



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 2-2322-M	
Luminaire: 92.70.131.00	
Report No: 210722-B002	Voltage(V): 35.1500
Test No: 210722-C002	Current(A): 0.5110
LampCAT: CITIZEN CLU038 LES14.5	Power (W): 17.9610
Lamp flux(lm): 2340.5	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 2252.52
Efficiency(%): 96.24%
Lumens(lm)/Power(W): 125.41
Central intensity(cd): 2234.250
Maximum intensity(cd): 3300.188
Angle of maximum intensity: C=0.0 γ =20.0
Beam Angle(50%Imax): [C0/180]Total=66.6
[C90/270]Total=40.3
Field angle(10%Imax): [C0/180]Total=79.1
[C90/270]Total=65.3
Maximum s/h(1/2): C0_180=1.29 C90_270=0.64
Maximum s/h(1/4): C0_180=1.04 C90_270=0.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.258%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2283.469	0.000	0	.000%	.000%
1.0	2286.105	2.186	2.186	.093%	.097%
2.0	2300.063	6.583	8.769	.281%	.389%
3.0	2318.168	11.045	19.814	.472%	.880%
4.0	2333.391	15.570	35.385	.665%	1.571%
5.0	2348.824	20.143	55.527	.861%	2.465%
6.0	2362.008	24.757	80.284	1.058%	3.564%
7.0	2377.090	29.415	109.699	1.257%	4.870%
8.0	2388.902	34.109	143.809	1.457%	6.384%
9.0	2399.801	38.810	182.618	1.658%	8.107%
10.0	2404.301	43.475	226.094	1.858%	10.037%
11.0	2399.203	47.997	274.091	2.051%	12.168%
12.0	2384.719	52.295	326.386	2.234%	14.490%
13.0	2360.531	56.314	382.7	2.406%	16.990%
14.0	2332.195	60.066	442.766	2.566%	19.657%
15.0	2299.887	63.591	506.358	2.717%	22.480%
16.0	2263.008	66.859	573.217	2.857%	25.448%
17.0	2219.273	69.801	643.018	2.982%	28.547%
18.0	2173.641	72.430	715.448	3.095%	31.762%
19.0	2126.672	74.817	790.264	3.197%	35.084%
20.0	2070.703	76.824	867.088	3.282%	38.494%
21.0	2011.686	78.390	945.478	3.349%	41.974%
22.0	1956.983	79.752	1025.23	3.407%	45.515%
23.0	1894.714	80.819	1106.049	3.453%	49.103%
24.0	1825.376	81.335	1187.384	3.475%	52.714%
25.0	1751.136	81.322	1268.706	3.475%	56.324%
26.0	1673.230	80.833	1349.538	3.454%	59.913%
27.0	1588.349	79.795	1429.334	3.409%	63.455%
28.0	1492.182	77.993	1507.326	3.332%	66.917%
29.0	1392.789	75.479	1582.805	3.225%	70.268%
30.0	1293.711	72.535	1655.34	3.099%	73.489%
31.0	1187.768	69.056	1724.396	2.950%	76.554%
32.0	1083.059	65.057	1789.453	2.780%	79.442%
33.0	974.549	60.618	1850.07	2.590%	82.134%
34.0	865.136	55.674	1905.745	2.379%	84.605%
35.0	751.324	50.201	1955.946	2.145%	86.834%
36.0	640.287	44.309	2000.255	1.893%	88.801%
37.0	548.888	38.784	2039.039	1.657%	90.523%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	451.916	33.405	2072.445	1.427%	92.006%
39.0	370.849	28.083	2100.528	1.200%	93.253%
40.0	292.004	23.118	2123.646	.988%	94.279%
41.0	230.569	18.609	2142.255	.795%	95.105%
42.0	167.516	14.463	2156.718	.618%	95.747%
43.0	123.015	10.762	2167.48	.460%	96.225%
44.0	92.507	8.134	2175.614	.348%	96.586%
45.0	63.250	5.986	2181.6	.256%	96.852%
46.0	48.322	4.363	2185.963	.186%	97.045%
47.0	39.568	3.496	2189.459	.149%	97.201%
48.0	34.080	2.977	2192.436	.127%	97.333%
49.0	29.148	2.597	2195.033	.111%	97.448%
50.0	24.803	2.249	2197.282	.096%	97.548%
51.0	22.338	1.994	2199.277	.085%	97.636%
52.0	20.109	1.821	2201.098	.078%	97.717%
53.0	18.844	1.694	2202.793	.072%	97.793%
54.0	17.859	1.618	2204.41	.069%	97.864%
55.0	17.146	1.563	2205.973	.067%	97.934%
56.0	16.516	1.521	2207.494	.065%	98.001%
57.0	15.943	1.484	2208.978	.063%	98.067%
58.0	15.416	1.450	2210.428	.062%	98.132%
59.0	15.096	1.426	2211.855	.061%	98.195%
60.0	14.836	1.414	2213.269	.060%	98.258%
61.0	14.544	1.402	2214.671	.060%	98.320%
62.0	14.323	1.391	2216.062	.059%	98.382%
63.0	14.295	1.392	2217.454	.059%	98.443%
64.0	14.210	1.399	2218.853	.060%	98.506%
65.0	14.147	1.403	2220.256	.060%	98.568%
66.0	13.904	1.400	2221.655	.060%	98.630%
67.0	14.006	1.403	2223.059	.060%	98.692%
68.0	13.954	1.416	2224.475	.061%	98.755%
69.0	13.785	1.415	2225.89	.060%	98.818%
70.0	13.704	1.412	2227.302	.060%	98.881%
71.0	13.648	1.414	2228.716	.060%	98.943%
72.0	13.623	1.418	2230.134	.061%	99.006%
73.0	13.514	1.419	2231.553	.061%	99.069%
74.0	13.349	1.412	2232.965	.060%	99.132%
75.0	13.247	1.405	2234.37	.060%	99.194%

