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Nata

LumCAT: 2-2322-M	
Luminaire: 92.70.131.00	
Report No: 210807-B007	Voltage(V): 33.5800
Test No: 210807-C007	Current(A): 0.4700
LampCAT: SAMSUNG LC026D LES14.5	Power (W): 15.7820
Lamp flux(lm): 2465.7	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): 2359.91
Efficiency(%): 95.71%
Lumens(lm)/Power(W): 149.53
Central intensity(cd): 2415.212
Maximum intensity(cd): 3344.370
Angle of maximum intensity: C=0.0 γ =19.0
Beam Angle(50%Imax): [C0/180]Total=67.0
[C90/270]Total=40.5
Field angle(10%Imax): [C0/180]Total=80.1
[C90/270]Total=65.6
Maximum s/h(1/2): C0_180=1.24 C90_270=0.64
Maximum s/h(1/4): C0_180=1.03 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.71%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.297%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2434.781	0.000	0	.000%	.000%
1.0	2439.151	2.332	2.332	.095%	.099%
2.0	2448.674	7.015	9.348	.285%	.396%
3.0	2464.994	11.752	21.099	.477%	.894%
4.0	2480.044	16.553	37.652	.671%	1.595%
5.0	2493.264	21.395	59.047	.868%	2.502%
6.0	2507.082	26.278	85.325	1.066%	3.616%
7.0	2518.099	31.191	116.516	1.265%	4.937%
8.0	2524.523	36.089	152.605	1.464%	6.467%
9.0	2526.577	40.936	193.542	1.660%	8.201%
10.0	2522.133	45.689	239.231	1.853%	10.137%
11.0	2514.775	50.329	289.56	2.041%	12.270%
12.0	2501.144	54.831	344.391	2.224%	14.593%
13.0	2474.218	59.045	403.436	2.395%	17.095%
14.0	2449.159	63.019	466.455	2.556%	19.766%
15.0	2414.055	66.764	533.219	2.708%	22.595%
16.0	2369.651	70.095	603.314	2.843%	25.565%
17.0	2316.359	72.974	676.288	2.960%	28.657%
18.0	2262.058	75.488	751.776	3.062%	31.856%
19.0	2208.691	77.782	829.558	3.155%	35.152%
20.0	2147.131	79.724	909.281	3.233%	38.530%
21.0	2083.475	81.236	990.518	3.295%	41.973%
22.0	2025.691	82.575	1073.093	3.349%	45.472%
23.0	1963.223	83.698	1156.791	3.394%	49.018%
24.0	1890.552	84.257	1241.049	3.417%	52.589%
25.0	1821.000	84.393	1325.441	3.423%	56.165%
26.0	1732.397	83.878	1409.319	3.402%	59.719%
27.0	1649.016	82.727	1492.046	3.355%	63.225%
28.0	1547.757	80.936	1572.982	3.282%	66.654%
29.0	1451.342	78.465	1651.447	3.182%	69.979%
30.0	1344.560	75.489	1726.936	3.062%	73.178%
31.0	1235.589	71.802	1798.737	2.912%	76.221%
32.0	1121.607	67.531	1866.268	2.739%	79.082%
33.0	1022.409	63.164	1929.432	2.562%	81.759%
34.0	909.955	58.479	1987.911	2.372%	84.237%
35.0	794.680	52.940	2040.85	2.147%	86.480%
36.0	691.464	47.319	2088.17	1.919%	88.485%
37.0	595.131	41.962	2130.131	1.702%	90.263%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	502.832	36.649	2166.78	1.486%	91.816%
39.0	402.238	30.893	2197.672	1.253%	93.125%
40.0	325.623	25.385	2223.057	1.030%	94.201%
41.0	250.189	20.504	2243.562	.832%	95.070%
42.0	186.571	15.868	2259.43	.644%	95.742%
43.0	137.846	12.017	2271.447	.487%	96.251%
44.0	100.781	9.006	2280.454	.365%	96.633%
45.0	73.250	6.688	2287.142	.271%	96.916%
46.0	52.571	4.921	2292.063	.200%	97.125%
47.0	39.306	3.654	2295.717	.148%	97.280%
48.0	32.087	2.886	2298.603	.117%	97.402%
49.0	27.849	2.461	2301.064	.100%	97.506%
50.0	24.566	2.185	2303.25	.089%	97.599%
51.0	22.243	1.980	2305.23	.080%	97.683%
52.0	20.660	1.841	2307.071	.075%	97.761%
53.0	19.468	1.746	2308.817	.071%	97.835%
54.0	18.479	1.673	2310.489	.068%	97.906%
55.0	17.814	1.620	2312.109	.066%	97.974%
56.0	17.209	1.583	2313.692	.064%	98.041%
57.0	16.667	1.549	2315.241	.063%	98.107%
58.0	16.230	1.521	2316.762	.062%	98.172%
59.0	15.793	1.497	2318.259	.061%	98.235%
60.0	15.450	1.476	2319.735	.060%	98.297%
61.0	15.203	1.463	2321.198	.059%	98.359%
62.0	14.912	1.451	2322.649	.059%	98.421%
63.0	14.793	1.445	2324.094	.059%	98.482%
64.0	14.580	1.441	2325.535	.058%	98.543%
65.0	14.378	1.433	2326.968	.058%	98.604%
66.0	14.382	1.435	2328.403	.058%	98.665%
67.0	14.318	1.443	2329.846	.059%	98.726%
68.0	14.199	1.445	2331.291	.059%	98.787%
69.0	14.072	1.442	2332.733	.058%	98.848%
70.0	13.990	1.441	2334.174	.058%	98.909%
71.0	13.960	1.445	2335.619	.059%	98.971%
72.0	13.706	1.439	2337.057	.058%	99.032%
73.0	13.680	1.432	2338.489	.058%	99.092%
74.0	13.553	1.432	2339.921	.058%	99.153%
75.0	13.317	1.420	2341.341	.058%	99.213%

