



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WLL-LED-11L-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 1196846  
[TESTLAB] UL Verification Services Inc.  
[TESTDATE] 1/29/2016  
[ISSUEDATE] 1/7/2019  
[MANUFAC] LSI INDUSTRIES, INC  
[LUMCAT] WLL-LED-11L-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11140
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	88.93
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4061.106
Maximum Candela Angle	102.5H 2.5V
Maximum Candela (<90 Degrees Vertical)	4061.106
Maximum Candela Angle (<90 Degrees Vertical)	102.5H 2.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	206.897 (1.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1602.2	N.A.	14.4
FM - Front-Medium (30-60)	3073.4	N.A.	27.6
FH - Front-High (60-80)	921.8	N.A.	8.3
FVH - Front-Very High (80-90)	26.3	N.A.	0.2
BL - Back-Low (0-30)	1598.1	N.A.	14.3
BM - Back-Medium (30-60)	3012.6	N.A.	27.0
BH - Back-High (60-80)	883.7	N.A.	7.9
BVH - Back-Very High (80-90)	21.7	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11139.8	N.A.	100.0
BUG Rating	B3-U0-G1		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>
0.0	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943
2.5	4046.930	4044.259	4047.649	4045.183	4044.978	4045.389	4049.601	4050.422	4052.683	4054.326
5.0	4041.485	4034.808	4037.787	4034.910	4035.321	4035.424	4039.841	4041.588	4043.540	4044.567
7.5	4029.055	4022.069	4024.021	4020.220	4019.501	4020.528	4024.535	4026.589	4028.644	4029.774
10.0	4012.926	4003.578	4004.811	4001.112	3998.852	3999.469	4003.270	4004.297	4007.276	4007.584
12.5	3989.504	3977.279	3977.793	3974.916	3973.067	3974.197	3976.354	3977.690	3979.847	3978.923
15.0	3956.733	3940.810	3939.577	3937.934	3936.701	3937.934	3939.577	3940.502	3941.837	3941.118
17.5	3912.148	3893.863	3891.397	3890.883	3889.445	3890.986	3892.116	3893.554	3895.095	3893.760
20.0	3861.605	3839.519	3835.718	3835.204	3833.560	3833.252	3836.950	3837.772	3839.724	3837.464
