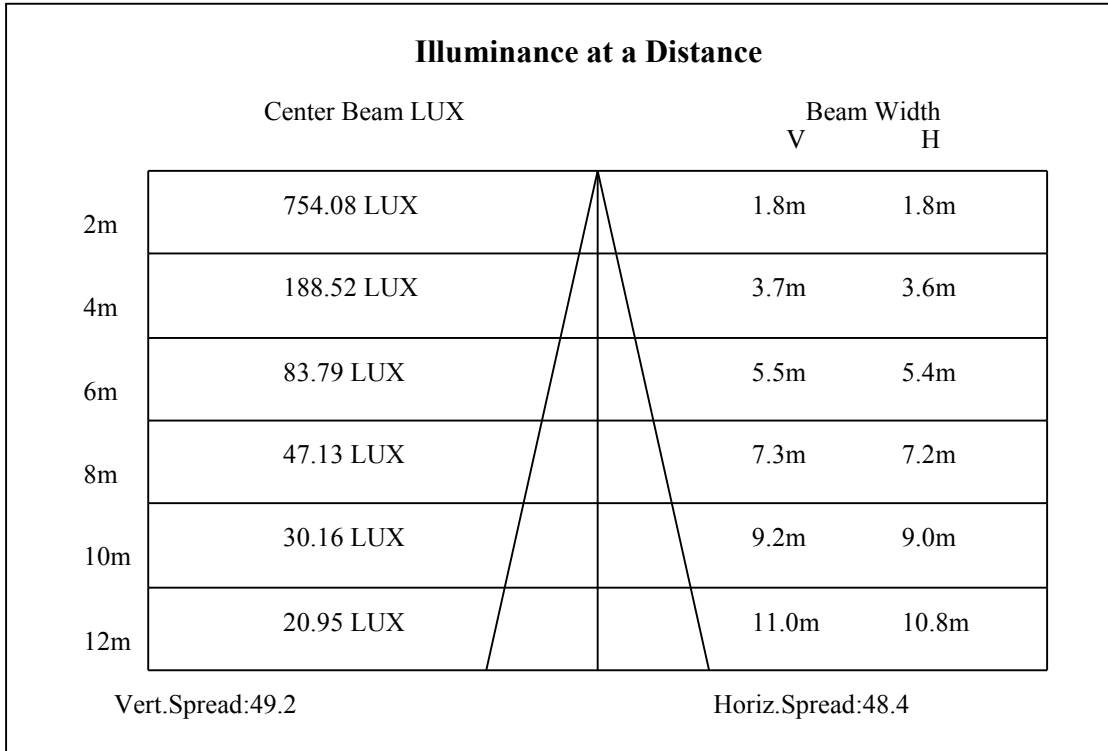
C90/C270: ———

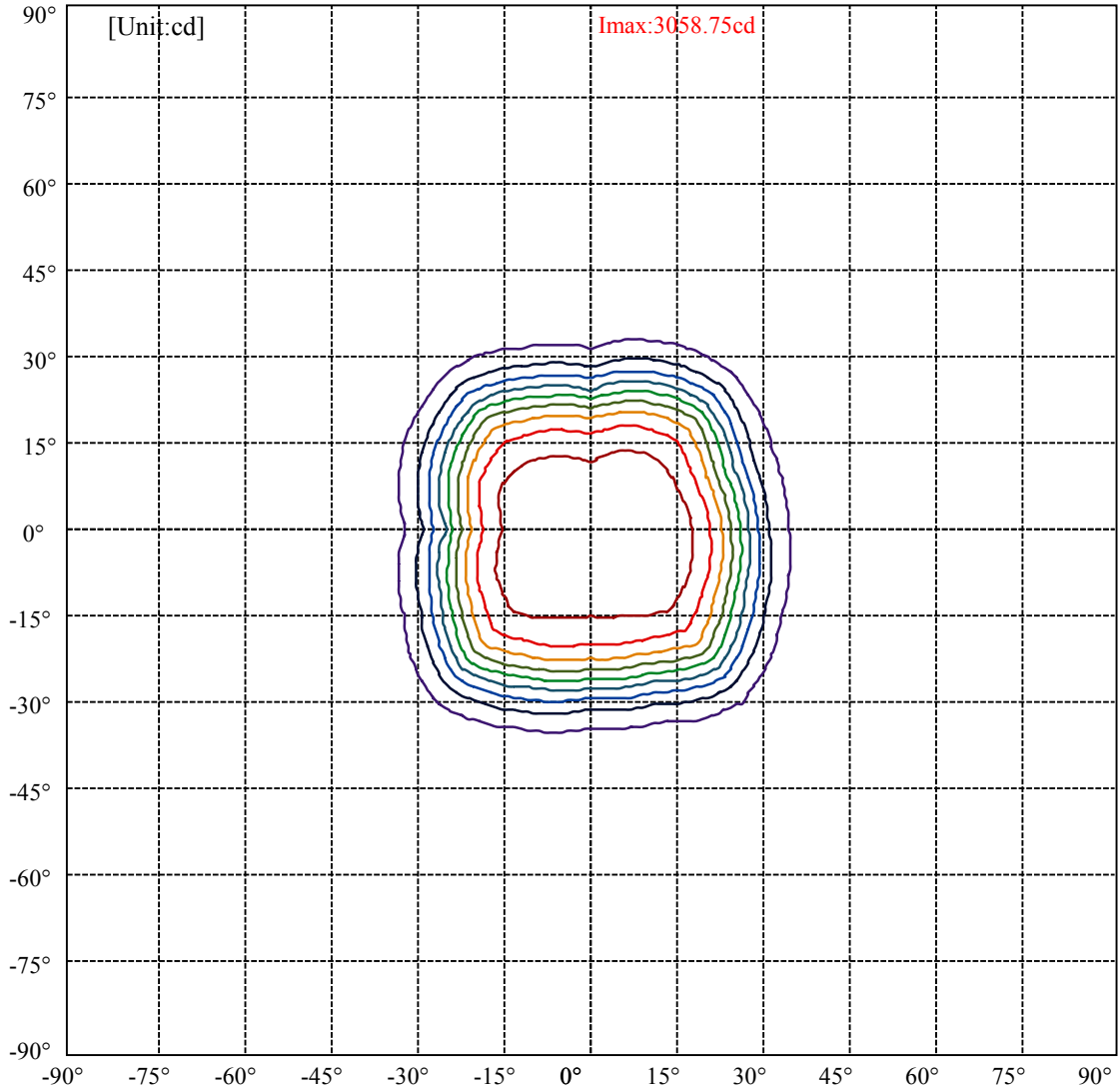
Field angle(10%Imax):C0/180Left:39.8 Right:26.0

