



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-750-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-L160-750-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	17188
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	131
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12320.56
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	12320.56
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	2512.757 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L160-750-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1734.4	N.A.	10.1
FM - Front-Medium (30-60)	6007.7	N.A.	35.0
FH - Front-High (60-80)	4014.5	N.A.	23.4
FVH - Front-Very High (80-90)	122.5	N.A.	0.7
BL - Back-Low (0-30)	941.6	N.A.	5.5
BM - Back-Medium (30-60)	2232.7	N.A.	13.0
BH - Back-High (60-80)	1956.1	N.A.	11.4
BVH - Back-Very High (80-90)	178.6	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	17188.1	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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610
2.5	3769.578	3743.044	3736.853	3735.969	3717.395	3708.550	3681.132	3667.865	3656.367	3633.371
5.0	3961.507	3937.626	3925.244	3912.861	3881.021	3851.833	3803.188	3761.618	3743.044	3682.901
7.5	4031.379	4011.037	4001.307	4001.307	3991.578	3969.467	3911.977	3856.256	3835.029	3742.160
10.0	3989.809	3978.311	3968.582	3980.965	3996.885	4017.228	3999.539	3946.471	3927.897	3812.917
12.5	3957.084	3950.009	3938.511	3951.778	3968.582	4005.730	4030.495	4013.690	4005.730	3888.981
15.0	3969.467	3964.160	3946.471	3947.355	3956.200	3993.347	4039.339	4056.144	4062.335	3980.080
17.5	4033.148	4027.841	4003.076	3988.925	3978.311	4006.614	4057.913	4094.176	4109.212	4071.180
20.0	4112.750	4115.403	4084.447	4069.411	4044.646	4057.029	4099.483	4146.359	4161.395	4161.395
22.5	4196.774	4196.774	4172.893	4162.280	4148.128	4146.359	4170.240	4219.770	4231.268	4252.495
25.0	4262.224	4263.108	4249.841	4248.957	4263.108	4266.646	4269.300	4302.025	4315.292	4340.941
27.5	4317.060	4320.598	4300.256	4317.060	4368.359	4402.853	4397.547	4395.778	4409.929	4427.618
30.0	4378.088	4374.551	4352.439	4356.861	4447.076	4554.096	4550.559	4509.873	4512.527	4515.180
32.5	4383.395	4384.280	4380.742	4395.778	4495.722	4707.108	4719.491	4653.156	4635.467	4601.857
35.0	4348.901	4354.208	4376.319	4442.654	4570.017	4846.853	4929.993	4827.395	4787.594	4681.459
37.5	4301.140	4309.100	4343.594	4501.913	4761.061	4993.674	5163.491	5022.861	4945.913	4736.296
40.0	4247.188	4260.455	4319.714	4650.503	5262.551	5573.881	5481.013	5245.746	5134.304	4792.901
42.5	4170.240	4195.005	4268.415	4570.017	5272.280	6154.089	6264.646	5705.666	5488.089	4885.770
45.0	4320.598	4332.981	4298.487	4502.798	5136.073	6075.372	6781.172	6567.133	6316.830	5217.443
47.5	4761.061	4748.678	4691.188	4728.335	5089.196	5852.487	6767.905	6965.141	6904.113	6065.642
50.0	4745.140	4727.451	4838.009	5089.196	5306.774	5768.463	6438.001	6788.248	6769.674	6176.200
52.5	4323.252	4308.216	4582.399	5116.614	5680.901	6023.188	6302.678	6520.256	6527.332	5985.156
55.0	3337.076	3362.726	3876.598	4911.419	5994.885	6766.137	6677.690	6642.312	6643.196	6126.670
57.5	2498.606	2565.825	3025.746	4212.694	6005.499	7905.324	7703.667	7143.802	7065.969	6381.395
