



## IES ROAD REPORT

PHOTOMETRIC FILENAME : GWL4-LED80-B-5K-BRZ.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Standard-Tech Co., Ltd.

[TESTDATE] 22 January 2016

[ISSUEDATE] 2016-01-22 17:44:03

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] NINGBO MORELUX LIGHTING MFG LTD

[LUMINAIRE] WPL140-080W-50K-8-PC-2

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	309.03	309.03	3.90	3.90
[OTHER]	10- 20	887.25	1196.28	15.09	15.09
[OTHER]	20- 30	1320.67	2516.95	31.75	31.75
[OTHER]	30- 40	1567.46	4084.41	51.52	51.52
[OTHER]	40- 50	1552.73	5637.14	71.11	71.11
[OTHER]	50- 60	1262.06	6899.19	87.03	87.03
[OTHER]	60- 70	745.79	7644.99	96.44	96.44
[OTHER]	70- 80	247.89	7892.88	99.57	99.57
[OTHER]	80- 90	23.70	7916.58	99.87	99.87
[OTHER]	90-100	0.02	7916.60	99.87	99.87
[OTHER]	100-110	0.37	7916.97	99.87	99.87
[OTHER]	110-120	1.16	7918.13	99.88	99.88
[OTHER]	120-130	1.71	7919.84	99.91	99.91
[OTHER]	130-140	2.02	7921.86	99.93	99.93
[OTHER]	140-150	2.05	7923.91	99.96	99.96
[OTHER]	150-160	1.72	7925.63	99.98	99.98
[OTHER]	160-170	1.17	7926.80	99.99	99.99
[OTHER]	170-180	0.48	7927.28	100.00	100.00
[OTHER]					

### CHARACTERISTICS

IES Classification

Longitudinal Classification

Lumens Per Lamp

Total Lamp Lumens

Luminaire Lumens

Downward Total Efficiency

Total Luminaire Efficiency

Luminaire Efficacy Rating (LER)

Total Luminaire Watts

Ballast Factor

Upward Waste Light Ratio

Maximum Candela

Maximum Candela Angle

Maximum Candela (<90 Degrees Vertical)

Maximum Candela Angle (<90 Degrees Vertical)

Maximum Candela At 90 Degrees Vertical

Maximum Candela from 80 to <90 Degrees Vertical

Type II

Very Short

N.A. (absolute)

N.A. (absolute)

7926

N.A. (absolute)

N.A. (absolute)

101

78.4

1.00

0.00

3332.47

360H 13V

3332.47

360H 13V

.53 (0.0% Luminaire Lumens)

118.13 (1.5% Luminaire Lumens)

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1308.2	N.A.	16.5
FM - Front-Medium (30-60)	2406.9	N.A.	30.4
FH - Front-High (60-80)	584.2	N.A.	7.4
FVH - Front-Very High (80-90)	10.5	N.A.	0.1
BL - Back-Low (0-30)	1208.7	N.A.	15.2
BM - Back-Medium (30-60)	1974.7	N.A.	24.9
BH - Back-High (60-80)	409.2	N.A.	5.2
BVH - Back-Very High (80-90)	13.2	N.A.	0.2
UL - Uplight-Low (90-100)	< 0.05	N.A.	0.0
UH - Uplight-High (100-180)	10.7	N.A.	0.1
Total	7926.3	N.A.	100.0
BUG Rating	B3-U2-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	3246.63	3246.63	3246.63	3246.63	3246.63	3246.63	3246.63	3246.63	3246.63	3246.63
1	3250.66	3249.22	3249.31	3246.93	3244.53	3243.68	3246.03	3246.38	3246.33	3247.24
2	3256.61	3252.53	3249.33	3245.77	3240.32	3240.68	3244.50	3247.83	3246.00	3249.03
3	3263.50	3257.34	3252.51	3244.56	3235.16	3237.18	3241.84	3247.21	3244.05	3251.05
4	3270.47	3262.33	3255.55	3242.50	3228.22	3232.12	3240.38	3244.15	3237.63	3248.83
5	3277.25	3268.05	3259.37	3240.09	3220.25	3227.00	3235.26	3236.17	3227.09	3241.82
6	3285.03	3272.82	3261.22	3235.34	3211.89	3221.46	3228.23	3222.20	3213.36	3229.98
7	3294.07	3278.34	3262.73	3231.29	3202.95	3214.29	3218.59	3205.54	3196.34	3214.23
8	3304.28	3284.97	3262.45	3227.36	3192.48	3206.80	3204.50	3184.80	3174.81	3195.39
9	3313.57	3291.87	3262.73	3221.11	3181.87	3198.61	3187.26	3161.80	3152.28	3174.81
10	3321.51	3298.90	3262.44	3212.60	3169.35	3187.12	3167.88	3135.63	3126.72	3151.25
11	3327.35	3302.87	3260.40	3202.38	3157.47	3175.39	3146.59	3108.57	3097.76	3126.90
12	3331.87	3305.50	3260.36	3192.27	3144.37	3160.54	3122.01	3079.13	3064.31	3099.95
13	3332.47	3307.03	3256.60	3182.06	3130.85	3140.70	3096.69	3045.28	3029.31	3070.00
14	3328.07	3306.77	3253.57	3171.15	3117.92	3120.39	3066.17	3008.62	2992.13	3035.45
15	3315.24	3303.23	3247.25	3159.68	3102.33	3097.71	3034.78	2970.22	2955.04	2998.34
16	3291.19	3294.34	3240.58	3150.67	3087.05	3076.25	3001.82	2931.59	2913.65	2960.03
17	3253.84	3276.03	3235.38	3138.80	3070.17	3053.13	2968.24	2888.89	2870.62	2923.45
18	3206.88	3246.18	3227.87	3127.03	3051.45	3028.23	2931.48	2844.36	2826.14	2882.05
19	3153.96	3205.29	3217.98	3112.95	3032.47	3004.61	2891.98	2797.74	2777.98	2839.35
20	3104.49	3157.71	3204.66	3097.45	3012.91	2979.42	2853.28	2753.66	2730.14	2796.40
21	3062.53	3103.92	3186.30	3080.01	2991.39	2952.12	2813.73	2708.18	2683.04	2752.66
22	3031.18	3055.21	3162.68	3063.59	2968.13	2922.14	2772.57	2660.57	2638.65	2703.41
23	3008.61	3013.28	3131.25	3048.99	2944.48	2890.55	2731.01	2617.16	2598.51	2657.50
24	2990.92	2981.63	3090.66	3032.41	2919.32	2856.20	2687.66	2576.23	2561.89	2615.94
25	2976.91	2957.80	3046.44	3015.49	2892.09	2819.30	2644.27	2538.62	2528.40	2575.88
26	2964.91	2937.08	2997.98	2996.55	2864.32	2779.84	2599.11	2504.22	2498.10	2540.36
27	2950.45	2920.37	2948.86	2975.23	2836.59	2741.76	2554.98	2471.72	2466.75	2508.03
28	2929.15	2904.01	2899.56	2952.19	2808.78	2702.94	2507.51	2438.03	2435.73	2475.39
29	2895.98	2885.39	2856.15	2927.18	2782.18	2662.50	2461.21	2402.97	2402.93	2442.69
30	2849.60	2860.80	2816.32	2900.82	2753.04	2621.66	2415.43	2369.26	2368.30	2410.55
31	2789.98	2827.11	2783.95	2873.54	2724.04	2581.10	2374.69	2334.96	2326.73	2375.90
32	2725.79	2783.96	2755.10	2848.22	2691.09	2540.15	2336.62	2294.68	2277.62	2340.15
33	2665.43	2724.52	2726.09	2822.04	2658.86	2496.73	2297.87	2248.42	2223.80	2301.09
34	2614.48	2660.04	2697.07	2791.36	2626.06	2453.20	2260.53	2196.23	2169.33	2255.12
35	2574.31	2596.86	2669.57	2760.18	2592.44	2408.42	2224.04	2142.40	2111.77	2203.60
36	2542.25	2539.69	2638.84	2726.08	2555.84	2361.63	2186.90	2085.42	2054.89	2149.32
37	2514.18	2491.51	2605.95	2688.37	2519.01	2313.61	2147.35	2027.29	1999.01	2091.45
38	2486.96	2453.23	2568.62	2646.37	2476.88	2262.31	2104.86	1969.24	1947.16	2035.81
39	2457.22	2420.31	2523.40	2599.64	2436.31	2209.75	2057.84	1916.74	1899.64	1981.17
40	2416.70	2389.18	2468.45	2544.77	2393.45	2156.88	2003.57	1867.48	1849.49	1924.65
41	2359.32	2357.34	2407.73	2487.89	2350.47	2104.99	1947.32	1816.95	1797.59	1871.61
42	2285.10	2318.32	2340.57	2431.80	2307.12	2051.19	1887.29	1766.03	1742.59	1821.01
43	2200.40	2264.81	2274.90	2374.66	2258.64	2001.45	1829.66	1711.59	1676.80	1770.29
44	2120.49	2196.71	2215.91	2313.50	2210.77	1949.02	1768.83	1646.38	1611.01	1720.44
45	2056.79	2116.68	2161.94	2252.40	2163.43	1895.34	1712.47	1581.16	1545.27	1658.79
46	2007.01	2035.05	2115.39	2192.06	2114.02	1844.79	1655.73	1515.96	1483.42	1597.14
47	1965.71	1963.15	2072.67	2135.42	2061.36	1796.96	1598.99	1451.92	1428.82	1535.36
48	1926.19	1906.81	2030.90	2077.84	2008.36	1746.38	1542.29	1393.85	1372.52	1469.95
49	1882.72	1861.48	1985.05	2022.51	1955.04	1694.20	1487.56	1337.35	1304.07	1408.24
50	1823.71	1820.84	1932.05	1968.34	1893.28	1636.08	1431.05	1277.21	1228.53	1349.68
51	1745.15	1777.06	1870.12	1919.49	1831.92	1577.97	1368.01	1204.71	1164.08	1291.64
52	1650.72	1720.61	1796.69	1867.45	1769.72	1519.83	1301.85	1132.97	1117.38	1222.55