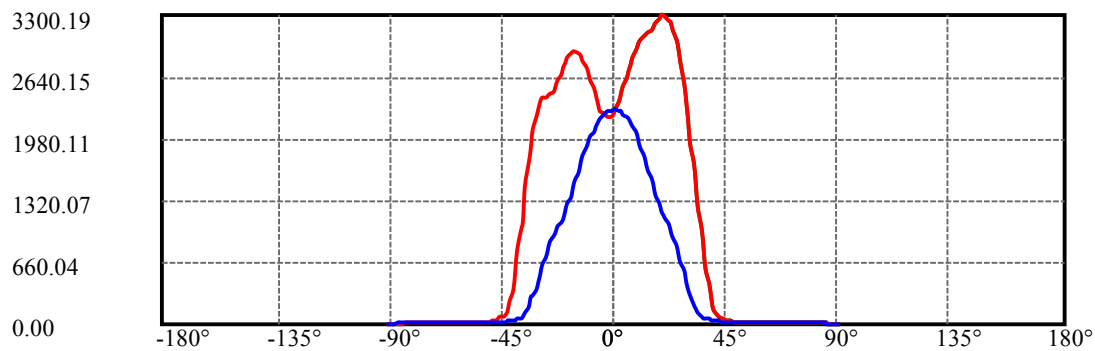
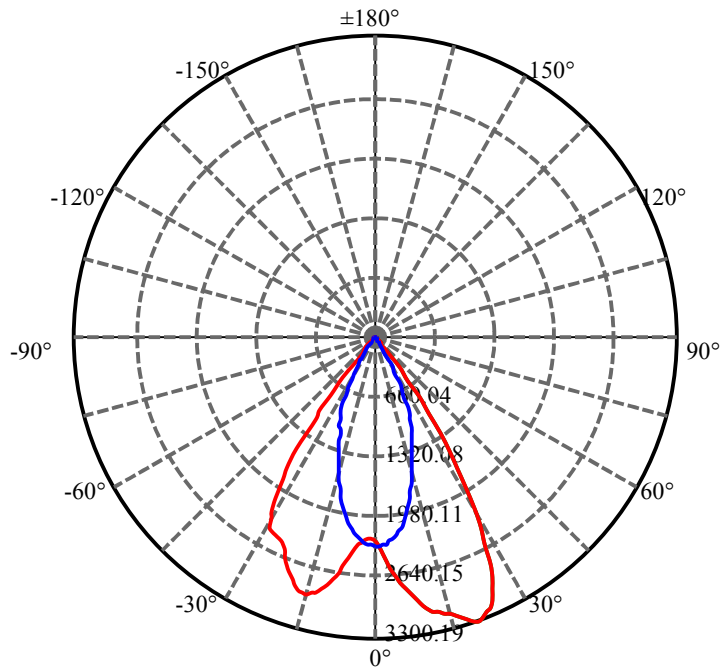
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.152	1.401	2235.772	.060%	99.257%
77.0	12.867	1.387	2237.159	.059%	99.318%
78.0	12.586	1.363	2238.521	.058%	99.379%
79.0	12.255	1.335	2239.856	.057%	99.438%
80.0	11.925	1.304	2241.16	.056%	99.496%
81.0	11.644	1.275	2242.434	.054%	99.552%
82.0	11.204	1.239	2243.673	.053%	99.607%
83.0	10.789	1.196	2244.869	.051%	99.661%
84.0	10.603	1.165	2246.034	.050%	99.712%
85.0	10.354	1.144	2247.178	.049%	99.763%
86.0	10.044	1.115	2248.293	.048%	99.813%
87.0	9.731	1.082	2249.375	.046%	99.861%
88.0	9.615	1.060	2250.435	.045%	99.908%
89.0	9.468	1.046	2251.481	.045%	99.954%
90.0	9.390	1.034	2252.515	.044%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1655.34	70.73%	73.49%
0-40	2123.65	90.73%	94.28%
0-60	2213.27	94.56%	98.26%
0-90	2251.48	96.20%	99.95%
0-120	2251.48	96.20%	99.95%
0-180	2252.52	96.24%	100.00%
60-90	39.63	1.69%	1.76%
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%
0-32.21	1802.01	76.99%	80.00%

ZONAL LUMEN SUMMARY

0-10	226.09
10-20	640.99
20-30	788.25
30-40	468.31
40-50	73.64
50-60	15.99
60-70	14.03
70-80	13.86
80-90	10.32
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

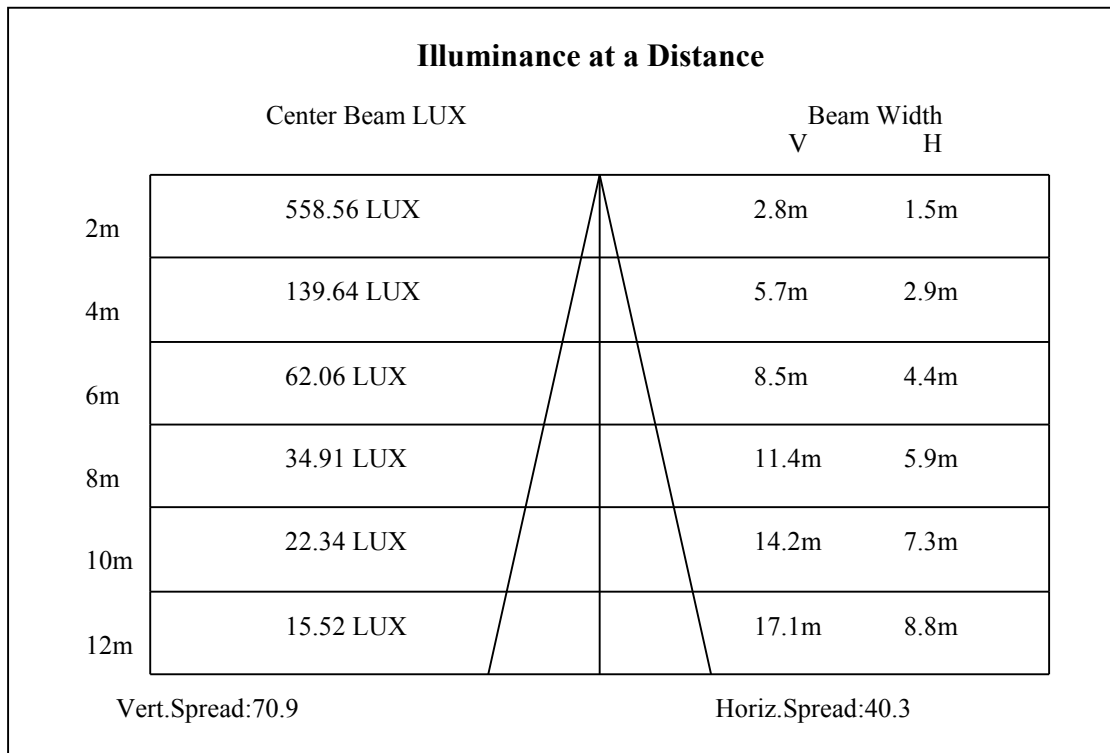
C0(Max): —————C0/C180: —————C90/C270: —————