22.5	3803.563	3774.285	3772.128	3771.512	3769.046	3768.224	3772.642	3774.696	3777.162	3775.107
25.0	3735.248	3702.683	3701.964	3701.142	3697.238	3696.005	3700.320	3704.121	3706.997	3704.840
27.5	3657.482	3626.355	3626.560	3624.403	3618.958	3618.445	3621.732	3626.252	3629.950	3628.409
30.0	3573.038	3543.452	3543.452	3538.932	3533.384	3535.028	3536.364	3540.267	3543.760	3543.657
32.5	3481.917	3450.687	3448.838	3445.242	3440.620	3442.263	3443.085	3445.448	3447.913	3449.352
35.0	3382.886	3345.389	3343.232	3340.972	3336.555	3338.609	3339.945	3341.280	3343.232	3343.335
37.5	3266.904	3226.428	3226.428	3223.860	3220.367	3223.141	3222.730	3225.196	3226.120	3227.147
40.0	3138.903	3096.578	3100.276	3097.092	3096.167	3099.660	3098.325	3098.530	3099.455	3100.585
42.5	2997.341	2953.168	2961.900	2964.776	2967.447	2974.638	2971.043	2966.831	2969.810	2970.632
45.0	2842.220	2793.731	2804.518	2818.078	2832.666	2841.398	2837.391	2832.563	2833.899	2830.611
47.5	2678.161	2621.557	2633.473	2653.300	2682.372	2695.625	2692.337	2683.913	2681.756	2674.873
50.0	2496.535	2437.568	2452.258	2475.372	2509.787	2537.216	2531.154	2520.676	2515.026	2507.629
52.5	2300.424	2247.313	2259.948	2284.912	2325.079	2356.514	2351.789	2338.947	2331.140	2321.175
55.0	2113.250	2062.091	2069.179	2088.493	2123.010	2157.321	2155.575	2140.474	2136.673	2129.995
57.5	1942.719	1888.889	1889.095	1897.210	1912.209	1937.275	1946.212	1943.849	1944.877	1940.973
60.0	1769.620	1709.626	1713.119	1715.584	1707.880	1704.592	1735.822	1750.204	1753.800	1754.108
62.5	1579.776	1525.226	1528.925	1530.466	1508.995	1480.539	1526.151	1548.340	1557.792	1563.442
65.0	1389.726	1314.631	1340.416	1338.053	1302.406	1283.606	1312.987	1342.265	1356.955	1369.694
67.5	1091.399	1042.397	1057.704	1104.446	1101.467	1099.823	1108.247	1131.156	1149.133	1162.077
70.0	883.064	814.851	843.718	844.951	866.832	912.444	912.855	918.711	933.196	949.427
72.5	636.821	597.373	603.947	614.118	652.127	701.849	731.435	729.586	733.387	738.626
75.0	444.100	412.151	421.397	420.472	440.915	494.027	545.083	545.083	543.542	543.029
