



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-730-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011760
[TESTLAB] ATA-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L160-730-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] III OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15186
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	131
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10885.154
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	10885.154
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	2220.009 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L160-730-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1532.3	N.A.	10.1
FM - Front-Medium (30-60)	5307.8	N.A.	35.0
FH - Front-High (60-80)	3546.8	N.A.	23.4
FVH - Front-Very High (80-90)	108.3	N.A.	0.7
BL - Back-Low (0-30)	831.9	N.A.	5.5
BM - Back-Medium (30-60)	1972.6	N.A.	13.0
BH - Back-High (60-80)	1728.2	N.A.	11.4
BVH - Back-Very High (80-90)	157.8	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	15185.7	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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869
2.5	3330.404	3306.961	3301.491	3300.710	3284.300	3276.486	3252.262	3240.541	3230.382	3210.065
5.0	3499.972	3478.873	3467.933	3456.994	3428.863	3403.076	3360.098	3323.371	3306.961	3253.825
7.5	3561.704	3543.731	3535.135	3535.135	3526.540	3507.004	3456.212	3406.983	3388.229	3306.180
10.0	3524.977	3514.819	3506.223	3517.163	3531.228	3549.201	3533.573	3486.687	3470.278	3368.693
12.5	3496.065	3489.813	3479.655	3491.376	3506.223	3539.043	3560.922	3546.075	3539.043	3435.895
15.0	3507.004	3502.316	3486.687	3487.469	3495.283	3528.103	3568.736	3583.583	3589.053	3516.381
17.5	3563.266	3558.578	3536.698	3524.196	3514.819	3539.824	3585.146	3617.184	3630.468	3596.867
20.0	3633.594	3635.938	3608.589	3595.305	3573.425	3584.365	3621.873	3663.288	3676.572	3676.572
22.5	3707.829	3707.829	3686.731	3677.354	3664.851	3663.288	3684.386	3728.146	3738.304	3757.058
25.0	3765.654	3766.435	3754.714	3753.932	3766.435	3769.561	3771.905	3800.818	3812.539	3835.200
27.5	3814.102	3817.227	3799.255	3814.102	3859.424	3889.899	3885.211	3883.648	3896.151	3911.779
30.0	3868.020	3864.894	3845.358	3849.265	3928.970	4023.522	4020.396	3984.451	3986.795	3989.139
32.5	3872.708	3873.489	3870.364	3883.648	3971.948	4158.707	4169.647	4111.041	4095.412	4065.718
35.0	3842.233	3846.921	3866.457	3925.063	4037.587	4282.171	4355.624	4264.980	4229.816	4136.046
37.5	3800.036	3807.069	3837.544	3977.418	4206.374	4411.887	4561.919	4437.673	4369.690	4184.494
40.0	3752.370	3764.091	3816.446	4108.696	4649.438	4924.497	4842.448	4634.591	4536.132	4234.505
42.5	3684.386	3706.266	3771.124	4037.587	4658.033	5437.107	5534.784	5040.928	4848.699	4316.554
45.0	3817.227	3828.167	3797.692	3978.199	4537.695	5367.561	5991.132	5802.029	5580.888	4609.585
47.5	4206.374	4195.434	4144.642	4177.461	4496.280	5170.643	5979.411	6153.667	6099.750	5358.965
50.0	4192.308	4176.680	4274.357	4496.280	4688.509	5096.409	5687.942	5997.384	5980.974	5456.642
52.5	3819.572	3806.287	4048.527	4520.504	5019.048	5321.457	5568.385	5760.614	5766.865	5287.856
55.0	2948.290	2970.952	3424.955	4339.215	5296.452	5977.848	5899.707	5868.450	5869.231	5412.883
57.5	2207.506	2266.894	2673.231	3721.894	5305.829	6984.315	6806.152	6311.514	6242.749	5637.931
60.0	1780.852	1816.016	2042.627	2611.499	4597.864	7602.417	8508.080	7185.139	6968.686	6097.405
62.5	1286.996	1320.597	1443.279	1712.868	3198.344	7171.074	10161.5618711.249	8227.551	6874.916	
65.0	1030.690	1051.007	1128.368	1190.881	1788.666	5920.805	10250.64210317.0639764.600	7828.246		
67.5	902.538	908.008	1011.155	1026.783	1098.674	3337.437	9125.400	10885.15410754.6578405.714		
70.0	715.779	702.495	851.746	897.068	849.401	1630.820	6917.113	9762.256	10073.2618519.020	
72.5	504.015	490.731	549.337	762.664	669.675	926.762	3828.949	7431.286	8002.503	7686.810
75.0	389.146	385.239	390.709	587.626	555.588	600.911	1675.360	4511.127	5097.972	5132.354
77.5	268.808	265.682	271.933	391.490	473.539	414.152	719.686	1798.043	2391.139	3342.907
80.0	173.475	170.349	178.945	246.928	414.152	272.715	376.644	689.211	1015.062	2220.009
82.5	94.552	91.426	102.366	146.125	275.059	151.595	197.699	293.813	367.266	1016.625
85.0	39.852	37.508	44.541	66.421	97.677	63.295	80.486	104.710	118.776	223.486
87.5	7.814	7.814	8.596	14.847	17.973	13.284	15.628	20.317	21.880	26.568
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	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869	3167.869
2.5	3181.934	3170.995	3160.836	3128.798	3105.355	3070.192	3037.372	3029.558	2997.520	2985.017
5.0	3192.093	3159.273	3132.705	3062.377	2992.050	2910.782	2831.078	2778.723	2706.051	2666.199
7.5	3211.628	3159.273	3114.732	2999.083	2873.274	2722.461	2561.488	2416.926	2241.107	2162.965
10.0	3240.541	3170.995	3104.574	2940.476	2742.777	2475.532	2162.184	1901.972	1720.683	1642.541
12.5	3278.049	3192.093	3101.448	2880.307	2584.931	2144.211	1756.628	1612.066	1580.809	1569.869
15.0	3327.278	3224.131	3110.825	2822.482	2384.107	1817.578	1606.596	1575.339	1565.180	1564.399
17.5	3386.666	3266.328	3130.361	2760.750	2137.178	1637.852	1583.934	1569.869	1563.618	1560.492
20.0	3452.305	3317.901	3159.273	2689.641	1894.939	1592.530	1572.995	1562.836	1545.645	1529.235
22.5	3528.884	3381.196	3193.656	2604.466	1721.464	1578.465	1557.366	1533.924	1510.481	1487.820
25.0	3611.714	3443.710	3227.257	2504.445	1642.541	1566.743	1529.235	1492.509	1465.159	1439.372
27.5	3702.359	3508.567	3252.262	2388.014	1614.410	1550.333	1491.727	1447.968	1419.837	1391.706