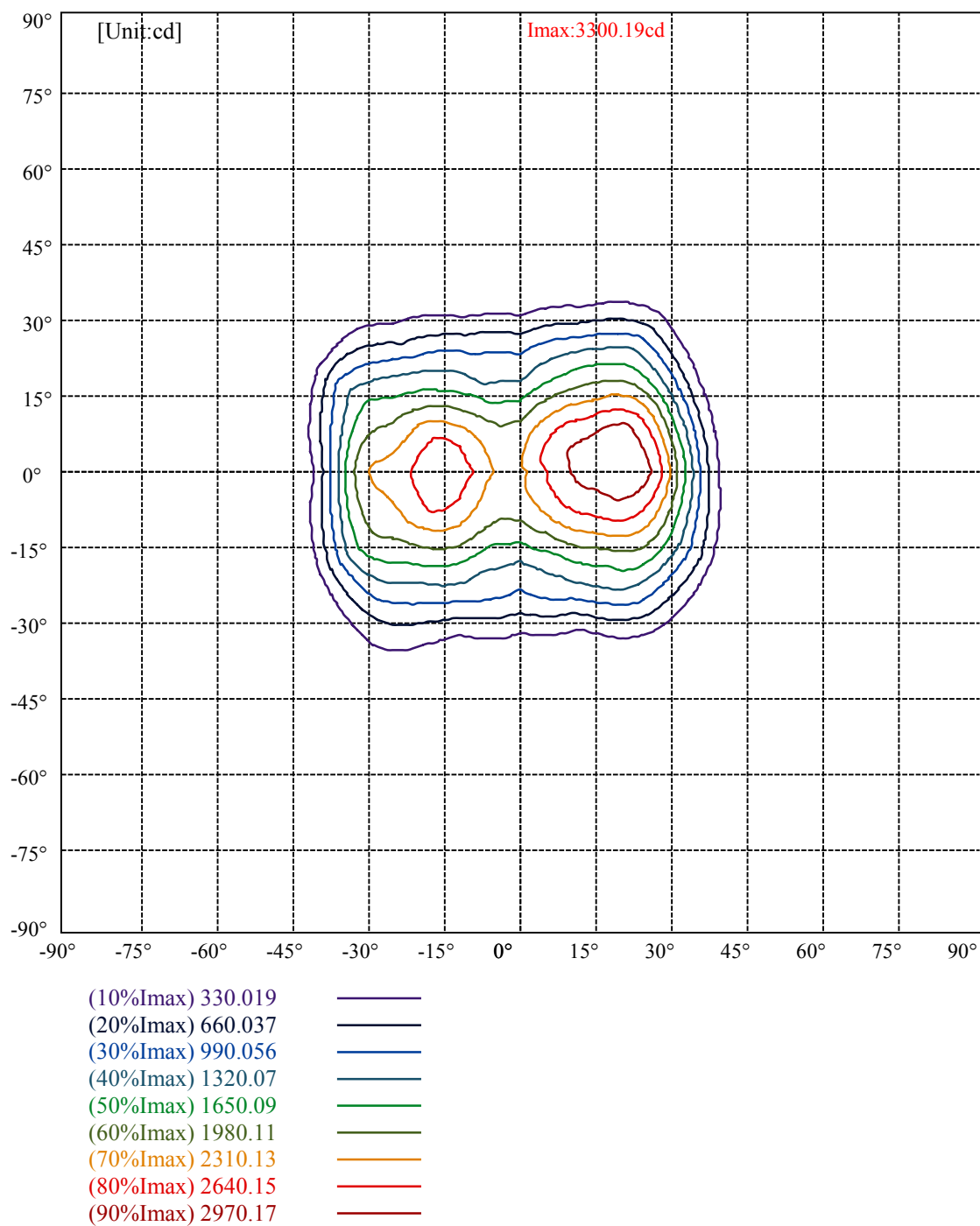
Field angle(10%Imax):C0/180Left:60.3 Right:18.7

