



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-730-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-730-T3-F-S-xxx-DIM-UNV
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE III
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS
[MORE] AND (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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28990
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21415.588
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	21415.588
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4971.932 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-730-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2881.5	N.A.	9.9
FM - Front-Medium (30-60)	10078.3	N.A.	34.8
FH - Front-High (60-80)	7141.5	N.A.	24.6
FVH - Front-Very High (80-90)	239.0	N.A.	0.8
BL - Back-Low (0-30)	1551.4	N.A.	5.4
BM - Back-Medium (30-60)	3572.3	N.A.	12.3
BH - Back-High (60-80)	3198.4	N.A.	11.0
BVH - Back-Very High (80-90)	327.6	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	28990.0	N.A.	100.0
BUG Rating	B4-U0-G4		

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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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983
2.5	6243.376	6232.736	6232.736	6243.376	6213.585	6188.049	6184.857	6164.642	6147.618	6112.507
5.0	6497.665	6502.984	6497.665	6489.153	6450.850	6409.355	6387.012	6321.046	6299.766	6211.457
7.5	6540.223	6550.863	6549.799	6557.247	6558.311	6552.991	6542.351	6466.809	6446.594	6315.726
10.0	6499.793	6501.920	6499.793	6514.688	6540.223	6580.654	6618.957	6584.910	6571.079	6430.634
12.5	6487.025	6487.025	6473.193	6484.897	6515.752	6568.951	6639.173	6658.324	6663.644	6548.735
15.0	6542.351	6531.712	6508.304	6496.601	6521.072	6576.398	6654.068	6713.651	6726.418	6674.284
17.5	6648.748	6650.876	6620.021	6583.846	6578.526	6620.021	6697.691	6781.745	6794.512	6805.152
20.0	6792.384	6798.768	6771.105	6729.610	6711.523	6715.778	6787.064	6881.758	6900.909	6955.172
22.5	6907.293	6927.508	6907.293	6896.653	6884.950	6882.822	6937.084	7016.882	7046.673	7109.447
25.0	7004.114	7006.242	6998.794	7024.330	7073.272	7087.104	7124.343	7174.350	7210.524	7258.403
27.5	7097.744	7080.720	7056.249	7103.064	7228.612	7321.177	7343.521	7358.416	7374.376	7402.039
30.0	7179.669	7166.902	7136.047	7139.238	7307.346	7562.699	7607.385	7580.786	7565.890	7554.187
32.5	7191.373	7181.797	7193.501	7226.484	7365.864	7789.324	7904.233	7809.540	7785.068	7685.055
35.0	7172.222	7170.094	7212.652	7317.985	7549.931	8001.054	8239.383	8106.387	8030.845	7812.731
37.5	7127.535	7122.215	7195.629	7444.598	7864.866	8278.750	8619.221	8427.706	8298.966	7898.913
40.0	7044.545	7063.697	7178.605	7671.223	8567.086	9161.845	9136.310	8773.496	8609.645	7992.542
42.5	7007.306	7029.650	7136.047	7625.473	8753.281	10069.412	10217.304	9481.036	9158.653	8141.498
45.0	7341.393	7346.713	7295.642	7615.897	8593.685	10031.109	11069.544	10657.787	10303.485	8607.517
47.5	8055.317	8044.677	8003.182	8073.404	8628.796	9755.541	11157.853	11410.014	11285.529	9752.349
50.0	8023.398	8001.054	8241.511	8705.402	9138.438	9687.447	10789.719	11379.159	11342.984	10285.398
52.5	7440.342	7454.174	7922.320	8726.682	9755.541	10197.088	10597.141	110985.490	11016.345	10060.900
55.0	5866.730	5942.272	6916.869	8533.039	10239.647	11549.394	11170.621	11117.422	11175.941	10274.758
57.5	4325.038	4411.219	5402.840	7596.746	10382.219	13371.975	12764.448	11926.039	11859.009	10762.056
60.0	3414.280	3470.670	4061.173	5516.684	9399.111	14897.708	15970.189	13431.557	13185.780	11638.767
62.5	2645.029	2628.006	2935.493	3603.666	7119.023	14343.379	19690.892	16059.563	15311.592	12980.434
65.0	1859.820	1876.843	2056.654	2368.397	4236.728	12803.815	20367.577	19519.593	18317.307	14695.553
67.5	1605.531	1615.106	1831.092	1917.274	2238.593	8800.096	18515.205	21415.588	20684.640	15922.311
70.0	1281.020	1251.229	1540.629	1673.625	1654.473	3934.561	15262.649	19902.622	20430.351	16412.801
72.5	910.758	878.839	989.492	1409.760	1272.508	2041.758	9783.204	15927.630	16988.409	15349.895
75.0	694.772	686.261	705.412	1077.802	1022.475	1239.525	4239.920	10670.555	11755.804	10959.955
77.5	464.955	460.699	478.786	710.732	856.496	827.769	1723.631	5007.043	6127.403	7140.302
80.0	291.528	283.016	309.615	442.612	738.395	531.985	836.280	1847.052	2906.766	4971.932
82.5	152.148	153.212	171.299	257.481	504.322	298.976	424.524	673.493	990.556	2526.929
85.0	59.582	59.582	69.158	111.717	180.875	119.165	161.723	214.922	279.824	579.864
87.5	7.448	8.512	10.640	17.024	23.407	17.024	26.599	26.599	35.111	38.303
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	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983	6003.983
2.5	6058.245	6052.925	6015.686	5960.360	5893.330	5819.916	5779.485	5733.734	5661.384	5643.297
5.0	6093.356	6046.541	5974.191	5842.259	5697.559	5533.708	5411.351	5292.187	5184.726	5117.696
7.5	6146.555	6061.437	5951.848	5735.862	5493.277	5211.325	4941.077	4664.444	4384.620	4179.274
10.0	6217.841	6086.972	5946.528	5637.977	5268.779	4794.249	4223.961	3683.464	3261.068	3059.978
12.5	6300.830	6127.403	5955.040	5540.092	5002.787	4196.298	3372.785	2955.709	2814.201	2774.834
15.0	6401.907	6190.177	5980.575	5446.462	4652.741	3514.293	2922.726	2795.049	2755.682	2737.595
17.5	6526.392	6275.295	6025.262	5346.449	4200.553	3051.466	2825.904	2767.386	2736.531	2723.763
20.0	6666.836	6387.012	6090.164	5241.116	3703.679	2874.847	2795.049	2752.490	2717.379	2691.844
22.5	6822.175	6512.560	6161.450	5115.568	3302.563	2831.224	2772.706	2722.699	2673.757	2628.006
25.0	6974.323	6633.853	6225.288	4951.716	3056.786	2808.881	2736.531	2663.117	2601.407	2550.336
27.5	7129.663	6762.593	6284.871	4747.434	2938.685	2782.281	2675.884	2595.023	2530.121	2469.474