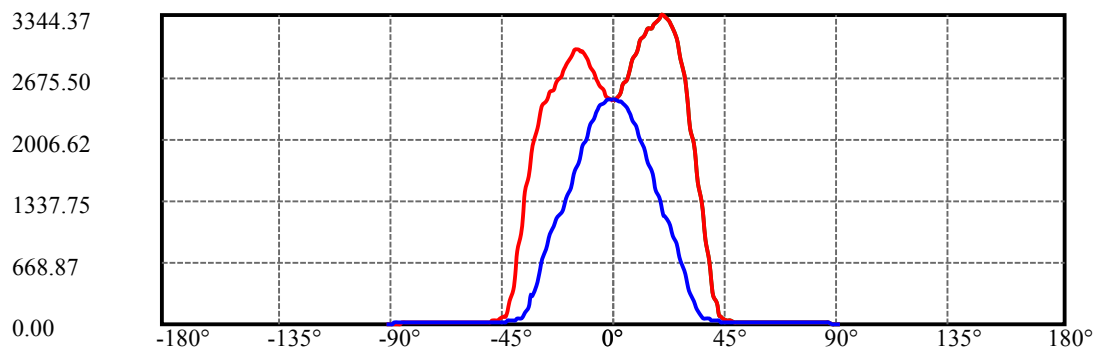
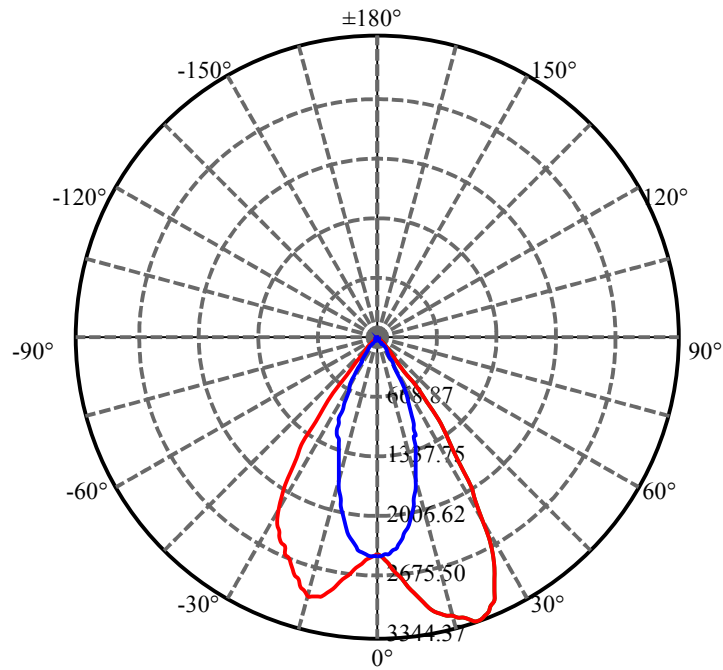
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.217	1.409	2342.749	.057%	99.273%
77.0	12.948	1.395	2344.144	.057%	99.332%
78.0	12.612	1.368	2345.512	.055%	99.390%
79.0	12.384	1.343	2346.855	.054%	99.447%
80.0	12.163	1.323	2348.179	.054%	99.503%
81.0	11.835	1.298	2349.477	.053%	99.558%
82.0	11.510	1.266	2350.743	.051%	99.611%
83.0	11.263	1.238	2351.981	.050%	99.664%
84.0	11.013	1.214	2353.194	.049%	99.715%
85.0	10.655	1.183	2354.377	.048%	99.765%
86.0	10.386	1.150	2355.527	.047%	99.814%
87.0	10.128	1.123	2356.65	.046%	99.862%
88.0	9.994	1.102	2357.752	.045%	99.908%
89.0	9.844	1.087	2358.839	.044%	99.955%
90.0	9.740	1.074	2359.913	.044%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1726.94	70.04%	73.18%
0-40	2223.06	90.16%	94.20%
0-60	2319.74	94.08%	98.30%
0-90	2358.84	95.67%	99.95%
0-120	2358.84	95.67%	99.95%
0-180	2359.91	95.71%	100.00%
60-90	40.58	1.65%	1.72%
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%
0-32.34	1887.93	76.57%	80.00%

ZONAL LUMEN SUMMARY

0-10	239.23
10-20	670.05
20-30	817.65
30-40	496.12
40-50	80.19
50-60	16.49
60-70	14.44
70-80	14.00
80-90	10.66
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

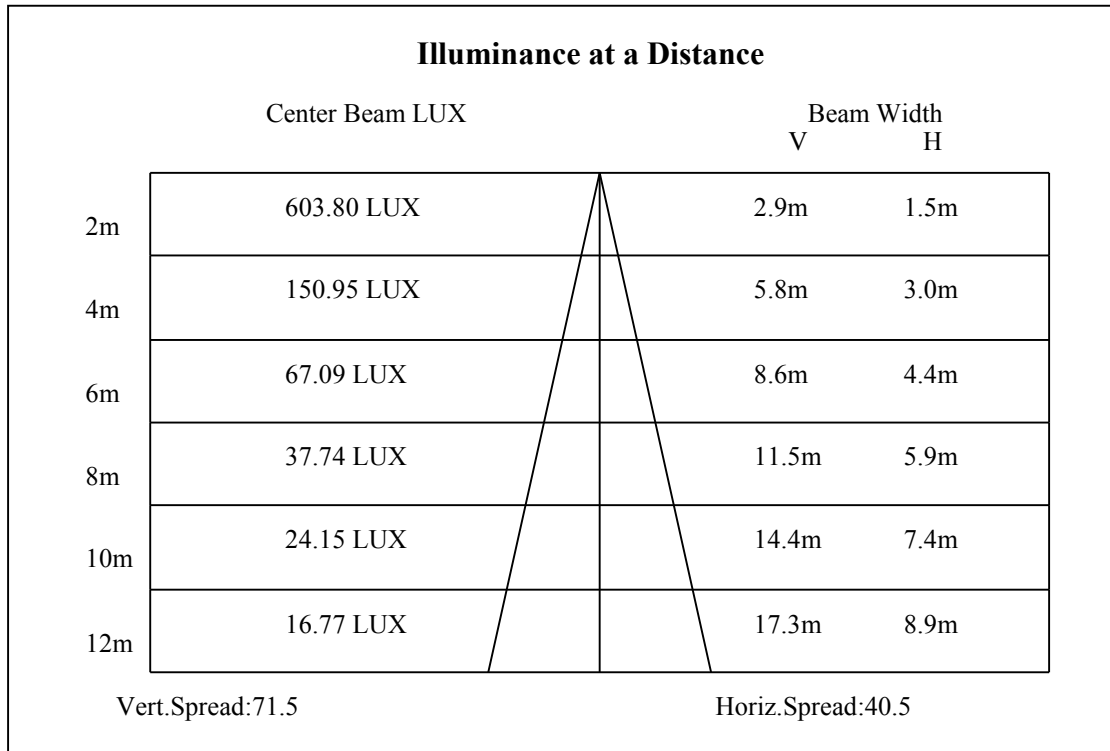
C0(Max): —————C0/C180: —————C90/C270: —————