77.5	288.670	255.180	264.015	272.028	285.794	309.730	337.159	351.232	362.635	363.149
80.0	171.969	149.985	149.574	150.704	158.204	168.785	178.339	185.119	192.618	203.507
82.5	92.148	76.431	78.177	77.972	76.534	75.095	76.328	79.205	78.896	81.362
85.0	25.785	18.389	20.340	22.498	24.450	24.758	23.525	22.292	21.984	22.190
87.5	5.753	4.417	4.623	4.623	4.417	4.417	4.212	3.904	3.801	3.801
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>
0.0	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943
2.5	4056.689	4058.024	4057.305	4059.976	4061.106	4059.463	4058.024	4056.586	4053.813	4050.012
5.0	4046.930	4048.984	4048.368	4050.525	4051.039	4049.806	4048.471	4046.108	4043.437	4040.458
7.5	4032.548	4035.116	4034.397	4035.835	4037.684	4035.116	4033.780	4032.342	4028.952	4025.973
10.0	4010.769	4013.234	4012.515	4013.543	4014.878	4012.721	4011.385	4010.050	4006.762	4004.091
12.5	3982.415	3984.470	3983.956	3984.265	3985.703	3982.518	3981.902	3980.053	3977.176	3974.608
15.0	3942.967	3945.536	3944.919	3944.714	3946.049	3943.378	3942.351	3939.680	3937.523	3935.982
17.5	3895.301	3897.253	3896.842	3897.047	3898.177	3895.301	3894.376	3891.705	3889.548	3887.699
20.0	3839.210	3840.957	3841.162	3840.546	3841.060	3839.313	3838.183	3835.512	3833.971	3832.430
22.5	3775.929	3777.778	3778.189	3776.134	3776.854	3775.415	3774.080	3771.306	3769.868	3768.224
25.0	3705.354	3707.203	3706.587	3704.635	3704.635	3703.299	3701.347	3698.779	3697.135	3696.416
27.5	3628.101	3630.053	3629.026	3626.766	3626.252	3624.403	3622.554	3620.088	3618.547	3618.239
30.0	3542.836	3545.609	3545.507	3542.836	3542.527	3539.548	3537.288	3535.953	3533.076	3533.590
32.5	3448.427	3452.742	3452.742	3450.893	3449.865	3447.194	3442.982	3442.161	3439.490	3439.900
35.0	3341.896	3348.368	3347.855	3348.163	3345.184	3341.896	3335.733	3335.014	3332.651	3333.473
37.5	3226.737	3231.668	3230.435	3230.127	3227.147	3222.730	3216.875	3214.923	3212.663	3213.793
40.0	3099.146	3103.564	3105.413	3104.386	3101.201	3095.654	3089.490	3086.922	3085.175	3086.408