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CANDELA TABULATION - (Cont.)

30.0	7282.874	6894.525	6351.901	4517.616	2885.487	2738.659	2605.662	2513.097	2449.259	2394.996
32.5	7417.999	7008.370	6411.483	4270.775	2843.992	2679.076	2531.185	2427.979	2371.589	2327.966
35.0	7514.820	7080.720	6448.722	4026.062	2790.793	2606.726	2454.579	2340.734	2293.919	2249.233
37.5	7542.483	7093.488	6448.722	3812.204	2729.083	2526.929	2377.973	2256.680	2211.994	2164.115
40.0	7572.274	7108.383	6440.210	3647.289	2670.565	2450.323	2306.687	2181.138	2133.260	2074.741
42.5	7610.577	7110.511	6432.762	3515.357	2626.942	2382.229	2234.337	2114.108	2039.630	1980.048
45.0	7834.011	7299.898	6576.398	3458.966	2582.255	2324.774	2181.138	2054.526	1940.681	1883.227
47.5	8600.069	7927.640	7161.582	3746.238	2656.733	2291.791	2147.091	2023.671	1876.843	1828.964
50.0	9023.529	8362.804	7557.379	4179.274	3066.361	2397.124	2147.091	2048.142	1916.210	1959.833
52.5	8796.904	8159.586	7353.096	3950.520	3220.637	2764.194	2210.930	2081.125	2093.893	2379.037
55.0	9034.169	8424.514	7692.503	4015.423	2842.928	2639.709	2450.323	2092.829	2299.239	2850.376
57.5	9478.908	8932.028	8346.844	4702.747	2783.345	2289.663	2233.273	2118.364	2399.252	3092.961
60.0	10130.058	9522.531	9205.468	5768.845	2838.672	2153.475	1946.001	1933.233	2356.693	2966.348
62.5	10925.908	10218.368	10018.34	16876.438	3005.715	2053.462	1789.597	1784.278	2236.465	2647.157
65.0	11724.949	10632.252	10339.660	7429.702	3356.825	1969.408	1653.409	1662.985	2091.765	2329.030
67.5	12023.925	10759.928	10488.616	7633.985	3767.518	1868.331	1514.029	1527.861	1901.314	1996.008
70.0	11918.592	10815.255	10714.178	7540.355	4153.739	1749.167	1349.114	1357.626	1669.369	1738.527
72.5	10789.719	10008.766	10008.766	7180.733	4416.539	1645.962	1166.111	1175.687	1434.232	1464.023
75.0	7327.561	6732.802	6823.239	5905.033	4392.068	1568.292	982.044	995.876	1198.030	1154.407
77.5	4525.064	4064.365	4115.436	4747.434	4134.587	1491.686	789.466	803.297	945.869	667.109
80.0	3471.734	3007.843	3114.240	3717.511	3708.999	1393.801	581.992	600.079	683.069	320.255
82.5	1625.746	1475.726	1648.089	2241.785	2930.173	1225.693	314.935	385.157	384.093	202.154
85.0	220.242	209.602	289.400	767.122	1680.009	793.722	138.316	154.276	122.357	95.757
87.5	25.535	22.343	25.535	53.198	435.164	274.504	29.791	31.919	24.471	19.151
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