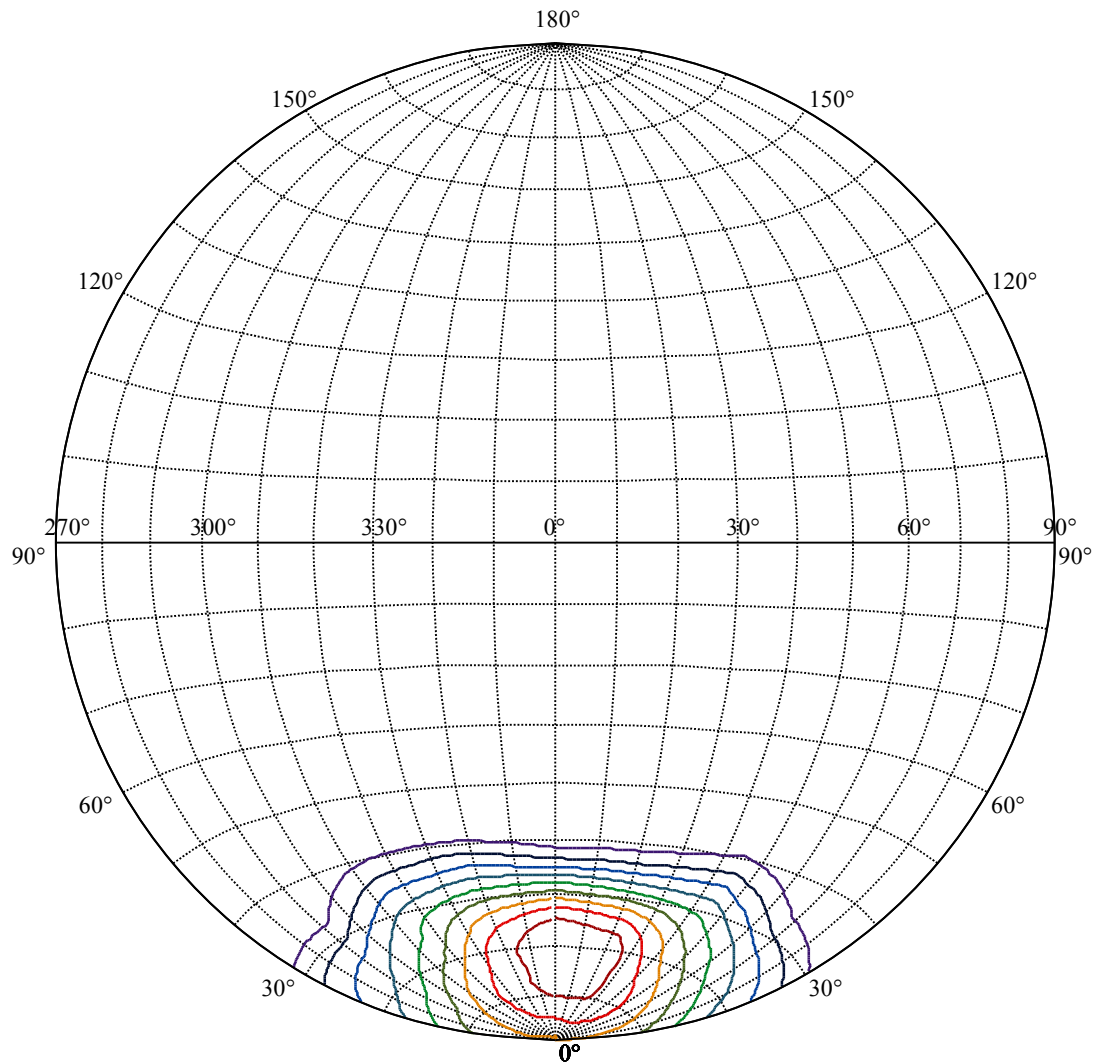
:C90/270Left:34.5 Right:30.8

Beam Angle(50%Imax):C0/180Left:54.3 Right:12.3

:C90/270Left:20.8 Right:19.5







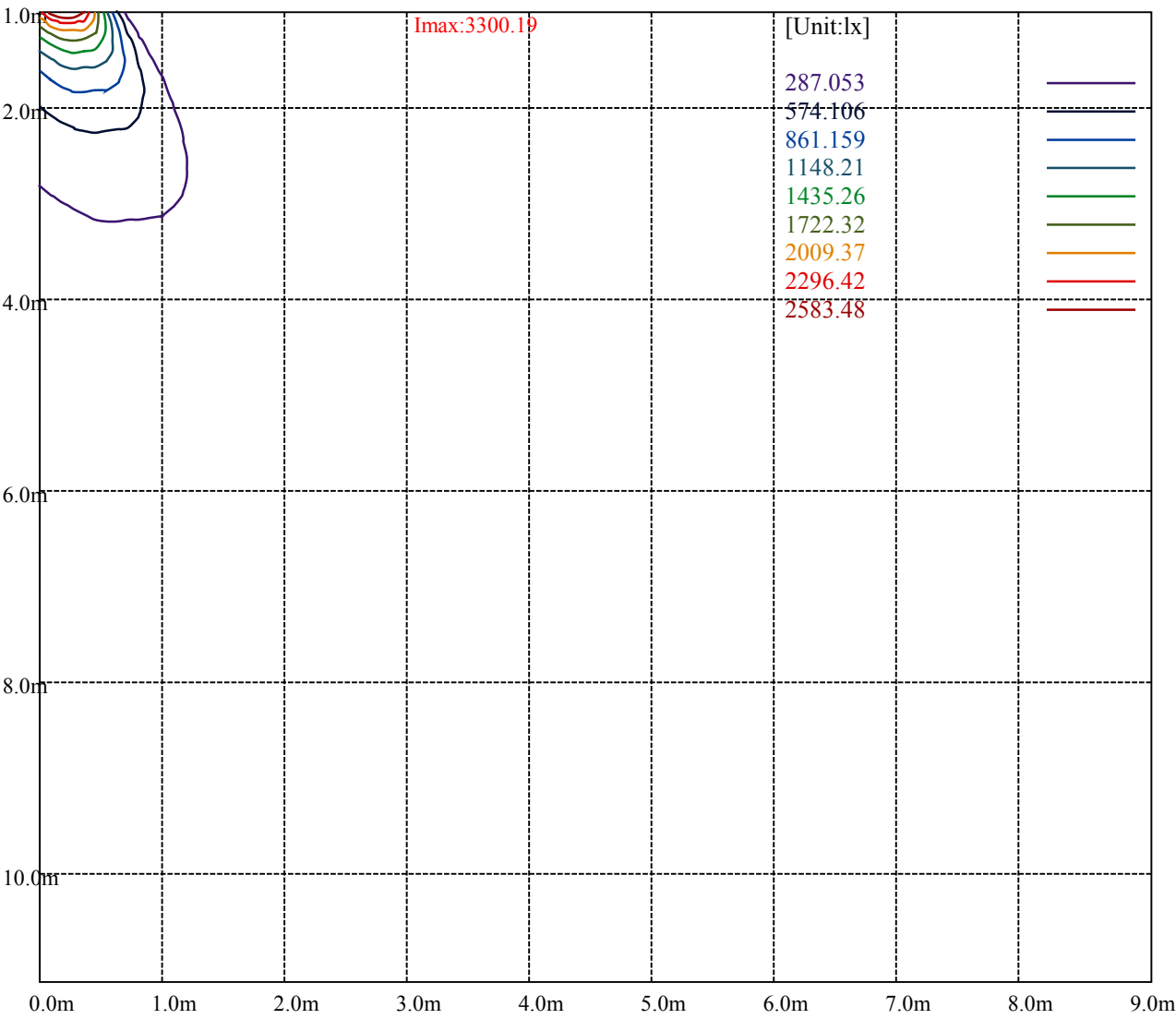
House

[Unit:cd]

Road

Imax:3300.19

(10%Imax)	330.019	—
(20%Imax)	660.037	—
(30%Imax)	990.056	—
(40%Imax)	1320.07	—
(50%Imax)	1650.09	—
(60%Imax)	1980.11	—
(70%Imax)	2310.13	—
(80%Imax)	2640.15	—
(90%Imax)	2970.17	—



Luminance Table

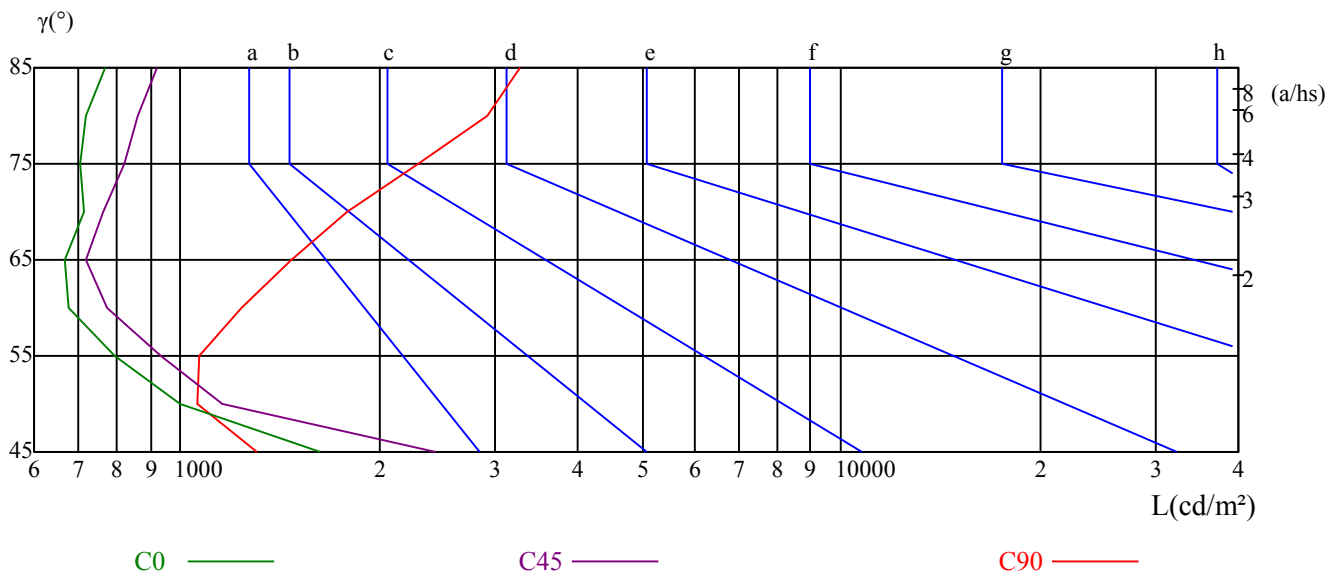
γ	45	50	55	60	65	70	75	80	85
C0	1630	997	798	679	670	716	704	721	770
C45	2430	1154	935	776	721	763	823	860	919
C90	1303	1058	1070	1240	1472	1790	2285	2918	3269

