



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-740-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-L280-740-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] 4000K 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	26876
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26961.096
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	26961.096
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	1140.256 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-740-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4779.8	N.A.	17.8
FM - Front-Medium (30-60)	11653.1	N.A.	43.4
FH - Front-High (60-80)	4886.1	N.A.	18.2
FVH - Front-Very High (80-90)	69.5	N.A.	0.3
BL - Back-Low (0-30)	1110.2	N.A.	4.1
BM - Back-Medium (30-60)	2597.8	N.A.	9.7
BH - Back-High (60-80)	1670.0	N.A.	6.2
BVH - Back-Very High (80-90)	109.8	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	26876.3	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	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784
2.5	7441.730	7390.674	7354.367	7303.311	7228.428	7075.260	6964.070	6792.748	6602.138	6548.813
5.0	9068.722	9080.068	8984.763	8841.805	8618.292	8273.379	7943.216	7516.612	7049.164	6923.225
7.5	10688.906	10702.521	10562.968	10324.705	9972.985	9440.865	8915.553	8239.342	7505.267	7314.657
10.0	12069.694	12050.406	11897.237	11626.072	11222.160	10566.371	9877.680	8958.667	7956.831	7701.549
12.5	12683.503	12650.600	12580.256	12450.914	12196.767	11587.496	10809.172	9698.415	8431.086	8106.596
15.0	12619.967	12599.544	12597.275	12618.832	12625.640	12378.300	11683.936	10475.605	8963.206	8566.102