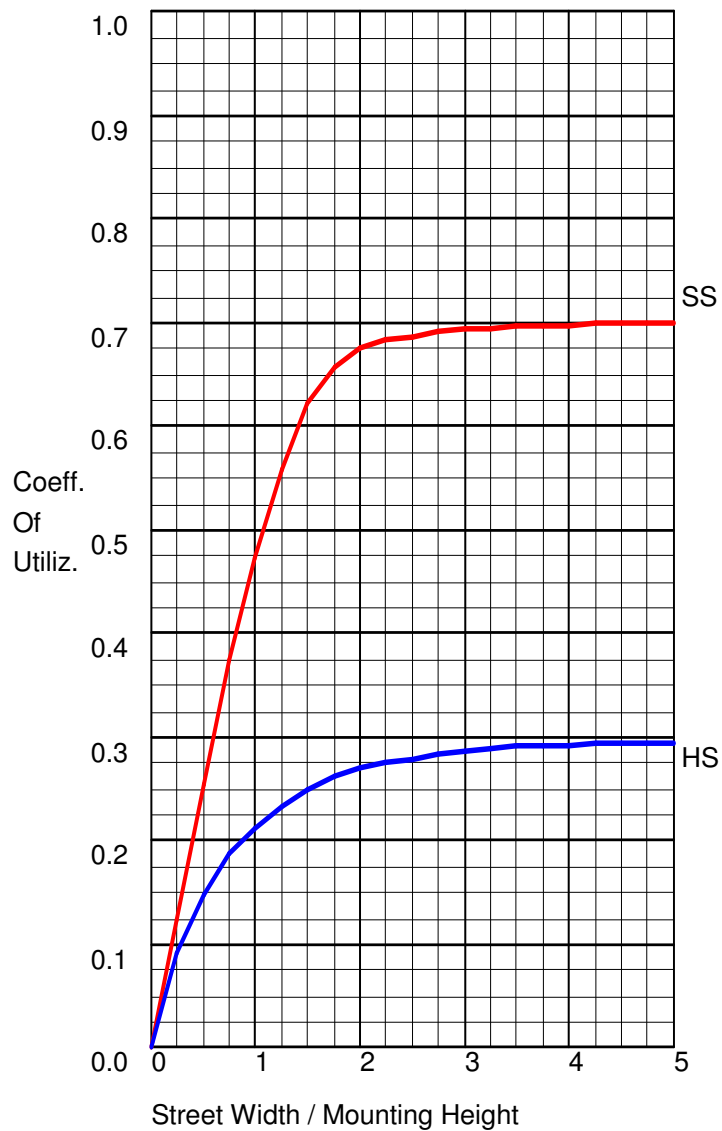
Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6003.983	6003.983
2.5	5668.832	5673.088
5.0	5091.096	5097.480
7.5	4088.837	4089.901
10.0	2992.948	2987.628
12.5	2763.130	2757.810
15.0	2732.275	2731.211
17.5	2718.443	2716.315
20.0	2683.332	2679.076
22.5	2613.110	2606.726
25.0	2524.801	2526.929
27.5	2432.235	2434.363
30.0	2352.438	2353.502
32.5	2276.896	2276.896
35.0	2202.418	2201.354
37.5	2127.940	2119.428
40.0	2037.502	2028.991
42.5	1935.361	1927.914
45.0	1847.052	1842.796
47.5	1799.173	1799.173
50.0	1974.728	2000.264
52.5	2502.457	2543.952
55.0	3100.408	3148.287
57.5	3487.694	3574.939
60.0	3263.196	3275.964
62.5	2755.682	2722.699
65.0	2285.407	2288.599