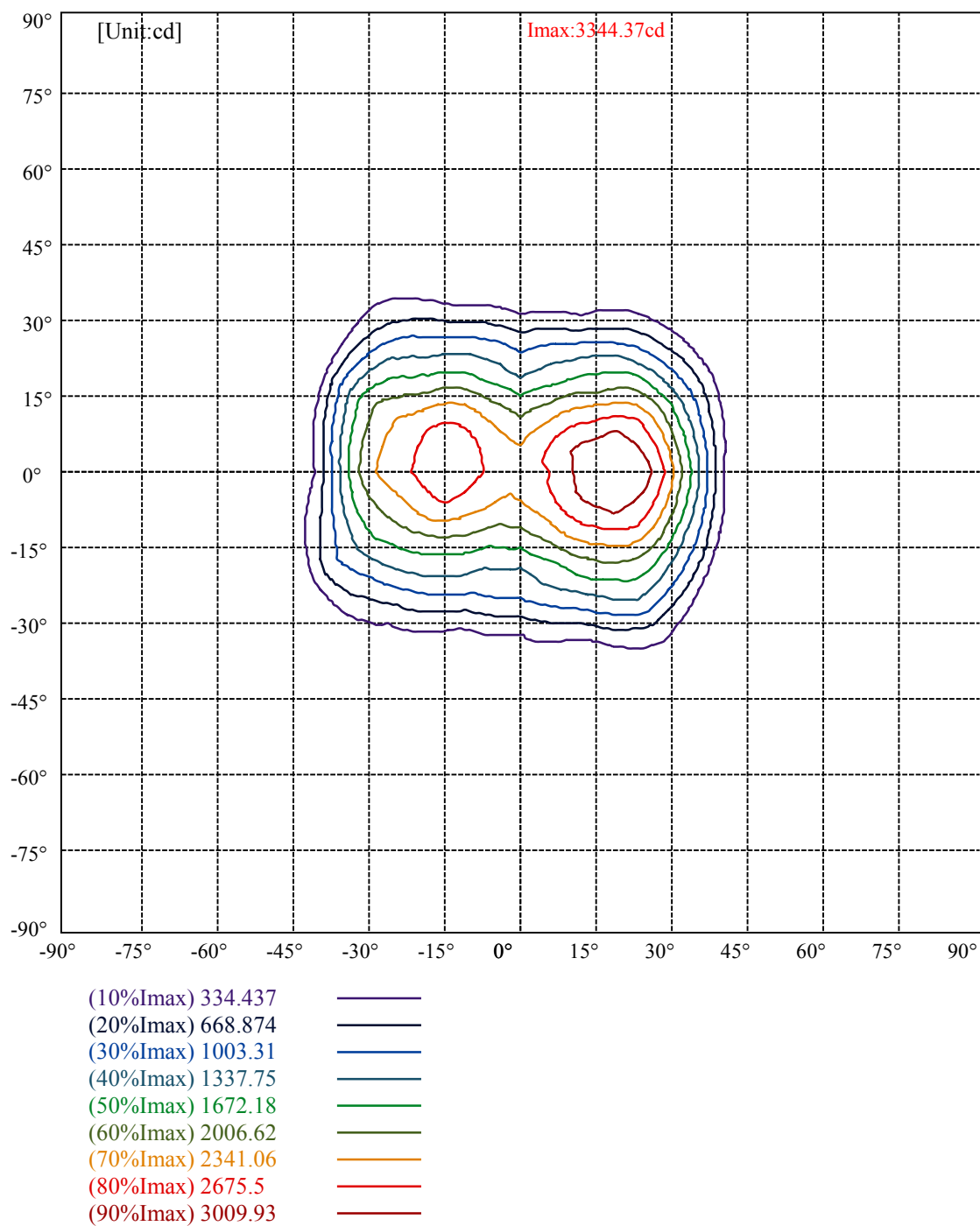
Field angle(10%Imax):C0/180Left:59.3 Right:20.9

