



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-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-L330-750-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] 5000K 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	33075
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	33179.729
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	33179.729
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	1403.258 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5882.3	N.A.	17.8
FM - Front-Medium (30-60)	14340.9	N.A.	43.4
FH - Front-High (60-80)	6013.1	N.A.	18.2
FVH - Front-Very High (80-90)	85.5	N.A.	0.3
BL - Back-Low (0-30)	1366.3	N.A.	4.1
BM - Back-Medium (30-60)	3197.0	N.A.	9.7
BH - Back-High (60-80)	2055.2	N.A.	6.2
BVH - Back-Very High (80-90)	135.2	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	33075.5	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	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390
2.5	9158.181	9095.348	9050.667	8987.835	8895.680	8707.183	8570.348	8359.510	8124.936	8059.311
5.0	11160.442	11174.404	11057.117	10881.186	10606.120	10181.652	9775.335	9250.335	8675.069	8520.082
7.5	13154.325	13171.080	12999.338	12706.120	12273.274	11618.421	10971.944	10139.763	9236.372	9001.798
10.0	14853.594	14829.857	14641.360	14307.650	13810.575	13003.527	12155.987	11025.003	9792.090	9477.928
12.5	15608.980	15568.488	15481.919	15322.743	15009.977	14260.176	13302.331	11935.375	10375.734	9976.399
15.0	15530.789	15505.656	15502.863	15529.392	15537.770	15233.382	14378.860	12891.825	11030.588	10541.891