42.5	2968.269	2970.632	2972.789	2969.399	2965.495	2960.461	2956.147	2949.367	2947.004	2948.750
45.0	2825.988	2827.118	2826.605	2823.112	2819.619	2816.024	2809.141	2801.128	2798.457	2799.895
47.5	2668.196	2667.990	2665.217	2661.724	2658.950	2656.074	2648.883	2640.356	2638.199	2638.918
50.0	2497.767	2493.555	2488.830	2482.872	2481.228	2479.276	2472.804	2460.477	2458.319	2459.346
52.5	2308.848	2304.430	2302.478	2295.493	2294.363	2294.671	2289.534	2277.001	2275.769	2277.721
55.0	2119.517	2117.565	2116.743	2108.936	2106.470	2110.477	2109.141	2097.944	2096.300	2096.506
57.5	1936.042	1934.912	1932.857	1927.413	1924.742	1928.440	1929.365	1917.448	1916.010	1915.701
60.0	1753.389	1754.211	1751.231	1746.095	1743.732	1744.759	1750.820	1738.801	1732.021	1730.480
62.5	1562.825	1571.763	1571.763	1564.674	1560.360	1559.435	1568.270	1560.154	1552.450	1552.244
65.0	1371.646	1381.097	1385.617	1375.344	1368.050	1366.201	1373.700	1369.385	1359.421	1360.140
67.5	1167.727	1177.795	1185.500	1179.747	1172.350	1173.172	1176.459	1175.946	1167.214	1166.905
70.0	961.241	972.233	981.273	982.095	979.116	975.418	973.055	973.055	968.535	965.658
72.5	749.207	762.459	776.225	777.663	778.999	774.376	772.116	768.828	767.185	761.637
75.0	540.152	545.083	556.692	558.952	560.390	560.493	557.103	550.733	551.042	548.371
77.5	355.136	356.369	361.916	366.539	370.648	375.990	371.881	362.738	364.793	363.663

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**CANDELA TABULATION - (Cont.)**

80.0	198.576	201.350	201.247	199.295	201.247	206.897	205.870	200.425	200.734	201.042
82.5	82.492	85.985	88.758	87.423	85.676	86.807	87.526	85.368	85.060	85.882
85.0	22.087	21.881	22.703	22.292	21.676	22.087	21.676	20.649	20.340	20.546
87.5	3.698	3.596	3.698	3.596	3.493	3.493	3.493	3.390	3.287	3.287
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>
0.0	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943
2.5	4054.429	4058.333	4058.744	4059.463	4061.106	4060.285	4058.024	4058.435	4057.305	4055.251
