



IES ROAD REPORT

PHOTOMETRIC FILENAME : ALX MD 3 UV 850-EHS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] Q2018032101 scaled from 256w

[TESTLAB] QSSI

[ISSUE DATE] 2018-3-21

[MANUFAC] LumenFocus, LLC

[LUMCAT] ALX MD 3 UV 850-EHS

[LUMINAIRE] ALX WITH TWO 167W LED ARRAYS, HOUSE SIDE SHIELD

[LAMPCAT] SAMSUNG 351B-N WITH TYPE III OPTICS

[LAMP] SAMSUNG 351B-N

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27099
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	354
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14083.584
Maximum Candela Angle	10H 60V
Maximum Candela (<90 Degrees Vertical)	14083.584
Maximum Candela Angle (<90 Degrees Vertical)	10H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	922.916 (3.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4579.2	N.A.	16.9
FM - Front-Medium (30-60)	12617.1	N.A.	46.6
FH - Front-High (60-80)	4993.3	N.A.	18.4
FVH - Front-Very High (80-90)	124.3	N.A.	0.5
BL - Back-Low (0-30)	1672.8	N.A.	6.2
BM - Back-Medium (30-60)	2748.4	N.A.	10.1
BH - Back-High (60-80)	349.9	N.A.	1.3
BVH - Back-Very High (80-90)	13.7	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	27098.7	N.A.	100.0
BUG Rating	B3-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981
5	8973.761	8985.068	8769.254	8612.811	8385.688	7967.251	7572.376	7049.331	6401.885	5723.339
10	10973.584	10961.332	10769.077	10575.881	10204.566	9799.324	9299.839	8604.331	7632.691	6208.688
15	12150.670	12079.988	11975.380	11801.033	11497.571	11073.481	10382.684	9578.796	8494.065	6825.033
20	12896.127	12857.489	12808.484	12669.947	12293.919	11763.335	11232.751	10301.636	9150.936	7385.776
25	13269.334	13278.754	13304.196	13125.139	12686.909	12280.726	11611.604	10745.517	9570.315	7760.861
30	13316.447	13364.512	13346.611	13014.875	12769.843	12312.767	11794.435	10869.918	9728.642	7973.849
35	13257.083	13290.066	13150.580	12616.227	12419.262	12135.593	11633.281	10846.356	9691.887	8078.459
40	13156.243	13299.486	12889.532	12232.663	11884.908	11662.496	11244.059	10589.075	9460.051	7953.115
45	12820.734	13288.174	12772.670	12128.995	11619.143	11199.765	10731.381	9999.117	8942.661	7622.325
50	12984.716	13417.287	12888.589	12184.597	11516.420	10873.686	9998.175	9158.476	8263.173	7008.807
55	13546.400	13891.324	13392.785	12619.055	11720.925	10538.183	9326.227	8273.539	7248.183	6187.956
60	13495.504	14083.584	13671.743	13312.676	12150.670	10357.238	8491.240	7005.037	6010.780	5037.256
65	10332.735	11097.983	11001.855	11291.179	10771.905	9887.912	7420.646	5493.389	4507.613	3572.729
70	1835.276	2601.090	4992.020	6964.513	7493.213	6573.406	5286.056	3679.223	2856.487	2353.233
75	787.490	986.341	1122.144	1675.630	1820.481	3363.510	1832.072	1774.867	1381.594	1036.666
80	394.781	457.924	495.716	523.139	748.379	922.916	701.917	470.552	397.798	487.234
85	190.275	218.737	248.706	253.135	233.532	244.747	208.936	163.699	107.814	67.289
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	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>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981
5	5376.528	5117.361	4958.092	4841.232	4728.140	4661.229	4634.841	4569.814	4579.237	4582.065
10	5359.564	4883.641	4638.610	4465.204	4304.050	4202.268	4158.917	4033.574	4022.265	4046.768
15	5401.031	4633.898	4308.763	4052.423	3780.062	3640.584	3578.384	3519.953	3477.545	3492.623
20	5631.926	4519.864	3981.741	3586.866	3427.596	3241.938	3123.192	3062.877	3031.777	3042.144
25	5895.804	4451.068	3666.030	3277.750	3033.662	2902.665	2779.208	2704.757	2679.311	2707.584
30	6071.095	4193.786	3445.501	3000.677	2696.275	2575.645	2446.532	2403.180	2379.620	2388.102
35	6105.965	4101.429	3117.539	2649.153	2400.353	2233.545	2166.632	2116.684	2090.296	2126.108
40	6086.174	3951.583	2877.220	2400.353	2106.317	1937.623	1819.820	1784.951	1760.447	1789.664
45	5764.807	3617.022	2593.551	2073.333	1721.809	1571.963	1471.124	1436.254	1383.478	1457.929
50	5089.089	3193.874	2137.417	1643.587	1357.090	1172.375	1061.170	1019.703	1007.452	1021.588
55	4356.825	2572.818	1588.926	1145.045	900.957	692.682	592.785	548.491	490.061	504.197