17.5	15480.523	15460.975	15460.975	15477.730	15575.469	15664.831	15276.666	13888.767	11774.804	11192.556
20.0	15470.749	15470.749	15526.600	15547.544	15582.451	15755.589	15872.876	14949.937	12626.532	11953.527
22.5	15162.171	15199.871	15382.783	15560.110	15664.831	15780.722	16181.454	15885.443	13550.868	12798.275
25.0	14335.575	14376.067	14705.589	15231.985	15652.265	15892.424	16353.196	16738.568	14565.961	13728.195
27.5	13221.346	13273.009	13626.267	14376.067	15340.895	15966.427	16538.900	17414.366	15596.414	14674.871
30.0	12331.918	12366.825	12721.479	13365.163	14525.469	15830.988	16751.135	17915.630	16610.111	15639.698
32.5	11766.426	11815.296	12121.080	12655.854	13622.078	15444.219	16984.313	18320.550	17584.712	16561.241
35.0	11213.500	11260.974	11607.250	12129.458	12932.317	14870.350	17197.943	18644.486	18393.156	17330.590
37.5	10349.205	10432.981	10853.261	11466.226	12337.503	14352.331	17486.973	18920.949	19045.218	18016.161
40.0	9047.875	9133.048	9685.973	10536.306	11533.248	13631.852	17971.481	19225.337	19663.768	18749.207
42.5	7442.156	7370.946	7978.326	9038.101	10434.378	12584.644	18104.127	20162.239	20236.242	19423.609
45.0	5741.491	5692.621	6108.712	6991.159	8714.164	11367.091	17315.230	21878.264	20744.487	20018.423
47.5	4627.262	4576.996	4785.041	5212.302	6480.121	9592.423	15787.703	23232.652	21851.734	20916.229
50.0	4086.903	4049.203	4112.036	4222.341	4737.568	6693.752	13859.445	23962.905	24049.474	23155.857
52.5	3838.365	3803.458	3813.232	3753.192	3951.464	4521.145	10604.723	24744.820	27478.730	26456.656
55.0	3443.219	3406.916	3568.884	3605.187	3644.283	3845.347	6804.058	25050.605	30586.843	29690.433