17.5	12579.122	12563.238	12563.238	12576.853	12656.273	12728.887	12413.473	11285.697	9567.938	9094.817
20.0	12571.180	12571.180	12616.563	12633.582	12661.946	12802.635	12897.940	12147.980	10260.034	9713.165
22.5	12320.437	12351.070	12499.701	12643.793	12728.887	12823.057	13148.682	12908.151	11011.128	10399.588
25.0	11648.764	11681.667	11949.428	12377.166	12718.675	12913.824	13288.236	13601.381	11835.970	11155.220
27.5	10743.366	10785.346	11072.395	11681.667	12465.663	12973.957	13439.136	14150.519	12673.292	11924.467
30.0	10020.637	10049.002	10337.186	10860.228	11803.067	12863.902	13611.592	14557.834	13496.999	12708.464
32.5	9561.131	9600.841	9849.315	10283.860	11068.992	12549.623	13801.068	14886.863	14288.938	13457.289
35.0	9111.836	9150.412	9431.788	9856.122	10508.508	12083.309	13974.659	15150.087	14945.862	14082.444
37.5	8409.529	8477.604	8819.114	9317.196	10025.175	11662.379	14209.517	15374.734	15475.712	14639.524
40.0	7352.098	7421.307	7870.602	8561.563	9371.656	11076.934	14603.218	15622.073	15978.332	15235.180
42.5	6047.327	5989.464	6483.007	7344.156	8478.739	10225.997	14711.003	16383.378	16443.511	15783.184
45.0	4665.405	4625.695	4963.801	5680.857	7080.932	9236.640	14069.964	17777.781	16856.500	16266.516
47.5	3760.008	3719.163	3888.216	4235.398	5265.600	7794.585	12828.730	18878.326	17756.224	16996.053
50.0	3320.924	3290.291	3341.347	3430.979	3849.640	5439.191	11261.871	19471.713	19542.058	18815.924
52.5	3118.969	3090.604	3098.546	3049.759	3210.870	3673.780	8617.158	20107.080	22328.593	21498.079
55.0	2797.882	2768.383	2899.994	2929.493	2961.262	3124.642	5528.823	20355.554	24854.175	24125.773