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**CANDELA TABULATION - (Cont.)**

53	1556.72	1643.98	1713.67	1815.00	1709.27	1460.31	1234.81	1078.00	1056.76	1148.15
54	1481.11	1552.67	1629.04	1755.73	1640.25	1398.12	1167.78	1026.23	979.51	1084.63
55	1425.27	1457.11	1557.65	1683.99	1571.23	1324.13	1099.09	955.59	921.07	1035.79
56	1376.91	1370.33	1499.68	1608.19	1502.18	1245.39	1035.28	885.52	862.50	973.23
57	1339.38	1309.09	1449.21	1531.53	1431.93	1167.87	967.94	832.91	787.36	896.41
58	1301.19	1260.72	1399.99	1453.47	1362.96	1095.52	895.14	762.07	735.85	838.55
59	1227.15	1214.27	1339.07	1371.25	1283.83	1025.63	831.82	701.53	664.73	776.68
60	1120.63	1177.73	1262.49	1283.90	1207.87	957.51	778.59	636.86	610.93	707.65
61	1012.14	1106.23	1172.32	1201.50	1130.17	887.97	714.20	579.51	552.58	652.48
62	943.06	1005.72	1076.54	1123.47	1053.00	820.00	647.42	523.28	528.32	588.25
63	916.07	898.75	995.51	1057.58	978.31	755.68	591.00	493.33	506.74	526.98
64	896.73	858.05	927.12	987.91	910.02	691.04	526.27	472.82	480.51	484.59
65	834.62	818.54	867.90	917.56	831.14	626.83	474.59	446.78	451.27	463.15
66	723.77	779.02	797.39	843.97	755.61	560.28	420.97	416.16	421.12	438.98
67	611.24	693.62	726.84	765.45	689.54	503.83	375.06	384.75	389.78	410.47
68	573.16	567.44	656.29	686.84	615.82	445.55	347.80	353.71	358.78	379.35
69	560.81	514.92	580.09	608.77	551.20	390.12	322.69	323.36	328.22	347.92
70	460.63	489.91	527.77	545.01	479.55	338.87	294.83	294.63	300.22	317.36
71	341.87	436.05	491.03	483.21	420.99	294.56	265.99	267.87	273.86	288.22
72	322.05	305.00	405.47	440.48	362.33	253.51	237.04	241.89	247.98	260.91
73	307.73	277.68	323.53	366.79	300.95	213.86	210.17	216.41	222.76	235.11
74	201.32	265.90	290.44	309.64	250.41	176.63	186.59	192.59	199.31	209.80
75	131.41	169.86	249.66	244.64	205.30	146.18	164.28	170.13	177.39	186.04
76	115.69	110.06	161.80	219.68	157.38	123.72	142.08	149.09	156.03	164.04
77	99.77	95.87	153.69	165.82	119.44	105.84	121.80	128.91	135.76	142.77
78	83.22	80.18	97.02	128.00	88.93	89.65	102.81	109.62	116.20	123.33
79	68.00	65.03	64.23	101.93	63.15	73.48	86.01	91.77	97.99	104.24
80	54.13	51.30	51.30	67.98	46.24	58.78	70.10	75.32	81.13	86.90
81	41.60	39.08	39.16	47.79	33.64	46.30	55.55	60.31	65.23	70.36
82	30.22	27.99	28.52	29.61	25.43	34.96	42.91	46.29	50.25	55.77
83	23.00	20.67	19.91	21.35	18.87	25.48	31.57	33.15	36.55	41.80
84	17.55	15.29	13.98	14.09	13.61	17.66	21.61	22.17	24.92	29.54
85	12.28	10.55	9.31	9.09	9.08	11.56	13.57	13.91	15.83	19.60
86	7.18	6.05	5.52	5.29	5.37	6.81	7.89	8.49	9.96	11.90
87	3.41	2.84	2.50	2.48	2.77	3.58	4.48	4.71	5.58	7.16
88	0.71	0.59	0.69	0.61	0.85	1.28	1.90	1.88	2.38	3.76
89	0.01	0.00	0.00	0.01	0.00	0.00	0.24	0.21	0.48	1.34
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
97	0.00	0.00	0.00	0.00	0.05	0.11	0.00	0.00	0.00	0.00
98	0.00	0.00	0.00	0.00	0.11	0.19	0.06	0.00	0.00	0.00
99	0.00	0.00	0.00	0.00	0.19	0.24	0.11	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.30	0.32	0.19	0.08	0.00	0.03
101	0.00	0.00	0.00	0.00	0.38	0.40	0.27	0.14	0.08	0.11
102	0.00	0.00	0.00	0.05	0.46	0.49	0.35	0.22	0.14	0.19
103	0.00	0.00	0.00	0.29	0.54	0.56	0.40	0.27	0.22	0.27
104	0.00	0.00	0.00	0.35	0.62	0.67	0.54	0.38	0.27	0.32
105	0.00	0.00	0.10	0.35	0.72	0.75	0.59	0.46	0.41	0.41
106	0.00	0.00	0.16	0.43	0.78	0.83	0.67	0.54	0.46	0.49
107	0.00	0.05	0.35	0.51	0.91	0.97	0.73	0.59	0.54	0.62
108	0.00	0.08	0.32	0.73	1.08	1.02	0.81	0.62	0.62	0.68