5.0	4045.081	4048.779	4048.471	4049.292	4050.320	4049.601	4047.032	4048.162	4046.313	4043.848
7.5	4030.904	4035.218	4034.499	4035.527	4035.424	4034.910	4032.548	4033.267	4031.109	4029.055
10.0	4009.022	4014.262	4012.618	4013.029	4013.645	4012.413	4010.050	4010.358	4008.303	4006.249
12.5	3979.744	3985.395	3984.265	3983.648	3984.367	3983.648	3981.183	3981.183	3979.642	3978.614
15.0	3940.810	3946.152	3945.125	3943.995	3944.919	3943.481	3942.043	3942.659	3941.221	3940.502
17.5	3892.835	3898.691	3897.047	3895.712	3896.842	3894.993	3893.965	3894.582	3893.452	3892.733
20.0	3837.259	3842.292	3841.470	3840.443	3840.135	3839.416	3837.669	3838.286	3836.539	3836.950
22.5	3772.231	3777.059	3776.545	3774.902	3775.313	3773.874	3773.874	3773.669	3772.333	3773.053
25.0	3700.936	3705.354	3703.607	3701.245	3702.477	3701.450	3701.861	3702.477	3700.936	3699.395

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WLL-LED-11L-50.IES**

**CANDELA TABULATION - (Cont.)**

27.5	3621.835	3625.841	3624.403	3622.451	3623.684	3623.273	3623.067	3624.608	3623.273	3621.115
30.0	3536.466	3540.165	3539.548	3538.110	3537.699	3539.035	3538.007	3538.521	3537.185	3535.747
32.5	3441.133	3445.037	3446.064	3446.270	3446.578	3446.783	3444.010	3442.777	3441.647	3440.722
35.0	3335.424	3339.636	3339.842	3339.945	3341.691	3341.691	3338.198	3335.424	3334.911	3333.575
37.5	3215.745	3218.518	3219.443	3220.265	3222.627	3222.627	3218.826	3214.409	3214.512	3213.998
40.0	3087.435	3088.668	3091.134	3092.572	3095.551	3094.729	3089.182	3085.586	3084.970	3085.997
42.5	2949.469	2949.778	2953.989	2956.866	2960.872	2960.872	2956.044	2952.654	2952.859	2953.476
45.0	2799.484	2801.642	2807.600	2812.120	2814.688	2815.099	2810.784	2807.497	2808.422	2811.195
47.5	2638.712	2642.513	2646.623	2648.883	2649.807	2651.964	2648.369	2647.547	2651.245	2656.485
50.0	2459.038	2463.558	2469.619	2471.674	2467.257	2471.674	2470.236	2473.420	2478.660	2487.289
52.5	2275.255	2278.645	2285.014	2288.713	2279.981	2282.857	2282.343	2285.117	2289.637	2301.348