57.5	2441.623	2420.066	2573.234	2822.842	2894.321	2939.705	4247.879	18970.228	25654.056	25094.707
60.0	2117.132	2103.517	2262.358	2549.408	2772.921	2780.863	3950.618	16154.193	25397.640	25231.991
62.5	1744.989	1754.065	1960.559	2254.416	2489.275	2515.371	3693.068	12969.418	25165.051	25458.908
65.0	1378.518	1392.133	1622.454	1924.253	2146.631	2146.631	3243.773	9912.852	25082.226	25779.995
67.5	943.973	943.973	1224.215	1563.455	1779.026	1771.084	2644.713	7301.042	26085.198	26864.656
68.0	853.206	853.206	1109.622	1487.438	1704.144	1693.932	2511.967	6861.958	26224.751	26961.096
70.0	679.615	681.884	764.709	1178.832	1410.287	1401.210	1984.386	5289.426	24458.206	25044.785
72.5	529.850	538.927	600.194	793.074	1089.200	1107.353	1396.672	3336.809	17389.754	17380.677
75.0	397.104	405.046	458.372	558.215	842.995	926.954	919.012	1674.645	6986.762	6597.600
77.5	276.838	289.319	332.433	403.912	652.385	831.649	541.196	818.034	1459.074	1447.728
80.0	183.802	194.014	224.647	263.223	479.929	601.329	331.298	445.891	597.925	610.406
82.5	102.112	108.920	125.939	146.361	294.992	283.646	187.206	231.455	315.414	305.203
85.0	39.710	44.249	51.056	57.864	141.823	98.709	73.748	86.228	117.997	114.593
87.5	4.538	5.673	6.807	6.807	21.557	7.942	6.807	6.807	11.346	11.346
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	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784	6219.784
2.5	6406.990	6295.801	6170.997	5938.407	5712.625	5494.785	5281.484	5127.181	5008.049	4919.552
5.0	6559.024	6283.321	5998.540	5456.210	4934.301	4457.777	4040.250	3719.163	3480.901	3316.386
7.5	6708.789	6287.859	5846.506	4994.434	4211.572	3534.226	2996.434	2629.963	2397.374	2274.839