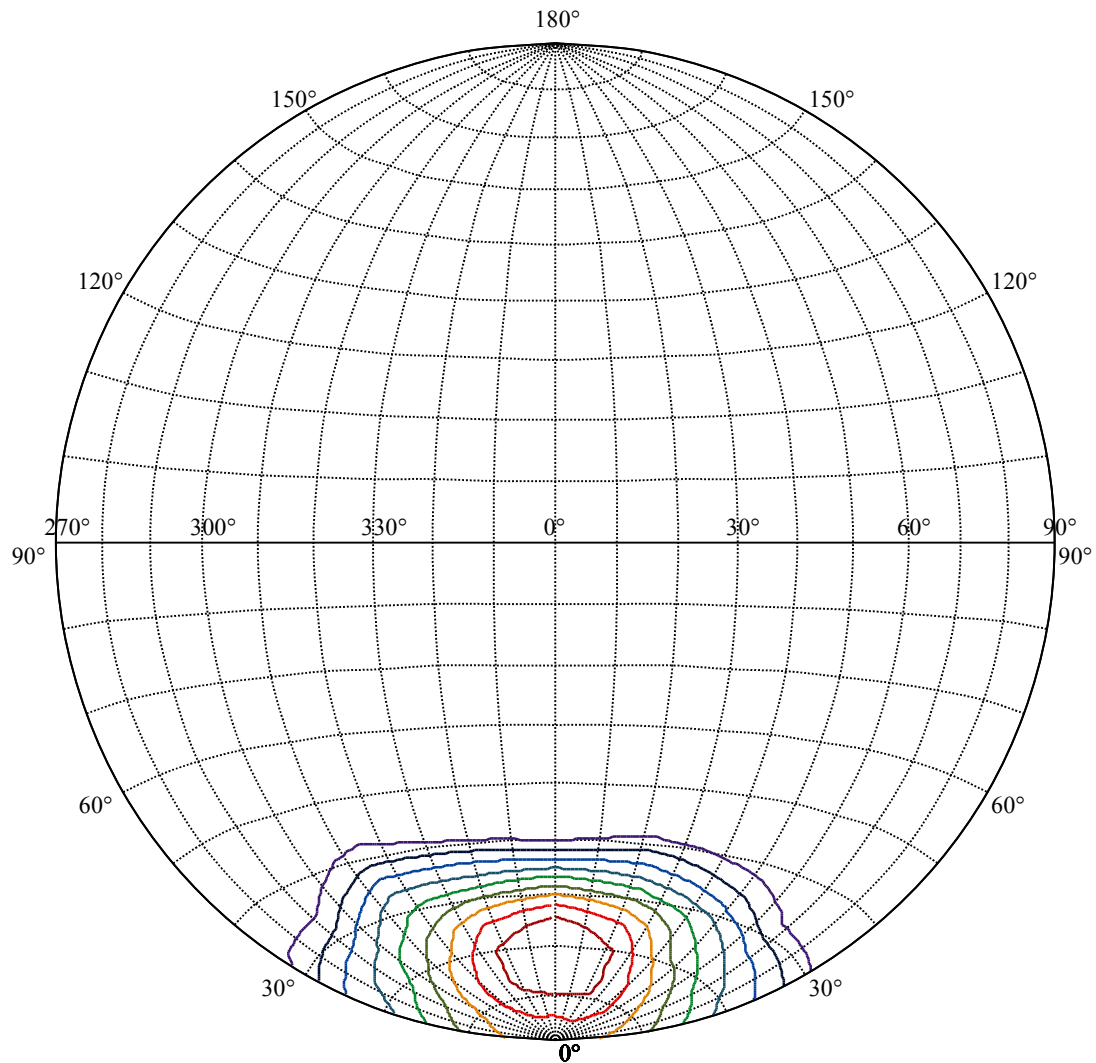
:C90/270Left:32.5 Right:33.1

Beam Angle(50%Imax):C0/180Left:52.6 Right:14.4

:C90/270Left:19.8 Right:20.7







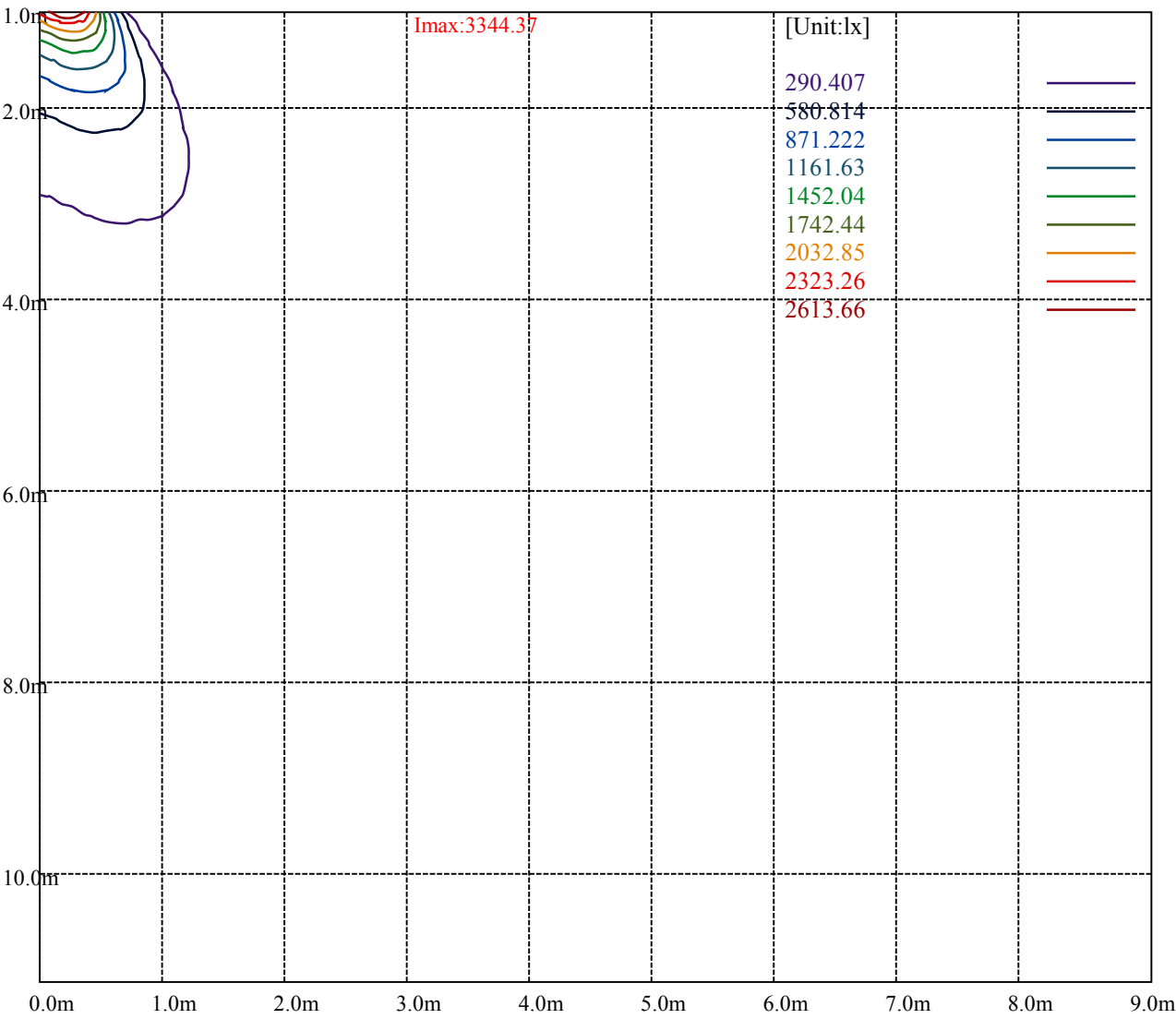
House

[Unit:cd]

Road

Imax:3344.37

(10%Imax)	334.437	—
(20%Imax)	668.874	—
(30%Imax)	1003.31	—
(40%Imax)	1337.75	—
(50%Imax)	1672.18	—
(60%Imax)	2006.62	—
(70%Imax)	2341.06	—
(80%Imax)	2675.5	—
(90%Imax)	3009.93	—



Luminance Table

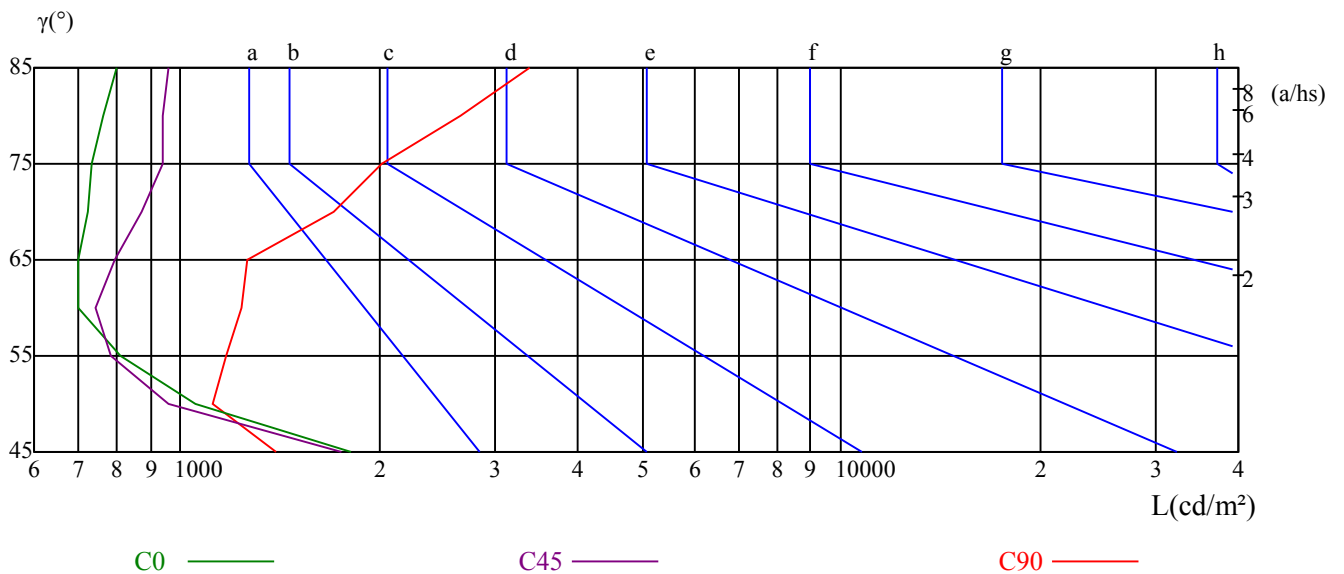
γ	45	50	55	60	65	70	75	80	85
C0	1813	1057	810	700	700	724	735	766	800
C45	1754	960	785	746	795	874	938	941	959
C90	1391	1120	1172	1239	1261	1708	2021	2663	3377