55.0	2093.937	2098.868	2105.238	2103.902	2093.629	2098.766	2097.225	2097.225	2102.361	2105.649
57.5	1914.982	1920.119	1924.023	1916.729	1910.976	1917.140	1915.496	1914.880	1914.571	1907.689
60.0	1731.610	1740.548	1744.143	1734.076	1730.377	1734.589	1733.254	1731.713	1722.673	1710.345
62.5	1553.477	1562.620	1559.538	1551.833	1547.930	1552.450	1551.217	1538.376	1521.836	1507.660
65.0	1359.626	1368.872	1364.044	1360.551	1357.263	1364.968	1357.674	1340.108	1324.082	1313.501
67.5	1167.419	1172.864	1165.570	1165.981	1164.132	1167.522	1151.188	1130.334	1118.314	1108.966
70.0	967.816	970.589	965.145	966.069	965.761	959.803	939.257	923.950	917.581	905.767
72.5	765.746	764.719	762.151	768.520	760.815	749.104	735.955	724.860	718.388	716.539
75.0	550.528	546.316	547.241	551.042	538.611	532.037	523.921	517.552	523.715	528.338
77.5	360.684	356.574	363.765	360.273	352.465	349.075	345.171	343.117	344.863	346.712
80.0	197.241	196.933	197.035	193.029	189.947	192.002	191.180	189.331	187.687	181.729
82.5	83.519	83.725	81.875	81.156	80.848	82.286	79.410	74.582	73.760	70.678
85.0	19.621	19.416	19.416	19.519	19.621	18.800	18.389	16.848	17.464	17.259
87.5	3.185	3.185	3.287	3.287	3.185	3.185	3.185	2.979	2.979	3.082
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WLL-LED-11L-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u><b>117.5</b></u>	<u><b>120.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>	<u><b>175.0</b></u>	<u><b>180.0</b></u>
<b>0.0</b>	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943	4054.943
<b>2.5</b>	4052.272	4051.552	4050.628	4046.416	4044.875	4046.827	4049.190	4044.978	4033.369
<b>5.0</b>	4041.588	4040.869	4039.636	4035.321	4034.294	4036.246	4039.533	4033.678	4018.884
<b>7.5</b>	4026.281	4024.740	4023.199	4019.809	4017.857	4020.631	4024.124	4018.576	4003.167
<b>10.0</b>	4002.961	4002.961	4000.804	3998.339	3996.592	3999.160	4002.345	3996.592	3978.101
<b>12.5</b>	3975.635	3973.889	3972.862	3970.807	3969.266	3970.602	3971.937	3964.951	3943.275