10.0	6875.573	6298.070	5703.549	4563.293	3559.187	2786.536	2323.626	2112.594	2029.769	1988.924
12.5	7072.990	6335.511	5591.225	4174.131	3012.318	2303.203	2053.595	1974.174	1932.195	1903.830
15.0	7298.772	6413.798	5514.073	3821.276	2576.638	2074.018	1959.425	1906.099	1870.927	1850.505
17.5	7588.091	6544.275	5475.498	3496.785	2278.243	1976.444	1898.157	1858.447	1832.352	1809.660
20.0	7954.561	6723.539	5473.228	3219.947	2113.728	1921.984	1853.909	1826.679	1808.525	1782.430
22.5	8342.589	6944.783	5506.131	2983.953	2027.500	1882.273	1822.140	1802.852	1796.045	1765.411
25.0	8763.519	7200.064	5567.399	2786.536	1976.444	1844.832	1797.179	1782.430	1781.295	1738.181

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CANDELA TABULATION - (Cont.)

27.5	9224.160	7483.709	5649.089	2626.560	1933.329	1808.525	1767.680	1760.873	1750.662	1701.874
30.0	9699.550	7770.759	5748.932	2497.217	1892.484	1768.815	1730.239	1726.835	1705.278	1657.626
32.5	10143.172	8055.539	5845.372	2395.105	1855.043	1727.970	1685.990	1676.914	1639.472	1571.397
35.0	10526.661	8282.456	5930.465	2310.011	1817.602	1685.990	1636.069	1599.762	1523.745	1448.862
37.5	10876.113	8513.911	6018.963	2233.994	1767.680	1640.607	1558.917	1490.842	1412.556	1383.057
40.0	11285.697	8808.902	6165.324	2180.669	1715.489	1574.801	1459.074	1369.442	1346.750	1329.731
42.5	11627.207	9086.875	6327.569	2148.900	1665.568	1487.438	1367.173	1278.675	1301.367	1301.367
45.0	12008.426	9404.558	6519.314	2133.016	1611.108	1401.210	1263.925	1223.080	1258.253	1285.483
47.5	12498.566	9848.180	6819.978	2145.496	1550.975	1333.135	1181.101	1174.293	1220.811	1253.714