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CANDELA TABULATION - (Cont.)

60	3136.387	1635.105	963.157	589.958	516.449	219.302	80.954	58.619	49.572	54.660
65	2167.575	921.691	500.427	117.144	58.996	31.383	14.042	9.142	6.786	7.068
70	1029.126	484.406	85.100	40.336	16.493	11.026	9.424	8.199	7.917	8.105
75	488.176	73.603	26.200	13.947	13.382	18.472	26.010	27.708	26.294	28.461
80	70.588	22.806	14.701	19.697	42.692	43.918	33.644	24.314	22.806	23.654
85	17.906	18.001	23.560	23.372	33.550	29.309	30.723	29.969	28.273	30.440
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	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>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981
5	4578.295	4621.647	4686.674	4761.126	4918.510	5066.471	5311.502	5625.328	6121.985	6678.016
10	4101.429	4140.069	4232.426	4366.250	4520.808	4761.126	5201.238	6036.225	7158.652	8205.685
15	3529.378	3571.787	3696.186	3972.317	4162.686	4468.973	5120.190	6432.987	7910.707	9095.334
20	3086.439	3158.063	3360.684	3489.796	3867.708	4280.490	5209.719	6789.222	8474.276	9711.678
25	2766.014	2879.105	2958.269	3218.378	3508.644	4206.980	5357.680	7043.676	8883.288	10154.617
30	2455.957	2547.372	2611.456	2901.723	3317.333	3920.483	5492.447	7201.061	9042.556	10223.414
35	2135.533	2204.330	2316.478	2557.738	2960.153	3821.529	5530.143	7249.125	8972.817	10193.257
40	1795.317	1892.386	2077.102	2273.127	2671.771	3678.281	5433.074	7162.422	8812.605	9934.090
45	1410.809	1528.611	1659.608	1922.545	2392.815	3293.771	5069.298	6848.593	8409.248	9468.533
50	1014.990	1127.139	1283.581	1539.920	1990.399	2880.047	4509.499	6138.949	7660.022	8762.658
55	561.685	652.157	797.290	1039.494	1418.349	2200.559	3792.314	5289.825	6800.531	7705.258
60	69.645	168.223	500.427	493.830	753.939	1378.767	2676.484	4076.925	5491.505	6533.825
65	9.895	27.331	43.822	79.446	232.590	594.669	1620.970	2704.757	3928.964	4919.452
70	8.199	8.953	10.932	24.691	60.315	152.767	639.906	1513.156	1858.177	3157.120
75	27.708	20.827	13.853	13.005	17.529	48.723	108.002	512.113	1078.038	1339.372
80	29.686	44.011	42.974	24.975	14.891	14.513	42.880	91.227	288.288	344.834
85	31.288	29.215	31.571	24.314	21.299	26.010	11.874	36.188	86.232	136.652
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	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.)