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CANDELA TABULATION - (Cont.)

30.0	3796.129	3578.113	3285.082	2267.675	1594.874	1523.765	1451.875	1400.301	1370.607	1347.946
32.5	3886.774	3653.911	3322.590	2156.714	1574.557	1489.383	1408.897	1351.072	1326.848	1309.657
35.0	3954.757	3703.140	3349.158	2050.441	1546.426	1448.749	1370.607	1302.624	1279.963	1271.367
37.5	3979.762	3707.829	3343.688	1962.141	1512.044	1405.771	1330.755	1262.772	1237.766	1222.138
40.0	4004.768	3720.332	3342.125	1901.190	1482.350	1365.137	1296.373	1224.482	1192.444	1172.127
42.5	4038.369	3746.900	3358.535	1855.868	1455.782	1329.974	1265.897	1191.663	1140.870	1117.428
45.0	4218.876	3937.566	3509.349	1874.622	1441.716	1301.061	1242.455	1161.969	1091.641	1067.417
47.5	4714.295	4363.439	3915.686	2144.211	1552.678	1294.028	1228.389	1153.373	1065.854	1045.537
50.0	4812.754	4454.865	3994.609	2316.123	1848.054	1441.716	1233.078	1165.094	1098.674	1144.777
52.5	4691.634	4337.652	3884.429	2115.299	1749.595	1637.852	1335.444	1176.816	1194.788	1380.766
55.0	4830.727	4500.968	4101.664	2210.632	1580.027	1441.716	1422.962	1199.477	1284.651	1608.940
57.5	5032.332	4740.864	4458.772	2644.319	1558.929	1294.028	1238.548	1194.007	1326.848	1716.776
60.0	5337.086	5024.518	4899.491	3266.328	1596.437	1220.575	1094.767	1069.761	1310.438	1635.508
62.5	5801.248	5419.916	5349.588	3875.052	1691.770	1160.406	1001.778	991.620	1247.925	1455.782
65.0	6241.186	5666.063	5514.467	4124.325	1887.906	1109.614	919.729	923.636	1161.187	1254.957
67.5	6402.158	5768.428	5617.615	4195.434	2115.299	1043.193	837.680	843.150	1031.472	1093.204
70.0	6268.536	5744.986	5697.319	4121.980	2315.342	981.461	739.222	746.254	909.571	958.800
72.5	5482.429	5087.032	5152.671	3833.637	2441.150	917.385	637.637	638.419	782.981	811.112
75.0	3405.420	3195.219	3322.590	3132.705	2425.522	870.500	525.113	527.457	651.703	613.413
77.5	2278.615	2034.031	2109.829	2471.625	2264.550	822.052	417.277	413.370	504.015	329.758
80.0	1683.956	1472.973	1579.246	1896.502	1994.960	772.041	285.218	296.939	338.354	165.661
82.5	673.582	622.009	718.123	1068.980	1505.011	634.511	143.000	179.726	171.131	93.770
85.0	92.207	75.798	102.366	296.939	762.664	378.988	57.044	62.513	51.574	39.852
87.5	16.410	12.503	14.066	24.224	171.131	107.836	11.721	11.721	7.033	3.907
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

