



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-730-T2-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011765
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-730-T2-F-S-xxx-DIM-UNV
[LUMINAIRE]VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE II
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS ,WITH
[MORE] (2) ELECTRONIC DRIVERS IN A BROWN HOUSING.
[LAMPCAT] 3000K LEDS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Area, Parking
[_SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24664
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24742.082
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	24742.082
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 68V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1046.408 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-730-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4386.4	N.A.	17.8
FM - Front-Medium (30-60)	10694.0	N.A.	43.4
FH - Front-High (60-80)	4483.9	N.A.	18.2
FVH - Front-Very High (80-90)	63.7	N.A.	0.3
BL - Back-Low (0-30)	1018.8	N.A.	4.1
BM - Back-Medium (30-60)	2384.0	N.A.	9.7
BH - Back-High (60-80)	1532.5	N.A.	6.2
BVH - Back-Very High (80-90)	100.8	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	24664.1	N.A.	100.0
BUG Rating	B3-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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869
2.5	6829.244	6782.389	6749.071	6702.217	6633.498	6492.935	6390.898	6233.676	6058.754	6009.818
5.0	8322.327	8332.739	8245.278	8114.087	7908.970	7592.445	7289.455	6897.963	6468.988	6353.414
7.5	9809.164	9821.658	9693.590	9474.938	9152.165	8663.841	8181.765	7561.209	6887.551	6712.629