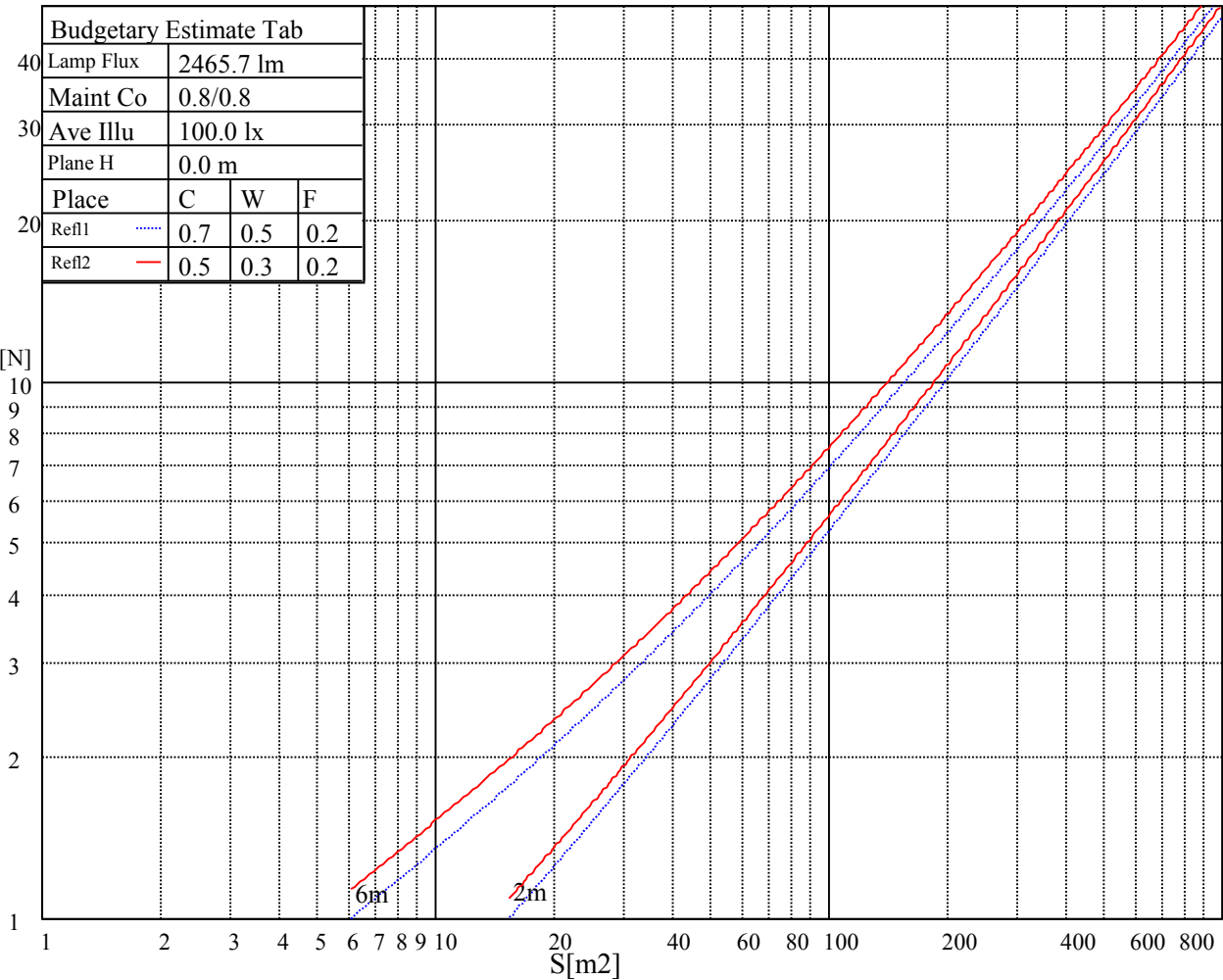
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1370	1331	1280	1935	2192	1924	4744	4931	4644

Glare Table

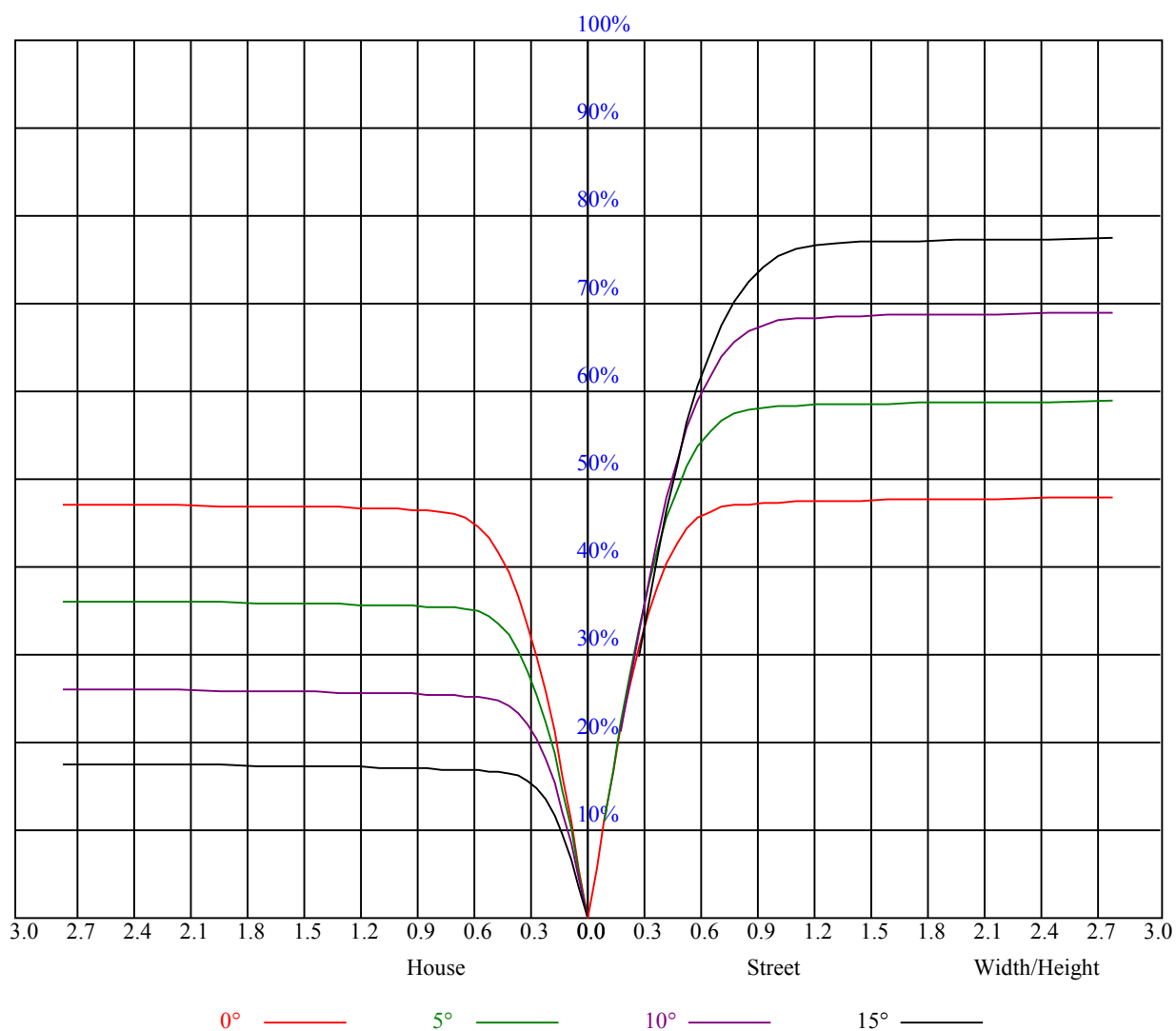
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.06	1.03	1.01	1.04	1.01	0.99	1.00	0.98	0.96	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.98	0.94	0.91	0.97	0.93	0.90	0.94	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.83
3	0.92	0.87	0.83	0.90	0.86	0.83	0.88	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.77	0.85	0.80	0.76	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.72
5	0.80	0.75	0.71	0.80	0.74	0.70	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	0.69	0.66	0.73	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	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.59
8	0.67	0.61	0.57	0.67	0.61	0.57	0.65	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