50.0	13798.798	11051.973	7687.934	2287.319	1503.322	1273.002	1158.409	1134.583	1185.639	1231.023
52.5	16058.888	13140.740	9470.364	2772.921	1447.728	1187.908	1153.871	1090.334	1166.351	1228.753
55.0	17982.006	14684.908	10899.939	3046.355	1338.808	1093.738	1048.355	1047.220	1160.678	1238.965
57.5	17902.585	14461.395	10901.073	2818.304	1193.581	999.568	972.338	1019.990	1158.409	1229.888
60.0	17404.503	13881.623	10359.877	2350.856	1058.566	925.820	920.147	998.433	1134.583	1182.235
62.5	17045.975	13333.619	99906.044	1982.116	942.838	862.283	870.225	970.068	1077.854	1106.218
65.0	16967.689	12966.014	9687.070	1705.278	841.861	794.208	819.169	920.147	991.626	1056.297
67.5	17426.060	12644.927	9400.020	1427.305	748.825	720.460	768.113	852.072	916.743	1283.213
68.0	17444.214	12507.643	9314.926	1361.500	731.806	705.711	755.632	836.188	911.070	1370.576
70.0	16070.234	10775.135	8105.461	1141.390	666.000	648.981	709.114	769.247	983.683	1725.701
72.5	11964.178	7142.200	5290.561	785.131	588.849	584.310	641.039	680.750	1288.886	2053.595
75.0	4338.645	2954.454	2240.801	545.734	506.024	526.447	567.291	593.387	1570.263	1998.001
77.5	1034.740	803.285	596.791	373.278	397.104	443.622	486.736	527.581	1544.167	1502.188
80.0	470.852	397.104	321.087	253.012	289.319	352.855	390.297	440.218	1140.256	1008.644
82.5	260.954	237.128	198.552	155.438	194.014	247.339	274.569	302.934	659.193	585.445
85.0	97.574	89.632	82.825	69.210	98.709	124.804	139.554	150.900	322.222	280.242
87.5	7.942	5.673	7.942	7.942	19.288	27.230	32.903	40.845	98.709	61.267
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

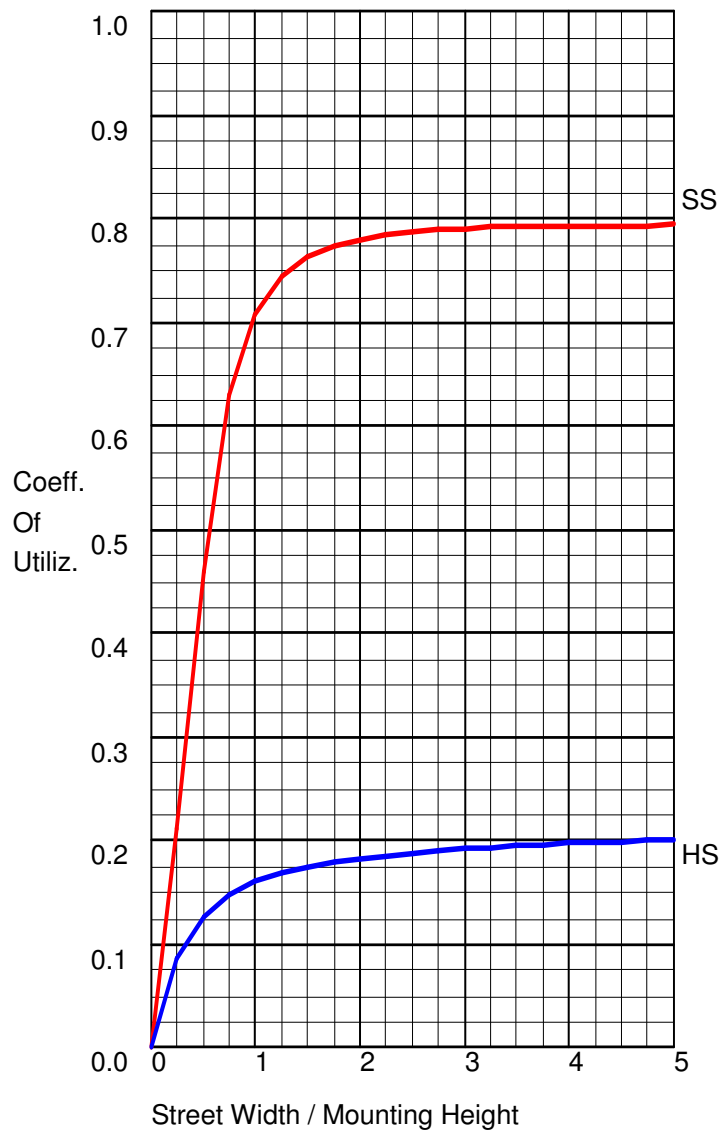