10.0	11076.306	11058.606	10918.044	10669.196	10298.528	9696.714	9064.704	8221.331	7301.949	7067.679
12.5	11639.597	11609.402	11544.847	11426.150	11192.921	10633.796	9919.531	8900.194	7737.172	7439.388
15.0	11581.289	11562.548	11560.465	11580.248	11586.495	11359.513	10722.298	9613.418	8225.495	7861.075
17.5	11543.806	11529.229	11529.229	11541.724	11614.608	11681.245	11391.791	10356.836	8780.456	8346.275
20.0	11536.518	11536.518	11578.166	11593.784	11619.814	11748.923	11836.384	11148.149	9415.589	8913.730
22.5	11306.412	11334.524	11470.922	11603.155	11681.245	11767.664	12066.489	11845.755	10104.865	9543.657
25.0	10690.020	10720.215	10965.939	11358.472	11671.874	11850.961	12194.557	12481.929	10861.819	10237.098
27.5	9859.141	9897.666	10161.090	10720.215	11439.686	11906.144	12333.037	12985.871	11630.226	10943.032
30.0	9195.896	9221.926	9486.391	9966.385	10831.624	11805.148	12491.300	13359.662	12386.138	11662.503
32.5	8774.209	8810.651	9038.674	9437.454	10157.966	11516.735	12665.181	13661.611	13112.897	12349.696
35.0	8361.893	8397.294	8655.512	9044.921	9643.612	11088.801	12824.484	13903.170	13715.753	12923.399
37.5	7717.389	7779.861	8093.263	8550.350	9200.060	10702.515	13040.013	14109.328	14201.995	13434.629
40.0	6746.989	6810.502	7222.818	7856.910	8600.328	10165.255	13401.310	14336.310	14663.247	13981.260
42.5	5549.606	5496.505	5949.428	6739.700	7780.902	9384.353	13500.224	15034.956	15090.140	14484.160
45.0	4281.422	4244.980	4555.259	5213.298	6498.141	8476.425	12911.945	16314.593	15469.137	14927.712
47.5	3450.543	3413.060	3568.199	3886.807	4832.218	7153.057	11772.870	17324.559	16294.811	15597.205
50.0	3047.598	3019.486	3066.340	3148.595	3532.798	4991.522	10334.971	17869.108	17933.662	17267.293