:C90/270Left:31.1 Right:34.1

Beam Angle(50%Imax):C0/180Left:31.7 Right:17.6

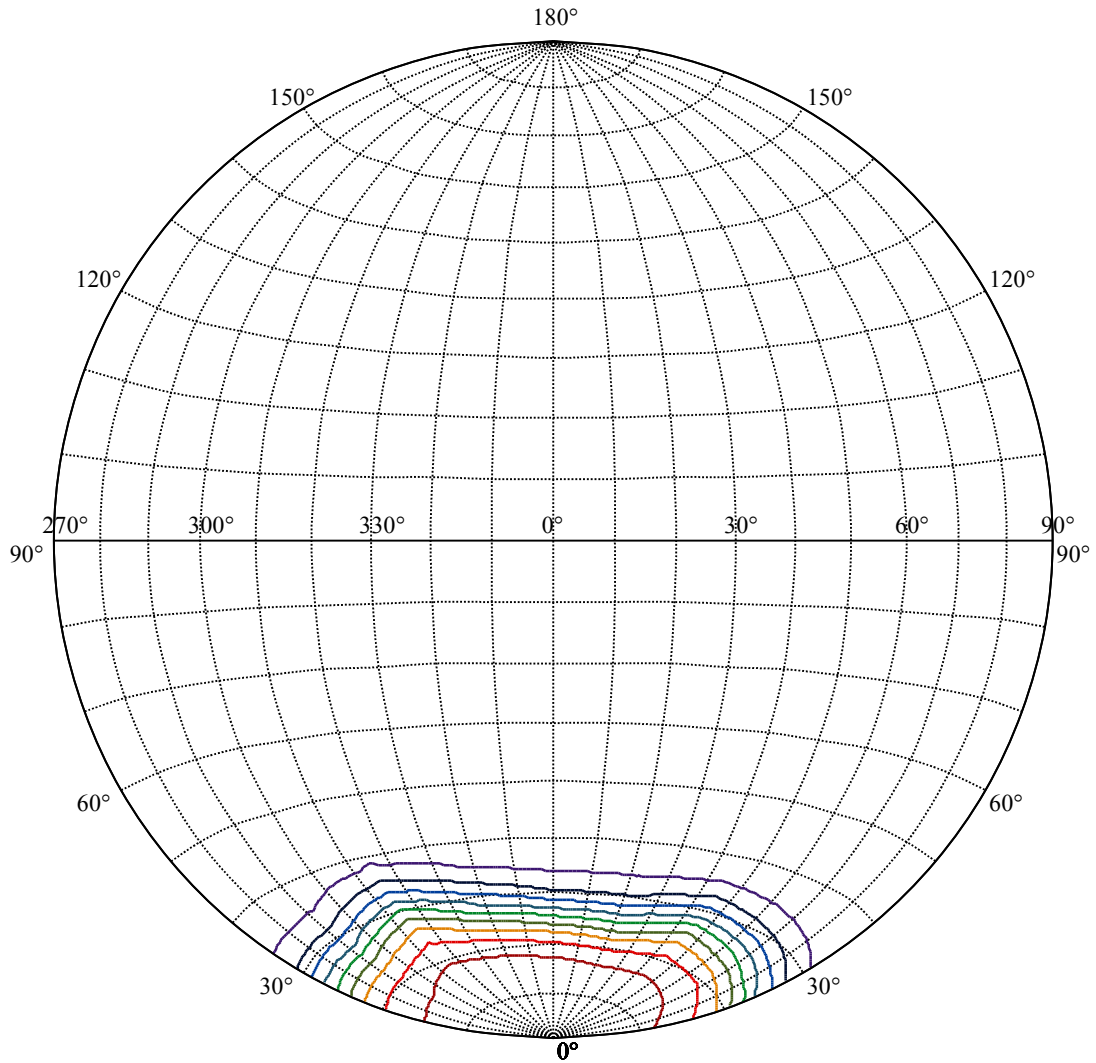
:C90/270Left:22.8 Right:25.6





(10%Imax) 305.875	—
(20%Imax) 611.75	—
(30%Imax) 917.625	—
(40%Imax) 1223.5	—
(50%Imax) 1529.38	—
(60%Imax) 1835.25	—
(70%Imax) 2141.13	—
(80%Imax) 2447	—
(90%Imax) 2752.88	—