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	2415.21	2432.54	2464.21	2518.58	2590.89	2643.47	2702.03	2788.07	2856.79
22.5	2449.87	2484.53	2559.22	2602.24	2642.87	2693.66	2770.74	2826.31	2869.33
45.0	2456.44	2482.73	2523.96	2562.20	2584.91	2595.67	2614.19	2635.10	2655.42
67.5	2442.70	2448.67	2455.25	2461.22	2462.42	2457.04	2445.09	2430.15	2406.85
90.0	2432.54	2432.54	2417.60	2401.47	2380.56	2348.89	2303.47	2259.26	2198.91
112.5	2432.54	2420.59	2411.63	2406.85	2397.29	2385.34	2374.58	2354.86	2335.14
135.0	2425.97	2425.37	2430.75	2449.27	2469.59	2483.33	2502.45	2525.16	2538.30
157.5	2422.98	2420.59	2434.33	2466.60	2494.68	2540.10	2589.69	2625.54	2671.55
180.0	2415.21	2421.19	2442.70	2482.14	2525.76	2572.96	2617.77	2665.58	2717.56
202.5	2449.87	2427.16	2414.61	2419.39	2437.92	2466.00	2494.68	2535.91	2555.63
225.0	2456.44	2438.52	2415.21	2405.05	2393.10	2389.52	2391.31	2385.34	2376.97
247.5	2442.70	2428.36	2408.04	2385.93	2362.63	2335.74	2292.72	2245.51	2199.50
270.0	2432.54	2434.93	2427.16	2415.21	2392.51	2367.41	2326.78	2275.39	2222.81
292.5	2432.54	2439.11	2440.31	2437.32	2439.11	2434.93	2428.36	2405.05	2372.79
315.0	2425.97	2438.52	2453.45	2479.75	2515.00	2541.89	2564.59	2577.14	2598.06
337.5	2422.98	2451.06	2480.34	2546.67	2591.48	2636.30	2694.86	2755.21	2816.75
360.0	2415.21	2432.54	2464.21	2518.58	2590.89	2643.47	2702.03	2788.07	2856.79
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2921.32	2995.41	3066.52	3110.14	3148.98	3191.40	3207.54	3234.42	3261.31
22.5	2933.87	2979.88	3021.70	3035.45	3049.19	3058.15	3046.20	3034.25	3024.69
45.0	2669.16	2656.61	2639.88	2622.55	2596.86	2570.57	2514.40	2452.86	2378.76
67.5	2358.45	2305.27	2243.72	2175.01	2099.12	2030.40	1950.33	1875.64	1791.99
90.0	2140.35	2066.26	1988.58	1913.89	1826.65	1737.61	1657.55	1568.51	1463.35
112.5	2296.30	2256.27	2215.64	2175.01	2115.25	2059.68	1995.75	1915.68	1843.97
135.0	2546.07	2550.25	2553.24	2568.18	2559.81	2546.07	2533.52	2512.01	2461.22
157.5	2721.74	2782.10	2833.48	2869.33	2922.51	2935.06	2926.10	2930.88	2882.48
180.0	2792.85	2839.46	2893.24	2948.81	2954.18	2969.72	2970.91	2929.68	2897.42
202.5	2572.36	2593.28	2630.92	2651.24	2656.61	2675.73	2679.92	2654.22	2626.14
225.0	2365.62	2351.87	2319.01	2285.55	2225.20	2182.18	2139.15	2099.12	2024.43
247.5	2148.71	2074.02	2008.89	1938.98	1857.72	1793.78	1726.26	1633.64	1561.34
270.0	2153.49	2081.79	1998.73	1927.03	1834.41	1739.41	1662.33	1578.67	1478.88
292.5	2324.99	2274.79	2221.61	2164.85	2108.08	2044.15	1979.61	1911.50	1836.80
315.0	2618.97	2633.31	2626.14	2624.94	2611.20	2603.43	2583.12	2535.32	2485.72
337.5	2860.97	2913.55	2975.10	3007.36	3021.70	3049.19	3052.18	3048.00	3043.22
360.0	2921.32	2995.41	3066.52	3110.14	3148.98	3191.40	3207.54	3234.42	3261.31
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3301.35	3344.37	3334.21	3314.49	3282.23	3240.40	3202.16	3091.62	2985.85
22.5	3034.25	3039.03	3019.31	2968.52	2913.55	2851.41	2759.99	2687.09	2566.39
45.0	2304.07	2226.39	2136.76	2033.39	1956.31	1891.18	1820.67	1770.48	1710.13
67.5	1704.15	1622.29	1543.42	1470.52	1411.36	1349.22	1256.01	1170.56	1080.93
90.0	1374.91	1291.86	1188.25	1161.66	1108.30	1042.93	954.19	874.78	777.39
112.5	1772.27	1687.42	1613.33	1558.36	1487.85	1429.89	1371.93	1306.80	1220.15
135.0	2390.12	2326.78	2258.06	2155.29	2036.98	1931.21	1818.28	1735.82	1656.95
157.5	2833.48	2752.82	2679.92	2623.75	2590.29	2515.60	2454.65	2400.27	2349.48
180.0	2821.53	2785.68	2739.07	2688.28	2641.08	2606.42	2536.51	2508.43	2455.84
202.5	2585.51	2520.38	2455.25	2349.48	2298.10	2192.33	2142.74	2051.91	1982.60
225.0	1959.30	1908.51	1835.01	1764.50	1693.40	1626.47	1551.19	1493.82	1445.42
247.5	1488.44	1404.79	1349.82	1300.82	1241.07	1191.29	1121.14	1032.41	954.79
270.0	1398.82	1323.53	1251.23	1209.40	1171.75	1119.77	1055.24	985.92	896.89
292.5	1751.96	1682.64	1618.71	1553.58	1517.13	1472.31	1397.62	1331.89	1186.93
315.0	2430.15	2373.39	2296.90	2213.25	2145.13	2087.17	2028.61	1968.86	1876.84
337.5	3042.62	3049.19	3034.85	2970.32	2916.54	2863.96	2777.91	2725.33	2571.76
360.0	3301.35	3344.37	3334.21	3314.49	3282.23	3240.40	3202.16	3091.62	2985.85