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-730-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	1842.796	1825.772
70.0	1536.373	1525.733
72.5	1266.124	1252.293
75.0	870.327	863.944
77.5	484.106	480.914
80.0	323.447	314.935
82.5	206.410	206.410
85.0	76.606	63.838
87.5	8.512	3.192
90.0	0.000	0.000

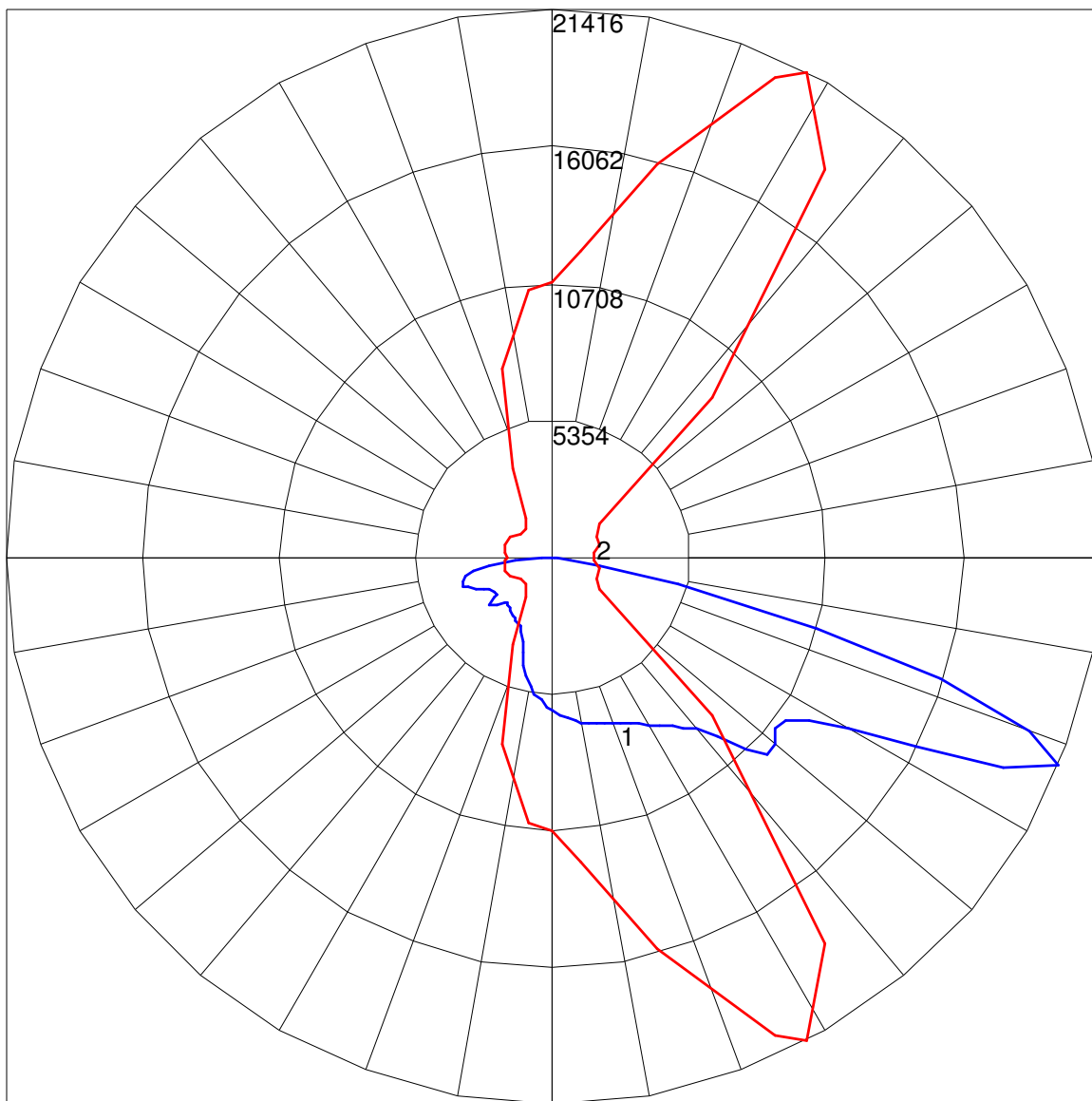
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