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**CANDELA TABULATION - (Cont.)**

109	0.03	0.11	0.35	0.78	1.23	1.16	0.92	0.70	0.65	0.73
110	0.11	0.24	0.49	0.81	1.37	1.24	1.00	0.73	0.76	0.81
111	0.22	0.30	0.62	0.94	1.50	1.37	1.16	0.84	0.84	0.92
112	0.32	0.35	0.73	1.18	1.61	1.48	1.29	0.97	0.87	0.97
113	0.32	0.35	0.76	1.27	1.69	1.56	1.40	1.02	0.97	1.03
114	0.30	0.46	0.89	1.32	1.88	1.64	1.51	1.10	1.08	1.08
115	0.38	0.51	1.00	1.35	2.01	1.74	1.56	1.16	1.16	1.21
116	0.43	0.59	1.08	1.45	2.15	1.83	1.59	1.24	1.24	1.27
117	0.54	0.65	1.16	1.56	2.25	1.91	1.64	1.35	1.24	1.30
118	0.51	0.73	1.19	1.62	2.39	2.01	1.72	1.38	1.35	1.38
119	0.57	0.75	1.21	1.67	2.44	2.12	1.78	1.46	1.46	1.38
120	0.70	0.76	1.24	1.75	2.49	2.17	1.83	1.51	1.51	1.46
121	0.81	0.76	1.30	1.93	2.57	2.23	1.94	1.54	1.59	1.51
122	0.78	0.78	1.38	2.07	2.55	2.33	1.99	1.59	1.62	1.59
123	0.78	0.81	1.70	2.07	2.55	2.39	2.02	1.64	1.70	1.65
124	0.86	0.81	1.70	2.15	2.58	2.47	2.02	1.75	1.76	1.76
125	0.97	1.02	1.70	2.24	2.68	2.55	2.07	1.86	1.84	1.95
126	1.10	1.18	1.70	2.39	2.76	2.63	2.05	2.02	1.95	2.08
127	1.16	1.37	1.70	2.45	2.87	2.71	2.13	2.13	2.05	2.21
128	1.30	1.66	1.75	2.50	3.03	2.79	2.21	2.29	2.13	2.38
129	1.48	1.75	1.81	2.61	3.11	2.93	2.26	2.40	2.24	2.51
130	1.59	1.88	1.86	2.85	3.27	3.03	2.32	2.50	2.35	2.59
131	1.67	2.02	1.97	2.96	3.24	3.11	2.34	2.53	2.43	2.67
132	1.70	2.05	2.00	2.96	3.24	3.19	2.34	2.59	2.46	2.78
133	1.70	2.05	2.02	2.96	3.24	3.22	2.37	2.64	2.46	2.78
134	1.70	2.10	2.05	3.10	3.24	3.30	2.42	2.67	2.46	2.83
135	1.73	2.23	2.11	3.12	3.27	3.30	2.48	2.75	2.49	2.94
136	1.78	2.42	2.18	3.41	3.30	3.33	2.56	2.83	2.57	3.02
137	1.86	2.48	2.24	3.42	3.30	3.38	2.64	2.91	2.65	3.08
138	2.02	2.48	2.30	3.42	3.38	3.41	2.72	2.99	2.70	3.16
139	2.05	2.62	2.43	3.42	3.46	3.43	2.86	2.99	2.78	3.24
140	2.08	2.75	2.46	3.42	3.57	3.41	2.94	3.07	2.92	3.35
141	2.19	2.86	2.54	3.42	3.67	3.41	3.02	3.10	3.00	3.40
142	2.46	2.91	2.65	3.48	3.73	3.41	3.15	3.15	3.14	3.51
143	2.51	2.91	2.81	3.45	3.73	3.41	3.23	3.23	3.24	3.56
144	2.62	2.97	2.91	3.50	3.73	3.43	3.34	3.29	3.27	3.61
145	2.88	3.10	2.94	3.48	3.70	3.52	3.45	3.31	3.43	3.64
146	2.92	3.15	2.94	3.50	3.70	3.54	3.61	3.42	3.59	3.64
147	2.97	3.40	3.05	3.66	3.70	3.62	3.72	3.45	3.59	3.67
148	3.05	3.37	3.21	3.77	3.70	3.71	3.82	3.45	3.67	3.67
149	3.39	3.37	3.40	3.77	3.70	3.81	3.88	3.53	3.73	3.67
150	3.40	3.42	3.38	3.88	3.64	3.92	3.93	3.61	3.70	3.67
151	3.51	3.50	3.48	3.96	3.48	3.89	3.90	3.64	3.70	3.67
152	3.54	3.53	3.65	4.23	3.27	3.89	3.90	3.69	3.70	3.67
153	3.70	3.72	3.75	4.20	3.05	3.92	3.90	3.72	3.70	3.67
154	3.73	3.72	3.81	4.23	2.95	3.84	3.90	3.77	3.70	3.67
155	3.78	3.75	3.86	4.26	2.95	3.78	3.90	3.85	3.67	3.67
156	3.78	3.75	3.91	4.23	2.95	3.73	3.90	3.91	3.67	3.67
157	3.83	3.86	3.99	4.23	3.08	3.70	3.90	3.96	3.67	3.67
158	3.81	3.96	4.18	4.23	3.32	3.57	3.90	4.04	3.70	3.69
159	3.81	3.96	4.21	4.23	3.52	3.57	3.90	4.09	3.70	3.70
160	3.81	3.99	4.21	4.23	3.78	3.60	3.96	4.07	3.73	3.75
161	3.81	3.99	4.21	4.20	3.89	3.62	3.99	4.09	3.70	3.83
162	3.81	4.07	4.27	4.20	4.02	3.65	4.01	4.12	3.73	3.94
163	3.81	4.07	4.35	4.20	4.13	3.76	4.01	4.09	3.75	4.02
164	3.81	4.15	4.40	4.23	4.21	4.00	4.01	4.15	3.81	4.07

