



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WLM-LED-07L-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 2964  
[TESTLAB] TUV SUD America  
[TESTDATE] 9/8/2016 1:38:57 PM  
[ISSUE DATE] 1/7/2019  
[MANUFAC] LSI INDUSTRIES, INC  
[LUMCAT] WLM-LED-07L-30  
[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 II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6983
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	61.33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2818.715
Maximum Candela Angle	270H 2.5V
Maximum Candela (<90 Degrees Vertical)	2818.715
Maximum Candela Angle (<90 Degrees Vertical)	270H 2.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	131.839 (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)	1108.7	N.A.	15.9
FM - Front-Medium (30-60)	1934.1	N.A.	27.7
FH - Front-High (60-80)	229.5	N.A.	3.3
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1110.0	N.A.	15.9
BM - Back-Medium (30-60)	2026.9	N.A.	29.0
BH - Back-High (60-80)	558.8	N.A.	8.0
BVH - Back-Very High (80-90)	14.1	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	6982.7	N.A.	100.0
BUG Rating	B3-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>	<u><b>112.5</b></u>	<u><b>135.0</b></u>	<u><b>157.5</b></u>	<u><b>180.0</b></u>	<u><b>202.5</b></u>
<b>0.0</b>	2818.320	2818.320	2818.320	2818.320	2818.320	2818.320	2818.320	2818.320	2818.320	2818.320