57.5	3004.788	2978.259	3166.756	3473.937	3561.903	3617.754	5227.661	23345.751	31571.218	30882.854
60.0	2605.453	2588.697	2784.176	3137.434	3412.501	3422.275	4861.836	19880.191	31255.660	31051.803
62.5	2147.474	2158.644	2412.767	2774.402	3063.432	3095.546	4544.881	15960.842	30969.423	31331.058
65.0	1696.476	1713.232	1996.676	2368.086	2641.756	2641.756	3991.956	12199.272	30867.495	31726.205
67.5	1161.702	1161.702	1506.583	1924.070	2189.362	2179.588	3254.722	8985.042	32101.803	33061.046
68.0	1050.000	1050.000	1365.559	1830.519	2097.208	2084.641	3091.357	8444.683	32273.545	33179.729
70.0	836.370	839.162	941.091	1450.732	1735.572	1724.402	2442.088	6509.443	30099.542	30821.417
72.5	652.061	663.232	738.631	975.998	1340.426	1362.766	1718.817	4106.451	21400.737	21389.567
75.0	488.697	498.471	564.096	686.968	1037.434	1140.758	1130.984	2060.905	8598.273	8119.350
77.5	340.692	356.051	409.109	497.075	802.859	1023.471	666.024	1006.716	1795.612	1781.649
80.0	226.197	238.763	276.463	323.936	590.625	740.027	407.713	548.737	735.838	751.197
82.5	125.665	134.043	154.987	180.120	363.032	349.069	230.386	284.840	388.165	375.598
85.0	48.870	54.455	62.832	71.210	174.535	121.476	90.758	106.117	145.213	141.024
87.5	5.585	6.981	8.378	8.378	26.529	9.774	8.378	8.378	13.963	13.963
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	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390	7654.390
2.5	7884.776	7747.941	7594.350	7308.114	7030.254	6762.169	6499.669	6309.776	6163.166	6054.257
5.0	8071.877	7732.582	7382.116	6714.696	6072.408	5485.972	4972.142	4576.996	4283.778	4081.318
7.5	8256.186	7738.167	7195.015	6146.411	5182.980	4349.403	3687.567	3236.570	2950.333	2799.535