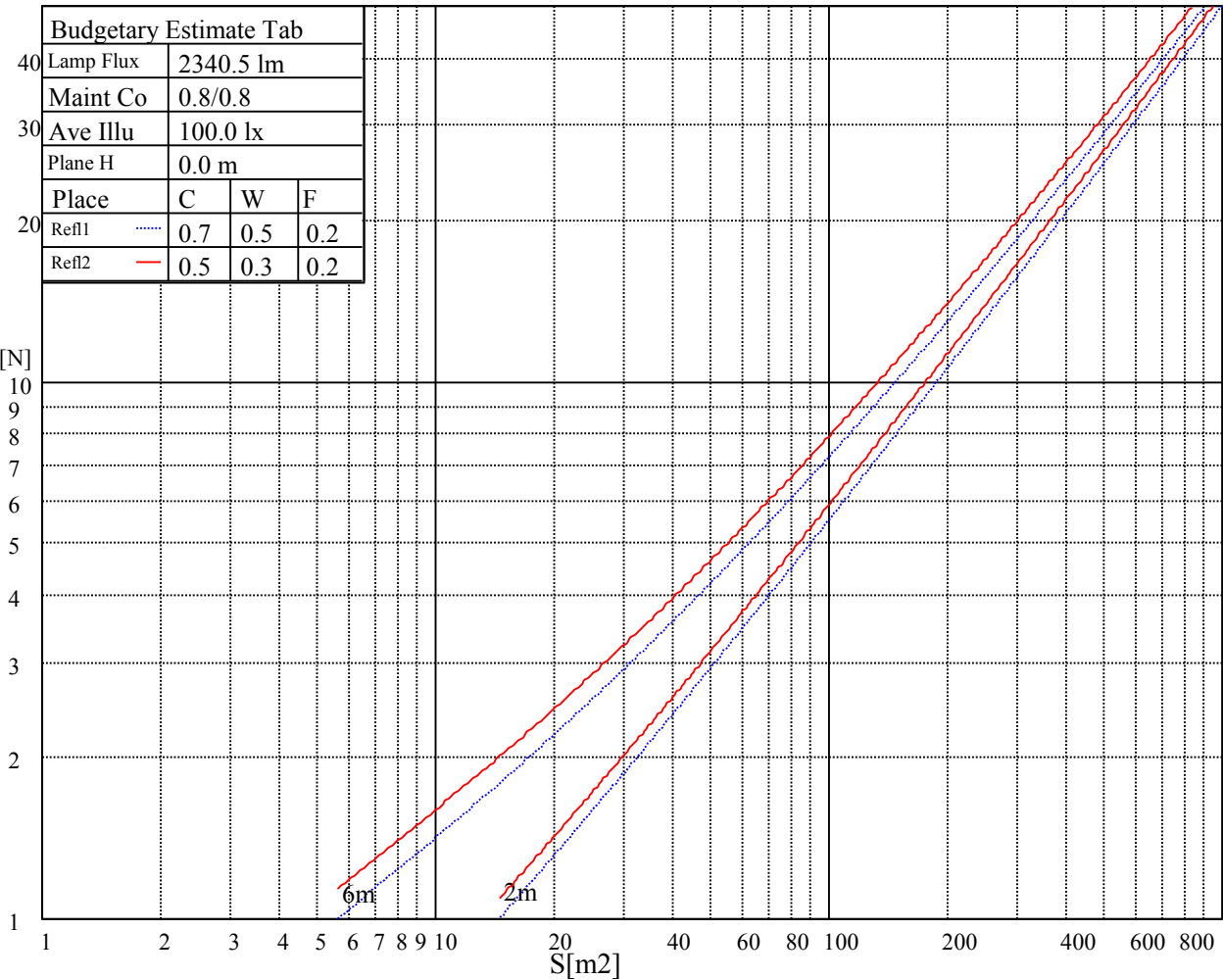
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1292	1484	1186	1851	2423	1839	4542	4818	4479

Glare Table

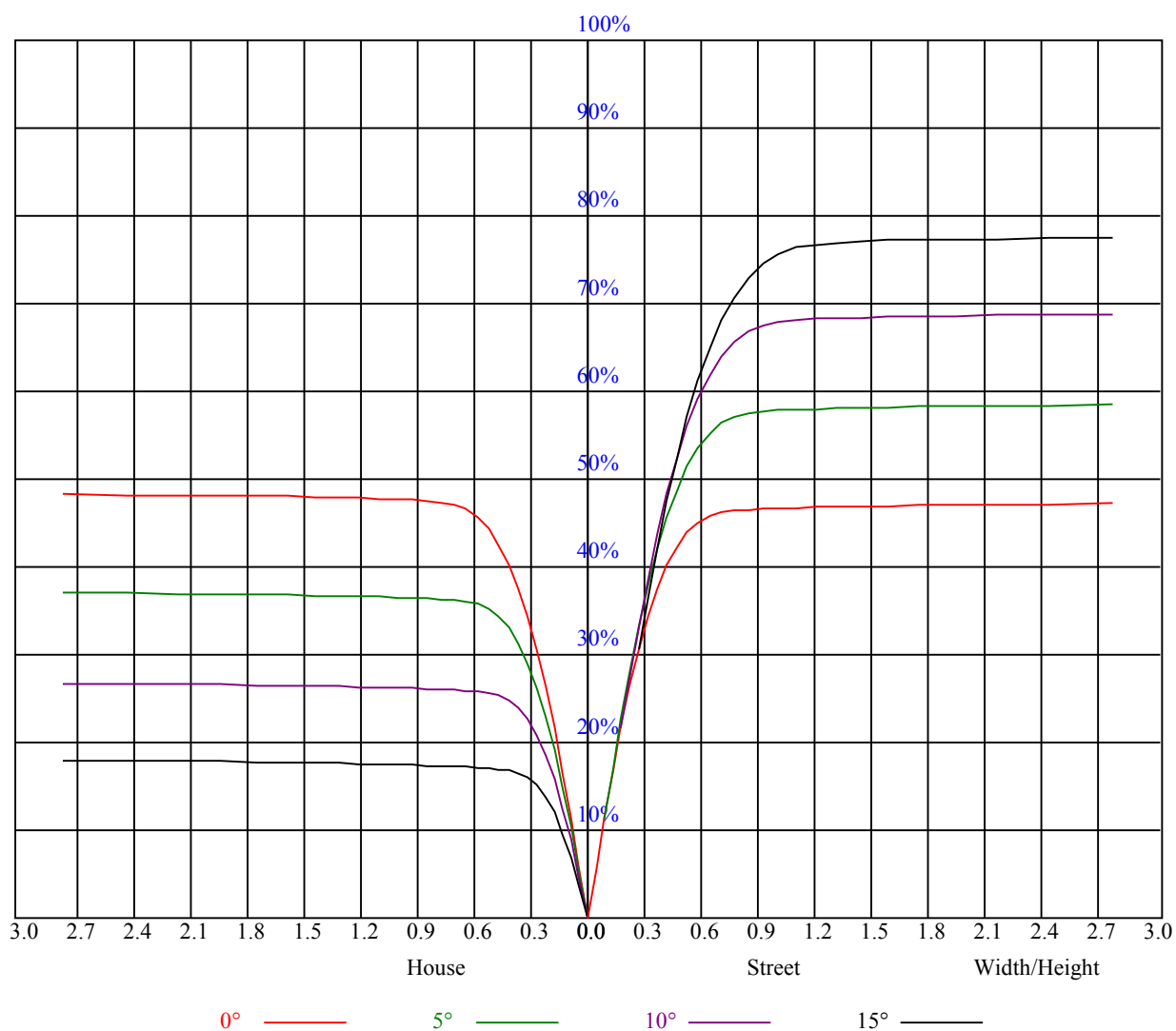
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90
2	0.99	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.83
3	0.92	0.87	0.84	0.91	0.87	0.83	0.88	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.78
4	0.86	0.81	0.77	0.85	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.72
5	0.81	0.75	0.71	0.80	0.75	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.70	0.66	0.75	0.70	0.66	0.74	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.63
7	0.72	0.66	0.62	0.71	0.65	0.62	0.70	0.65	0.61	0.69	0.64	0.61	0.67	0.64	0.61	0.59
8	0.67	0.62	0.58	0.67	0.61	0.58	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.56
9	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.52
10	0.60	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.58	0.54	0.51	0.49