<b>2.5</b>	2816.612	2815.515	2814.360	2812.246	2810.439	2809.668	2810.755	2811.515	2812.394	2812.335
<b>5.0</b>	2812.997	2812.167	2806.093	2799.131	2798.815	2802.034	2802.024	2804.395	2807.595	2808.898
<b>7.5</b>	2804.019	2800.286	2789.827	2786.647	2784.484	2791.931	2793.185	2797.096	2797.728	2799.368
<b>10.0</b>	2788.701	2780.336	2767.477	2768.070	2766.074	2773.531	2775.022	2783.713	2783.072	2783.081
<b>12.5</b>	2762.875	2749.196	2745.492	2743.991	2741.927	2747.912	2752.050	2757.571	2761.591	2762.707
<b>15.0</b>	2731.172	2714.461	2716.170	2714.155	2712.752	2717.473	2720.525	2727.488	2735.626	2736.396
<b>17.5</b>	2695.113	2677.938	2682.472	2678.146	2675.242	2682.649	2686.294	2695.716	2706.866	2705.088
<b>20.0</b>	2655.964	2639.164	2642.858	2636.656	2633.011	2642.927	2646.660	2658.285	2672.536	2668.270
<b>22.5</b>	2611.412	2595.906	2598.849	2590.997	2588.321	2597.486	2601.506	2614.128	2631.253	2626.750
<b>25.0</b>	2558.080	2544.776	2549.754	2542.475	2537.912	2546.771	2550.307	2564.558	2586.523	2579.324
<b>27.5</b>	2502.407	2488.886	2493.726	2488.422	2481.617	2490.526	2493.647	2508.994	2536.638	2524.421
<b>30.0</b>	2442.873	2429.224	2435.623	2428.572	2421.520	2430.567	2432.216	2445.599	2475.968	2461.746
<b>32.5</b>	2374.687	2362.598	2369.581	2363.171	2356.722	2363.428	2366.440	2366.420	2390.360	2382.756
<b>35.0</b>	2291.953	2288.358	2297.918	2292.121	2279.706	2289.109	2289.355	2264.418	2284.546	2287.212