10.0	8461.438	7750.733	7019.084	5615.826	4380.121	3429.256	2859.575	2599.868	2497.939	2447.673
12.5	8704.391	7796.810	6880.853	5136.903	3707.115	2834.442	2527.261	2429.522	2377.860	2342.953
15.0	8982.250	7893.154	6785.906	4702.661	3170.945	2552.394	2411.370	2345.745	2302.461	2277.328
17.5	9338.300	8053.725	6738.433	4303.326	2803.724	2432.314	2335.971	2287.102	2254.987	2227.062
20.0	9789.298	8274.337	6735.640	3962.634	2601.264	2365.293	2281.517	2248.006	2225.665	2193.551
22.5	10266.824	8546.611	6776.132	3672.208	2495.147	2316.423	2242.421	2218.684	2210.306	2172.607
25.0	10784.843	8860.774	6851.531	3429.256	2432.314	2270.346	2211.703	2193.551	2192.155	2139.096

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CANDELA TABULATION - (Cont.)

27.5	11351.7329209.843	6952.063	3232.381	2379.256	2225.665	2175.399	2167.022	2154.455	2094.415
30.0	11936.7729563.101	7074.935	3073.206	2328.990	2176.796	2129.322	2125.134	2098.604	2039.961
32.5	12482.7169913.566	7193.619	2947.541	2282.913	2126.530	2074.868	2063.697	2017.620	1933.844
35.0	12954.65810192.8227298.340	2842.820	2236.836	2074.868	2013.431	1968.751	1875.200	1783.046	
37.5	13384.71110477.6627407.249	2749.269	2175.399	2019.016	1918.485	1834.708	1738.365	1702.062	
40.0	13888.76710840.6947587.369	2683.644	2111.171	1938.032	1795.612	1685.306	1657.381	1636.437	
42.5	14309.04611182.7827787.037	2644.549	2049.735	1830.519	1682.514	1573.604	1601.530	1601.530	
45.0	14778.19511573.7408023.007	2625.001	1982.713	1724.402	1555.453	1505.187	1548.471	1581.982	
47.5	15381.38712119.6848393.021	2640.360	1908.711	1640.625	1453.524	1445.147	1502.394	1542.886	