Intensity data(cd)

Appendix Page: 16 Total:19

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	2234.25	2287.69	2375.44	2455.31	2550.38	2630.81	2703.94	2775.38	2840.06
22.5	2308.50	2385.56	2480.63	2554.31	2622.38	2678.63	2755.69	2817.00	2887.31
45.0	2342.81	2394.56	2454.19	2519.44	2563.31	2606.63	2633.63	2667.38	2689.31
67.5	2295.56	2325.38	2356.31	2382.19	2403.56	2413.13	2418.75	2415.38	2404.69
90.0	2286.56	2287.69	2275.88	2268.56	2243.25	2218.50	2184.19	2148.75	2103.19
112.5	2276.44	2253.94	2232.56	2209.50	2183.63	2158.88	2125.13	2094.75	2058.75
135.0	2255.06	2225.81	2211.75	2202.19	2198.81	2192.06	2188.69	2192.06	2183.63
157.5	2268.56	2235.94	2225.81	2229.75	2235.38	2256.75	2281.50	2323.69	2383.31
180.0	2234.25	2213.44	2216.81	2228.63	2251.13	2284.88	2364.75	2437.88	2520.56
202.5	2308.50	2247.19	2208.38	2205.56	2208.94	2221.31	2245.50	2279.81	2341.69
225.0	2342.81	2279.81	2233.13	2206.69	2193.19	2187.56	2176.31	2178.00	2176.31
247.5	2295.56	2260.13	2229.19	2202.19	2171.25	2148.19	2111.63	2084.63	2046.94
270.0	2286.56	2278.13	2265.19	2253.38	2234.25	2202.19	2156.06	2121.19	2059.88
292.5	2276.44	2294.44	2307.38	2319.75	2320.88	2321.44	2301.19	2288.25	2256.19
315.0	2255.06	2286.56	2333.25	2379.38	2420.44	2460.38	2491.88	2509.31	2523.94
337.5	2268.56	2321.44	2395.13	2473.88	2533.50	2599.88	2653.31	2700.00	2746.69
360.0	2234.25	2287.69	2375.44	2455.31	2550.38	2630.81	2703.94	2775.38	2840.06
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2924.44	2986.88	3032.44	3071.25	3095.44	3113.44	3133.13	3168.00	3213.56
22.5	2945.25	2980.69	3012.19	3027.94	3041.44	3047.63	3059.44	3078.00	3109.50
45.0	2707.88	2725.31	2718.00	2698.31	2666.81	2623.50	2566.69	2507.63	2447.44
67.5	2378.25	2335.50	2288.25	2228.63	2163.38	2091.94	2018.81	1949.63	1872.56
90.0	2040.75	1971.56	1883.81	1812.94	1722.94	1637.44	1554.19	1476.56	1370.81
112.5	2016.00	1956.38	1890.56	1821.38	1735.88	1671.19	1594.69	1514.81	1429.88
135.0	2192.63	2192.06	2187.56	2169.56	2142.00	2113.31	2077.31	2028.38	1981.69
157.5	2443.50	2504.25	2564.44	2607.75	2639.25	2661.19	2682.56	2674.13	2652.19
180.0	2613.38	2692.69	2756.81	2815.88	2869.31	2889.56	2910.94	2914.31	2891.81
202.5	2400.75	2477.81	2549.81	2598.19	2647.13	2683.13	2716.31	2723.06	2721.38
225.0	2179.13	2194.88	2208.94	2216.25	2223.00	2231.44	2217.94	2197.69	2167.88
247.5	2007.00	1962.56	1919.25	1865.81	1791.56	1730.81	1675.69	1611.00	1541.81
270.0	2007.00	1951.88	1878.75	1804.50	1713.38	1620.56	1541.81	1460.81	1362.38
292.5	2217.38	2174.06	2117.25	2046.38	1968.19	1896.75	1814.06	1740.94	1656.00
315.0	2528.44	2518.31	2505.94	2485.13	2458.13	2426.06	2374.88	2313.00	2252.81
337.5	2795.06	2844.00	2873.25	2885.63	2890.69	2877.19	2859.75	2850.19	2836.69
360.0	2924.44	2986.88	3032.44	3071.25	3095.44	3113.44	3133.13	3168.00	3213.56
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3257.44	3294.00	3300.19	3278.25	3244.50	3217.50	3142.69	3039.75	2922.19
22.5	3138.19	3148.31	3123.56	3083.63	3040.88	2976.19	2859.19	2750.63	2626.31
45.0	2373.75	2312.44	2256.19	2183.63	2135.25	2077.31	2010.38	1930.50	1860.75
67.5	1788.19	1721.81	1641.38	1568.81	1497.94	1441.13	1369.69	1293.19	1204.88
90.0	1292.06	1218.38	1167.19	1118.42	1066.67	991.74	920.70	844.71	739.07
112.5	1356.19	1279.69	1201.50	1159.31	1123.88	1081.69	1029.38	965.81	893.25
135.0	1916.44	1854.00	1792.13	1712.81	1638.00	1582.31	1522.13	1441.69	1382.06
157.5	2626.88	2578.50	2496.38	2415.38	2330.44	2232.00	2153.81	2076.19	1973.81
180.0	2844.56	2790.56	2739.94	2673.56	2612.81	2545.31	2482.31	2456.44	2438.44
202.5	2700.00	2668.50	2606.63	2532.38	2469.38	2394.00	2318.63	2255.06	2184.19
225.0	2128.50	2092.50	2027.81	1963.13	1902.94	1822.50	1749.94	1675.13	1591.88
247.5	1487.25	1427.06	1374.19	1321.31	1283.63	1245.38	1202.06	1118.03	1074.54
270.0	1288.13	1208.25	1130.06	1085.06	1040.63	991.13	934.88	875.25	802.69
292.5	1573.31	1500.19	1434.94	1375.31	1328.63	1281.94	1206.00	1118.70	1047.32
315.0	2178.00	2106.00	2020.50	1935.56	1866.94	1791.00	1726.31	1672.31	1636.31
337.5	2829.38	2826.56	2818.69	2780.44	2729.25	2644.31	2577.94	2504.81	2394.00
360.0	3257.44	3294.00	3300.19	3278.25	3244.50	3217.50	3142.69	3039.75	2922.19