52.5	2862.264	2836.234	2843.523	2798.751	2946.602	3371.412	7907.929	18452.181	20490.854	19728.695
55.0	2567.604	2540.533	2661.312	2688.383	2717.537	2867.470	5073.777	18680.204	22808.570	22140.118
57.5	2240.667	2220.884	2361.446	2590.510	2656.106	2697.754	3898.260	17408.897	23542.617	23029.305
60.0	1942.883	1930.388	2076.157	2339.581	2544.698	2551.986	3625.465	14824.633	23307.306	23155.290
62.5	1601.369	1609.698	1799.197	2068.868	2284.397	2308.345	3389.112	11901.979	23093.859	23363.531
65.0	1265.060	1277.555	1488.919	1765.879	1969.954	1969.954	2976.796	9096.981	23017.851	23658.191
67.5	866.280	866.280	1123.457	1434.776	1632.605	1625.316	2427.042	6700.135	23938.274	24653.580
68.0	782.984	782.984	1018.296	1365.016	1563.885	1554.515	2305.221	6297.189	24066.342	24742.082
70.0	623.680	625.762	701.770	1081.809	1294.214	1285.884	1821.062	4854.083	22445.190	22983.492
72.5	486.241	494.571	550.796	727.800	999.554	1016.213	1281.720	3062.175	15958.502	15950.173
75.0	364.421	371.709	420.646	512.271	773.613	850.662	843.374	1536.814	6411.722	6054.589
77.5	254.053	265.506	305.072	370.668	598.691	763.201	496.653	750.707	1338.986	1328.574
80.0	168.675	178.046	206.158	241.559	440.428	551.837	304.031	409.192	548.713	560.167
82.5	93.708	99.955	115.573	134.315	270.713	260.300	171.798	212.405	289.454	280.083
85.0	36.442	40.607	46.854	53.101	130.150	90.585	67.678	79.131	108.285	105.161
87.5	4.165	5.206	6.247	6.247	19.783	7.288	6.247	6.247	10.412	10.412
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	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869	5707.869
2.5	5879.667	5777.630	5663.097	5449.651	5242.452	5042.541	4846.795	4705.192	4595.865	4514.652