<b>37.5</b>	2187.017	2203.501	2216.775	2212.310	2194.434	2209.101	2205.703	2143.917	2161.072	2176.805
<b>40.0</b>	2048.374	2098.585	2133.399	2121.695	2102.318	2121.656	2110.614	2012.454	2027.485	2050.803
<b>42.5</b>	1761.764	1950.747	2040.680	2022.804	2000.869	2024.878	2004.256	1872.546	1884.733	1912.960
<b>45.0</b>	1616.977	1721.765	1934.895	1917.849	1897.029	1920.910	1878.689	1728.362	1742.515	1769.280
<b>47.5</b>	1451.845	1505.108	1799.985	1809.397	1791.274	1815.669	1742.357	1593.323	1617.925	1633.391
<b>50.0</b>	1132.564	1332.559	1665.499	1691.109	1680.136	1701.518	1595.654	1476.813	1509.286	1513.118
<b>52.5</b>	1003.057	1096.516	1487.894	1557.008	1557.275	1587.210	1445.475	1373.635	1414.493	1405.121
<b>55.0</b>	688.575	890.872	1199.852	1411.106	1425.298	1469.682	1294.931	1274.991	1325.725	1301.528
<b>57.5</b>	531.710	687.568	1045.702	1262.517	1287.889	1339.384	1164.238	1174.954	1227.614	1195.704
<b>60.0</b>	309.069	450.902	765.364	1099.666	1139.468	1199.871	1049.584	1068.102	1121.631	1087.538
<b>62.5</b>	107.108	230.039	600.943	926.584	984.054	1048.251	939.196	948.055	1011.441	975.610
<b>65.0</b>	30.103	88.225	395.052	755.023	825.925	876.284	823.417	820.444	880.808	847.189
<b>67.5</b>	5.659	21.955	236.340	580.647	667.075	703.834	706.047	699.627	760.653	718.856
<b>70.0</b>	0.563	3.289	110.170	400.197	519.859	549.418	584.805	576.934	639.026	590.010