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	2871.13	2706.21	2544.88	2349.48	2124.22	1950.33	1770.48	1533.26	1333.68
22.5	2411.03	2289.13	2153.49	1981.41	1797.37	1674.87	1486.05	1331.89	1210.59
45.0	1639.02	1552.98	1460.36	1337.27	1187.47	1087.68	967.76	859.25	730.72
67.5	970.98	854.47	737.95	607.09	486.39	396.16	307.73	263.63	171.13
90.0	689.19	589.34	496.67	401.06	324.22	250.30	183.86	135.40	90.47
112.5	1114.39	1021.77	910.04	810.25	692.54	574.23	483.40	371.07	303.54
135.0	1588.83	1462.75	1413.75	1358.18	1306.20	1182.39	1174.56	1085.41	981.20
157.5	2310.64	2231.77	2189.94	2111.67	2025.03	1913.29	1814.70	1703.56	1545.81
180.0	2410.43	2359.04	2280.17	2167.24	2080.60	1938.38	1774.06	1607.95	1430.48
202.5	1927.03	1833.22	1762.71	1726.26	1672.48	1598.39	1524.30	1423.31	1325.32
225.0	1385.07	1296.64	1223.14	1132.91	1034.92	927.96	846.10	764.84	642.34
247.5	870.54	771.83	663.20	566.16	471.15	375.31	303.96	237.34	162.95
270.0	805.47	700.30	594.54	499.53	405.72	317.89	308.92	186.43	130.56
292.5	1137.87	1042.81	940.15	826.68	723.55	610.14	508.08	401.12	313.11
315.0	1799.16	1721.48	1678.46	1619.30	1576.88	1472.31	1375.51	1282.89	1168.77
337.5	2453.45	2330.36	2172.02	2018.45	1860.71	1676.07	1529.08	1371.93	1174.20
360.0	2871.13	2706.21	2544.88	2349.48	2124.22	1950.33	1770.48	1533.26	1333.68
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1142.48	915.41	682.98	482.80	308.32	234.89	114.19	85.09	63.70
22.5	1059.42	945.29	831.16	651.31	500.13	363.90	304.14	152.25	100.92
45.0	621.13	506.64	417.37	307.31	236.26	171.37	115.20	82.16	60.05
67.5	122.02	84.25	68.06	59.75	52.52	44.70	37.05	33.40	30.65
90.0	71.58	63.64	57.00	49.59	41.29	37.35	33.70	30.59	28.32
112.5	220.61	163.72	106.72	73.08	56.35	48.64	42.31	36.99	30.53
135.0	883.39	758.68	671.80	572.79	500.31	423.41	356.67	262.43	185.65
157.5	1414.35	1266.16	1100.65	915.41	744.52	528.81	316.69	235.07	116.70
180.0	1162.85	973.67	790.95	535.27	367.48	239.67	144.00	90.76	77.74
202.5	1250.03	1184.12	1096.35	1028.05	955.03	851.30	743.27	592.45	431.36
225.0	563.47	495.35	397.95	316.69	308.32	184.46	137.01	104.03	76.36
247.5	114.43	77.32	55.99	48.34	43.02	37.29	32.45	29.88	27.84
270.0	86.46	63.94	54.32	46.97	41.71	36.21	32.33	29.88	27.73
292.5	220.97	161.81	113.23	71.40	50.85	44.75	39.14	32.63	28.26
315.0	1043.88	904.66	786.95	650.11	549.73	472.65	365.69	304.74	251.74
337.5	1086.37	957.42	813.83	626.93	454.12	283.65	171.31	103.19	74.93
360.0	1142.48	915.41	682.98	482.80	308.32	234.89	114.19	85.09	63.70
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	47.50	38.78	31.73	28.98	27.43	26.65	24.02	22.17	21.09
22.5	65.79	53.54	42.72	34.36	28.44	25.63	23.36	21.81	20.44
45.0	42.60	35.61	31.01	26.89	24.26	22.23	20.67	19.78	18.88
67.5	28.26	25.69	23.96	22.47	21.03	19.90	19.12	18.52	17.93
90.0	26.11	24.26	22.89	21.51	20.32	19.24	18.40	18.11	18.05
112.5	27.67	25.69	23.72	22.23	20.79	19.60	18.70	17.93	17.21
135.0	126.26	64.95	46.55	38.96	33.70	28.80	25.51	23.06	21.45
157.5	84.43	72.48	62.26	43.08	33.10	27.43	23.72	21.99	20.67
180.0	67.22	50.61	37.41	33.70	27.79	25.39	23.36	21.75	20.85
202.5	307.91	209.08	117.65	78.40	61.72	45.29	35.37	28.56	23.60
225.0	57.90	43.32	35.79	31.55	27.73	23.96	22.11	20.79	19.42
247.5	26.53	24.92	23.54	22.41	21.21	19.48	18.05	16.91	16.25
270.0	25.63	23.90	22.71	21.27	20.26	19.24	18.40	17.75	17.15
292.5	25.87	23.60	21.81	20.50	19.18	18.11	17.27	16.55	15.95
315.0	152.13	80.85	51.57	38.24	32.45	27.49	24.80	23.30	22.17
337.5	60.17	43.86	33.58	28.86	26.17	24.62	23.00	21.57	20.38
360.0	47.50	38.78	31.73	28.98	27.43	26.65	24.02	22.17	21.09