50.0	16981.52013601.1349461.173	2814.894	1850.067	1566.623	1425.599	1396.277	1459.109	1514.960	
52.5	19762.90416171.68011654.7243412.501	1781.649	1461.902	1420.014	1341.822	1435.373	1512.168		
55.0	22129.59318072.01313414.0333749.004	1647.607	1346.011	1290.160	1288.764	1428.391	1524.734		
57.5	22031.85417796.94613415.4293468.352	1468.883	1230.120	1196.609	1255.253	1425.599	1513.564		
60.0	21418.88817083.44812749.4052893.086	1302.726	1139.362	1132.381	1228.724	1396.277	1454.921		
62.5	20977.66516409.04712190.8942439.296	1160.306	1061.170	1070.944	1193.817	1326.463	1361.370		
65.0	20881.32215956.65311921.4132098.604	1036.037	977.394	1008.112	1132.381	1220.346	1299.934		
67.5	21445.41815561.50711568.1551756.516	921.543	886.636	945.279	1048.604	1128.192	1579.189		
68.0	21467.75815392.55711463.4341675.532	900.599	868.484	929.920	1029.056	1121.210	1686.703		
70.0	19776.86713260.4429975.003	1404.655	819.615	798.670	872.673	946.676	1210.572	2123.737	
72.5	14723.7408789.563	6510.839	966.224	724.668	719.083	788.896	837.766	1586.171	2527.261
75.0	5339.363	3635.905	2757.647	671.609	622.740	647.873	698.138	730.253	1932.447
77.5	1273.405	988.564	734.442	459.375	488.697	545.944	599.003	649.269	1900.333
80.0	579.455	488.697	395.146	311.370	356.051	434.242	480.319	541.755	1403.258
82.5	321.144	291.822	244.348	191.290	238.763	304.388	337.899	372.806	811.237
85.0	120.080	110.306	101.928	85.173	121.476	153.590	171.742	185.705	396.543
87.5	9.774	6.981	9.774	9.774	23.737	33.511	40.492	50.266	121.476
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