5.0	6019.188	5766.176	5504.835	5007.140	4528.187	4090.882	3707.720	3413.060	3194.408	3043.433
7.5	6156.627	5770.341	5365.314	4583.371	3864.942	3243.344	2749.814	2413.506	2200.060	2087.610
10.0	6309.684	5779.712	5234.122	4187.714	3266.251	2557.192	2132.382	1938.718	1862.710	1825.227
12.5	6490.853	5814.072	5131.043	3830.582	2764.391	2113.640	1884.576	1811.691	1773.167	1747.137
15.0	6698.052	5885.915	5060.241	3506.768	2364.570	1903.317	1798.156	1749.219	1716.942	1698.200
17.5	6963.559	6005.653	5024.841	3208.984	2090.734	1813.774	1741.931	1705.489	1681.541	1660.717
20.0	7299.867	6170.163	5022.758	2954.931	1939.759	1763.796	1701.324	1676.335	1659.676	1635.728
22.5	7655.958	6373.197	5052.953	2738.361	1860.628	1727.354	1672.170	1654.470	1648.223	1620.110
25.0	8042.244	6607.468	5109.178	2557.192	1813.774	1692.994	1649.264	1635.728	1634.687	1595.121

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CANDELA TABULATION - (Cont.)

27.5	8464.972	6867.768	5184.145	2410.383	1774.208	1659.676	1622.193	1615.945	1606.575	1561.803
30.0	8901.235	7131.192	5275.770	2291.685	1736.725	1623.234	1587.833	1584.709	1564.927	1521.196
32.5	9308.345	7392.534	5364.272	2197.977	1702.365	1585.751	1547.226	1538.896	1504.537	1442.065
35.0	9660.272	7600.774	5442.363	2119.887	1668.006	1547.226	1501.413	1468.095	1398.334	1329.615
37.5	9980.962	7813.179	5523.576	2050.127	1622.193	1505.578	1430.611	1368.139	1296.296	1269.225
40.0	10356.836	8083.892	5657.891	2001.190	1574.297	1445.188	1338.986	1256.731	1235.907	1220.289
42.5	10670.238	8338.986	5806.783	1972.036	1528.484	1365.016	1254.648	1173.435	1194.259	1194.259
45.0	11020.081	8630.523	5982.746	1957.460	1478.507	1285.884	1159.899	1122.416	1154.693	1179.682