<b>72.5</b>	0.069	0.365	23.762	242.147	381.433	412.958	465.776	436.206	474.596	434.952
<b>75.0</b>	0.000	0.000	2.667	122.338	257.021	300.516	349.433	298.541	334.115	299.538
<b>77.5</b>	0.000	0.000	0.138	41.046	150.535	205.565	226.147	191.057	202.089	185.427
<b>80.0</b>	0.000	0.000	0.000	6.805	67.909	125.943	131.839	97.252	102.921	87.869
<b>82.5</b>	0.000	0.000	0.000	0.454	20.839	65.351	60.996	38.962	46.903	35.683
<b>85.0</b>	0.000	0.000	0.000	0.000	4.089	26.133	23.703	16.414	18.735	15.891
<b>87.5</b>	0.000	0.000	0.000	0.000	0.701	8.049	8.829	7.960	9.659	8.020
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

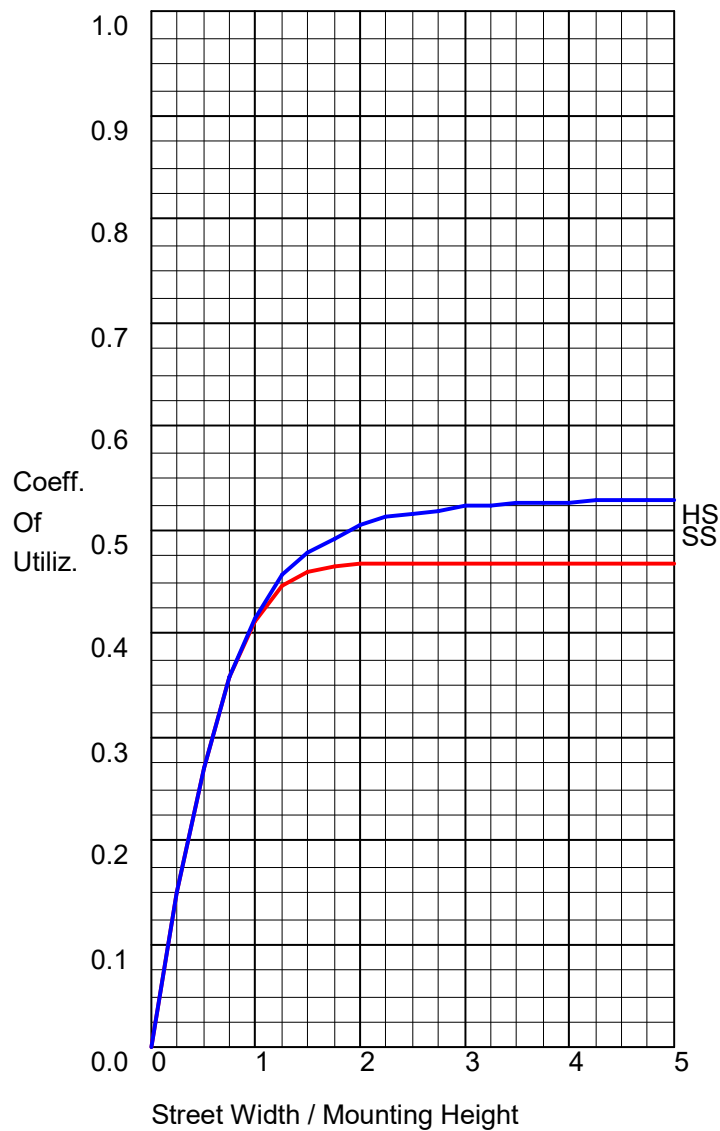
<b>Vert. Angles</b>	<b>Horizontal Angles</b>						
	<u><b>225.0</b></u>	<u><b>247.5</b></u>	<u><b>270.0</b></u>	<u><b>292.5</b></u>	<u><b>315.0</b></u>	<u><b>337.5</b></u>	<u><b>360.0</b></u>
<b>0.0</b>	2818.320	2818.320	2818.320	2818.320	2818.320	2818.320	2818.320
<b>2.5</b>	2813.639	2816.009	2818.715	2817.787	2817.026	2816.612	2816.612
<b>5.0</b>	2807.298	2808.780	2811.555	2811.713	2812.424	2813.540	2812.997
<b>7.5</b>	2797.363	2796.740	2797.007	2799.792	2802.419	2804.197	2804.019
<b>10.0</b>	2781.867	2779.724	2777.353	2781.768	2786.380	2788.958	2788.701
<b>12.5</b>	2761.512	2758.914	2754.786	2759.003	2764.593	2768.208	2762.875
<b>15.0</b>	2735.912	2733.730	2727.873	2731.784	2737.977	2742.085	2731.172