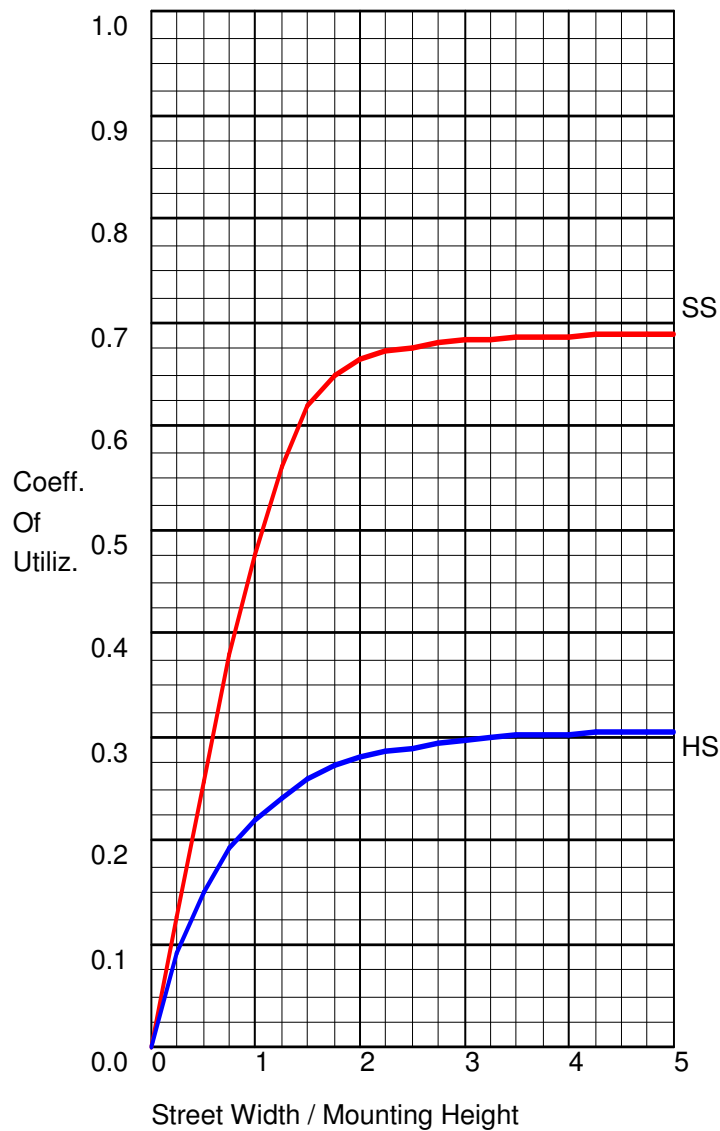
Vert. Horizontal Angles

	175.0	180.0
0.0	3167.869	3167.869
2.5	2983.454	2976.421
5.0	2657.603	2648.226
7.5	2102.796	2094.982
10.0	1617.535	1614.410
12.5	1567.525	1565.962
15.0	1566.743	1567.525
17.5	1558.929	1557.366
20.0	1522.202	1519.858
22.5	1477.662	1473.755
25.0	1427.651	1422.962
27.5	1378.422	1377.640
30.0	1336.225	1333.881
32.5	1295.591	1293.247
35.0	1256.520	1253.395
37.5	1207.291	1204.947
40.0	1154.155	1154.155
42.5	1093.985	1093.204
45.0	1047.882	1044.756
47.5	1026.002	1027.565
50.0	1164.313	1179.160
52.5	1469.847	1490.164
55.0	1791.010	1823.830
57.5	1968.392	2012.152
60.0	1789.447	1795.699
62.5	1494.853	1476.099
65.0	1211.198	1183.067