<b>15.0</b>	3937.009	3937.317	3935.365	3933.722	3931.770	3930.537	3928.893	3922.627	3897.869
<b>17.5</b>	3889.240	3889.548	3887.699	3885.439	3883.281	3882.254	3879.686	3873.111	3845.991
<b>20.0</b>	3832.944	3831.814	3829.862	3826.677	3824.931	3825.753	3822.979	3817.329	3784.764
<b>22.5</b>	3768.122	3766.375	3763.396	3759.081	3757.335	3759.800	3757.232	3750.658	3714.086
<b>25.0</b>	3694.875	3692.513	3689.225	3685.219	3683.781	3685.732	3684.191	3677.411	3638.682
<b>27.5</b>	3615.465	3612.178	3609.712	3605.192	3604.576	3607.042	3604.576	3597.899	3558.348
<b>30.0</b>	3530.097	3527.221	3523.214	3520.646	3519.002	3519.619	3518.078	3507.907	3466.302
<b>32.5</b>	3434.661	3431.990	3429.217	3426.648	3423.977	3419.663	3414.218	3400.247	3354.532
<b>35.0</b>	3327.514	3325.973	3323.919	3321.248	3315.187	3302.037	3290.943	3272.759	3224.271
<b>37.5</b>	3208.759	3207.321	3205.882	3201.671	3186.364	3165.510	3149.689	3127.808	3076.340
<b>40.0</b>	3081.991	3080.655	3079.833	3068.328	3042.953	3016.141	2997.752	2976.693	2923.273
<b>42.5</b>	2949.778	2948.853	2949.367	2927.074	2891.838	2863.177	2844.274	2821.263	2767.638
<b>45.0</b>	2809.757	2809.552	2809.963	2775.343	2735.175	2704.973	2684.941	2659.566	2604.503
<b>47.5</b>	2656.690	2656.279	2652.067	2612.003	2573.582	2540.195	2515.437	2494.172	2437.568
<b>50.0</b>	2489.446	2486.056	2475.886	2438.698	2400.482	2368.431	2342.543	2327.339	2270.324
<b>52.5</b>	2300.424	2294.979	2285.733	2253.476	2217.932	2191.325	2179.203	2170.265	2112.634
<b>55.0</b>	2097.738	2085.308	2078.733	2056.955	2032.505	2025.828	2019.767	2010.521	1950.219
<b>57.5</b>	1892.690	1877.075	1864.337	1845.332	1850.263	1859.714	1852.934	1843.791	1779.174
<b>60.0</b>	1690.929	1675.109	1655.487	1631.346	1668.226	1683.738	1674.081	1666.274	1600.938
<b>62.5</b>	1490.812	1477.149	1452.802	1438.523	1474.272	1495.743	1493.072	1485.778	1420.750
<b>65.0</b>	1296.037	1279.189	1257.616	1251.760	1268.608	1303.022	1253.301	1214.469	1137.936
<b>67.5</b>	1093.351	1078.353	1078.147	1066.128	1061.197	1026.988	1023.289	1008.907	943.366