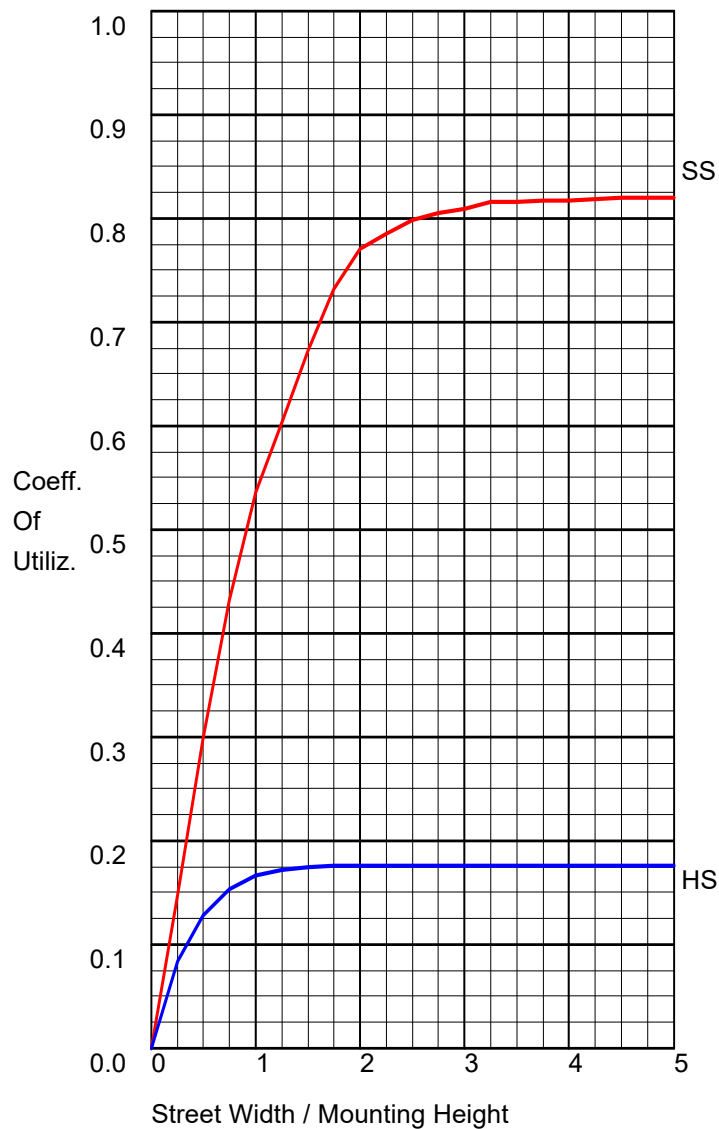
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	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>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981	5730.981
5	7275.512	7693.949	8116.155	8579.827	8642.970	8826.742	8973.761
10	9073.658	9536.388	10006.656	10395.877	10658.815	10835.990	10973.584
15	9993.463	10734.208	11283.642	11651.186	11880.195	12017.789	12150.670
20	10717.244	11344.898	11928.259	12494.655	12728.377	12816.966	12896.127
25	11015.050	11820.824	12307.113	12886.705	13226.918	13251.421	13269.334
30	11171.493	11847.210	12408.895	12771.729	13290.066	13323.049	13316.447
35	10992.433	11601.239	12037.580	12372.140	12761.362	13269.334	13257.083
40	10672.008	11143.220	11551.289	11912.239	12434.342	13268.382	13156.243
45	10087.706	10655.987	11223.326	11780.298	12419.262	13359.802	12820.734
50	9484.553	10349.699	11084.790	11843.442	12596.438	13547.340	12984.716
55	8699.515	10007.600	11163.011	12201.562	13033.722	14053.420	13546.400
60	8003.064	9782.360	11546.577	12816.966	13226.918	14060.021	13495.504
65	6625.239	9031.248	10230.954	10703.108	11007.510	10917.038	10332.735
70	4562.274	5801.561	7262.318	6959.801	5161.656	2777.323	1835.276
75	1799.464	2423.915	1872.502	1655.933	1081.149	992.372	787.490
80	505.233	828.485	694.189	474.510	483.746	460.280	394.781
85	180.474	224.298	221.375	240.601	247.387	219.396	190.275
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