<b>17.5</b>	2704.249	2701.523	2695.449	2699.340	2706.975	2711.419	2695.113
<b>20.0</b>	2666.531	2661.761	2657.445	2661.919	2670.225	2675.874	2655.964
<b>22.5</b>	2623.550	2616.409	2612.261	2618.621	2627.421	2634.374	2611.412
<b>25.0</b>	2574.484	2567.255	2564.440	2569.190	2577.684	2586.128	2558.080
<b>27.5</b>	2519.197	2511.849	2510.525	2514.614	2522.545	2531.147	2502.407

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WLM-LED-07L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	2459.415	2449.974	2446.675	2454.823	2463.889	2471.899	2442.873
<b>32.5</b>	2391.605	2383.398	2376.968	2388.227	2398.172	2405.797	2374.687
<b>35.0</b>	2317.740	2311.488	2301.612	2315.419	2324.120	2333.848	2291.953
<b>37.5</b>	2232.261	2231.579	2214.404	2235.075	2246.068	2255.026	2187.017
<b>40.0</b>	2131.364	2141.527	2119.266	2145.013	2160.391	2153.359	2048.374
<b>42.5</b>	2015.407	2042.379	2015.387	2043.179	2070.062	2022.103	1761.764
<b>45.0</b>	1884.082	1932.120	1897.444	1925.098	1963.280	1766.169	1616.977
<b>47.5</b>	1740.372	1813.427	1770.168	1791.916	1830.730	1586.301	1451.845
<b>50.0</b>	1589.096	1691.237	1635.614	1647.841	1647.781	1418.365	1132.564
<b>52.5</b>	1438.256	1563.003	1493.790	1493.138	1381.477	1162.509	1003.057
<b>55.0</b>	1291.306	1424.814	1340.806	1331.582	1183.220	931.582	688.575
<b>57.5</b>	1158.253	1272.946	1179.892	1161.482	969.675	712.921	531.710