<b>70.0</b>	895.288	890.768	890.563	883.372	811.769	813.310	785.984	750.542	686.336
<b>72.5</b>	711.916	708.012	708.731	653.771	611.241	565.218	568.095	543.440	480.980
<b>75.0</b>	527.722	525.770	513.545	456.941	411.124	381.435	381.538	370.340	319.181
<b>77.5</b>	342.500	328.529	312.298	280.246	253.331	232.888	231.963	225.594	196.214
<b>80.0</b>	175.462	167.860	157.998	147.006	135.603	131.802	127.487	126.871	106.120
<b>82.5</b>	67.596	64.001	63.076	60.097	59.891	60.302	55.988	54.755	36.264
<b>85.0</b>	16.437	16.334	15.820	15.923	13.971	12.841	11.608	10.376	6.986
<b>87.5</b>	2.979	2.876	2.876	2.876	2.979	3.082	3.082	2.876	2.055
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

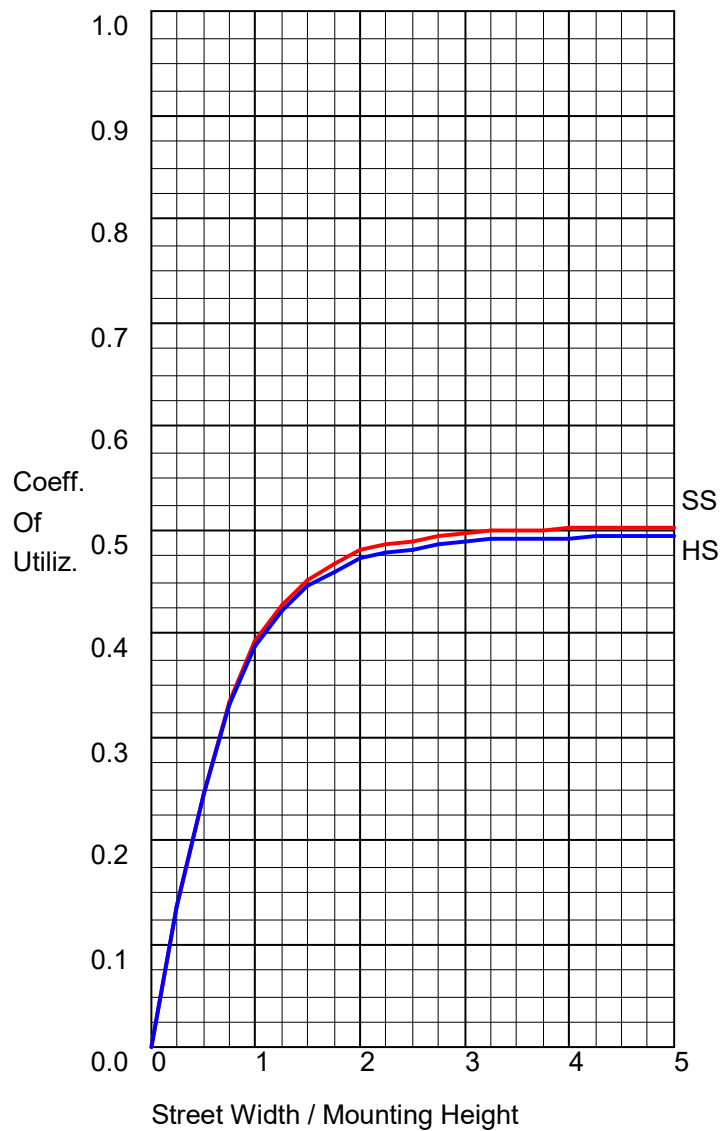
**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WLL-LED-11L-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>137.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>142.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>147.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>152.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>157.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>162.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>167.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



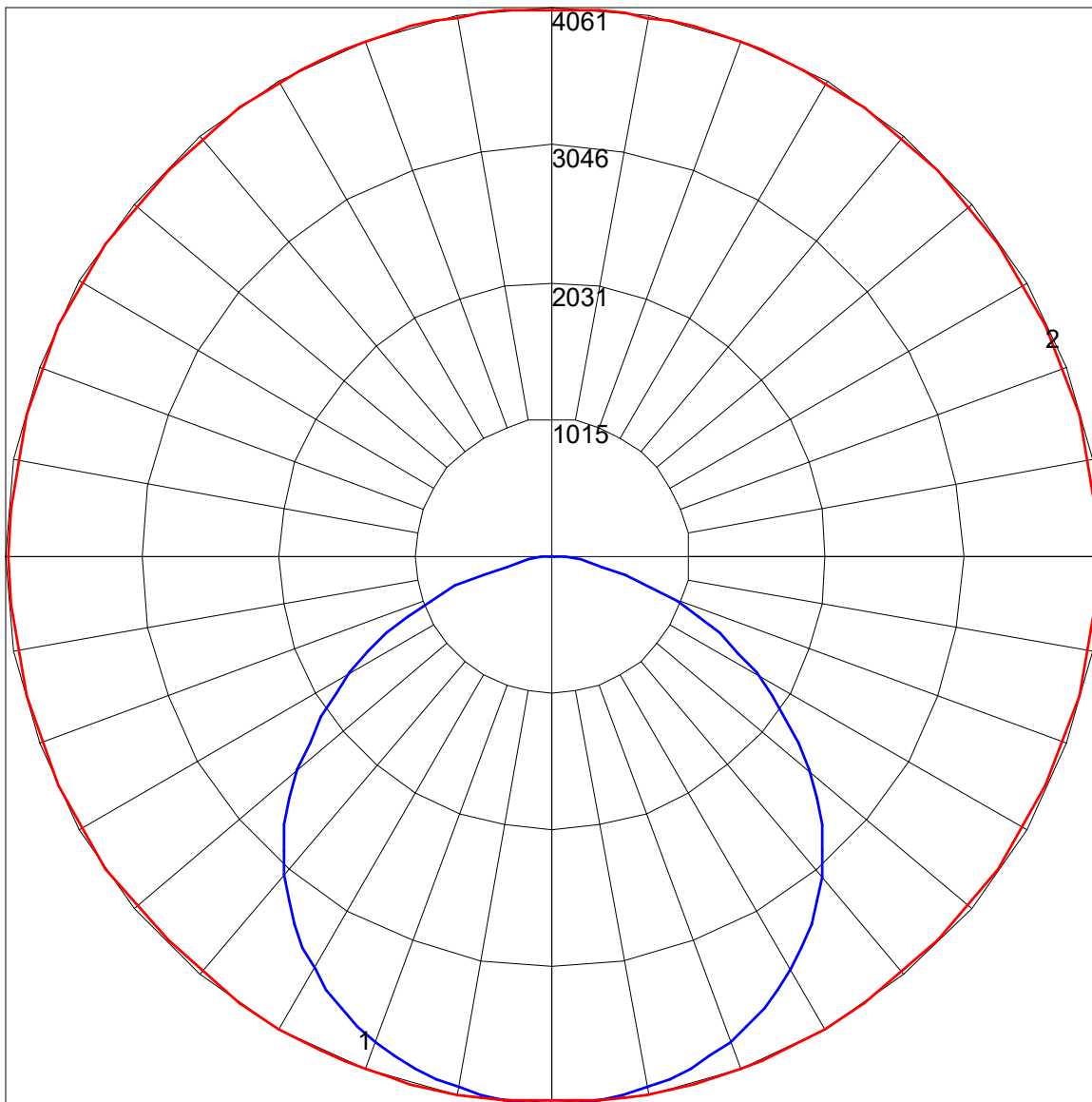
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

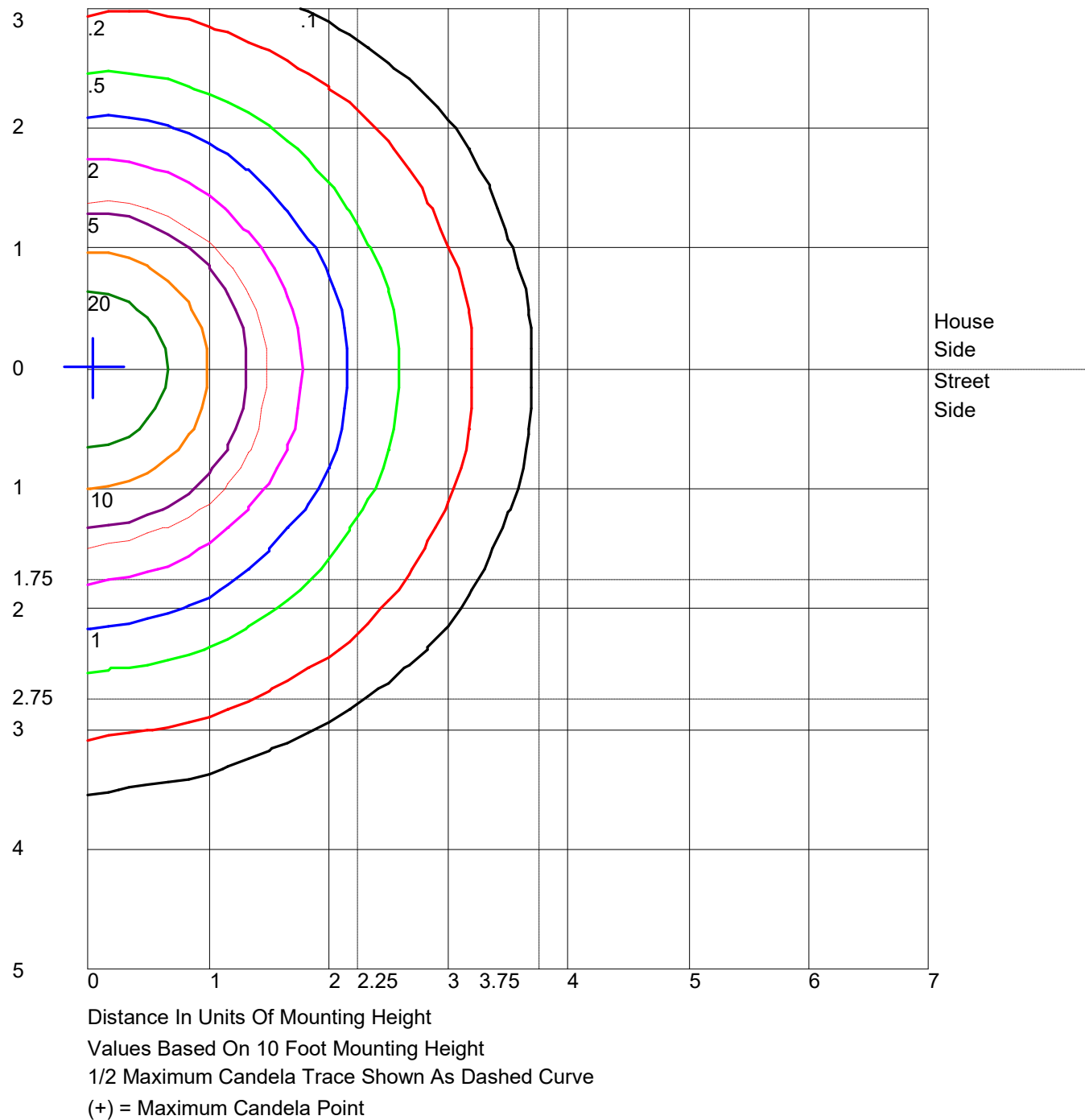
	Lumens	Percent Of Luminaire
Downward Street Side	5623.7	50.5
Downward House Side	5516.1	49.5
Downward Total	11139.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11139.8	100.0

POLAR GRAPH

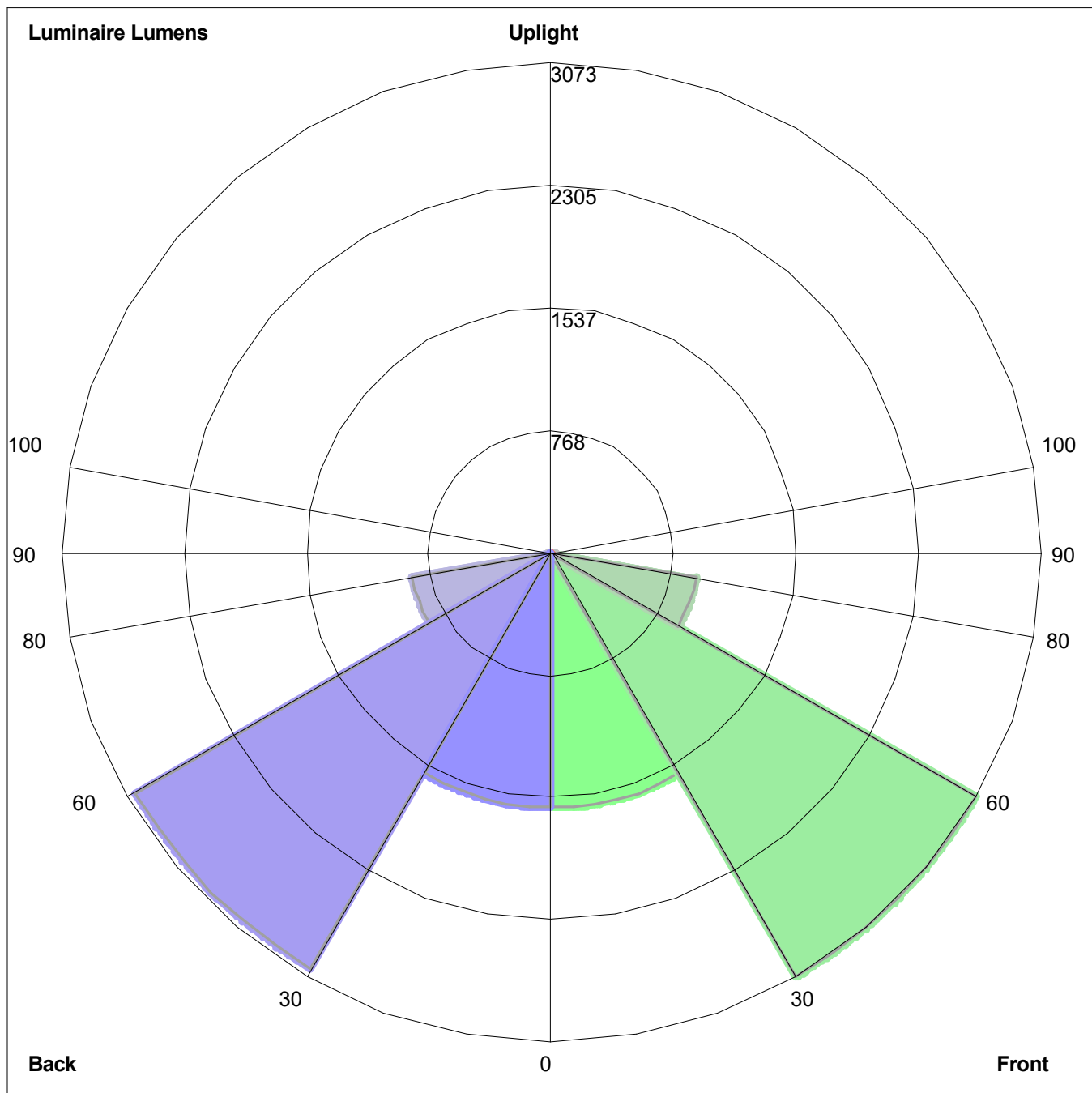


Maximum Candela = 4061.106 Located At Horizontal Angle = 102.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (102.5 - 282.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1602.2, Medium=3073.4, High=921.8, Very High=26.3  
Back: Low=1598.1, Medium=3012.6, High=883.7, Very High=21.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1