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GWL4-LED80-B-5K-BRZ.IES**

**CANDELA TABULATION - (Cont.)**

165	3.86	4.18	4.56	4.26	4.24	4.22	4.07	4.15	3.84	4.13
166	3.97	4.21	4.62	4.23	4.37	4.40	4.07	4.26	3.95	4.29
167	4.23	4.18	4.73	4.23	4.50	4.51	4.18	4.40	4.13	4.48
168	4.29	4.34	4.80	4.23	4.61	4.56	4.34	4.61	4.33	4.70
169	4.37	4.37	4.91	4.23	4.61	4.62	4.52	4.82	4.59	4.94
170	4.62	4.53	5.13	4.23	4.61	4.62	4.63	5.01	4.76	5.04
171	4.80	4.64	5.18	4.23	4.61	4.62	4.79	5.14	5.00	5.32
172	5.12	4.66	5.16	4.28	4.64	4.70	4.90	5.25	5.29	5.53
173	5.16	4.80	5.18	4.39	4.69	4.78	4.96	5.33	5.45	5.77
174	5.34	4.91	5.26	4.60	4.77	4.81	4.98	5.30	5.43	5.86
175	5.58	5.12	5.45	4.63	4.88	4.94	5.06	5.30	5.43	5.96
176	5.69	5.18	5.51	4.71	5.12	5.10	5.06	5.33	5.45	5.90
177	5.75	5.20	5.48	4.80	4.80	5.01	5.06	5.30	5.35	5.79
178	5.78	5.20	5.51	4.80	4.64	4.67	4.98	5.22	5.29	5.61
179	5.75	5.20	5.51	4.80	4.53	4.51	4.90	5.23	5.29	5.47
180	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71

**Vert.  
Angles**

**Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	3246.63	3246.63	3246.63	3246.63	3246.63	3246.63	3246.63
1	3246.05	3246.63	3246.93	3249.91	3249.79	3250.15	3250.66
2	3246.05	3246.61	3246.93	3252.61	3253.97	3255.51	3256.61
3	3246.36	3244.20	3245.46	3252.05	3259.33	3260.77	3263.50
4	3247.49	3241.28	3242.83	3253.50	3262.30	3266.81	3270.47
5	3244.19	3238.57	3240.72	3253.23	3266.79	3272.66	3277.25
6	3241.55	3235.86	3235.84	3252.64	3271.58	3279.20	3285.03
7	3234.57	3233.23	3231.62	3250.87	3275.65	3286.68	3294.07
8	3226.30	3227.87	3225.93	3247.98	3280.16	3294.83	3304.28
9	3212.24	3221.20	3219.56	3245.29	3284.34	3302.93	3313.57
10	3196.40	3213.80	3212.73	3242.87	3287.86	3312.57	3321.51
11	3179.27	3204.81	3203.76	3238.23	3290.01	3318.70	3327.35
12	3159.31	3194.83	3194.78	3233.14	3290.92	3324.71	3331.87
13	3137.80	3182.92	3183.70	3226.89	3291.80	3328.67	3332.47
14	3114.58	3169.32	3171.81	3219.94	3290.94	3329.26	3328.07
15	3088.41	3154.60	3158.93	3212.97	3291.80	3326.11	3315.24
16	3060.91	3138.98	3144.12	3205.73	3291.24	3314.75	3291.19
17	3028.53	3121.73	3128.44	3197.39	3288.26	3294.51	3253.84
18	2996.93	3101.41	3112.12	3190.16	3282.43	3260.05	3206.88
19	2962.81	3081.11	3095.33	3181.23	3270.85	3214.68	3153.96
20	2929.41	3057.99	3076.59	3170.36	3253.37	3164.02	3104.49
21	2892.53	3034.18	3058.96	3157.33	3227.17	3112.82	3062.53
22	2855.66	3009.71	3040.76	3142.77	3195.27	3068.10	3031.18
23	2816.80	2985.81	3024.70	3128.43	3154.24	3032.62	3008.61
24	2773.02	2961.99	3006.39	3113.90	3107.10	3005.14	2990.92
25	2730.92	2936.01	2986.40	3101.15	3056.21	2984.75	2976.91
26	2688.40	2908.63	2964.13	3085.50	3006.32	2967.02	2964.91
27	2643.89	2877.88	2940.63	3070.21	2959.82	2952.68	2950.45
28	2600.11	2843.22	2917.97	3051.80	2920.68	2938.51	2929.15
29	2554.76	2809.84	2892.28	3034.12	2887.25	2920.60	2895.98
30	2512.47	2773.64	2865.28	3014.02	2858.90	2895.53	2849.60
31	2470.10	2736.96	2837.33	2989.72	2832.20	2858.58	2789.98
32	2430.39	2698.69	2808.77	2960.03	2812.09	2806.26	2725.79
33	2388.59	2660.84	2781.32	2923.69	2787.75	2743.30	2665.43
34	2352.88	2620.83	2749.33	2884.10	2766.73	2677.32	2614.48
35	2315.53	2580.21	2715.72	2841.68	2744.81	2618.25	2574.31