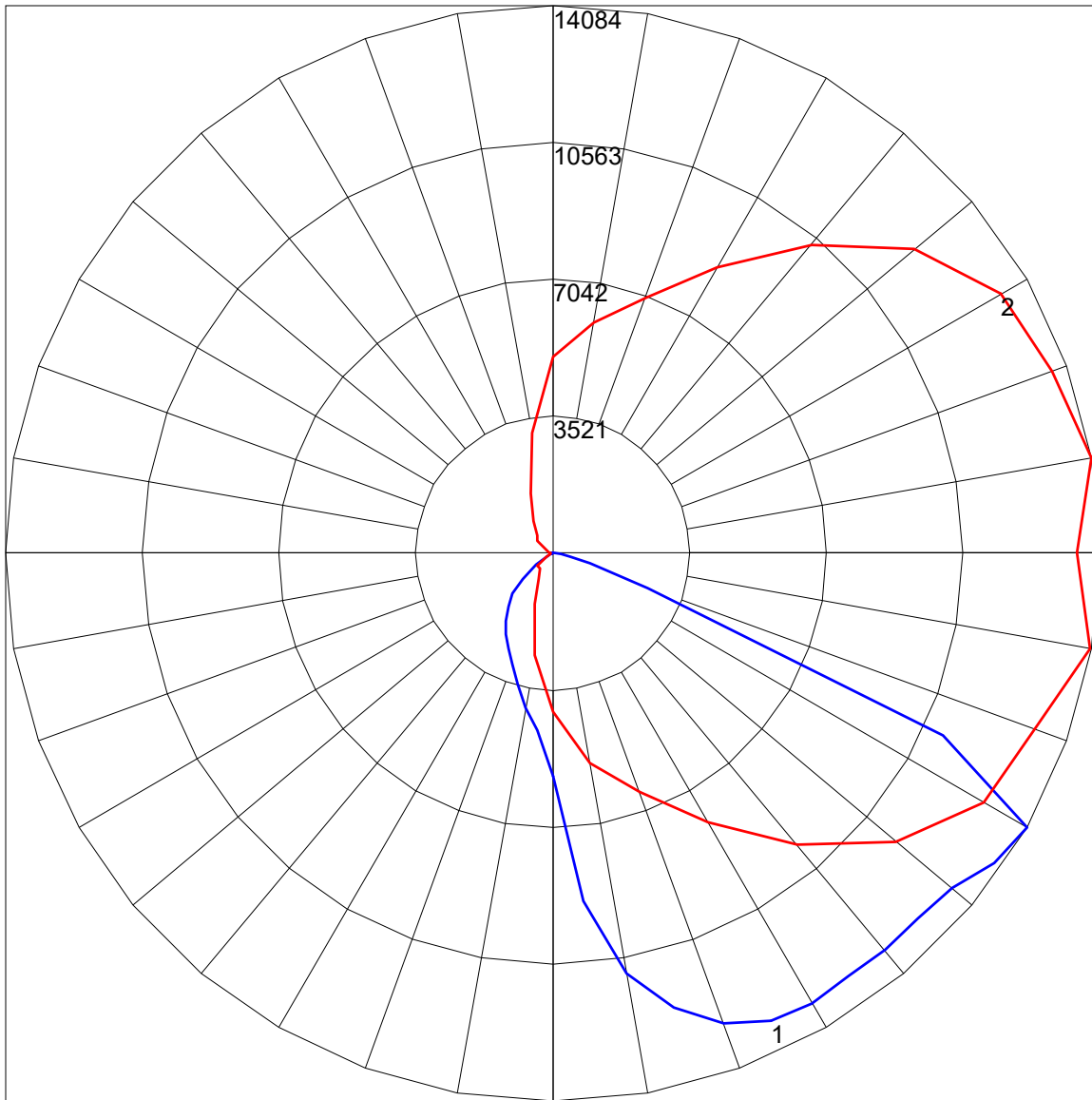
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

