



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-3-LED-18-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7762
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]04/28/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-3-LED-18-30-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14552
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	154.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18414.395
Maximum Candela Angle	55H 67.5V
Maximum Candela (<90 Degrees Vertical)	18414.395
Maximum Candela Angle (<90 Degrees Vertical)	55H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1002.562 (6.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	643.2	N.A.	4.4
FM - Front-Medium (30-60)	6582.8	N.A.	45.2
FH - Front-High (60-80)	6065.9	N.A.	41.7
FVH - Front-Very High (80-90)	118.1	N.A.	0.8
BL - Back-Low (0-30)	282.8	N.A.	1.9
BM - Back-Medium (30-60)	636.6	N.A.	4.4
BH - Back-High (60-80)	218.3	N.A.	1.5
BVH - Back-Very High (80-90)	4.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	14551.9	N.A.	100.0
BUG Rating	B1-U0-G3		

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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>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114
2.5	1294.588	1289.008	1270.407	1262.037	1246.227	1236.927	1215.536	1205.306	1195.076	1168.105
5.0	1422.931	1421.071	1415.490	1409.910	1396.890	1387.590	1355.039	1334.579	1300.168	1235.067
7.5	1384.800	1384.800	1389.450	1405.260	1412.700	1422.931	1418.280	1409.910	1382.940	1301.098
10.0	1291.798	1291.798	1302.028	1328.999	1359.689	1400.610	1430.371	1429.441	1426.651	1357.829
12.5	1202.516	1203.446	1215.536	1249.017	1287.148	1344.809	1405.260	1413.630	1435.951	1392.240
15.0	1129.044	1129.974	1145.785	1179.265	1230.416	1291.798	1361.549	1375.500	1427.581	1416.420
17.5	1087.193	1088.123	1105.794	1142.995	1196.936	1261.107	1336.439	1354.109	1420.141	1441.531
20.0	1108.584	1111.374	1131.834	1178.335	1226.696	1290.868	1365.269	1386.660	1453.621	1489.892
22.5	1254.597	1256.457	1275.057	1319.698	1354.109	1405.260	1472.222	1495.472	1552.203	1597.774
25.0	1556.853	1556.853	1581.034	1588.474	1600.564	1621.025	1687.986	1691.706	1740.067	1777.268
27.5	1963.272	1988.383	1990.243	1975.362	1960.482	1940.022	1981.873	1982.803	2005.123	2010.703
30.0	2394.801	2421.772	2432.932	2430.142	2403.172	2352.951	2355.741	2345.510	2326.910	2258.088
32.5	2848.651	2836.561	2858.881	2880.272	2879.342	2857.021	2795.640	2768.669	2678.458	2527.794
35.0	3201.129	3196.479	3249.490	3304.361	3344.352	3365.742	3269.020	3222.519	3057.906	2810.520
37.5	3531.286	3547.096	3607.547	3700.549	3783.321	3886.553	3753.561	3691.249	3441.074	3089.526
40.0	3912.594	3930.264	3994.436	4090.228	4220.431	4373.884	4266.932	4156.259	3814.012	3348.072
42.5	4403.645	4420.385	4492.926	4528.267	4703.111	4866.795	4742.172	4631.499	4153.469	3561.977
45.0	5044.428	5061.169	5134.640	5123.480	5254.613	5402.486	5213.692	5080.699	4464.096	3746.120
47.5	5877.726	5899.117	5989.329	5935.387	6025.599	6006.999	5685.212	5501.998	4787.743	3919.104
50.0	7004.910	7050.481	7245.786	7203.935	7098.842	6737.065	6164.172	5928.877	5089.069	4130.219
52.5	8691.037	8767.298	8983.993	8899.361	8631.515	7679.175	6727.764	6405.048	5450.847	4448.286
55.0	10642.219	10826.363	11037.477	11065.378	10667.329	8952.372	7441.090	7042.111	5968.868	4917.016
57.5	11562.008	11688.491	12397.166	13087.241	13013.770	10848.683	8558.044	8045.603	6781.706	5687.072
60.0	10354.842	10583.627	11854.035	13540.161	15554.584	13590.382	10256.260	9638.727	8081.874	6975.150
62.5	6139.992	6301.815	8636.165	11852.175	15522.033	16012.154	12907.747	12444.597	10009.805	8657.556
65.0	1751.228	1826.559	2836.561	6521.300	12983.079	16372.072	15914.502	15535.054	12341.365	10142.798
67.5	698.445	730.996	985.821	1867.480	7335.068	14302.777	18414.395	18410.675	14150.254	10607.808
70.0	472.450	491.051	578.472	965.361	2369.691	9587.576	16678.048	17567.147	15020.753	8783.109
72.5	381.308	398.049	447.340	705.885	1371.779	4119.988	12578.520	13772.666	11857.755	4974.677
75.0	300.396	309.697	356.198	599.863	1078.823	1991.173	6269.265	7389.939	6206.953	1529.883
77.5	229.715	243.665	282.726	524.531	941.180	1224.836	2304.589	2914.683	1760.528	550.572
80.0	159.963	169.264	212.045	441.759	793.307	850.968	875.149	1002.562	735.646	294.816
82.5	95.792	101.372	139.503	364.568	604.513	584.983	393.398	359.918	342.247	189.724
85.0	62.311	66.031	96.722	303.187	479.890	315.277	159.033	167.404	171.124	122.763
87.5	39.061	41.851	66.961	225.995	236.225	108.812	69.751	68.821	70.682	70.682
90.0	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>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114	1128.114
2.5	1148.575	1138.344	1125.324	1098.354	1077.893	1055.573	1035.112	1005.352	985.821	988.611
5.0	1171.825	1138.344	1103.004	1032.322	964.431	903.049	846.318	811.907	788.657	781.217
7.5	1194.146	1137.414	1077.893	960.711	858.408	786.797	748.666	719.835	694.725	678.915
10.0	1213.676	1131.834	1049.063	887.239	776.567	723.556	680.775	650.084	626.833	611.023
12.5	1232.276	1124.394	1021.162	821.208	725.416	668.684	629.624	603.583	582.193	571.032
15.0	1249.017	1116.024	991.401	770.987	687.285	636.134	593.353	573.822	560.802	553.362
17.5	1266.687	1110.444	962.571	734.716	661.244	617.533	577.542	558.942	550.572	541.272
20.0	1302.028	1126.254	955.131	714.255	661.244	607.303	576.612	549.642	534.761	530.111
22.5	1401.540	1196.936	999.771	722.626	688.215	620.323	580.332	542.202	518.021	515.231
25.0	1550.343	1311.328	1096.494	750.526	724.486	651.944	581.262	534.761	502.211	470.590
27.5	1736.347	1471.292	1209.956	790.517	760.756	687.285	591.493	520.811	430.599	365.498