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GWL4-LED80-B-5K-BRZ.IES**

**CANDELA TABULATION - (Cont.)**

36	2277.06	2538.99	2680.11	2797.33	2720.49	2565.80	2542.25
37	2238.95	2495.16	2642.45	2750.18	2684.50	2526.42	2514.18
38	2199.54	2450.85	2603.94	2697.51	2636.85	2494.51	2486.96
39	2159.99	2405.12	2565.63	2643.91	2578.74	2465.05	2457.22
40	2119.15	2359.36	2528.99	2588.69	2509.91	2434.43	2416.70
41	2076.46	2309.54	2492.12	2533.29	2442.92	2399.75	2359.32
42	2028.94	2255.70	2457.15	2480.22	2381.03	2356.35	2285.10
43	1976.32	2201.28	2417.24	2428.77	2326.36	2297.74	2200.40
44	1918.68	2148.03	2376.67	2383.19	2281.26	2223.80	2120.49
45	1861.30	2093.92	2332.11	2341.40	2242.46	2140.36	2056.79
46	1800.46	2042.38	2282.81	2300.64	2203.68	2059.77	2007.01
47	1739.44	1985.49	2231.85	2258.21	2165.17	1997.31	1965.71
48	1680.50	1932.07	2179.51	2214.80	2125.42	1949.45	1926.19
49	1625.91	1876.65	2126.53	2169.32	2075.69	1906.68	1882.72
50	1571.31	1823.67	2077.05	2121.24	2012.90	1865.41	1823.71
51	1516.70	1766.75	2024.44	2072.00	1938.05	1818.61	1745.15
52	1459.14	1707.67	1967.13	2018.07	1854.88	1759.26	1650.72
53	1401.98	1650.02	1904.06	1957.96	1771.15	1676.92	1556.72
54	1336.53	1592.38	1840.35	1887.55	1703.58	1583.05	1481.11
55	1263.74	1534.76	1779.72	1811.23	1646.82	1489.25	1425.27
56	1190.63	1480.49	1717.85	1730.43	1595.52	1413.01	1376.91
57	1121.24	1414.98	1658.49	1649.84	1546.93	1354.49	1339.38
58	1058.55	1339.32	1585.02	1571.38	1491.94	1303.89	1301.19
59	998.80	1269.00	1506.97	1497.77	1421.72	1264.94	1227.15
60	927.06	1196.47	1432.89	1432.91	1327.24	1218.93	1120.63
61	844.58	1125.87	1363.48	1368.90	1229.15	1137.52	1012.14
62	782.07	1055.11	1288.54	1308.44	1142.65	1030.63	943.06
63	732.70	979.11	1212.44	1246.14	1076.29	930.98	916.07
64	664.29	899.63	1133.57	1171.50	1024.24	876.43	896.73
65	599.22	826.89	1060.78	1079.20	979.24	850.89	834.62
66	543.65	756.55	988.45	987.45	922.61	789.89	723.77
67	481.57	690.66	911.35	902.91	829.02	728.56	611.24
68	429.04	624.37	837.45	835.89	737.07	597.70	573.16
69	377.14	556.41	763.64	769.22	645.12	547.55	560.81
70	330.53	496.00	689.84	702.54	603.88	525.49	460.63
71	303.80	433.96	623.60	634.70	569.62	477.59	341.87
72	277.98	374.32	552.19	558.30	475.25	339.79	322.05
73	249.27	325.02	484.02	478.00	389.64	299.94	307.73
74	221.20	272.93	423.44	417.58	349.06	291.23	201.32
75	193.80	226.07	358.50	369.87	304.90	205.34	131.41
76	169.49	183.82	297.40	310.08	206.55	123.14	115.69
77	147.51	145.74	243.18	250.23	185.80	106.74	99.77
78	126.68	115.16	191.67	203.46	148.28	90.84	83.22
79	107.55	94.06	146.66	168.50	81.83	74.93	68.00
80	89.78	76.79	107.02	118.13	66.89	60.02	54.13
81	73.61	61.81	74.50	90.48	53.26	46.88	41.60
82	58.77	49.30	51.01	56.80	40.56	34.93	30.22
83	45.38	37.98	34.66	41.51	30.00	25.38	23.00
84	33.82	28.24	23.79	26.26	21.17	19.34	17.55
85	23.74	20.27	17.46	18.55	15.16	14.20	12.28
86	15.47	13.64	12.27	12.44	10.43	9.25	7.18
87	9.12	8.53	8.03	7.69	6.37	4.94	3.41
88	5.04	4.80	4.64	4.18	3.09	1.77	0.71
89	2.40	2.27	1.90	1.52	0.92	0.23	0.01
90	0.53	0.50	0.41	0.21	0.03	0.00	0.00
91	0.00	0.00	0.01	0.00	0.00	0.00	0.00