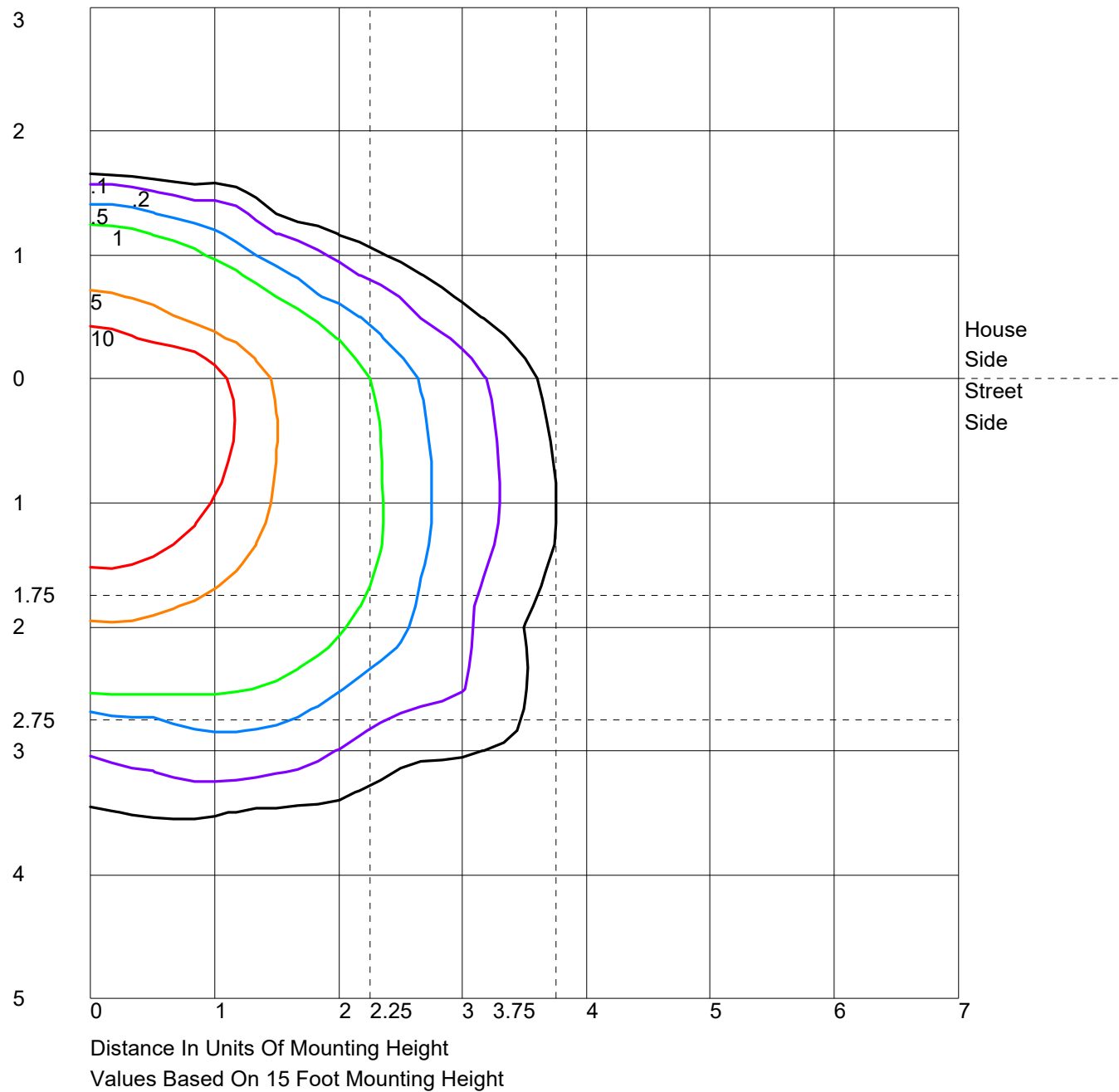
	Lumens	Percent Of Luminaire
Downward Street Side	22313.9	82.3
Downward House Side	4784.9	17.7
Downward Total	27098.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27098.8	100.0