Intensity data(cd)

Appendix Page: 17 Total:19

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2784.38	2571.19	2382.75	2173.50	1917.56	1720.69	1503.00	1260.00	1015.31
22.5	2465.44	2287.13	2096.44	1878.75	1666.69	1492.88	1272.38	1105.88	916.31
45.0	1784.25	1705.50	1628.44	1535.06	1456.31	1351.13	1197.00	1108.41	985.50
67.5	1107.56	988.88	878.63	759.94	649.69	557.44	447.75	353.25	286.31
90.0	658.52	564.98	454.84	374.63	301.67	212.96	165.49	120.04	79.99
112.5	817.31	725.06	615.94	522.56	423.00	347.06	285.19	216.73	149.01
135.0	1313.44	1221.75	1118.76	1033.82	920.70	827.04	723.66	608.57	546.69
157.5	1893.38	1844.44	1809.56	1780.31	1736.44	1695.38	1636.88	1562.06	1469.25
180.0	2420.44	2412.00	2376.00	2289.38	2222.44	2073.38	1863.56	1715.06	1484.44
202.5	2129.06	2068.88	2018.25	2003.06	1965.38	1905.19	1837.13	1742.63	1611.56
225.0	1506.94	1424.81	1343.81	1288.13	1216.13	1146.38	1086.19	1004.63	933.75
247.5	1000.97	892.58	799.14	709.31	599.06	507.04	421.99	335.19	256.50
270.0	715.50	627.75	538.88	457.31	371.81	303.75	286.31	174.99	128.87
292.5	940.22	828.62	722.19	594.56	507.54	402.02	310.84	239.18	171.51
315.0	1588.50	1541.81	1476.56	1404.00	1292.63	1208.25	1122.75	991.13	872.44
337.5	2287.69	2169.56	2024.44	1895.06	1757.25	1578.38	1432.69	1304.44	1113.75
360.0	2784.38	2571.19	2382.75	2173.50	1917.56	1720.69	1503.00	1260.00	1015.31
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	815.06	599.63	436.50	290.81	165.88	108.84	83.42	67.05	53.16
22.5	725.63	557.44	423.56	289.13	174.77	121.39	83.64	68.29	56.64
45.0	830.03	714.94	597.43	465.41	368.55	281.98	191.48	135.00	93.04
67.5	204.24	139.89	96.58	71.89	57.54	50.46	43.82	34.03	30.83
90.0	64.18	58.11	51.64	45.56	37.74	33.92	31.16	28.46	26.16
112.5	106.65	76.67	58.78	51.47	44.89	39.04	31.61	28.69	26.16
135.0	470.31	381.21	319.33	254.59	187.88	156.49	121.67	82.63	63.51
157.5	1382.63	1286.44	1161.56	1060.31	932.06	784.13	570.38	397.13	302.63
180.0	1111.67	1008.23	797.46	565.82	373.56	237.83	151.88	94.78	89.21
202.5	1494.00	1351.13	1105.76	1012.61	857.59	673.48	500.63	348.47	212.68
225.0	875.25	816.19	721.69	648.56	582.75	502.31	426.94	363.94	288.00
247.5	194.06	134.44	91.13	62.04	49.39	43.88	38.64	32.23	28.58
270.0	84.38	65.42	56.53	48.26	42.08	36.79	32.46	29.70	27.34
292.5	115.71	80.38	61.09	52.03	46.63	40.95	34.48	30.88	28.29
315.0	763.31	635.06	514.69	421.31	320.06	291.94	165.71	115.59	78.98
337.5	1007.49	877.05	736.93	593.78	430.71	285.69	172.35	111.38	74.93
360.0	815.06	599.63	436.50	290.81	165.88	108.84	83.42	67.05	53.16
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	42.69	35.83	31.61	29.31	27.68	25.14	23.34	22.16	20.70
22.5	44.83	37.46	33.30	29.98	27.96	25.82	23.68	21.99	20.36
45.0	59.01	45.34	36.39	31.44	29.08	26.72	24.86	23.85	22.73
67.5	28.13	25.37	23.40	21.83	20.25	18.96	17.89	16.93	16.14
90.0	24.47	22.78	21.26	20.14	19.24	18.17	17.49	17.21	17.04
112.5	24.19	22.33	20.81	19.58	18.45	17.49	16.76	16.20	15.64
135.0	48.88	39.66	33.58	28.63	24.64	22.22	20.70	19.18	18.06
157.5	126.23	82.74	72.06	70.26	61.20	44.61	32.12	21.26	18.73
180.0	82.41	63.96	46.63	36.96	26.94	24.36	22.84	21.38	20.14
202.5	145.24	96.81	83.03	71.49	57.83	38.25	32.79	24.53	22.16
225.0	192.21	137.81	91.74	62.04	41.23	31.56	27.39	24.53	21.77
247.5	26.27	23.85	22.22	20.87	19.63	18.51	17.66	16.99	16.26
270.0	25.09	23.18	21.77	20.42	19.35	18.28	17.38	16.71	16.14
292.5	25.82	23.74	22.11	20.64	19.46	18.39	17.44	16.76	16.14
315.0	51.92	39.32	33.81	29.14	24.75	22.67	21.04	19.69	18.51
337.5	64.63	52.99	39.38	32.57	28.69	25.71	24.02	22.39	20.98
360.0	42.69	35.83	31.61	29.31	27.68	25.14	23.34	22.16	20.70