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GWL4-LED80-B-5K-BRZ.IES**

**CANDELA TABULATION - (Cont.)**

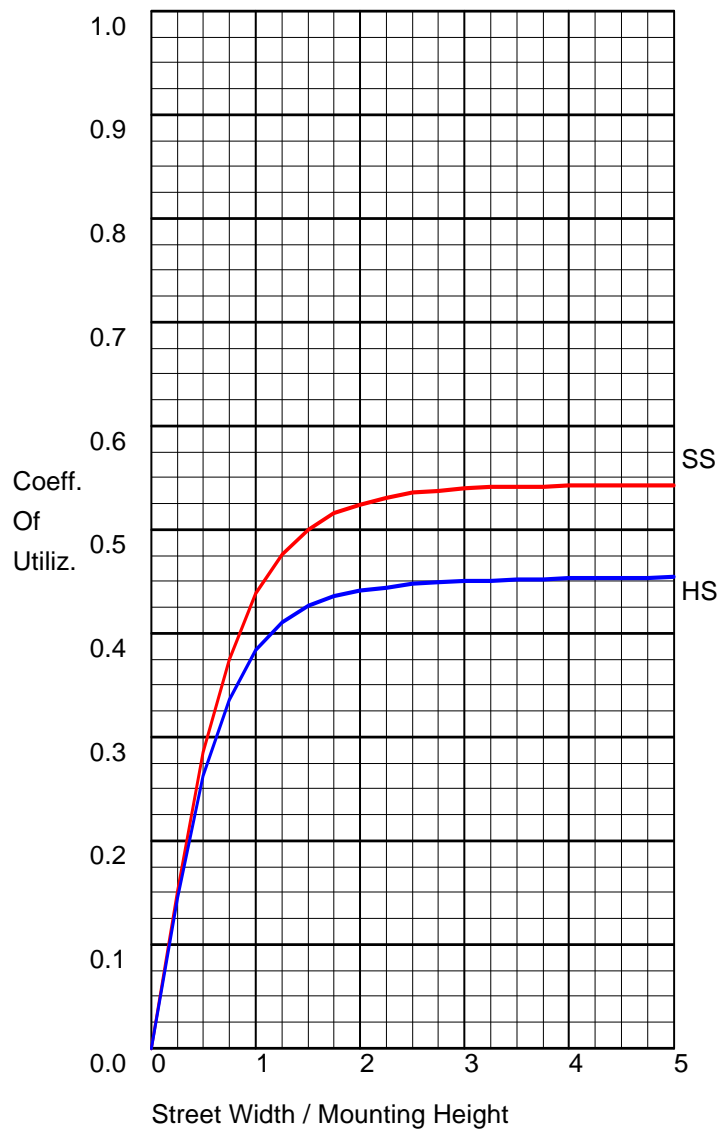
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	0.03	0.08	0.00	0.00	0.00	0.00	0.00
99	0.08	0.11	0.00	0.00	0.00	0.00	0.00
100	0.16	0.16	0.00	0.00	0.00	0.00	0.00
101	0.19	0.24	0.00	0.00	0.00	0.00	0.00
102	0.27	0.30	0.05	0.00	0.00	0.00	0.00
103	0.35	0.38	0.08	0.00	0.00	0.00	0.00
104	0.46	0.49	0.13	0.00	0.00	0.00	0.00
105	0.51	0.57	0.32	0.05	0.00	0.00	0.00
106	0.62	0.67	0.32	0.18	0.00	0.00	0.00
107	0.73	0.78	0.40	0.32	0.03	0.00	0.00
108	0.81	0.89	0.54	0.35	0.08	0.00	0.00
109	0.92	1.00	0.72	0.43	0.21	0.05	0.03
110	1.05	1.14	0.80	0.51	0.32	0.13	0.11
111	1.16	1.27	0.96	0.77	0.30	0.19	0.22
112	1.27	1.38	1.17	0.78	0.43	0.27	0.32
113	1.38	1.51	1.18	0.80	0.51	0.35	0.32
114	1.49	1.62	1.31	0.91	0.67	0.32	0.30
115	1.59	1.75	1.60	1.18	0.67	0.32	0.38
116	1.73	1.86	1.74	1.21	0.70	0.38	0.43
117	1.84	1.97	1.74	1.26	0.78	0.43	0.54
118	1.84	2.05	1.77	1.37	0.89	0.48	0.51
119	1.89	2.16	1.87	1.47	0.89	0.48	0.57
120	1.89	2.24	2.01	1.58	0.97	0.48	0.70
121	1.89	2.29	2.04	1.64	1.00	0.51	0.81
122	1.92	2.35	2.12	1.66	1.13	0.65	0.78
123	1.97	2.43	2.14	1.77	1.16	0.73	0.78
124	2.06	2.51	2.20	1.85	1.18	0.83	0.86
125	2.16	2.62	2.30	2.03	1.21	1.04	0.97
126	2.27	2.75	2.44	2.04	1.34	1.18	1.10
127	2.30	2.83	2.47	2.09	1.35	1.32	1.16
128	2.35	2.80	2.52	2.17	1.37	1.71	1.30
129	2.35	2.80	2.73	2.20	1.61	1.70	1.48
130	2.40	2.80	2.79	2.23	1.78	1.70	1.59
131	2.43	2.80	2.87	2.28	1.75	1.72	1.67
132	2.46	2.80	3.03	2.46	1.75	1.85	1.70
133	2.46	2.80	3.05	2.52	1.75	1.91	1.70
134	2.48	2.80	3.03	2.50	1.75	1.96	1.70
135	2.51	2.80	3.08	2.50	1.75	2.07	1.73
136	2.57	2.88	3.21	2.52	1.83	2.07	1.78
137	2.73	2.91	3.37	2.55	1.91	2.13	1.86
138	2.81	2.88	3.35	2.60	2.07	2.18	2.02
139	2.89	2.88	3.38	2.63	2.15	2.39	2.05
140	3.05	2.88	3.54	2.66	2.34	2.42	2.08
141	3.16	2.91	3.54	2.87	2.45	2.53	2.19
142	3.30	2.94	3.56	2.90	2.58	2.61	2.46
143	3.40	2.99	3.67	2.92	2.72	2.66	2.51
144	3.46	2.96	3.73	2.92	2.88	2.77	2.62
145	3.51	2.99	3.78	2.92	2.88	2.85	2.88
146	3.62	3.10	3.75	3.00	3.01	2.88	2.92
147	3.67	3.16	3.75	3.09	3.10	3.02	2.97

IES ROAD REPORT  
PHOTOMETRIC FILENAME : GWL4-LED80-B-5K-BRZ.IES

CANDELA TABULATION - (Cont.)

148	3.73	3.29	3.78	3.35	3.34	3.10	3.05
149	3.81	3.42	3.78	3.35	3.39	3.34	3.39
150	3.78	3.56	3.81	3.41	3.39	3.37	3.40
151	3.78	3.61	3.75	3.54	3.42	3.37	3.51
152	3.78	3.61	3.57	3.65	3.55	3.45	3.54
153	3.78	3.61	3.46	3.76	3.63	3.47	3.70
154	3.81	3.61	3.35	3.76	3.74	3.50	3.73
155	3.78	3.61	3.35	3.78	3.74	3.53	3.78
156	3.75	3.61	3.35	3.78	3.77	3.63	3.78
157	3.75	3.61	3.46	3.81	3.88	3.69	3.83
158	3.75	3.61	3.67	3.81	3.90	3.72	3.81
159	3.73	3.66	3.72	3.84	3.90	3.74	3.81
160	3.67	3.69	3.78	3.89	3.96	3.74	3.81
161	3.67	3.80	3.89	3.92	3.96	3.77	3.81
162	3.67	3.88	3.91	3.94	3.96	3.77	3.81
163	3.67	3.93	4.15	3.92	4.12	3.77	3.81
164	3.70	3.99	4.15	3.94	4.20	3.80	3.81
165	3.70	4.01	4.15	3.94	4.17	3.80	3.86
166	3.89	4.10	4.31	4.13	4.31	3.96	3.97
167	4.11	4.28	4.34	4.21	4.41	4.14	4.23
168	4.43	4.50	4.34	4.21	4.60	4.20	4.29
169	4.62	4.69	4.37	4.21	4.60	4.33	4.37
170	4.73	4.82	4.37	4.26	4.68	4.57	4.62
171	4.94	4.99	4.37	4.34	4.82	4.60	4.80
172	5.13	5.15	4.40	4.51	5.08	4.79	5.12
173	5.24	5.31	4.37	4.61	5.09	5.03	5.16
174	5.24	5.33	4.56	4.64	5.14	5.14	5.34
175	5.24	5.39	4.66	4.83	5.35	5.20	5.58
176	5.24	5.50	4.64	5.10	5.49	5.30	5.69
177	5.21	5.49	4.64	5.15	5.52	5.44	5.75
178	5.10	5.41	4.66	5.13	5.52	5.47	5.78
179	5.05	5.31	4.51	5.12	5.47	5.47	5.75
180	5.71	5.71	5.71	5.71	5.71	5.71	5.71