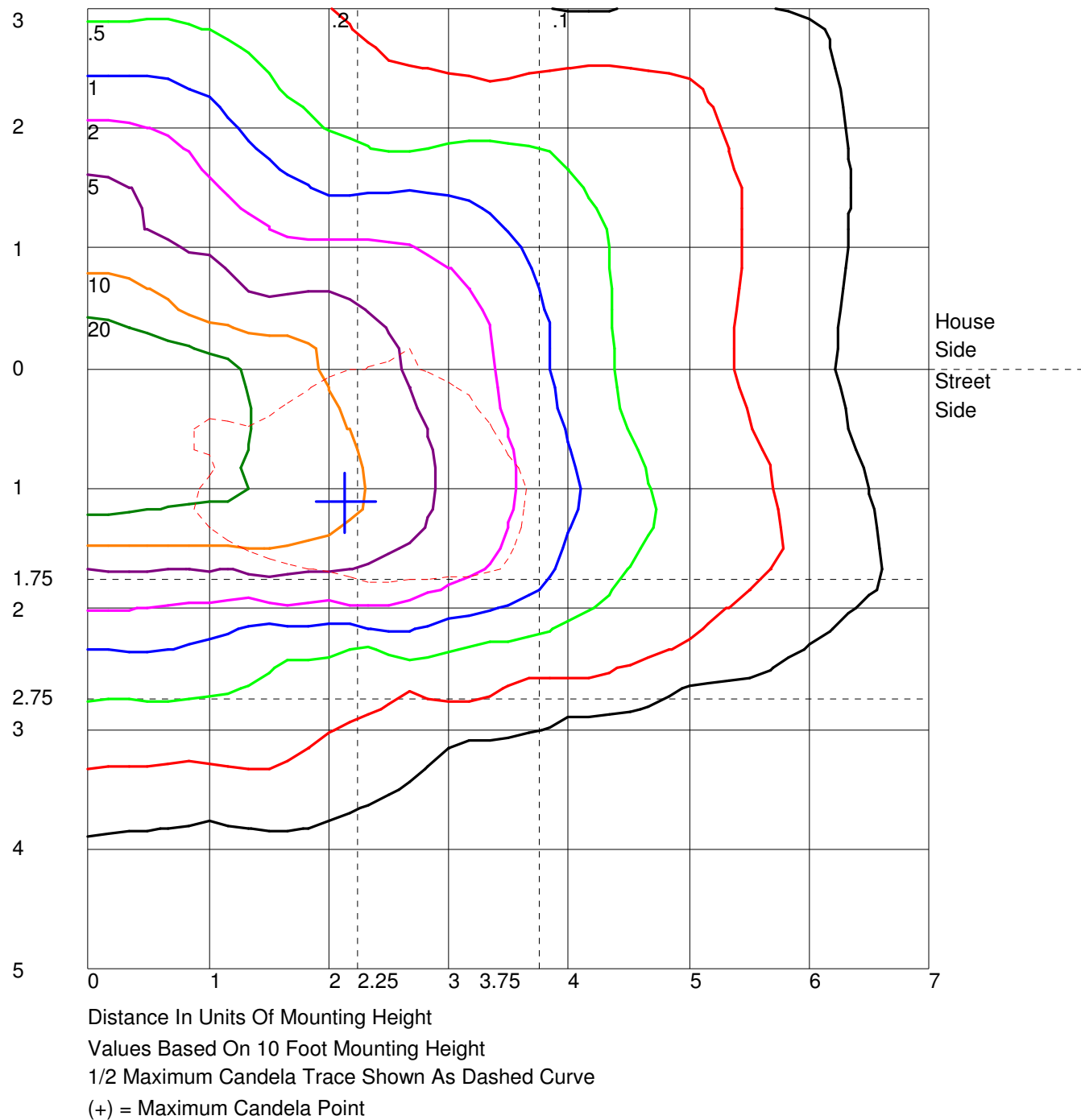
	Lumens	Percent Of Luminaire
Downward Street Side	20340.3	70.2
Downward House Side	8649.8	29.8
Downward Total	28990.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28990.1	100.0