Intensity data(cd)										Appendix Page: 18 Total:19	
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	19.86	19.18	18.45	17.38	16.65	15.92	15.41	14.96	14.51		
22.5	19.01	18.17	17.44	16.65	16.14	15.58	15.02	14.63	14.34		
45.0	21.32	20.42	19.41	18.34	17.38	16.59	15.81	15.13	14.57		
67.5	15.64	15.24	15.08	14.96	14.85	14.74	14.74	14.85	15.02		
90.0	16.82	16.54	16.37	16.31	16.37	16.54	16.88	17.33	17.72		
112.5	15.47	15.36	15.24	15.19	13.95	14.91	15.53	15.36	14.34		
135.0	16.99	16.09	15.36	14.79	14.18	13.84	13.50	13.28	13.16		
157.5	17.21	16.37	15.69	15.30	15.02	14.68	14.23	13.89	13.61		
180.0	19.01	18.17	17.61	16.82	16.03	15.53	15.41	14.68	14.29		
202.5	20.59	19.52	18.45	17.66	17.16	16.59	16.03	15.53	15.08		
225.0	20.08	18.73	17.33	16.37	15.47	14.63	14.01	13.44	13.05		
247.5	15.69	15.19	14.79	14.51	14.40	14.23	14.12	14.01	13.95		
270.0	15.64	15.30	15.13	14.79	14.74	14.51	14.51	14.34	14.68		
292.5	15.47	15.08	14.79	14.57	14.40	14.29	14.18	14.18	14.29		
315.0	17.55	16.76	15.98	15.30	14.57	14.18	13.78	13.39	13.16		
337.5	19.41	18.23	17.16	16.14	15.36	14.79	14.23	13.73	13.39		
360.0	19.86	19.18	18.45	17.38	16.65	15.92	15.41	14.96	14.51		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	14.29	14.18	14.18	14.29	14.23	14.12	14.12	13.95	13.61		
22.5	14.06	13.84	13.67	13.56	13.44	13.33	13.22	13.11	12.99		
45.0	14.06	13.78	13.50	13.28	13.16	13.05	12.94	12.94	12.99		
67.5	15.24	15.64	16.03	16.20	16.09	15.98	16.03	16.09	16.14		
90.0	17.94	17.21	17.16	17.33	18.06	18.23	17.89	17.21	17.66		
112.5	16.09	16.43	16.59	14.12	16.59	16.31	15.02	15.24	15.69		
135.0	13.11	13.05	12.99	12.94	12.99	13.16	13.28	13.28	13.16		
157.5	13.33	12.99	12.77	12.54	12.38	12.21	12.09	11.93	11.76		
180.0	14.23	14.06	13.84	13.73	13.50	12.99	12.60	12.26	12.09		
202.5	14.63	14.34	13.95	13.67	13.39	13.16	12.88	12.71	12.49		
225.0	12.71	12.43	12.21	12.09	12.04	11.98	11.87	11.87	11.76		
247.5	13.95	14.01	14.18	14.29	14.34	14.23	14.06	14.06	14.06		
270.0	14.63	15.24	15.02	14.63	14.34	14.96	14.96	15.02	14.79		
292.5	14.46	14.57	14.68	14.63	14.57	14.63	14.79	14.96	14.79		
315.0	12.94	12.77	12.71	12.60	12.54	12.49	12.49	12.49	12.43		
337.5	13.05	12.83	12.88	12.60	12.43	12.43	12.32	12.15	11.93		
360.0	14.29	14.18	14.18	14.29	14.23	14.12	14.12	13.95	13.61		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	13.50	12.88	12.49	12.43	12.32	12.04	11.76	11.53	11.31		
22.5	12.83	12.71	12.54	12.26	12.09	11.87	11.70	11.42	11.25		
45.0	12.88	12.66	12.43	12.38	12.32	12.15	11.81	11.64	11.19		
67.5	16.26	16.54	16.14	15.81	16.20	15.36	15.47	14.57	14.06		
90.0	18.06	17.33	17.61	17.16	17.10	16.65	16.37	16.09	15.58		
112.5	15.81	15.53	15.36	15.53	15.58	15.47	14.74	14.40	13.89		
135.0	13.11	13.11	12.83	12.83	12.60	12.04	11.19	10.74	10.46		
157.5	11.64	11.53	11.36	11.19	11.08	10.97	10.80	10.63	10.46		
180.0	12.09	12.09	12.21	12.15	11.98	11.76	11.48	11.08	10.97		
202.5	12.26	12.09	11.93	11.76	11.59	11.48	11.36	11.19	11.03		
225.0	11.76	11.76	11.70	11.59	11.48	11.42	11.25	10.80	10.63		
247.5	14.12	14.18	14.23	13.95	13.73	13.33	12.49	11.70	11.31		
270.0	14.68	15.08	14.57	15.02	14.68	14.51	14.23	14.12	13.73		
292.5	14.68	14.85	14.68	14.57	14.51	13.95	14.18	13.89	13.22		
315.0	12.43	12.32	12.15	12.04	11.98	11.81	11.59	11.42	11.03		
337.5	11.87	11.59	11.36	11.31	11.19	11.08	10.97	10.86	10.69		
360.0	13.50	12.88	12.49	12.43	12.32	12.04	11.76	11.53	11.31		

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Intensity data(cd)										Appendix Page: 19 Total:19	
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	11.25	11.08	10.91	10.69	10.46	10.24	9.90	9.62	9.34		
22.5	11.03	10.86	10.63	10.41	10.24	9.79	9.51	9.39	9.17		
45.0	10.91	10.74	10.69	10.52	10.01	9.84	9.68	9.56	9.45		
67.5	13.56	12.26	11.48	11.31	11.08	10.18	10.07	10.07	9.79		
90.0	14.96	13.28	11.48	11.42	10.24	10.07	9.96	9.90	9.79		
112.5	13.16	12.21	11.25	11.03	10.86	9.96	9.84	9.73	9.68		
135.0	10.29	10.18	10.13	10.01	9.68	9.56	9.39	9.34	9.17		
157.5	10.24	10.07	9.96	9.79	9.62	9.45	9.28	9.17	9.06		
180.0	10.91	10.69	10.46	10.13	9.84	9.62	9.45	9.34	9.06		
202.5	10.91	10.74	10.58	10.46	10.29	10.01	9.73	9.51	9.39		
225.0	10.46	10.35	10.29	10.18	10.07	9.96	9.84	9.73	9.68		
247.5	11.08	10.86	10.69	10.63	10.69	10.29	10.01	9.96	9.84		
270.0	13.39	12.99	12.09	11.48	11.31	11.14	10.07	9.96	9.90		
292.5	12.77	11.93	11.31	11.14	11.08	10.63	9.90	9.79	9.73		
315.0	10.86	10.63	10.46	10.41	10.29	10.18	9.62	9.56	9.39		
337.5	10.52	10.41	10.24	10.07	9.90	9.79	9.45	9.23	9.06		
360.0	11.25	11.08	10.91	10.69	10.46	10.24	9.90	9.62	9.34		
C/ γ (°)	90.0										
0.0	9.11										
22.5	9.11										
45.0	9.39										
67.5	9.79										
90.0	9.73										
112.5	9.56										
135.0	9.23										
157.5	8.94										
180.0	9.06										
202.5	9.34										
225.0	9.62										
247.5	9.79										
270.0	9.79										
292.5	9.56										
315.0	9.28										
337.5	8.94										
360.0	9.11										