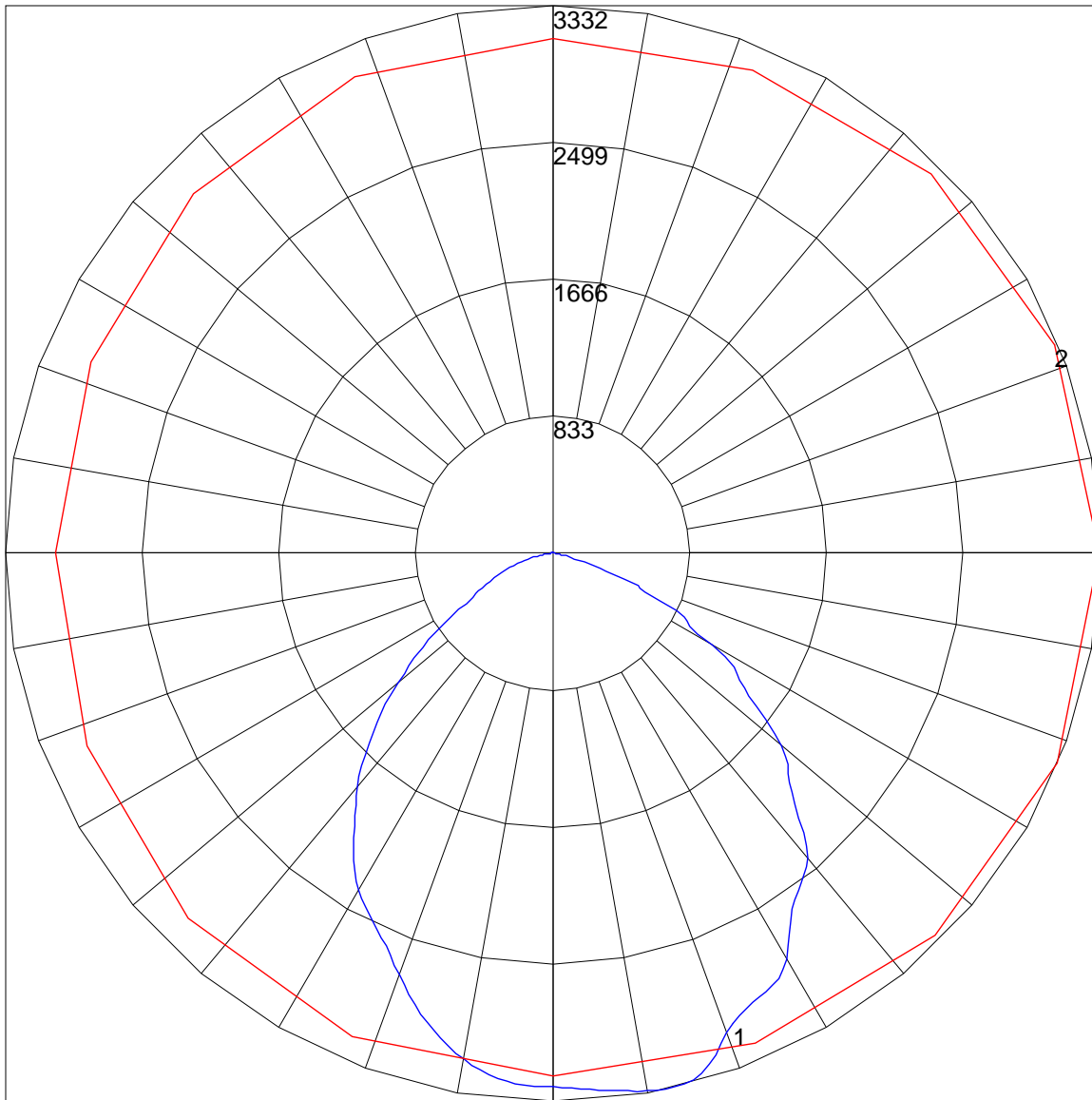
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