House

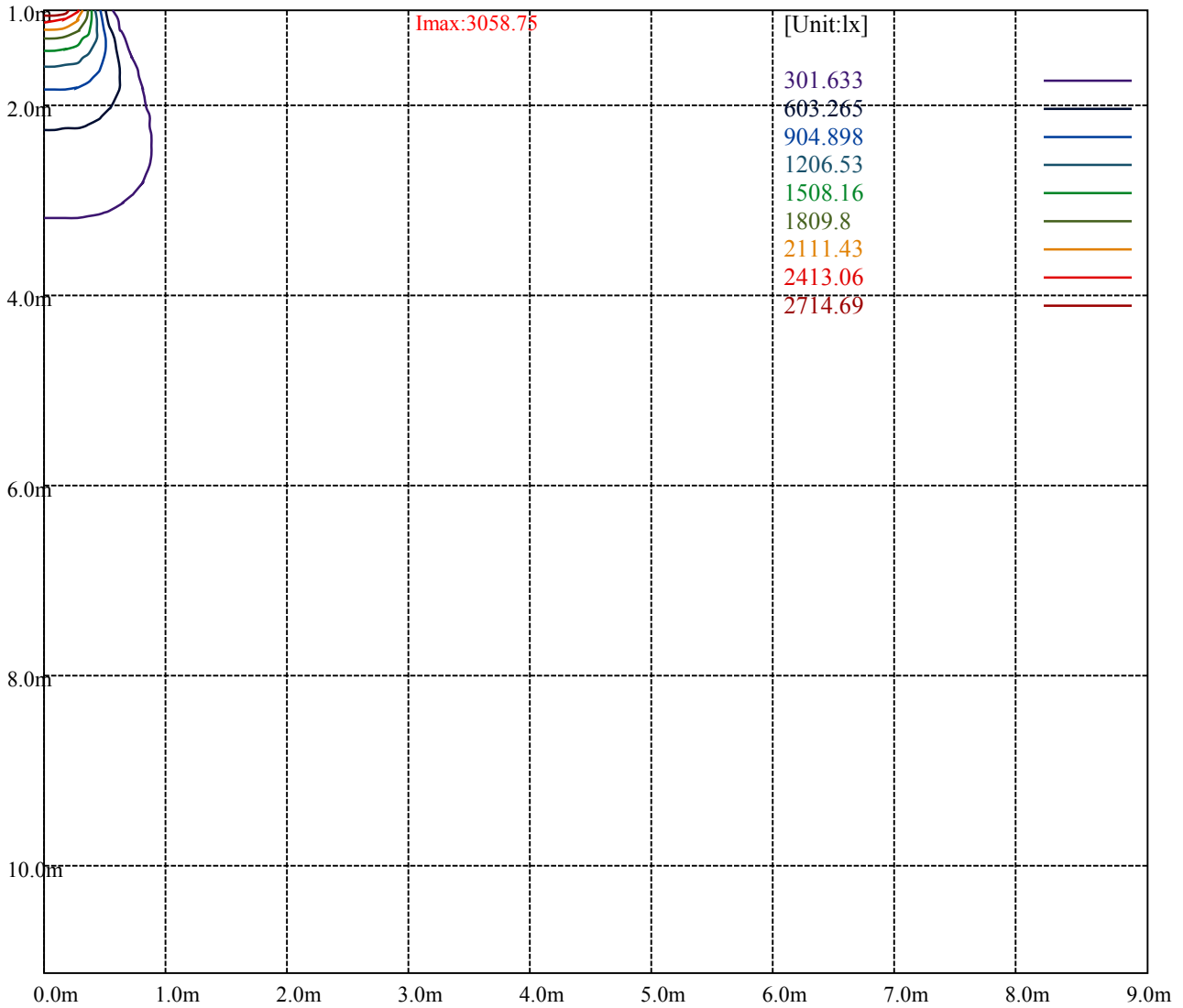
[Unit:cd]

Road

**Imax:3058.75**

- (10%Imax) 305.875
- (20%Imax) 611.75
- (30%Imax) 917.625
- (40%Imax) 1223.5
- (50%Imax) 1529.38
- (60%Imax) 1835.25
- (70%Imax) 2141.13
- (80%Imax) 2447
- (90%Imax) 2752.88





Luminance Table

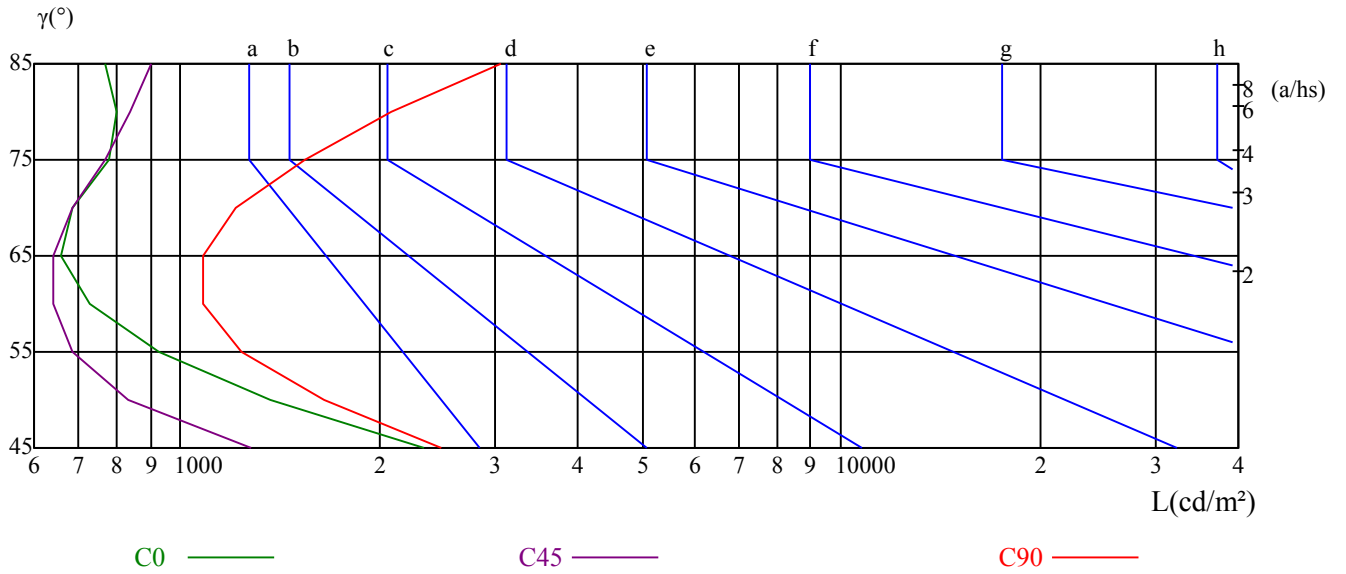
$\gamma$	45	50	55	60	65	70	75	80	85
C0	2338	1365	927	727	658	687	779	800	769
C45	1279	834	684	640	641	684	767	840	905
C90	2483	1649	1238	1080	1082	1211	1544	2081	3052