47.5	11469.881	89037.633	6258.665	1968.913	1423.323	1223.412	1083.891	1077.644	1120.333	1150.528
50.0	12663.098	10142.348	7055.184	2099.063	1379.593	1168.229	1063.067	1041.202	1088.056	1129.704
52.5	14737.172	12059.201	8690.913	2544.698	1328.574	1090.138	1058.902	1000.595	1070.356	1127.622
55.0	16502.010	13476.277	10002.827	2795.627	1228.618	1003.719	962.071	961.029	1065.150	1136.993
57.5	16429.126	13271.160	10003.868	2586.346	1095.344	917.299	892.310	936.041	1063.067	1128.663
60.0	15972.038	12739.106	9507.215	2157.370	971.441	849.621	844.415	916.258	1041.202	1084.932
62.5	15643.018	12236.205	9090.734	1818.980	865.239	791.313	798.602	890.228	989.142	1015.172
65.0	15571.175	11898.856	8889.782	1564.927	772.572	728.841	751.748	844.415	910.011	969.359
67.5	15991.821	11604.196	8626.358	1309.832	687.193	661.163	704.894	781.943	841.291	1177.599
68.0	16008.480	11478.210	8548.268	1249.442	671.575	647.628	693.440	767.366	836.085	1257.772
70.0	14747.584	9888.295	7438.347	1047.449	611.186	595.568	650.751	705.935	902.722	1583.668
72.5	10979.475	56554.366	4855.125	720.512	540.384	536.219	588.279	624.721	1182.805	1884.576
75.0	3981.556	2711.290	2056.374	500.818	464.376	483.118	520.601	544.549	1441.023	1833.557
77.5	949.576	737.171	547.672	342.555	364.421	407.110	446.676	484.159	1417.076	1378.551
80.0	432.099	364.421	294.660	232.188	265.506	323.814	358.173	403.986	1046.408	925.629
82.5	239.476	217.611	182.210	142.645	178.046	226.982	251.971	278.001	604.938	537.260
85.0	89.543	82.255	76.008	63.513	90.585	114.532	128.068	138.480	295.701	257.177
87.5	7.288	5.206	7.288	7.288	17.700	24.989	30.195	37.483	90.585	56.225
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