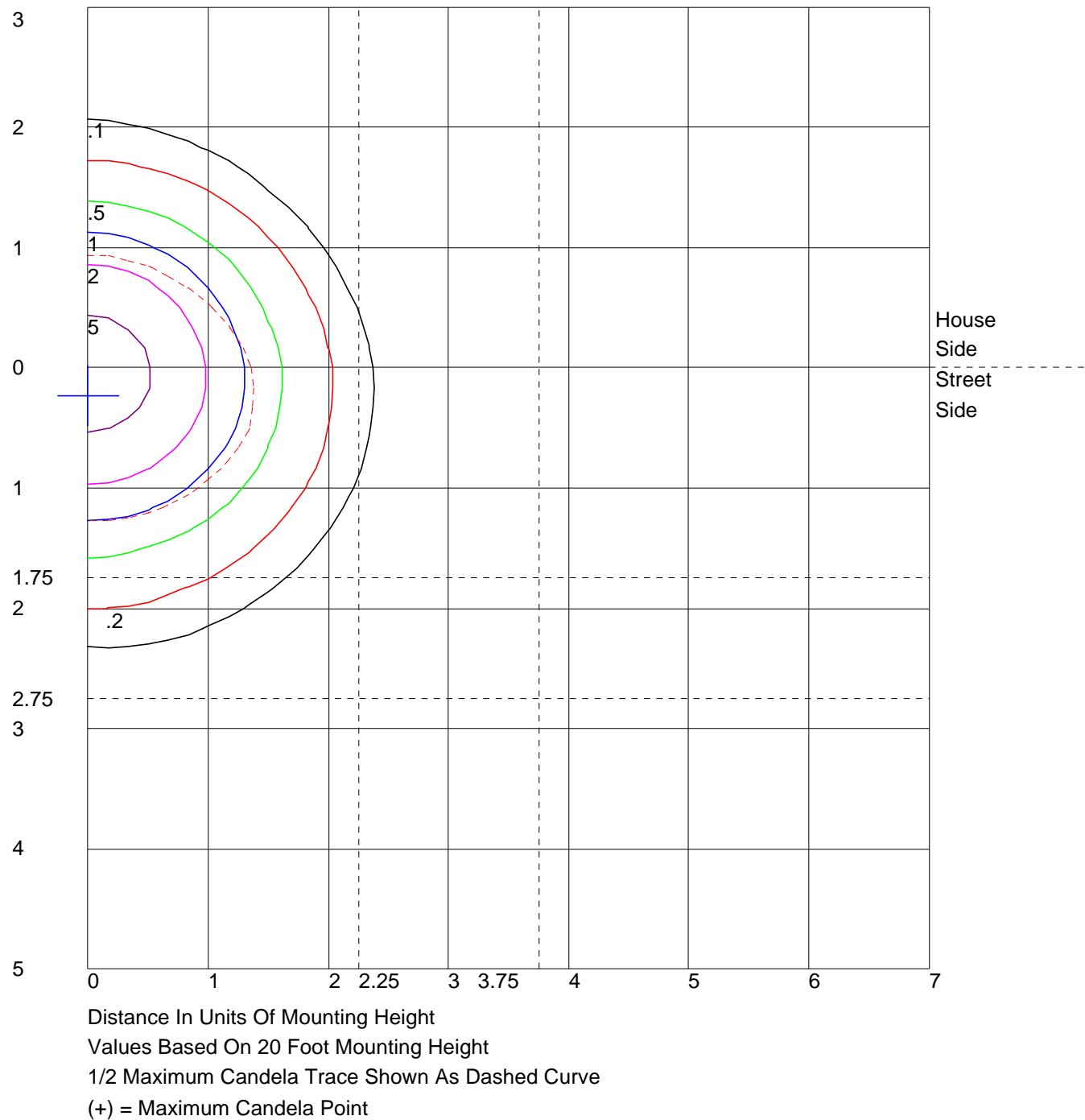
	Lumens	Percent Of Luminaire
Downward Street Side	4309.8	54.4
Downward House Side	3605.8	45.5
Downward Total	7915.6	99.9
Upward Street Side	4.8	0.1
Upward House Side	5.9	0.1
Upward Total	10.7	0.1
Total Flux	7926.3	100.0

POLAR GRAPH

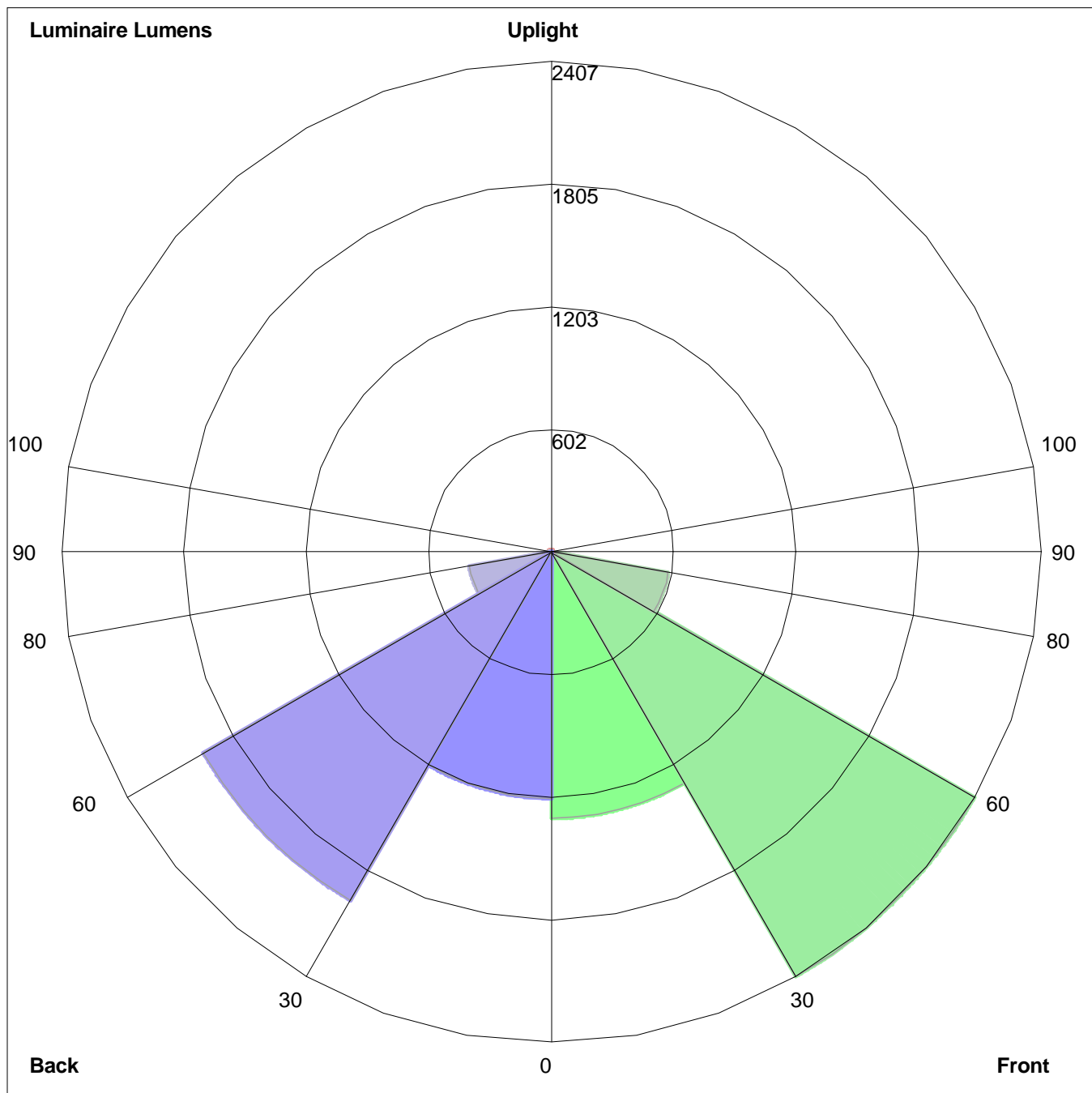


Maximum Candela = 3332.47 Located At Horizontal Angle = 360, Vertical Angle = 13  
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (13) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1308.2, Medium=2406.9, High=584.2, Very High=10.5  
Back: Low=1208.7, Medium=1974.7, High=409.2, Very High=13.2  
Uplight: Low=0.0, High=10.7

BUG Rating : B3-U2-G1