POLAR GRAPH

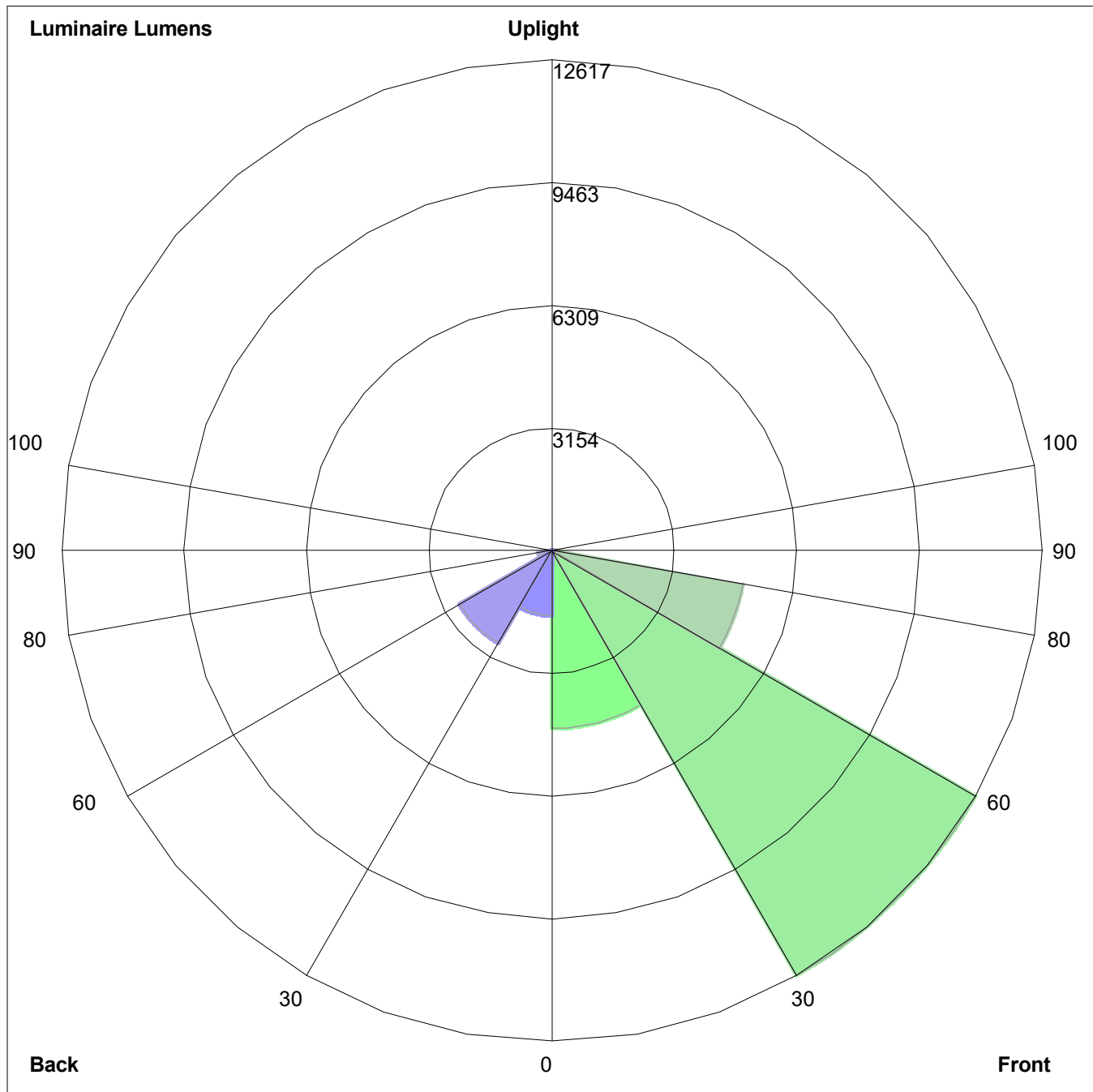


Maximum Candela = 14083.584 Located At Horizontal Angle = 10, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=4579.2, Medium=12617.1, High=4993.3, Very High=124.3
Back: Low=1672.8, Medium=2748.4, High=349.9, Very High=13.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2