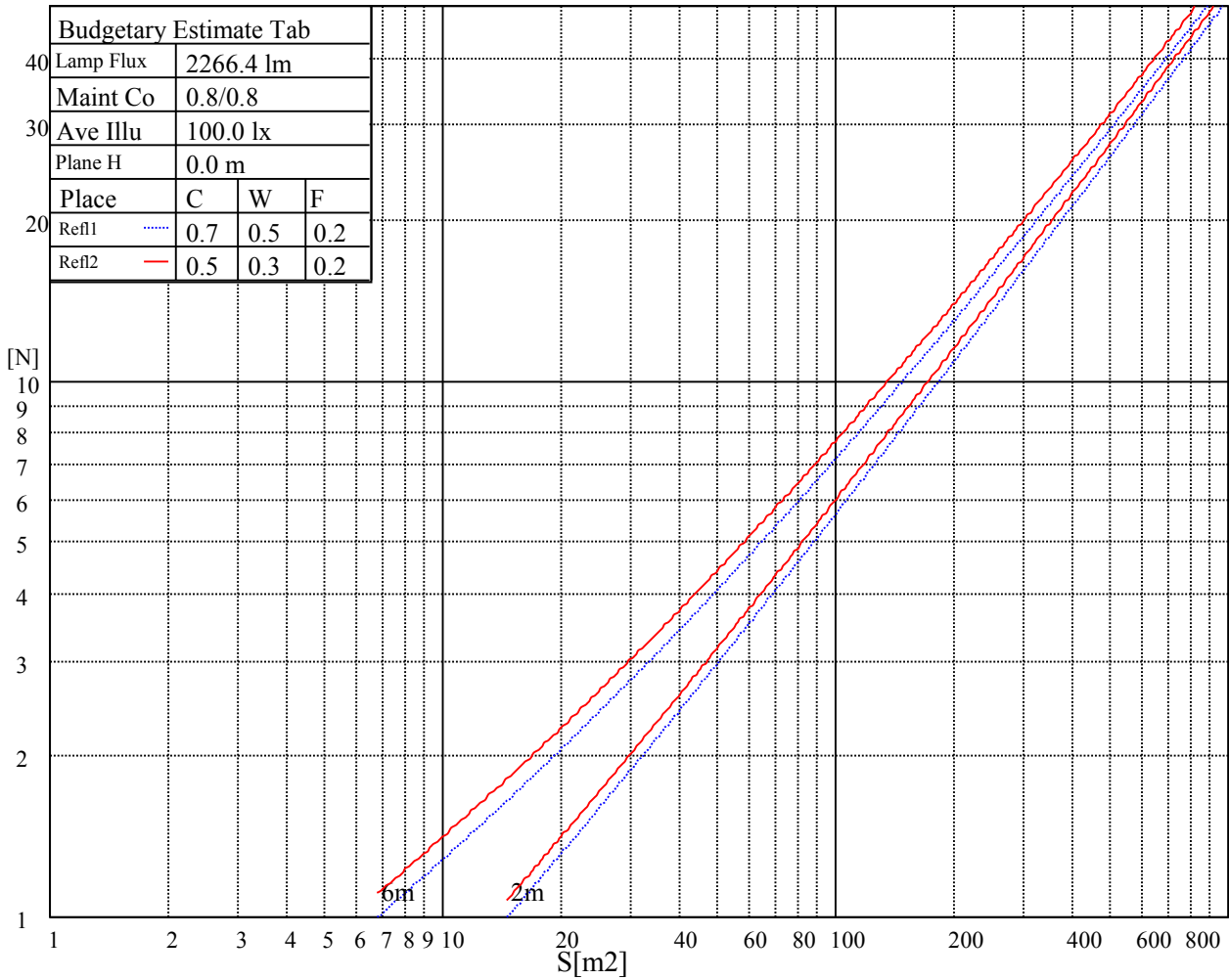
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1240	1207	1122	1881	1706	1690	4571	4357	4577