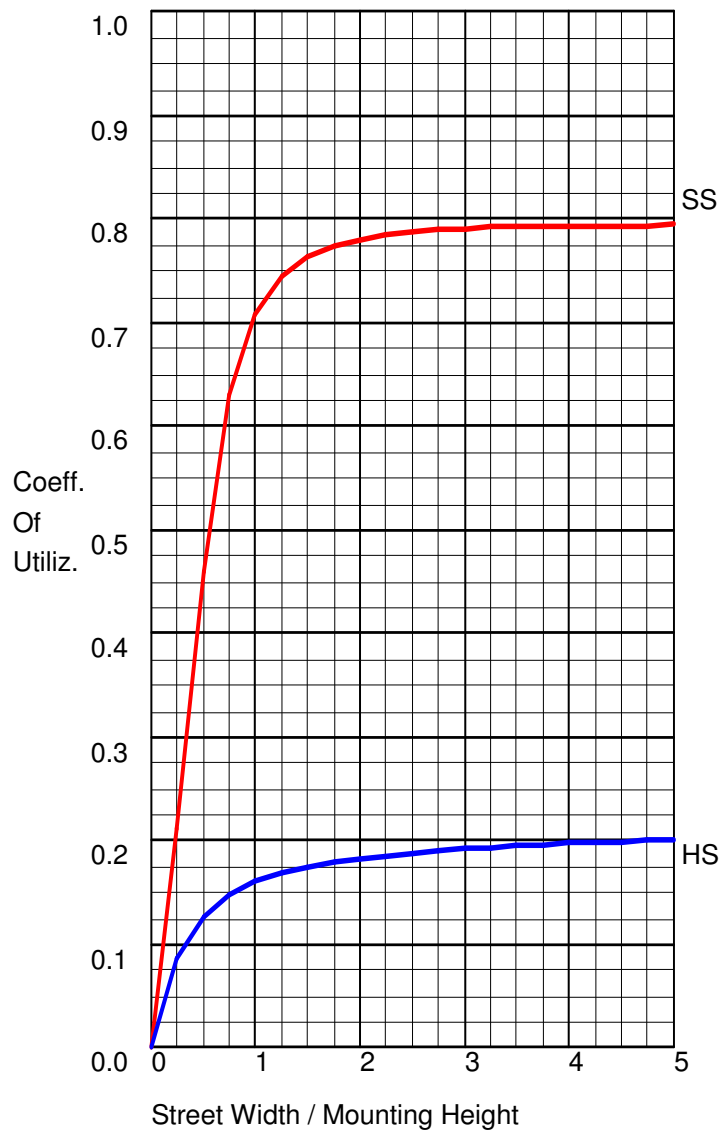
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	7654.390	7654.390
2.5	5999.802	6061.238
5.0	3976.597	4019.881
7.5	2742.288	2760.440
10.0	2430.918	2422.541
12.5	2330.386	2324.801
15.0	2261.969	2259.176
17.5	2211.703	2207.514
20.0	2174.003	2169.814
22.5	2144.681	2137.700
25.0	2101.397	2095.812
27.5	2051.131	2052.527
30.0	1982.713	1977.128
32.5	1850.067	1841.689
35.0	1742.554	1743.950
37.5	1689.495	1704.854
40.0	1626.663	1639.229
42.5	1561.038	1566.623
45.0	1542.886	1516.357
47.5	1503.790	1489.828
50.0	1477.261	1494.016
52.5	1499.601	1521.942
55.0	1528.923	1551.264
57.5	1527.527	1548.471
60.0	1478.657	1496.809

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	1399.070	1422.806
65.0	1407.447	1461.902
67.5	1752.328	1830.519
68.0	1833.312	1911.503
70.0	2091.623	2168.418
72.5	2239.628	2298.272
75.0	1943.618	1945.014
77.5	1380.918	1329.256
80.0	913.165	855.918
82.5	550.133	520.811
85.0	192.686	153.590
87.5	29.322	8.378
90.0	0.000	0.000

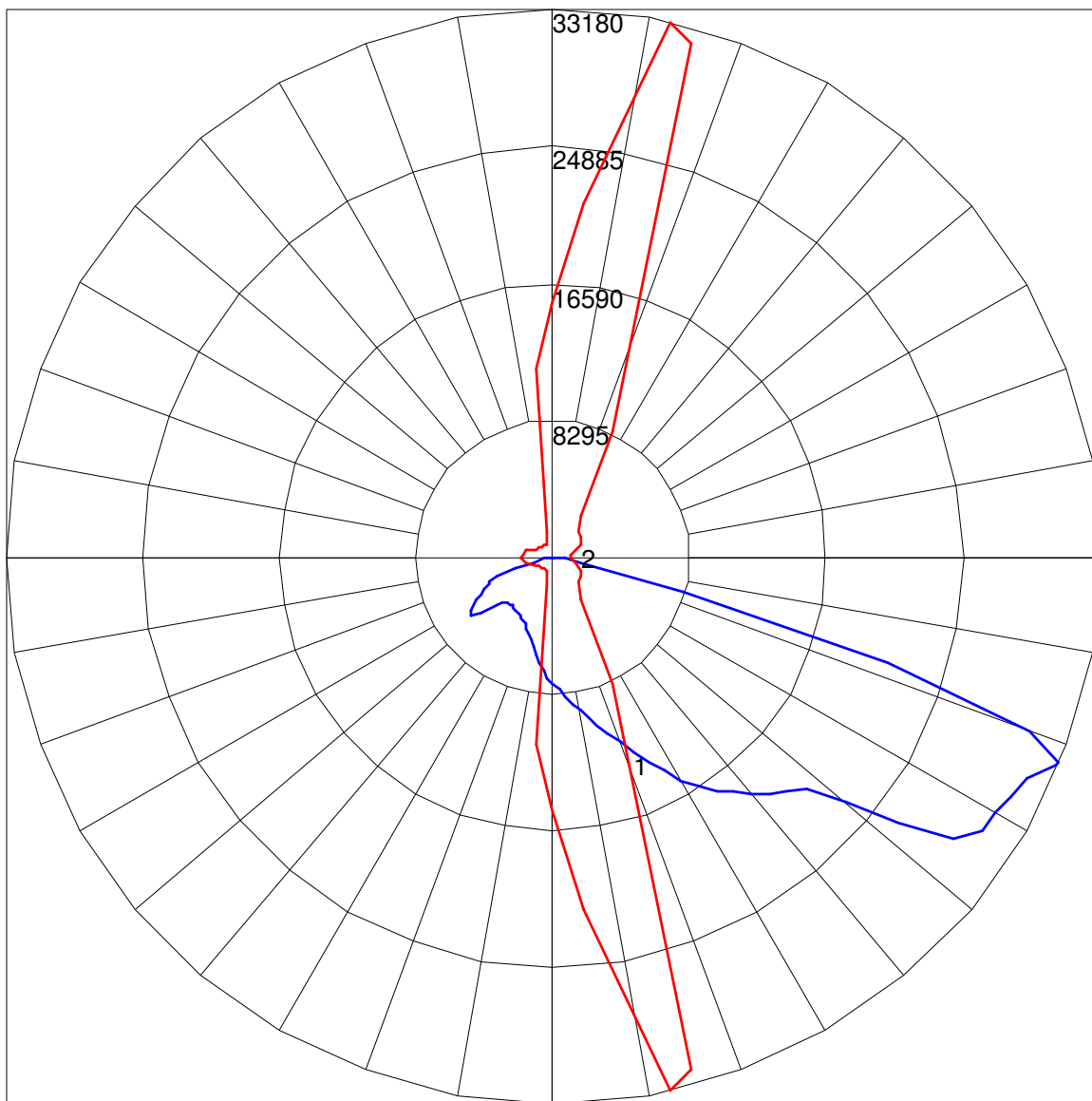
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

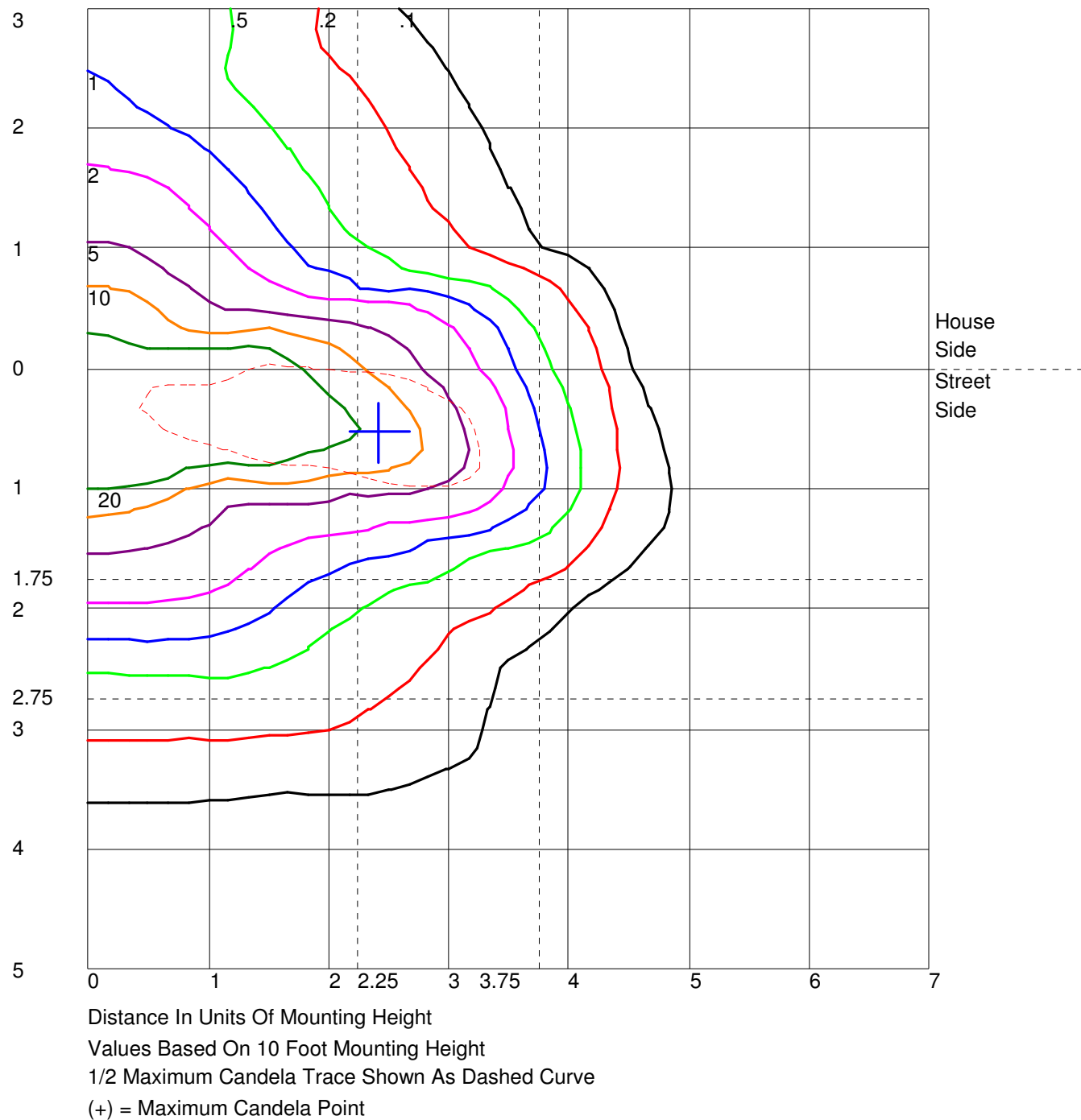
	Lumens	Percent Of Luminaire
Downward Street Side	26321.8	79.6
Downward House Side	6753.6	20.4
Downward Total	33075.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	33075.4	100.0

POLAR GRAPH

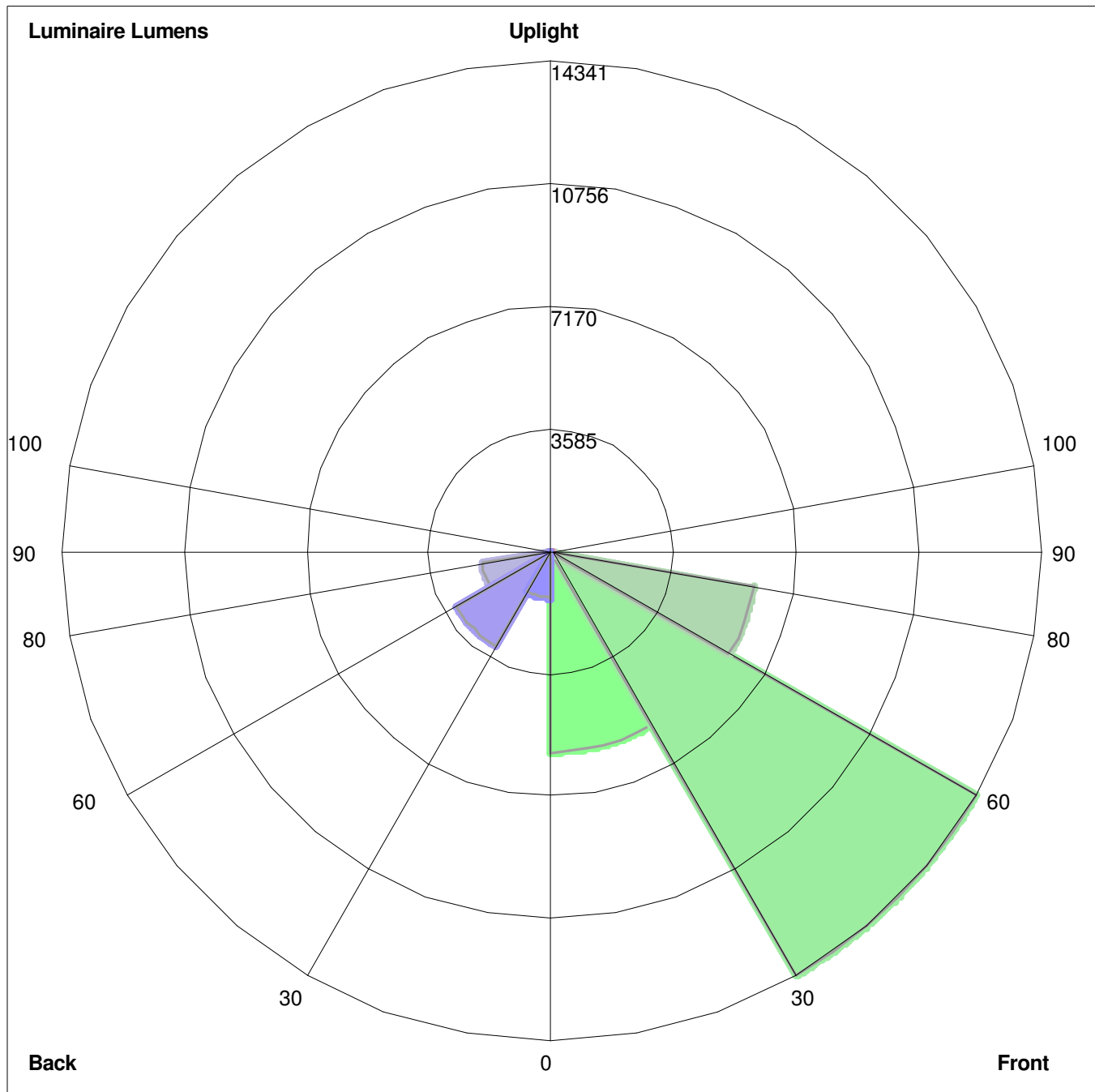


Maximum Candela = 33179.729 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=5882.3, Medium=14340.9, High=6013.1, Very High=85.5
Back: Low=1366.3, Medium= 3197.0, High=2055.2, Very High=135.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3