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CANDELA TABULATION - (Cont.)

30.0	1922.351	1610.795	1313.188	834.228	793.307	719.835	593.353	444.550	334.807	318.997
32.5	2125.096	1771.688	1425.721	874.219	822.138	744.946	552.432	370.148	322.717	329.227
35.0	2336.210	1927.001	1541.973	898.399	835.158	753.316	481.750	361.778	324.577	338.527
37.5	2533.374	2075.805	1640.555	906.769	826.788	707.745	465.010	345.037	294.816	295.746
40.0	2711.008	2204.147	1716.817	897.469	794.237	619.393	456.640	321.787	252.965	236.225
42.5	2861.671	2304.589	1768.898	869.569	728.206	546.852	418.509	300.396	228.785	199.024
45.0	2983.504	2385.501	1800.519	823.998	603.583	437.109	360.848	276.216	244.595	177.634
47.5	3110.917	2480.363	1840.510	763.546	438.969	317.137	280.866	243.665	232.505	168.334
50.0	3280.180	2630.096	1913.981	697.515	321.787	232.505	211.115	222.275	225.065	164.614
52.5	3538.726	2872.832	2072.085	651.014	244.595	185.074	164.614	196.234	202.744	168.334
55.0	3942.355	3283.901	2336.210	617.533	219.485	164.614	136.713	164.614	159.033	178.564
57.5	4622.199	3848.423	2722.168	560.802	206.464	151.593	119.043	136.713	123.693	128.343
60.0	5707.533	4541.288	2935.143	482.680	195.304	133.923	103.232	97.652	74.402	99.512
62.5	7232.765	5057.449	2767.739	403.629	172.054	110.672	102.302	60.451	50.221	78.122
65.0	8001.892	5037.918	2053.484	326.437	133.923	97.652	73.472	47.431	36.271	75.332
67.5	7650.344	4086.508	1224.836	225.065	99.512	73.472	48.361	39.991	35.341	57.661
70.0	4993.277	2568.715	609.163	145.083	73.472	44.641	29.761	32.551	26.971	42.781
72.5	2191.127	1023.952	225.995	93.002	53.941	26.041	22.320	21.390	17.670	28.831
75.0	549.642	348.757	136.713	68.821	34.411	19.530	13.950	13.950	6.510	11.160
77.5	261.336	173.914	94.862	49.291	20.460	13.020	7.440	4.650	1.860	2.790
80.0	161.823	115.322	69.751	32.551	11.160	5.580	4.650	2.790	0.930	0.000
82.5	107.882	78.122	50.221	18.600	5.580	5.580	4.650	1.860	0.000	0.000
85.0	68.821	53.941	35.341	10.230	5.580	4.650	3.720	1.860	0.000	0.000
87.5	39.061	28.831	17.670	5.580	6.510	6.510	5.580	2.790	0.930	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