<b>60.0</b>	1038.878	1104.289	1017.150	983.571	698.155	473.638	309.069
<b>62.5</b>	918.180	918.901	843.070	792.198	498.467	295.815	107.108
<b>65.0</b>	782.677	731.932	674.907	584.983	324.999	129.616	30.103
<b>67.5</b>	661.060	565.221	516.876	395.427	152.016	32.997	5.659
<b>70.0</b>	530.742	425.244	367.685	235.095	39.258	7.516	0.563
<b>72.5</b>	408.079	309.168	235.382	107.059	8.227	1.136	0.069
<b>75.0</b>	283.015	207.876	124.994	30.844	1.333	0.059	0.000
<b>77.5</b>	160.658	122.525	48.581	3.931	0.128	0.000	0.000
<b>80.0</b>	76.018	59.939	12.385	0.158	0.000	0.000	0.000
<b>82.5</b>	26.913	21.145	2.054	0.020	0.000	0.000	0.000
<b>85.0</b>	9.669	5.659	0.237	0.000	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

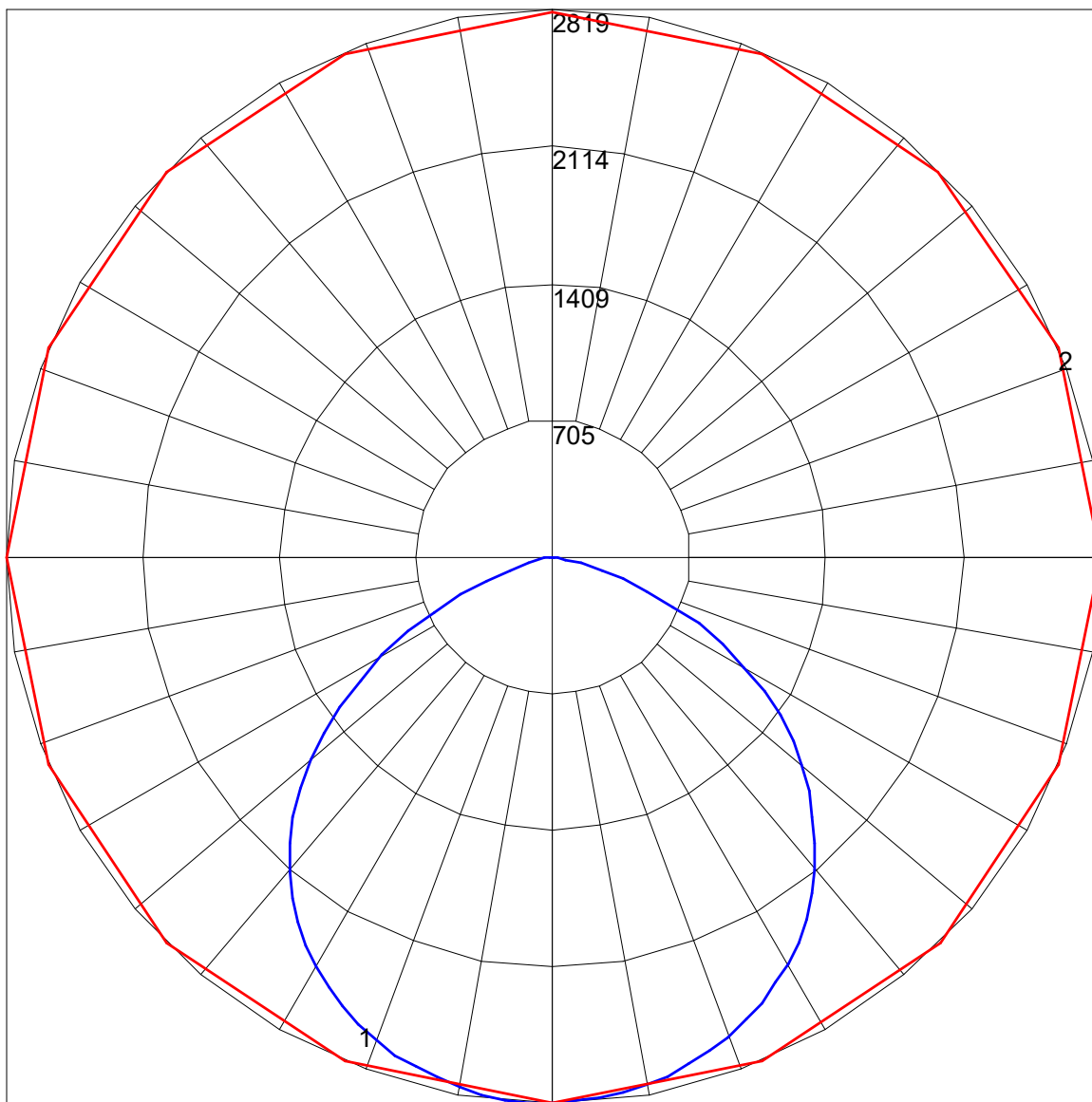
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

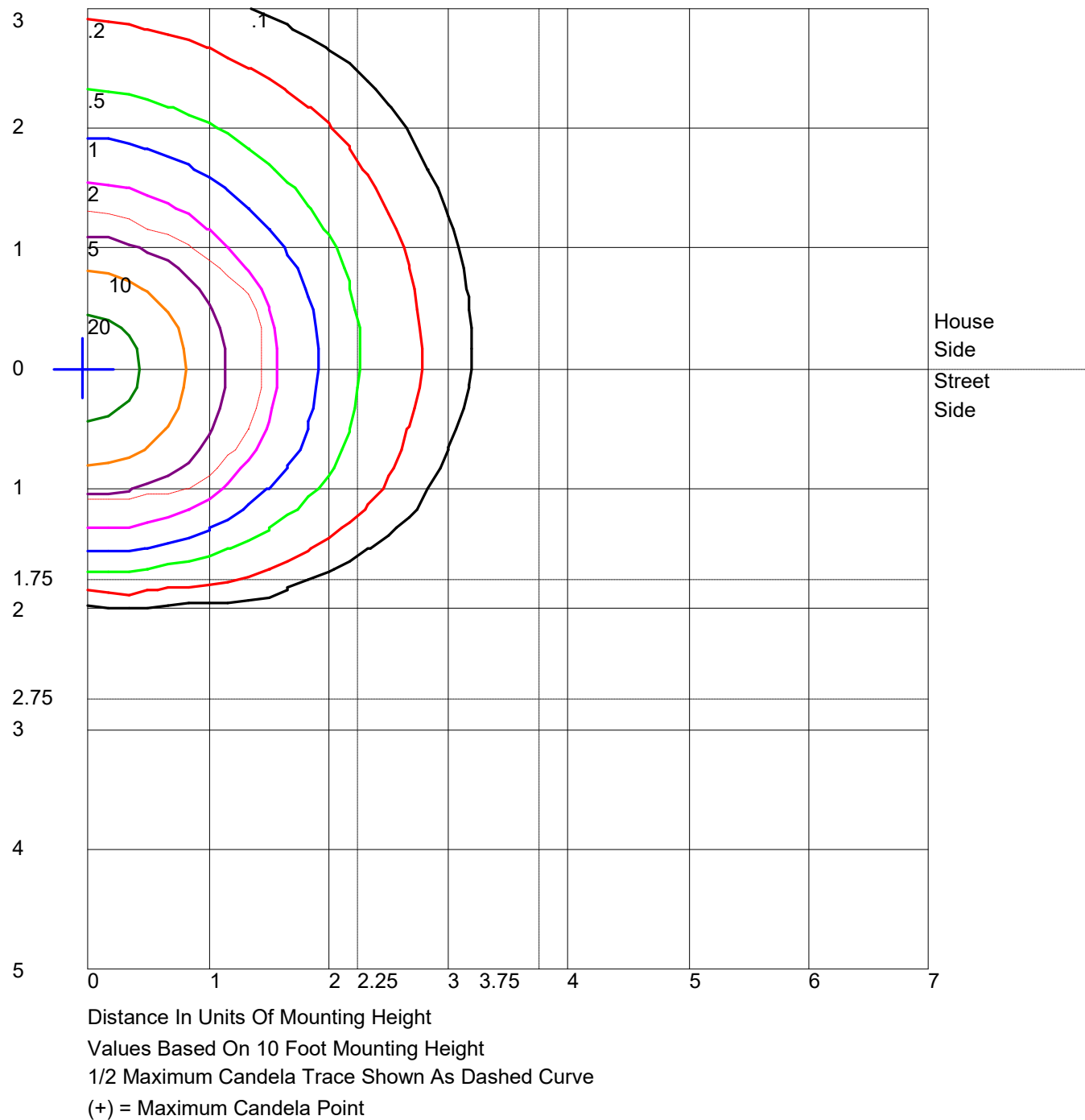
	Lumens	Percent Of Luminaire
Downward Street Side	3272.9	46.9
Downward House Side	3709.8	53.1
Downward Total	6982.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6982.7	100.0

POLAR GRAPH

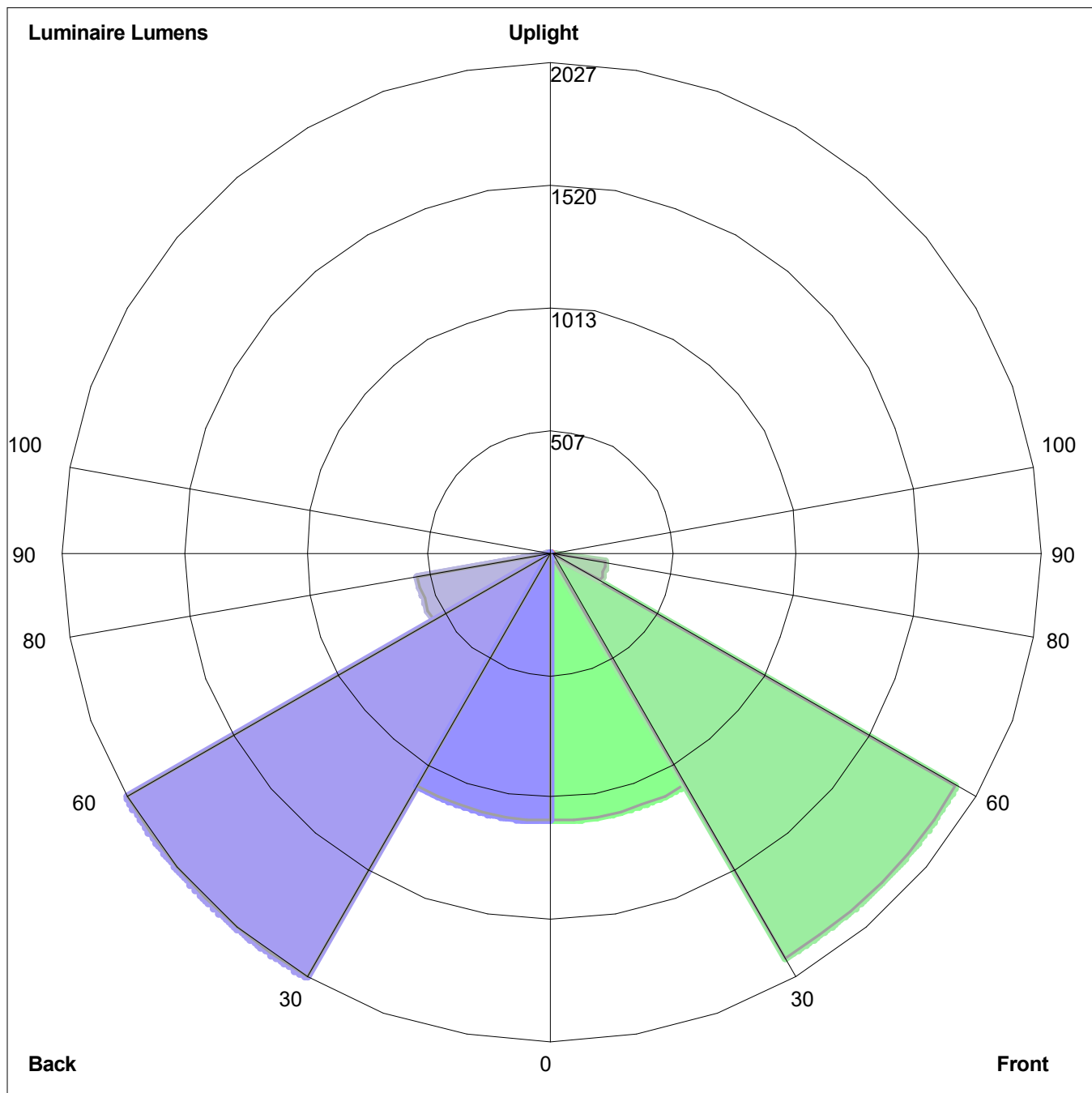


Maximum Candela = 2818.715 Located At Horizontal Angle = 270, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1108.7, Medium=1934.1, High=229.5, Very High=0.6  
Back: Low= 1110.0, Medium=2026.9, High=558.8, Very High=14.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2