Glare Table

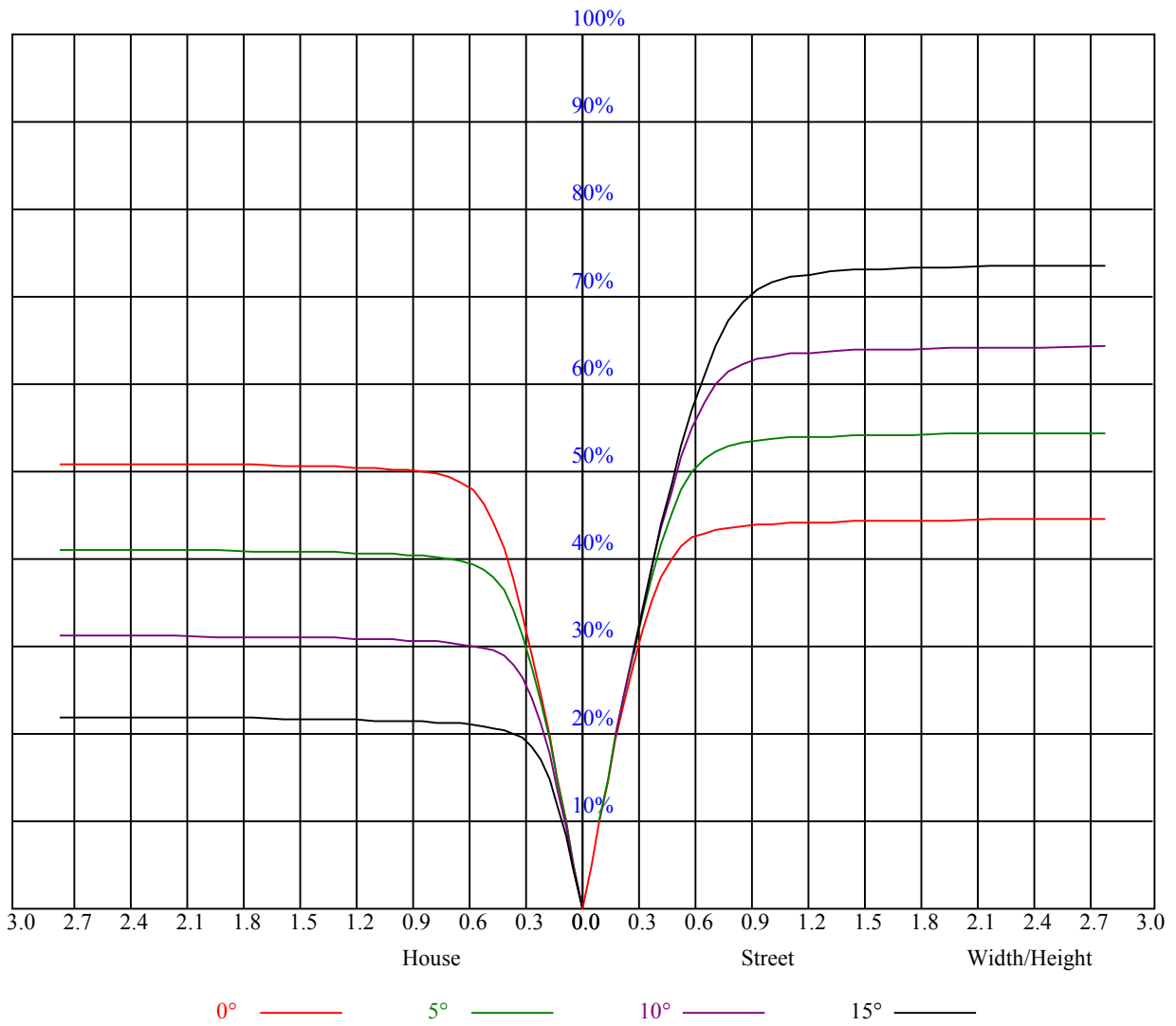
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.15	1.15	1.15	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	1.07	1.05	1.02	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.93	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.85
3	0.94	0.90	0.86	0.93	0.89	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.80
4	0.89	0.84	0.80	0.88	0.83	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.75
5	0.84	0.79	0.75	0.83	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.71
6	0.79	0.74	0.70	0.79	0.74	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.67
7	0.75	0.70	0.66	0.75	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
8	0.71	0.66	0.63	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.60
9	0.68	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.57
10	0.65	0.60	0.56	0.64	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55