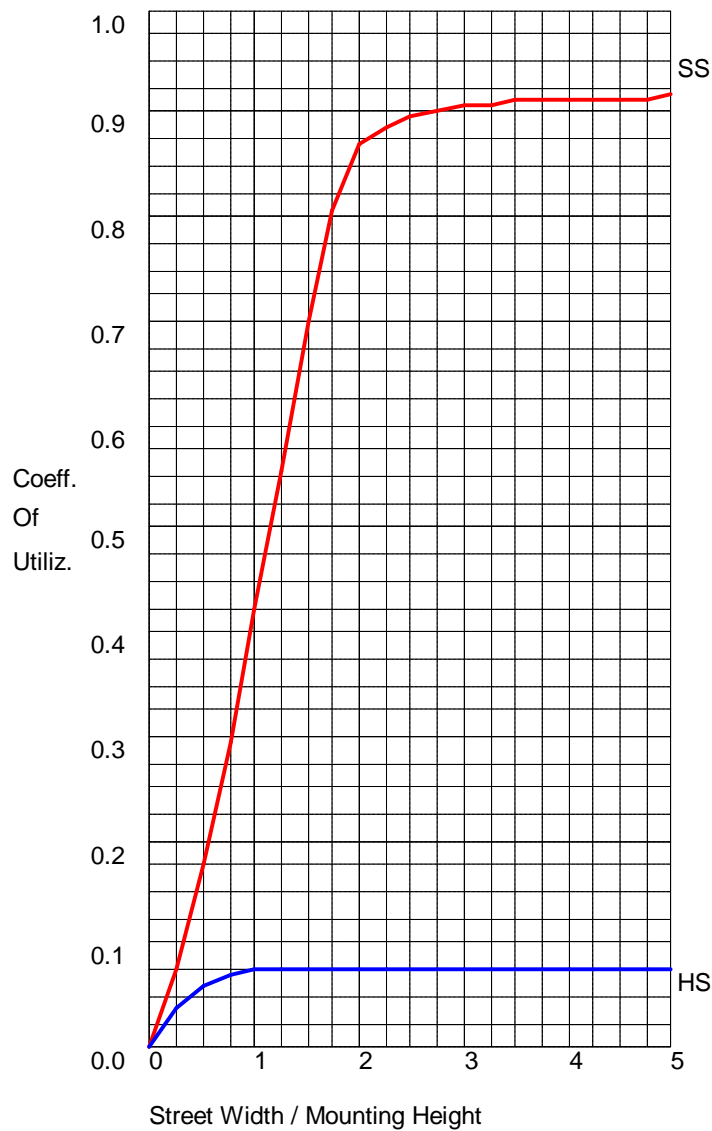
	175.0	180.0
0.0	1128.114	1128.114
2.5	981.171	983.031
5.0	775.637	773.777
7.5	676.125	674.264
10.0	607.303	603.583
12.5	566.382	563.592
15.0	550.572	545.922
17.5	537.552	532.901
20.0	524.531	518.951
22.5	509.651	505.001
25.0	445.480	439.899
27.5	338.527	333.877
30.0	320.857	318.067
32.5	344.107	339.457
35.0	363.638	359.918
37.5	303.187	298.536
40.0	228.785	221.345
42.5	172.054	170.194
45.0	154.383	149.733
47.5	140.433	137.643
50.0	127.413	121.833
52.5	133.923	129.273
55.0	131.133	124.623
57.5	80.912	68.821
60.0	62.311	52.081
62.5	53.941	41.851
65.0	66.031	50.221

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CANDELA TABULATION - (Cont.)