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L160-730-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	1003.341	997.871
70.0	850.964	845.494
72.5	704.839	697.806
75.0	454.785	450.878
77.5	265.682	258.649
80.0	173.475	170.349
82.5	107.836	106.273
85.0	22.661	21.098
87.5	0.781	0.000
90.0	0.000	0.000

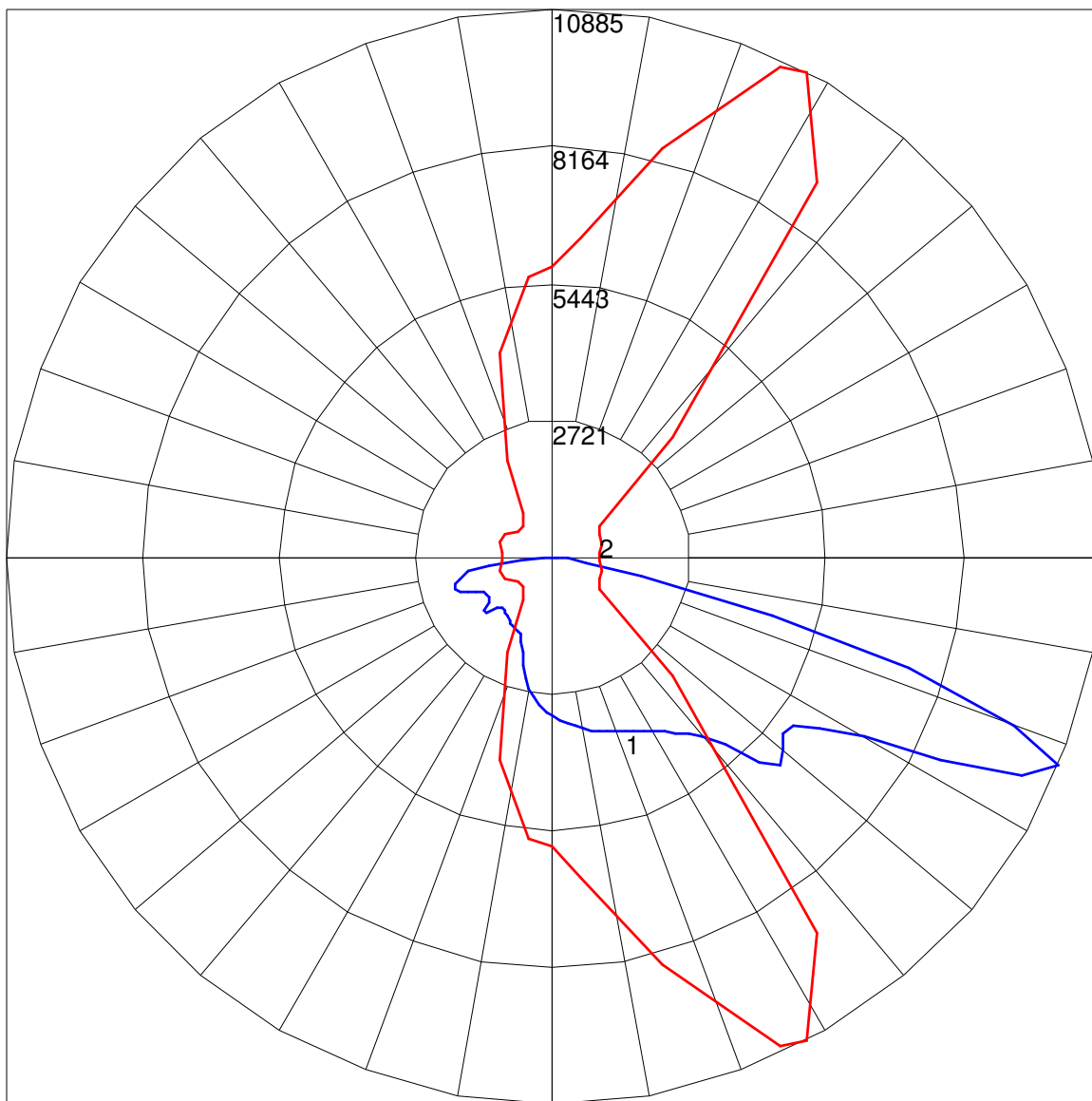
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