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	3016.33	3013.94	3012.14	3027.68	3037.24	3040.83	3051.58	3054.57	3058.75
22.5	3020.51	3024.09	3030.07	3034.25	3037.84	3043.22	3046.20	3042.62	3036.04
45.0	3019.91	3026.48	3022.90	3030.67	3031.86	3030.67	3031.26	3025.29	3020.51
67.5	3014.53	3013.34	3010.95	3010.35	3005.57	3003.18	2996.01	2987.05	2975.69
90.0	3018.12	3013.94	3005.57	2997.80	2985.85	2976.29	2960.76	2941.64	2909.97
112.5	3014.53	3010.95	3009.16	3002.58	2996.61	2990.04	2981.67	2969.72	2955.38
135.0	3016.92	3018.12	3014.53	3018.72	3014.53	3016.92	3013.34	3011.55	3004.97
157.5	3011.55	3015.73	3020.51	3025.29	3030.67	3030.67	3036.04	3030.67	3024.69
180.0	3016.33	3013.94	3019.31	3026.48	3031.26	3035.45	3031.26	3021.11	3011.55
202.5	3020.51	3019.31	3025.29	3028.87	3036.04	3042.02	3049.19	3051.58	3047.40
225.0	3019.91	3022.30	3020.51	3028.28	3029.47	3031.26	3031.86	3035.45	3033.65
247.5	3014.53	3017.52	3015.73	3016.92	3017.52	3014.53	3010.95	3006.77	3001.99
270.0	3018.12	3022.90	3022.90	3025.89	3024.09	3019.31	3012.74	3007.36	2993.62
292.5	3014.53	3020.51	3021.70	3019.91	3021.70	3021.11	3018.72	3012.74	3004.97
315.0	3016.92	3018.72	3021.70	3027.68	3029.47	3034.85	3035.45	3040.83	3039.03
337.5	3011.55	3017.52	3020.51	3028.87	3034.85	3039.63	3046.80	3051.58	3053.97
360.0	3016.33	3013.94	3012.14	3027.68	3037.24	3040.83	3051.58	3054.57	3058.75
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3053.97	3044.41	3027.08	3006.77	2973.30	2936.26	2893.83	2847.23	2786.88
22.5	3022.30	3006.17	2981.67	2948.81	2915.94	2869.93	2826.31	2781.50	2708.00
45.0	3011.55	2997.80	2978.08	2951.79	2920.72	2886.66	2836.47	2792.85	2731.31
67.5	2958.37	2938.05	2906.98	2867.54	2824.52	2781.50	2727.72	2682.91	2630.92
90.0	2881.88	2834.08	2776.12	2729.51	2668.56	2603.43	2554.44	2486.92	2367.41
112.5	2932.67	2906.98	2871.72	2823.32	2775.52	2727.12	2672.15	2618.37	2557.42
135.0	2991.83	2972.71	2950.00	2927.29	2895.03	2844.24	2802.41	2754.61	2694.86
157.5	3016.33	3001.39	2978.08	2957.17	2919.53	2886.07	2852.60	2807.79	2759.39
180.0	2994.22	2964.34	2932.07	2900.41	2852.01	2812.57	2764.17	2690.67	2611.80
202.5	3039.63	3028.28	3010.95	2990.63	2960.16	2920.72	2889.65	2847.23	2791.66
225.0	3030.07	3024.69	3016.33	3002.58	2982.86	2963.15	2938.05	2903.99	2862.16
247.5	2991.83	2972.71	2956.57	2938.65	2899.21	2860.37	2822.73	2767.75	2721.74
270.0	2977.49	2960.76	2932.07	2899.21	2853.20	2797.03	2745.05	2687.69	2624.94
292.5	2994.82	2975.10	2955.98	2930.28	2890.85	2844.24	2798.23	2745.05	2696.65
315.0	3039.03	3040.23	3030.07	3018.12	3001.39	2978.08	2948.81	2910.56	2864.55
337.5	3050.39	3039.63	3027.08	3009.75	2984.06	2955.38	2918.33	2881.28	2832.88
360.0	3053.97	3044.41	3027.08	3006.77	2973.30	2936.26	2893.83	2847.23	2786.88
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2712.18	2629.73	2513.80	2370.40	2222.21	2054.30	1831.43	1645.59	1457.97
22.5	2630.92	2538.30	2384.74	2255.07	2094.94	1895.96	1711.32	1527.28	1325.92
45.0	2665.58	2602.24	2536.51	2445.69	2362.63	2261.65	2094.94	1970.65	1818.28
67.5	2561.01	2483.33	2372.19	2243.72	2100.31	1952.13	1758.53	1590.62	1423.91
90.0	2274.79	2142.74	1976.63	1794.98	1625.28	1434.67	1174.98	1070.35	907.29
112.5	2473.77	2385.93	2249.70	2103.90	1949.74	1769.88	1584.65	1420.33	1253.02
135.0	2631.52	2578.34	2509.62	2430.15	2347.09	2238.34	2124.81	1971.25	1808.12
157.5	2702.03	2620.16	2512.01	2414.02	2261.05	2115.85	1929.42	1742.99	1573.29
180.0	2513.21	2365.62	2238.34	2055.50	1836.80	1678.46	1471.12	1172.95	1083.50
202.5	2743.85	2680.52	2584.91	2474.37	2351.28	2170.23	2006.50	1833.22	1611.54
225.0	2821.53	2765.96	2712.78	2652.43	2584.91	2517.39	2434.33	2338.13	2237.15
247.5	2676.33	2617.77	2566.39	2481.54	2365.02	2261.05	2109.87	1924.04	1787.81
270.0	2570.57	2506.63	2404.46	2302.88	2173.21	2007.10	1830.23	1659.34	1464.54
292.5	2647.65	2582.52	2504.84	2405.05	2276.59	2140.35	1989.17	1788.40	1622.89
315.0	2817.35	2764.77	2697.84	2638.09	2579.53	2497.67	2425.37	2334.55	2217.43
337.5	2779.70	2718.16	2639.88	2521.57	2408.04	2273.00	2081.79	1914.48	1742.39
360.0	2712.18	2629.73	2513.80	2370.40	2222.21	2054.30	1831.43	1645.59	1457.97