67.5	60.451	43.711
70.0	50.221	34.411
72.5	33.481	23.250
75.0	10.230	6.510
77.5	0.000	0.000
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

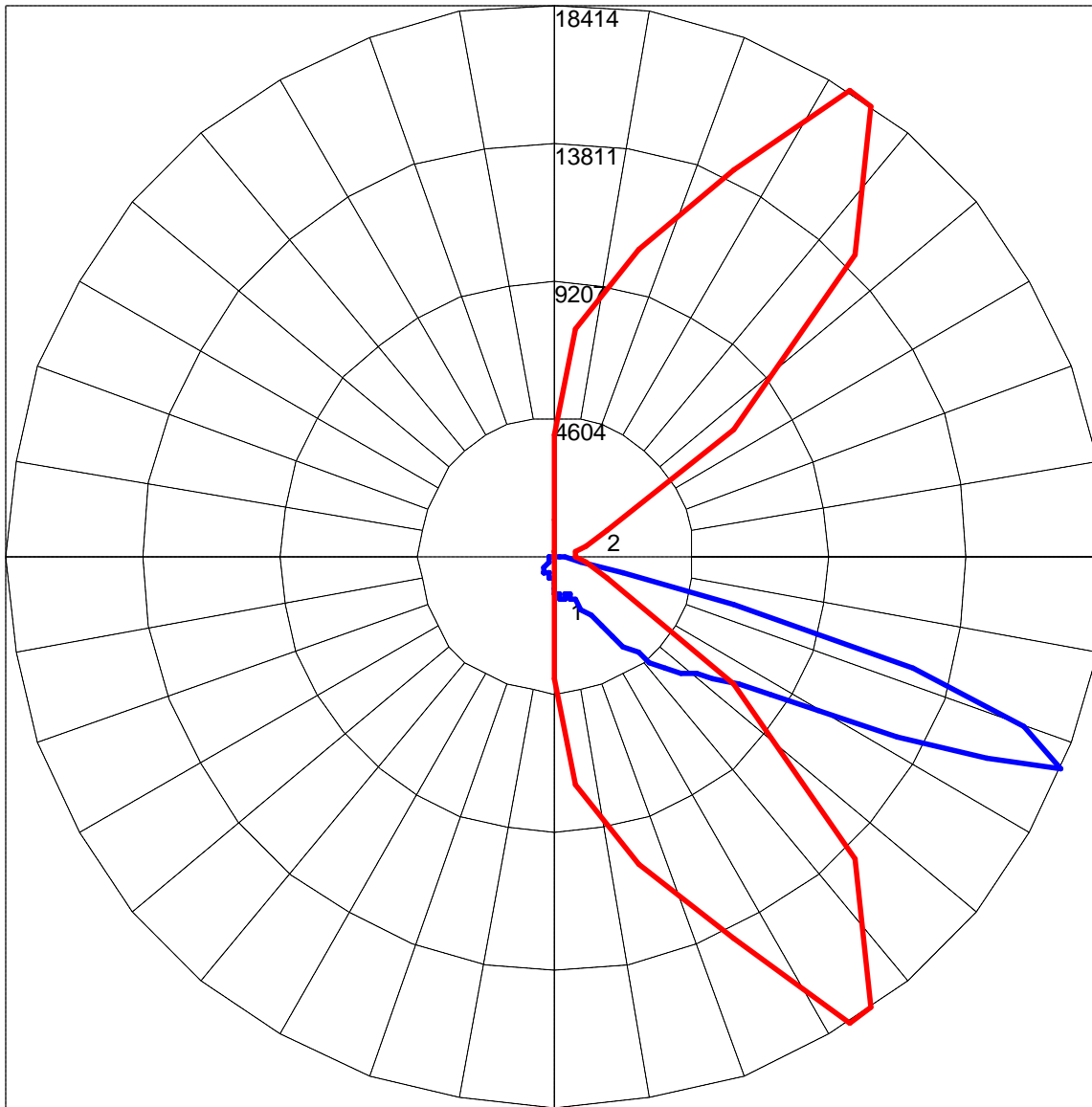
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