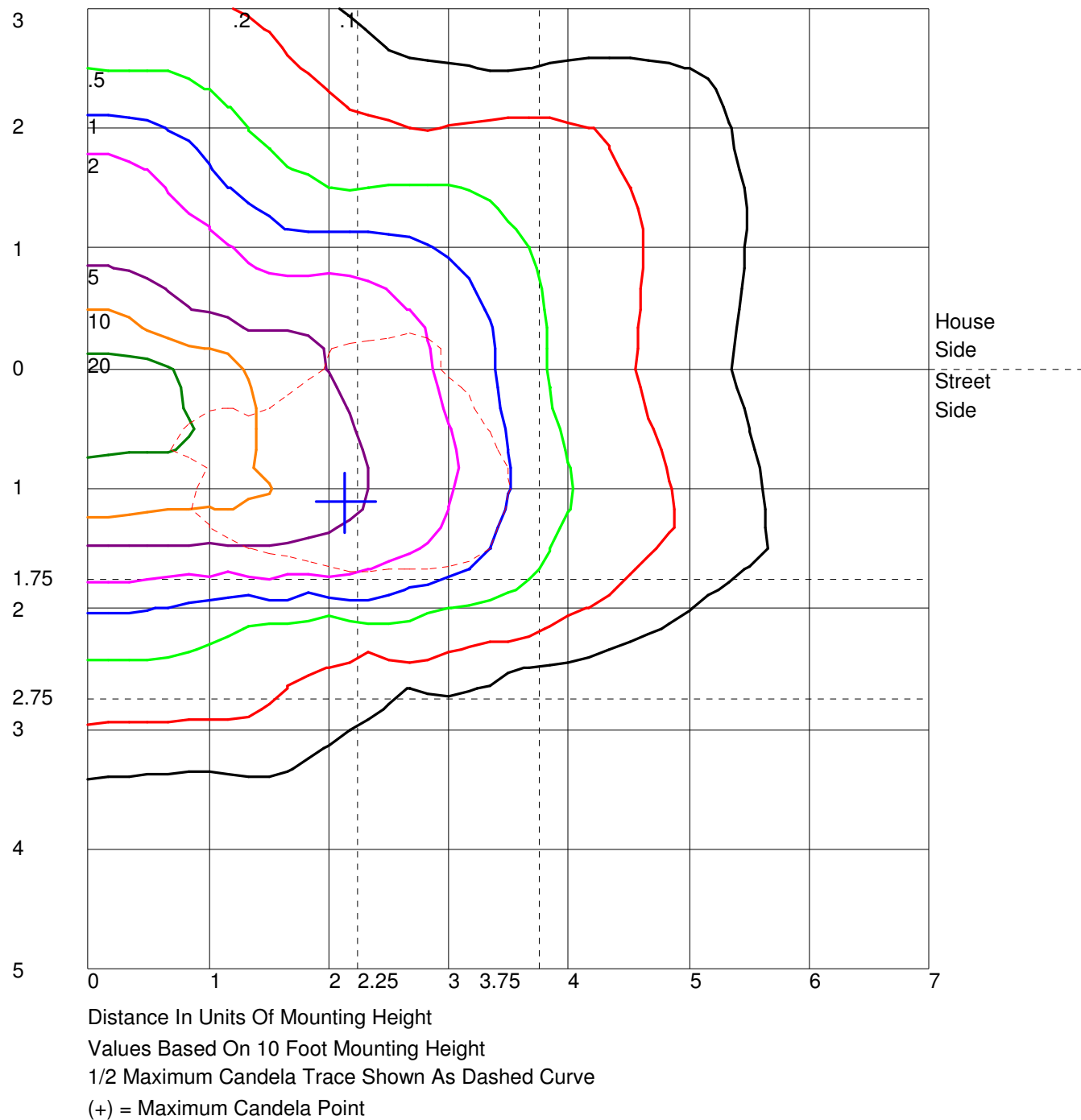
	Lumens	Percent Of Luminaire
Downward Street Side	10495.2	69.1
Downward House Side	4690.5	30.9
Downward Total	15185.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15185.7	100.0