POLAR GRAPH

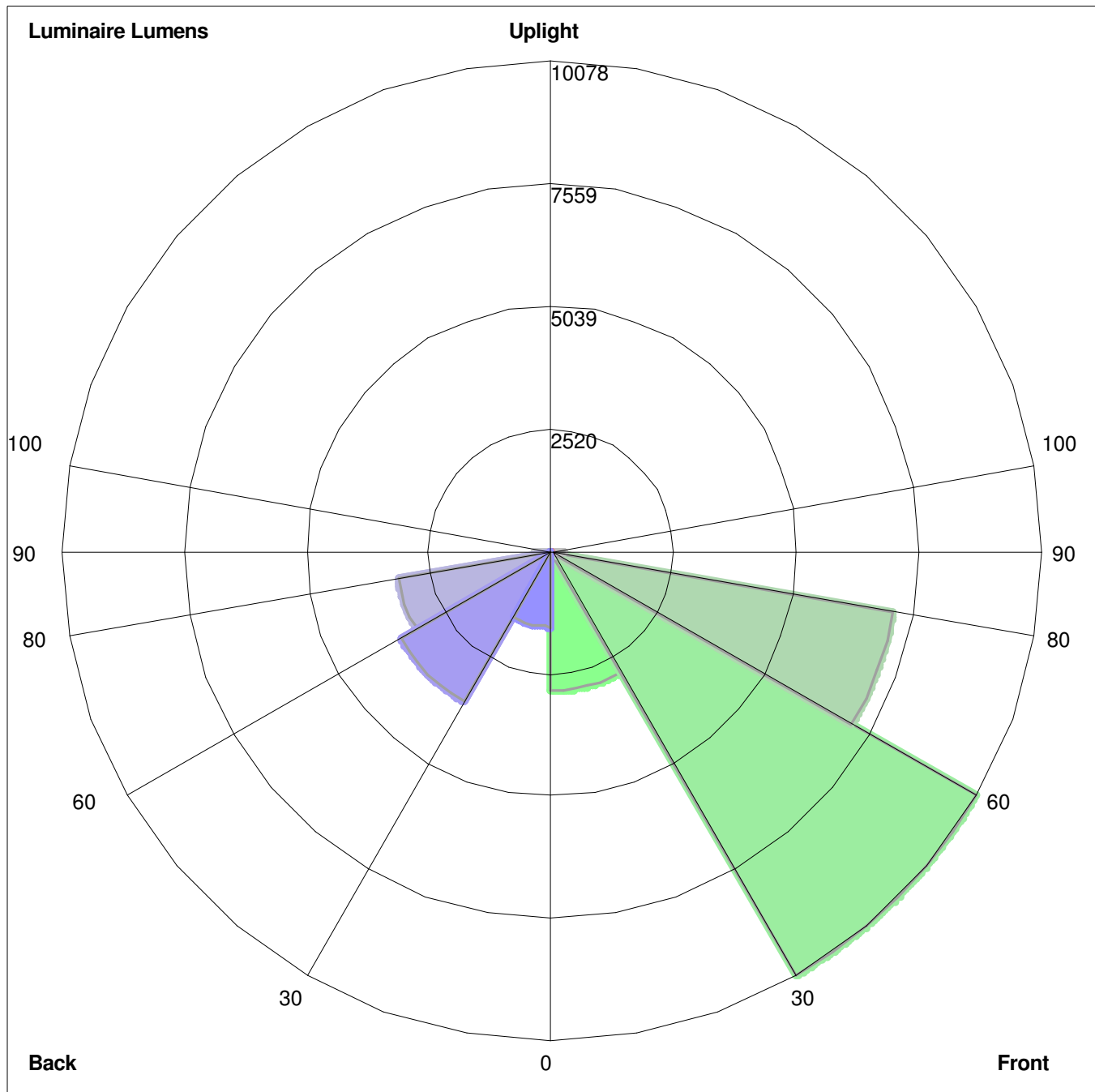


Maximum Candela = 21415.588 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2881.5, Medium=10078.3, High=7141.5, Very High=239.0
Back: Low=1551.4, Medium=3572.3, High=3198.4, Very High=327.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4