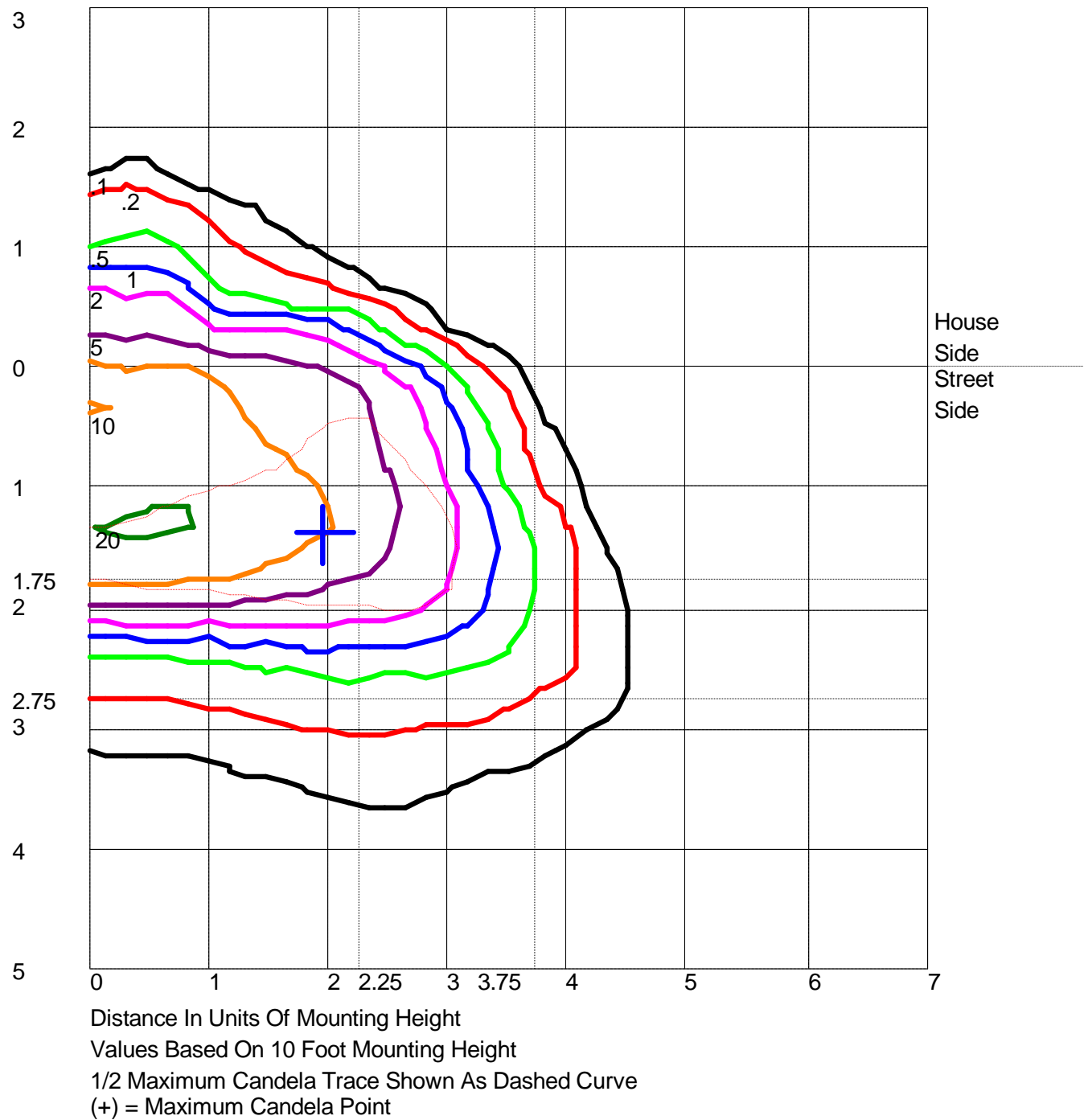
	Lumens	Percent Of Luminaire
Downward Street Side	13410.1	92.2
Downward House Side	1142.0	7.8
Downward Total	14552.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14552.1	100.0