POLAR GRAPH

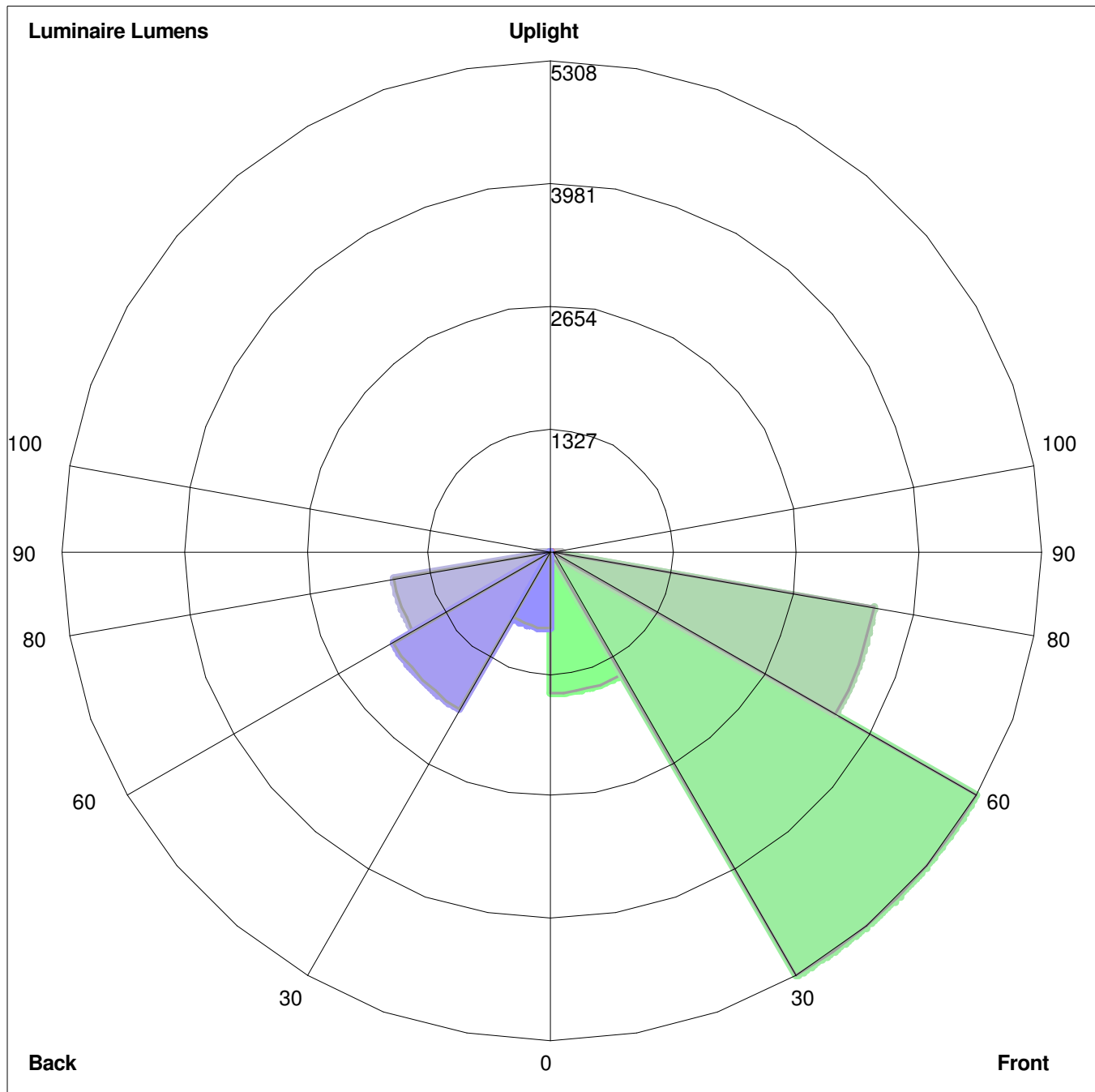


Maximum Candela = 10885.154 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1532.3, Medium=5307.8, High=3546.8, Very High=108.3
Back: Low=831.9, Medium=1972.6, High=1728.2, Very High=157.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3