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	1242.26	1034.32	859.84	685.37	539.57	437.39	343.58	308.32	225.99
22.5	1156.82	961.42	783.36	642.34	509.69	398.55	314.30	305.34	212.60
45.0	1626.47	1421.52	1192.37	1063.00	879.80	716.14	584.92	455.14	344.24
67.5	1233.30	1053.44	899.28	738.55	598.13	488.78	386.00	310.12	264.29
90.0	736.16	583.97	472.94	376.56	309.34	248.27	208.84	184.16	160.50
112.5	1046.27	886.14	738.55	607.69	476.83	388.99	310.72	239.31	206.27
135.0	1651.57	1480.08	1189.38	1083.32	919.78	736.39	604.52	486.87	372.32
157.5	1400.61	1180.72	1019.98	864.62	686.56	559.88	454.12	353.14	307.73
180.0	910.16	710.46	571.18	461.47	372.80	286.87	236.80	206.51	177.76
202.5	1454.98	1186.21	1056.19	895.16	744.16	579.78	471.63	379.79	290.28
225.0	2118.24	1944.36	1793.78	1627.67	1409.57	1235.69	1068.98	890.32	730.18
247.5	1627.67	1398.22	1191.29	1092.16	939.49	761.67	634.04	519.61	397.78
270.0	1285.88	1091.09	901.67	745.12	592.15	469.06	383.61	313.11	242.60
292.5	1451.40	1191.59	1067.13	908.36	725.76	598.01	488.36	374.89	310.54
315.0	2074.62	1929.42	1751.96	1581.66	1386.86	1193.86	1026.55	851.48	691.34
337.5	1526.09	1294.85	1178.98	1017.41	845.62	691.76	568.49	448.33	348.48
360.0	1242.26	1034.32	859.84	685.37	539.57	437.39	343.58	308.32	225.99
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	199.40	172.33	151.35	131.16	114.07	101.10	86.94	77.26	68.72
22.5	181.95	159.54	139.76	119.63	104.81	92.62	78.40	69.25	61.19
45.0	263.21	188.28	136.18	96.38	73.14	60.17	49.95	40.57	35.13
67.5	196.71	171.61	148.72	124.05	106.84	92.38	76.90	66.80	58.50
90.0	139.34	122.97	108.57	93.81	83.59	74.63	65.79	58.32	52.40
112.5	182.01	157.15	135.70	119.69	103.25	91.72	79.23	69.49	61.90
135.0	276.66	207.76	146.39	103.85	80.61	64.65	53.90	44.28	37.17
157.5	221.21	186.79	160.32	137.07	117.77	99.37	84.31	73.56	63.34
180.0	157.27	138.99	120.76	105.52	93.93	82.40	73.38	64.53	57.06
202.5	238.18	205.19	178.90	155.36	136.77	121.00	105.58	92.38	82.22
225.0	599.92	467.87	365.09	308.32	195.93	136.71	98.59	77.62	62.44
247.5	317.05	253.29	205.25	175.37	151.89	128.89	111.44	94.53	80.73
270.0	211.53	186.37	161.21	139.58	122.85	107.32	94.05	84.01	73.85
292.5	246.06	205.13	183.74	161.51	134.50	120.34	105.88	89.39	80.25
315.0	565.86	449.34	325.65	304.14	176.69	133.91	89.63	72.18	61.25
337.5	277.01	220.01	188.22	161.03	136.89	118.85	103.49	87.06	75.95
360.0	199.40	172.33	151.35	131.16	114.07	101.10	86.94	77.26	68.72
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	61.25	53.24	47.80	43.08	38.36	34.42	31.37	28.50	25.99
22.5	53.84	47.03	42.01	37.17	33.46	29.88	26.95	24.62	22.47
45.0	31.07	27.13	24.74	22.71	20.79	19.30	18.16	17.09	16.31
67.5	51.33	43.62	38.54	33.70	30.06	26.65	24.14	21.81	19.84
90.0	46.61	41.59	37.70	34.00	31.13	28.32	25.87	23.96	22.23
112.5	54.79	47.92	42.72	38.48	33.70	30.47	27.67	24.98	22.77
135.0	32.45	28.92	25.45	23.30	21.51	19.60	18.40	17.39	16.49
157.5	55.63	48.16	41.95	37.35	33.82	29.22	26.41	24.44	21.81
180.0	51.15	45.47	40.57	36.93	33.58	30.00	27.49	25.28	23.18
202.5	72.12	63.16	56.35	49.59	44.46	39.56	35.19	31.97	29.16
225.0	51.99	42.13	36.33	31.85	28.32	24.80	22.65	20.79	19.12
247.5	70.27	60.23	51.75	45.47	40.09	34.42	30.65	27.61	24.74
270.0	65.97	58.50	51.87	46.61	42.13	37.17	33.82	30.89	27.84
292.5	71.05	61.96	54.32	48.28	42.54	37.47	33.76	30.18	27.43
315.0	47.98	40.75	35.73	30.53	27.01	24.74	22.23	20.61	19.24
337.5	66.33	56.17	49.30	43.44	37.94	33.40	30.00	26.89	24.56
360.0	61.25	53.24	47.80	43.08	38.36	34.42	31.37	28.50	25.99