POLAR GRAPH

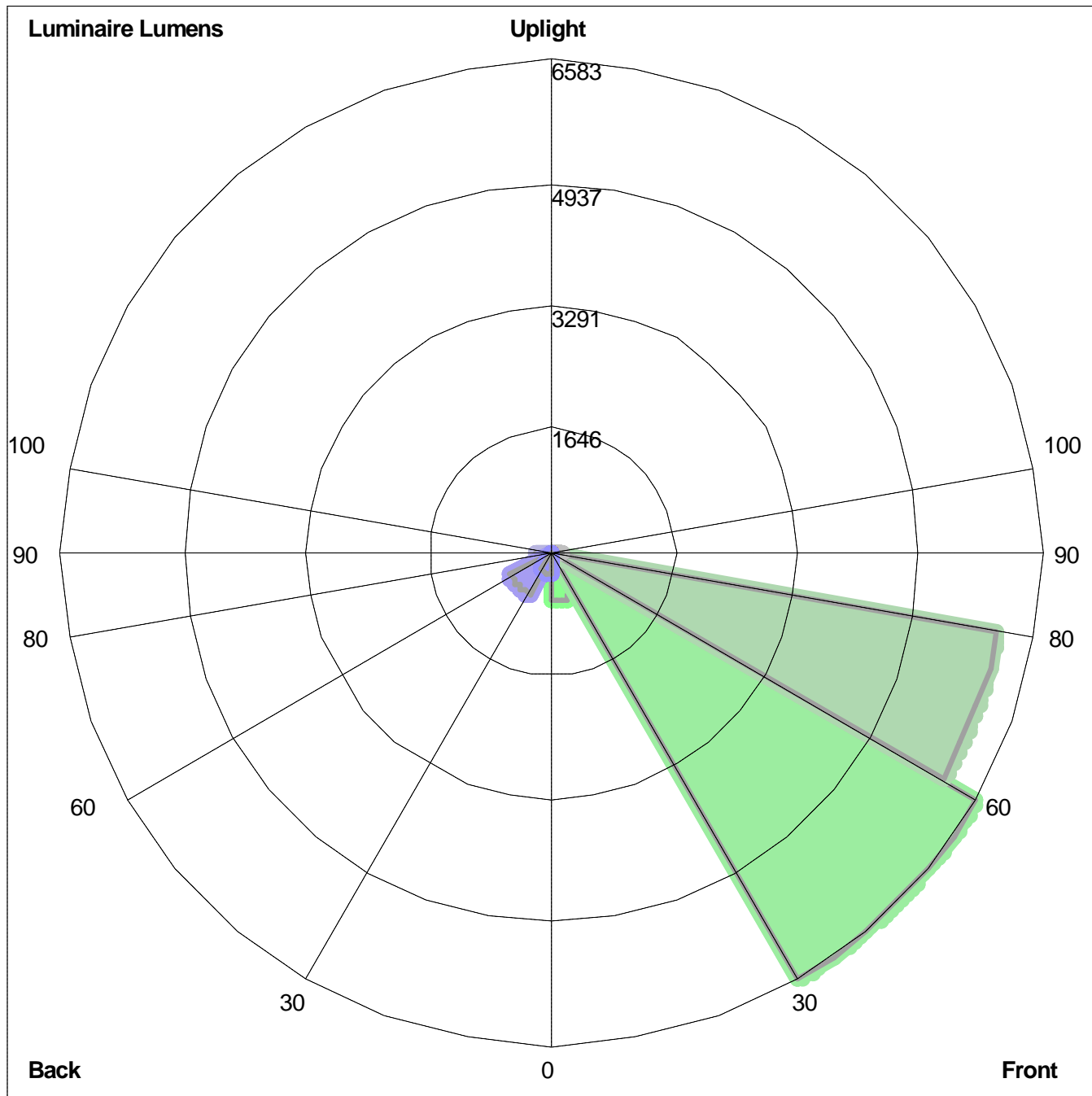


Maximum Candela = 18414.395 Located At Horizontal Angle = 55, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=643.2, Medium=6582.8, High=6065.9, Very High=118.1
Back: Low=282.8, Medium=636.6, High=218.3, Very High=4.2
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3