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	20.20	19.48	18.82	18.22	17.51	16.73	15.89	15.48	15.18		
22.5	19.24	18.34	17.63	17.15	16.67	16.19	15.54	15.06	14.64		
45.0	17.81	17.15	16.55	15.95	15.66	15.36	15.18	15.00	14.88		
67.5	17.51	17.27	17.15	17.09	17.09	17.15	17.21	17.21	17.27		
90.0	17.69	18.11	17.75	16.91	17.45	16.73	16.85	17.63	16.85		
112.5	16.73	16.37	16.07	16.01	16.01	15.95	15.89	15.89	15.95		
135.0	20.02	18.70	17.63	16.67	15.89	15.12	14.52	13.98	13.68		
157.5	19.60	19.00	18.40	17.81	17.21	16.61	15.95	15.54	15.06		
180.0	20.02	19.06	18.40	17.75	16.73	16.13	15.83	15.48	15.18		
202.5	20.50	19.06	17.93	17.27	16.73	16.43	16.07	15.60	15.06		
225.0	18.52	17.75	17.03	16.37	15.83	15.30	14.88	14.52	14.22		
247.5	15.83	15.48	15.12	14.82	14.40	14.22	14.22	14.10	13.98		
270.0	16.49	16.07	15.66	15.30	15.00	14.76	14.58	14.40	14.22		
292.5	15.42	14.94	14.64	14.34	14.04	13.86	13.68	13.62	13.50		
315.0	21.03	19.96	18.94	18.11	17.09	16.31	15.60	14.94	14.40		
337.5	19.06	18.28	17.63	16.91	16.37	15.83	15.30	14.82	14.52		
360.0	20.20	19.48	18.82	18.22	17.51	16.73	15.89	15.48	15.18		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	14.88	14.82	14.82	14.76	14.76	14.64	14.40	14.10	13.74		
22.5	14.34	14.04	13.86	13.62	13.38	13.21	13.09	12.91	12.85		
45.0	14.82	14.88	14.88	15.00	15.06	14.88	14.82	14.82	14.70		
67.5	17.21	17.09	17.21	17.21	17.03	16.91	16.73	16.73	16.61		
90.0	17.51	16.61	14.70	16.55	16.85	16.61	16.37	16.43	17.33		
112.5	15.95	15.89	15.77	15.72	15.66	15.66	15.66	15.72	15.66		
135.0	13.44	13.27	13.09	12.97	12.91	12.91	12.91	12.85	12.67		
157.5	14.70	14.34	14.16	13.98	13.80	13.62	13.38	13.27	13.03		
180.0	15.12	15.12	14.88	14.82	14.58	14.16	13.80	13.38	13.27		
202.5	14.76	14.34	13.98	13.98	13.68	13.50	13.27	13.21	13.09		
225.0	13.98	13.74	13.62	13.38	13.38	13.32	13.27	13.27	13.27		
247.5	13.92	13.86	13.92	13.86	13.92	13.92	13.86	13.98	14.04		
270.0	14.34	14.10	14.16	14.04	14.10	14.28	14.16	14.10	14.22		
292.5	13.44	13.38	13.38	13.32	13.32	13.32	13.27	13.32	13.38		
315.0	14.04	13.86	13.92	13.38	13.27	13.03	13.15	12.85	12.73		
337.5	14.22	13.92	13.68	13.50	13.38	13.21	13.03	12.91	12.79		
360.0	14.88	14.82	14.82	14.76	14.76	14.64	14.40	14.10	13.74		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	13.56	13.44	13.21	12.97	12.91	12.85	12.55	12.25	12.01		
22.5	12.67	12.49	12.37	12.19	12.07	11.95	11.77	11.59	11.41		
45.0	14.58	14.52	14.34	14.10	13.80	13.50	13.21	12.67	12.25		
67.5	16.61	16.67	16.43	16.19	15.95	15.60	15.36	15.00	14.64		
90.0	15.48	16.31	16.25	15.18	15.60	15.36	14.22	14.28	14.22		
112.5	15.48	15.48	15.36	15.06	14.82	14.28	13.80	13.32	12.73		
135.0	12.43	12.31	12.19	12.19	11.95	11.41	10.99	10.82	10.64		
157.5	12.79	12.55	12.37	12.19	12.01	11.89	11.71	11.53	11.35		
180.0	13.15	13.03	12.85	12.73	12.73	12.49	12.19	11.95	11.71		
202.5	12.85	12.55	12.37	12.25	12.07	11.95	11.77	11.65	11.41		
225.0	13.15	13.03	12.97	12.85	12.79	12.73	12.25	11.65	11.35		
247.5	13.74	13.86	13.86	13.68	13.68	13.38	13.27	13.15	12.97		
270.0	13.98	14.10	13.98	13.92	14.04	13.21	12.49	12.61	12.73		
292.5	13.44	13.38	13.38	13.32	13.27	13.09	12.97	12.79	12.49		
315.0	12.73	12.55	12.43	11.95	11.65	11.53	11.47	11.29	11.23		
337.5	12.67	12.61	12.49	12.31	12.13	11.95	11.77	11.59	11.47		
360.0	13.56	13.44	13.21	12.97	12.91	12.85	12.55	12.25	12.01		

Nata 2-2322-M

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	11.83	11.71	11.41	11.17	10.88	10.58	10.34	10.16	9.86		
22.5	11.29	11.11	10.93	10.76	10.28	10.10	9.98	9.74	9.62		
45.0	11.77	11.53	11.41	10.70	10.46	10.34	10.22	10.04	9.98		
67.5	13.74	12.85	12.19	12.01	10.76	10.58	10.46	10.34	10.16		
90.0	13.27	12.07	11.77	11.77	10.58	10.46	10.34	10.28	10.10		
112.5	12.01	11.47	11.35	11.29	10.82	10.28	10.16	10.10	9.92		
135.0	10.46	10.34	10.22	10.10	9.98	9.80	9.68	9.62	9.44		
157.5	11.17	10.93	10.70	10.46	10.22	9.86	9.68	9.50	9.26		
180.0	11.47	11.23	10.99	10.58	10.34	9.98	9.74	9.50	9.50		
202.5	11.23	11.05	10.88	10.70	10.52	10.34	10.10	9.98	9.80		
225.0	11.17	11.05	10.93	10.82	10.64	10.58	10.40	10.28	10.22		
247.5	12.85	12.49	12.07	11.65	11.53	11.41	10.52	10.46	10.28		
270.0	12.55	12.61	12.37	11.71	11.47	11.29	10.46	10.34	10.28		
292.5	12.25	11.83	11.35	11.23	11.11	10.34	10.22	10.10	9.98		
315.0	10.99	10.82	10.76	10.58	10.46	10.16	9.92	9.80	9.68		
337.5	11.29	11.05	10.88	10.70	10.46	10.10	9.86	9.68	9.44		
360.0	11.83	11.71	11.41	11.17	10.88	10.58	10.34	10.16	9.86		
C/ γ (°)	90.0										
0.0	9.50										
22.5	9.62										
45.0	9.98										
67.5	10.16										
90.0	10.10										
112.5	9.86										
135.0	9.44										
157.5	9.26										
180.0	9.44										
202.5	9.62										
225.0	10.04										
247.5	10.16										
270.0	10.04										
292.5	9.86										
315.0	9.50										
337.5	9.26										
360.0	9.50										