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	24.08	22.29	20.85	19.48	18.34	17.39	16.49	15.77	15.18
22.5	20.67	19.30	18.34	17.03	16.19	15.60	14.76	14.28	13.92
45.0	15.54	14.94	14.46	14.04	13.62	13.32	13.03	12.79	12.55
67.5	18.46	17.15	16.19	15.30	14.58	14.04	13.50	13.09	12.73
90.0	20.38	19.12	18.05	16.91	16.07	15.42	14.70	14.10	13.68
112.5	21.03	19.36	17.99	16.97	15.95	15.18	14.46	13.86	13.44
135.0	15.60	15.00	14.52	14.04	13.62	13.27	12.97	12.67	12.49
157.5	20.26	19.12	17.81	16.79	16.13	15.30	14.64	14.22	13.74
180.0	21.39	20.02	18.70	17.57	16.73	15.89	15.30	14.64	14.16
202.5	26.11	24.08	22.23	20.32	19.00	17.93	16.85	15.95	15.24
225.0	17.93	16.97	16.07	15.30	14.76	14.22	13.74	13.32	12.97
247.5	22.35	20.61	18.94	17.57	16.55	15.54	14.82	14.22	13.62
270.0	25.75	23.84	22.23	20.38	19.06	18.05	16.79	15.95	15.24
292.5	24.86	22.65	20.91	19.42	17.87	16.79	15.89	15.00	14.34
315.0	17.93	17.03	16.25	15.48	14.88	14.40	13.86	13.56	13.21
337.5	22.35	20.50	19.12	17.81	16.79	16.01	15.30	14.64	14.16
360.0	24.08	22.29	20.85	19.48	18.34	17.39	16.49	15.77	15.18
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.76	14.16	13.92	13.74	13.56	13.44	13.32	13.38	13.50
22.5	13.56	13.27	13.15	12.97	12.91	12.91	12.85	12.91	12.97
45.0	12.37	12.19	12.01	11.95	11.77	11.65	11.59	11.59	11.59
67.5	12.55	12.19	12.01	11.89	11.71	11.53	11.41	11.29	11.17
90.0	13.21	12.85	12.61	12.37	12.13	11.95	11.77	11.65	11.59
112.5	13.09	12.67	12.43	12.19	11.89	11.77	11.59	11.47	11.35
135.0	12.25	12.13	11.95	11.77	11.71	11.59	11.47	11.41	11.29
157.5	13.38	13.09	12.79	12.55	12.37	12.13	11.95	11.83	11.65
180.0	13.74	13.32	12.97	12.73	12.49	12.25	12.07	11.89	11.71
202.5	14.58	14.04	13.68	13.27	12.91	12.61	12.37	12.13	11.95
225.0	12.73	12.43	12.25	12.01	11.95	11.71	11.59	11.47	11.41
247.5	13.21	12.85	12.49	12.25	12.01	11.77	11.59	11.47	11.29
270.0	14.58	13.98	13.56	13.09	12.79	12.43	12.13	11.95	11.71
292.5	13.80	13.32	12.91	12.55	12.31	12.01	11.83	11.59	11.47
315.0	12.97	12.67	12.43	12.25	12.07	11.95	11.77	11.65	11.59
337.5	13.80	13.32	13.09	12.85	12.73	12.61	12.61	12.55	12.61
360.0	14.76	14.16	13.92	13.74	13.56	13.44	13.32	13.38	13.50
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.56	13.38	13.62	13.74	13.62	13.86	12.67	12.67	12.55
22.5	13.15	13.21	13.27	12.91	11.71	10.99	10.82	10.70	10.64
45.0	11.59	11.53	11.65	11.53	11.59	11.35	11.23	11.11	10.93
67.5	11.17	11.17	11.17	11.17	11.29	11.29	11.29	10.99	10.70
90.0	11.53	11.59	11.53	11.59	11.71	11.71	11.71	11.65	11.11
112.5	11.35	11.35	11.35	11.41	11.53	11.53	11.65	11.41	11.05
135.0	11.23	11.17	11.11	10.99	10.93	10.82	10.76	10.70	10.64
157.5	11.53	11.41	11.29	11.17	11.11	11.11	11.11	11.17	11.23
180.0	11.59	11.47	11.29	11.23	11.23	11.29	11.35	11.41	11.47
202.5	11.77	11.59	11.47	11.29	11.17	11.05	10.99	11.05	11.05
225.0	11.29	11.23	11.11	11.05	10.99	10.88	10.76	10.70	10.64
247.5	11.17	11.05	10.99	10.88	10.82	10.70	10.64	10.52	10.46
270.0	11.53	11.35	11.23	11.05	10.93	10.82	10.70	10.58	10.52
292.5	11.29	11.17	11.05	10.93	10.88	10.82	10.70	10.64	10.52
315.0	11.41	11.41	11.35	11.29	11.29	11.23	11.17	11.11	10.99
337.5	12.73	12.79	12.73	12.91	12.85	13.09	13.09	12.97	12.91
360.0	13.56	13.38	13.62	13.74	13.62	13.86	12.67	12.67	12.55

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	12.43	12.43	11.95	10.64	10.46	10.04	9.98	9.86	9.74
22.5	10.52	10.46	10.40	10.34	9.92	9.86	9.74	9.74	9.62
45.0	10.70	10.64	10.58	10.16	9.86	9.80	9.74	9.74	9.56
67.5	10.40	10.34	10.28	10.28	9.74	9.68	9.62	9.56	9.50
90.0	10.28	10.22	10.16	10.04	9.56	9.38	9.38	9.32	9.32
112.5	10.46	10.28	10.22	10.16	10.16	9.74	9.68	9.50	9.50
135.0	10.58	10.46	10.40	10.40	10.28	9.86	9.80	9.68	9.56
157.5	11.17	10.82	10.40	10.34	10.22	9.98	9.86	9.80	9.56
180.0	11.41	10.93	10.34	10.22	9.98	9.86	9.68	9.62	9.44
202.5	11.17	11.05	10.76	10.40	10.34	10.22	9.98	9.86	9.74
225.0	10.58	10.52	10.46	10.34	10.28	10.22	10.04	9.98	9.86
247.5	10.40	10.34	10.22	10.10	10.04	9.92	9.86	9.80	9.74
270.0	10.40	10.28	10.16	10.10	9.92	9.86	9.68	9.62	9.50
292.5	10.46	10.40	10.28	10.22	10.16	9.98	9.86	9.80	9.80
315.0	10.88	10.76	10.64	10.58	10.52	10.16	10.10	9.98	9.92
337.5	12.73	12.31	11.41	10.64	10.52	10.10	9.98	9.86	9.80
360.0	12.43	12.43	11.95	10.64	10.46	10.04	9.98	9.86	9.74
C/γ(°)	90.0								
0.0	9.68								
22.5	9.50								
45.0	9.56								
67.5	9.50								
90.0	9.32								
112.5	9.50								
135.0	9.62								
157.5	9.50								
180.0	9.32								
202.5	9.68								
225.0	9.80								
247.5	9.68								
270.0	9.44								
292.5	9.62								
315.0	9.80								
337.5	9.80								
360.0	9.68								