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6219.784	6219.784
2.5	4875.303	4925.225
5.0	3231.292	3266.464
7.5	2228.321	2243.071
10.0	1975.309	1968.501
12.5	1893.619	1889.081
15.0	1838.024	1835.755
17.5	1797.179	1793.776
20.0	1766.546	1763.142
22.5	1742.719	1737.047
25.0	1707.547	1703.009
27.5	1666.702	1667.837
30.0	1611.108	1606.570
32.5	1503.322	1496.515
35.0	1415.960	1417.094
37.5	1372.845	1385.326
40.0	1321.789	1332.000
42.5	1268.464	1273.002
45.0	1253.714	1232.157
47.5	1221.946	1210.600
50.0	1200.389	1214.004
52.5	1218.542	1236.695
55.0	1242.368	1260.522
57.5	1241.234	1258.253
60.0	1201.523	1216.273

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-740-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	1136.852	1156.140
65.0	1143.660	1187.908
67.5	1423.902	1487.438
68.0	1489.707	1553.244
70.0	1699.605	1762.007
72.5	1819.871	1867.524
75.0	1579.340	1580.474
77.5	1122.103	1080.123
80.0	742.017	695.499
82.5	447.026	423.199
85.0	156.572	124.804
87.5	23.826	6.807
90.0	0.000	0.000

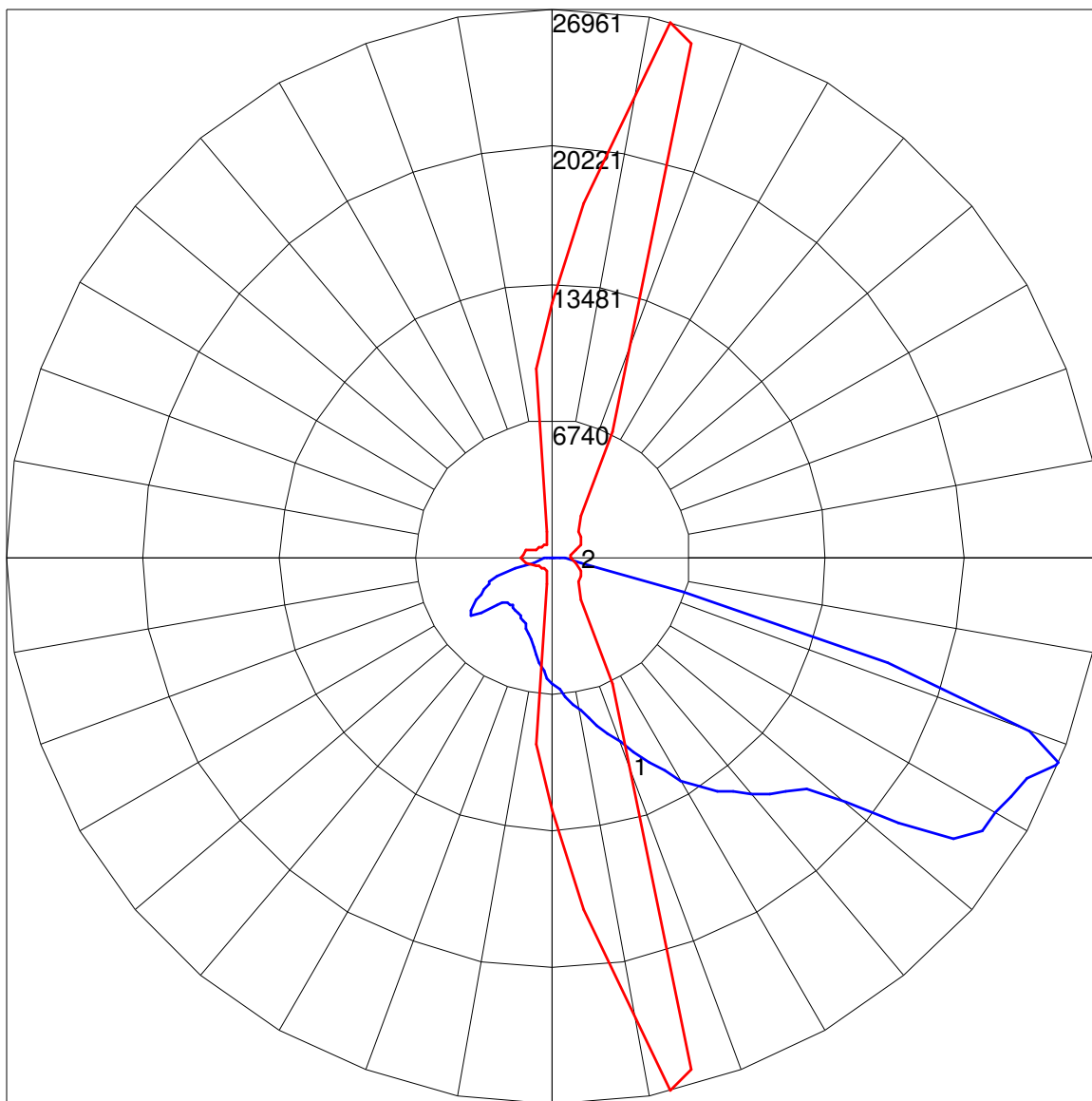
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

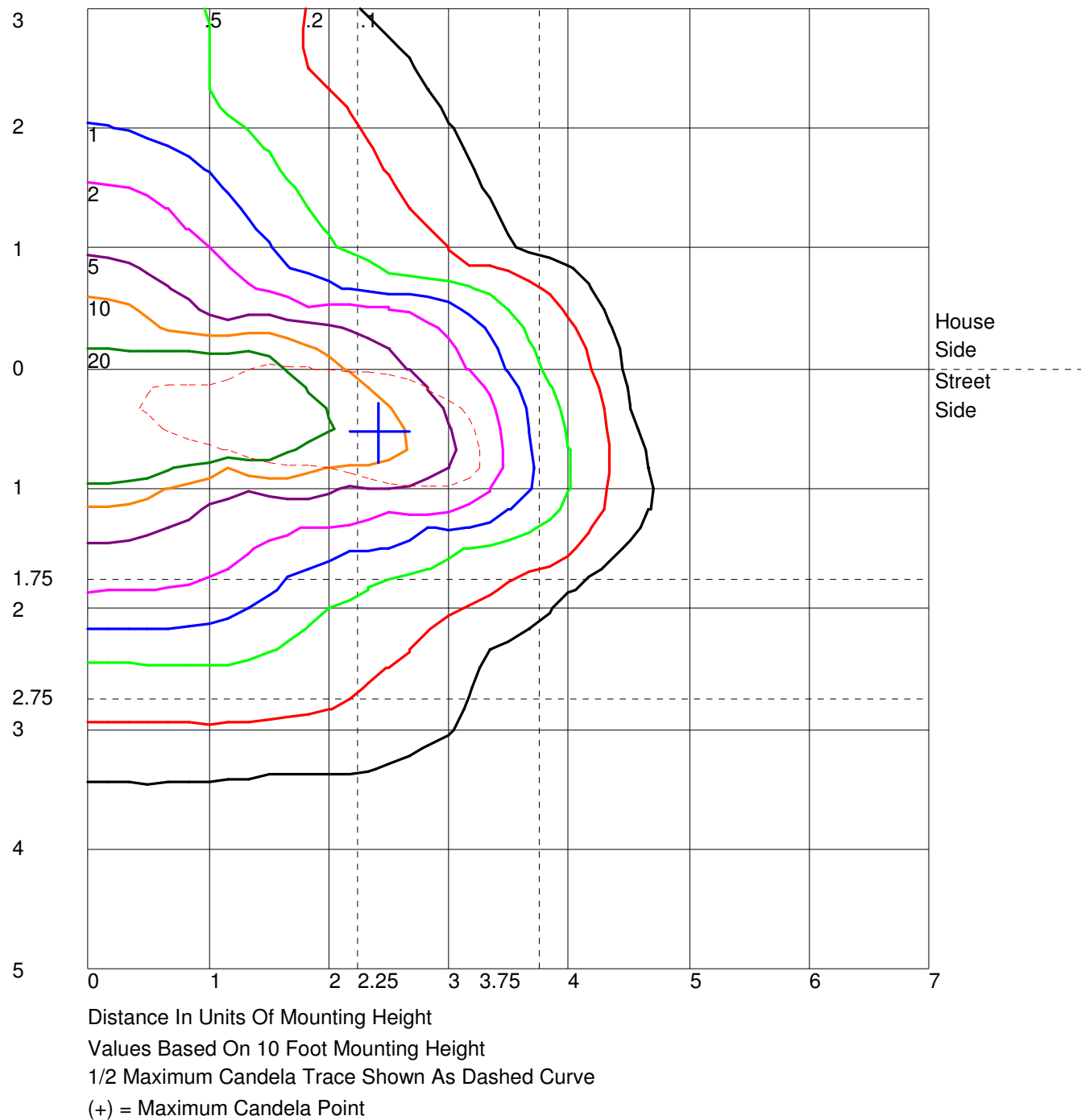
	Lumens	Percent Of Luminaire
Downward Street Side	21388.5	79.6
Downward House Side	5487.8	20.4
Downward Total	26876.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26876.3	100.0

POLAR GRAPH

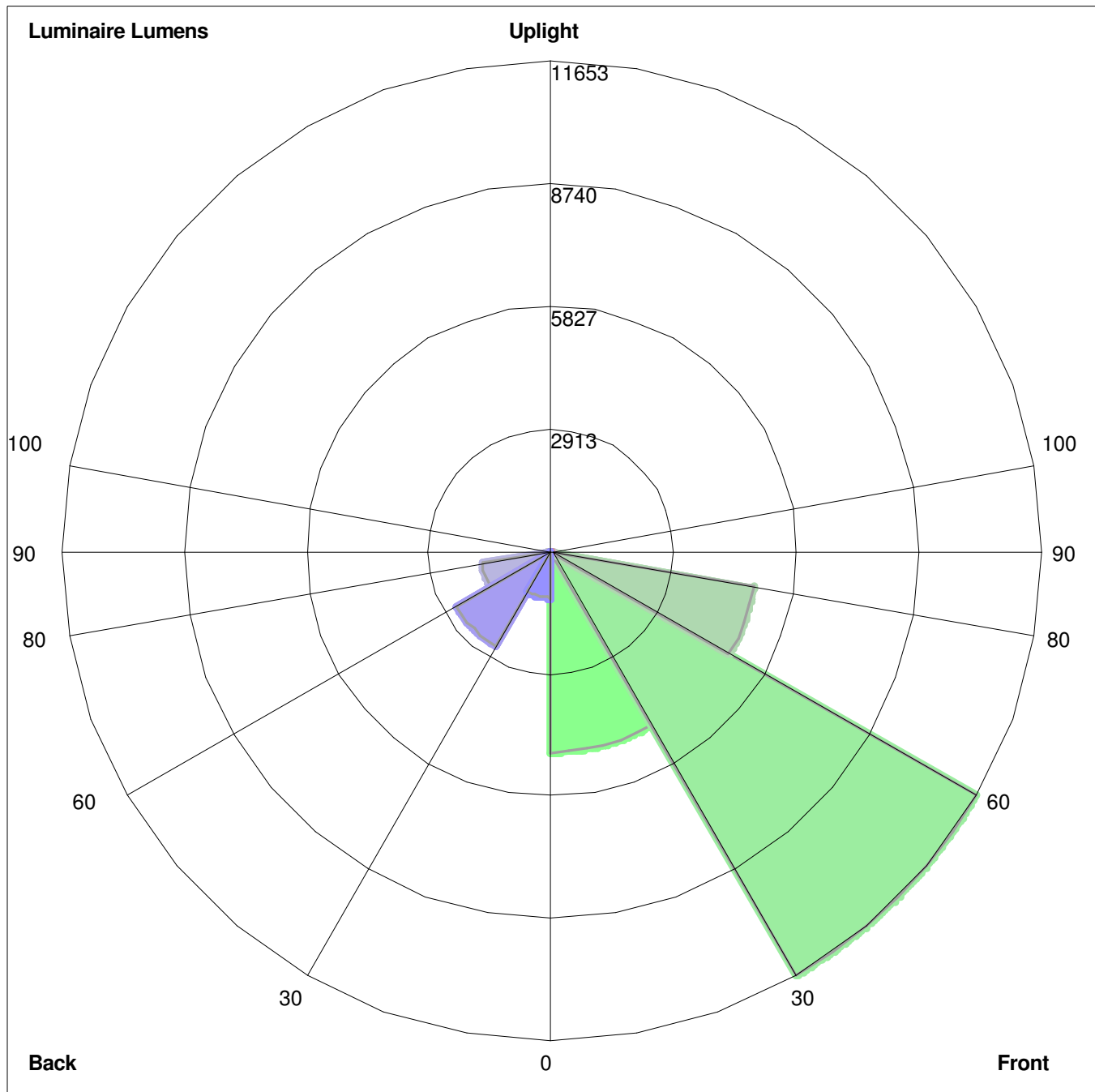


Maximum Candela = 26961.096 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=4779.8, Medium=11653.1, High=4886.1, Very High=69.5
Back: Low=1110.2, Medium=2597.8, High= 1670.0, Very High=109.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3