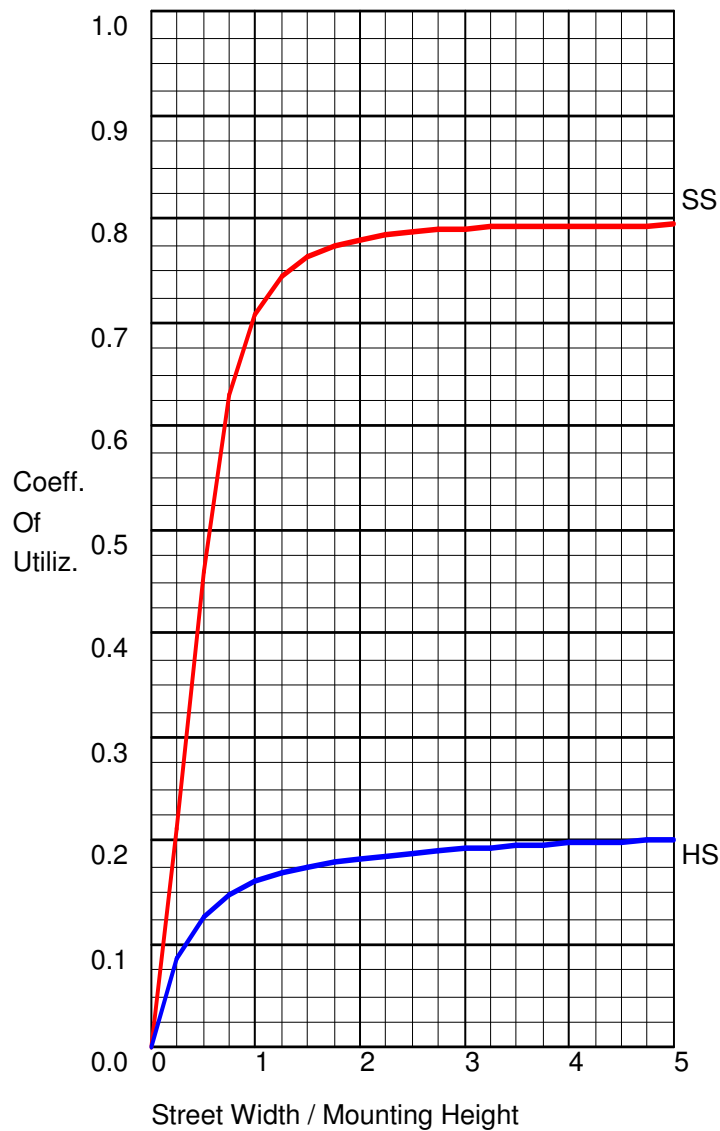
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	5707.869	5707.869
2.5	4474.045	4519.858
5.0	2965.343	2997.620
7.5	2044.921	2058.456
10.0	1812.733	1806.485
12.5	1737.766	1733.601
15.0	1686.747	1684.665
17.5	1649.264	1646.140
20.0	1621.151	1618.028
22.5	1599.286	1594.080
25.0	1567.009	1562.844
27.5	1529.526	1530.567
30.0	1478.507	1474.342
32.5	1379.593	1373.345
35.0	1299.420	1300.461
37.5	1259.854	1271.308
40.0	1213.000	1222.371
42.5	1164.064	1168.229
45.0	1150.528	1130.745
47.5	1121.374	1110.962
50.0	1101.592	1114.086
52.5	1118.251	1134.910
55.0	1140.116	1156.775
57.5	1139.075	1154.693
60.0	1102.633	1116.168

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-730-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	1043.284	1060.985
65.0	1049.532	1090.138
67.5	1306.708	1365.016
68.0	1367.098	1425.405
70.0	1559.721	1616.987
72.5	1670.088	1713.818
75.0	1449.353	1450.394
77.5	1029.749	991.224
80.0	680.946	638.257
82.5	410.234	388.368
85.0	143.686	114.532
87.5	21.865	6.247
90.0	0.000	0.000

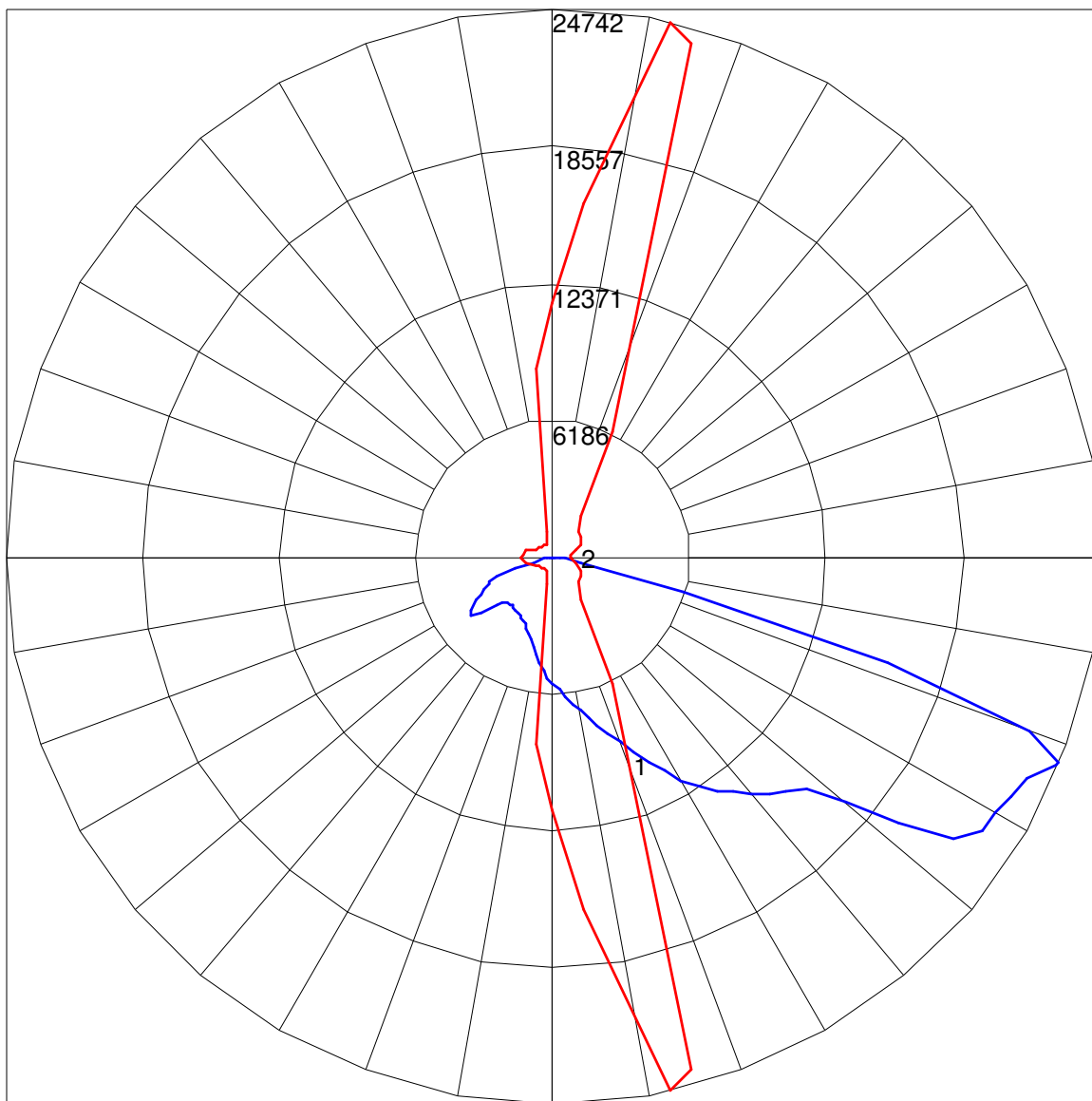
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

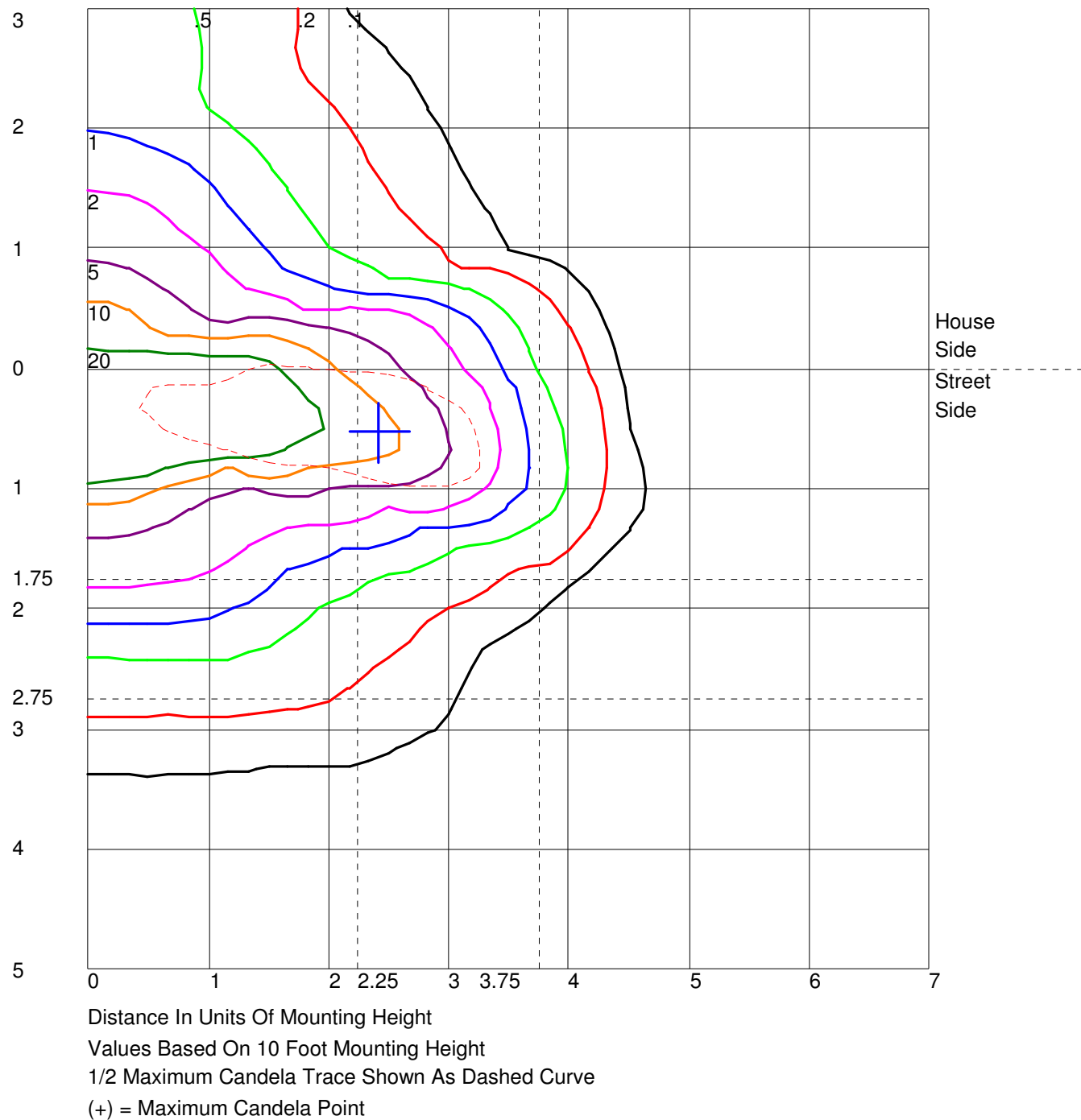
	Lumens	Percent Of Luminaire
Downward Street Side	19628.1	79.6
Downward House Side	5036.1	20.4
Downward Total	24664.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24664.2	100.0

POLAR GRAPH

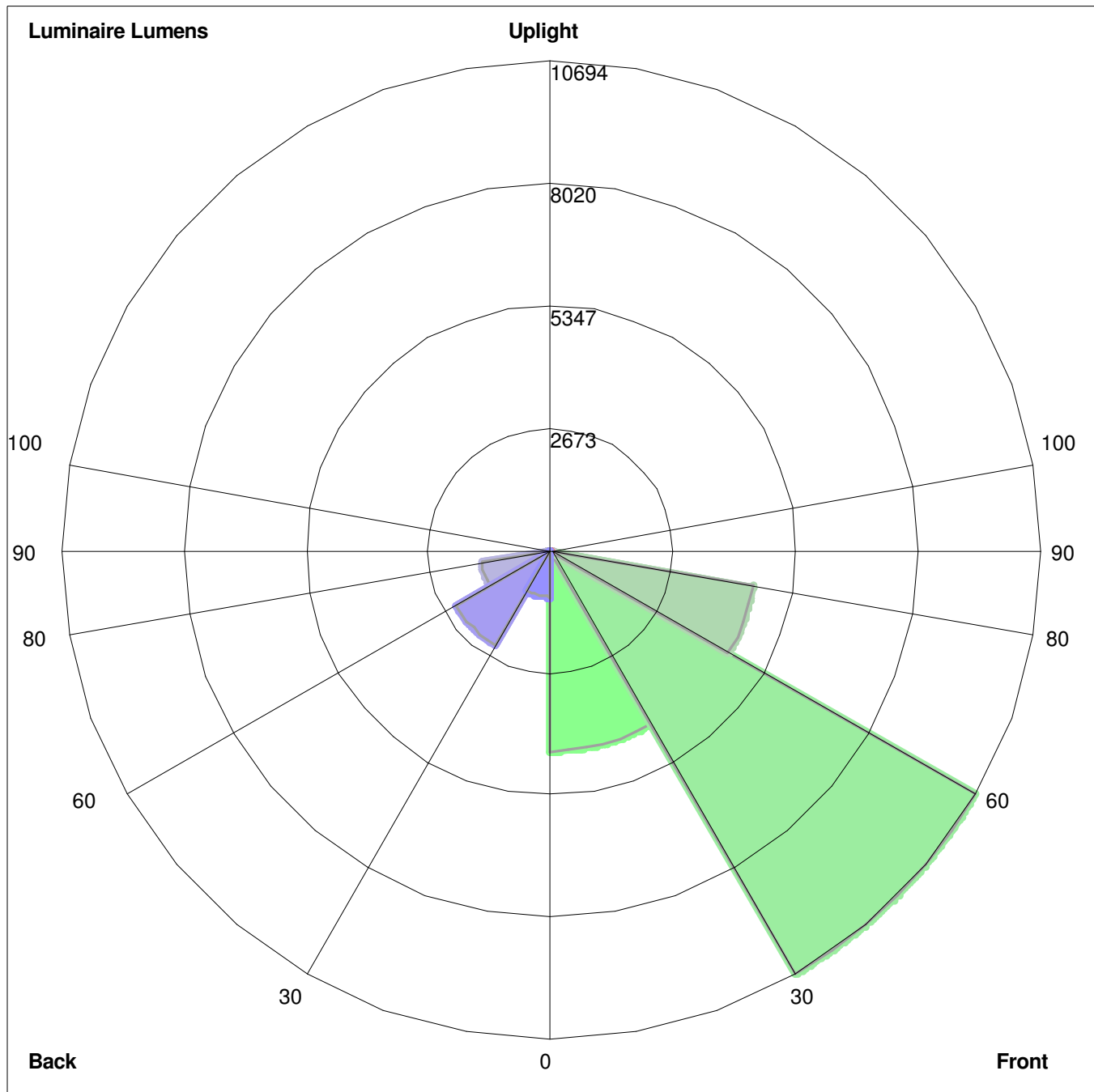


Maximum Candela = 24742.082 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=4386.4, Medium= 10694.0, High=4483.9, Very High=63.7
Back: Low=1018.8, Medium= 2384.0, High=1532.5, Very High=100.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3