60.0	2015.690	2055.490	2311.984	2955.873	5204.176	8604.934	9630.025	8132.631	7887.635	6901.459
62.5	1456.709	1494.741	1633.602	1938.741	3620.104	8116.710	11501.548	9859.986	9312.504	7781.499
65.0	1166.606	1189.602	1277.164	1347.921	2024.534	6701.571	11602.376	11677.556	11052.241	8860.543
67.5	1021.554	1027.745	1144.494	1162.183	1243.554	3777.538	10328.751	112320.560	12172.855	9514.161
70.0	810.167	795.132	964.064	1015.363	961.411	1845.873	7829.260	11049.587	11401.603	9642.408
72.5	570.478	555.442	621.777	863.235	757.984	1048.972	4333.865	8411.236	9057.778	8700.456
75.0	440.462	436.040	442.231	665.116	628.853	680.152	1896.287	5106.001	5770.232	5809.148
77.5	304.255	300.717	307.793	443.116	535.984	468.765	814.590	2035.148	2706.455	3783.730
80.0	196.351	192.813	202.542	279.490	468.765	308.677	426.311	780.096	1148.917	2512.757
82.5	107.020	103.482	115.865	165.394	311.331	171.586	223.769	332.558	415.697	1150.685
85.0	45.108	42.454	50.414	75.179	110.558	71.641	91.100	118.518	134.438	252.956
87.5	8.845	8.845	9.729	16.805	20.343	15.036	17.689	22.996	24.765	30.072
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	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610	3585.610
2.5	3601.530	3589.148	3577.650	3541.387	3514.853	3475.052	3437.905	3429.060	3392.797	3378.646
5.0	3613.028	3575.881	3545.809	3466.208	3386.606	3294.622	3204.407	3145.148	3062.893	3017.785
7.5	3635.140	3575.881	3525.467	3394.566	3252.168	3081.467	2899.267	2735.642	2536.638	2448.192
10.0	3667.865	3589.148	3513.969	3328.232	3104.463	2801.977	2447.307	2152.781	1947.586	1859.140
12.5	3710.319	3613.028	3510.431	3260.128	2925.801	2426.965	1988.271	1824.646	1789.267	1776.885
15.0	3766.040	3649.291	3521.044	3194.678	2698.494	2057.259	1818.454	1783.076	1771.578	1770.694
17.5	3833.260	3697.052	3543.156	3124.805	2419.004	1853.833	1792.805	1776.885	1769.809	1766.271
20.0	3907.554	3755.427	3575.881	3044.319	2144.821	1802.534	1780.423	1768.925	1749.466	1730.893
22.5	3994.232	3827.068	3614.797	2947.913	1948.470	1786.614	1762.733	1736.199	1709.666	1684.016
25.0	4087.985	3897.825	3652.829	2834.702	1859.140	1773.347	1730.893	1689.323	1658.367	1629.180
27.5	4190.582	3971.236	3681.132	2702.917	1827.299	1754.773	1688.439	1638.909	1607.068	1575.227

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CANDELA TABULATION - (Cont.)

30.0	4296.718	4049.953	3718.279	2566.710	1805.188	1724.701	1643.331	1584.956	1551.347	1525.697
32.5	4399.315	4135.746	3760.734	2441.116	1782.192	1685.785	1594.686	1529.235	1501.817	1482.359
35.0	4476.264	4191.467	3790.805	2320.829	1750.351	1639.793	1551.347	1474.399	1448.749	1439.020
37.5	4504.566	4196.774	3784.614	2220.885	1711.435	1591.148	1506.239	1429.291	1400.988	1383.299
40.0	4532.869	4210.925	3782.845	2151.897	1677.825	1545.156	1467.323	1385.952	1349.689	1326.693
42.5	4570.901	4240.997	3801.419	2100.598	1647.753	1505.355	1432.829	1348.805	1291.315	1264.781
45.0	4775.212	4456.806	3972.120	2121.825	1631.833	1472.630	1406.295	1315.195	1235.594	1208.175
47.5	5335.961	4938.837	4432.041	2426.965	1757.427	1464.670	1390.375	1305.466	1206.407	1183.411
50.0	5447.403	5042.320	4521.371	2621.546	2091.753	1631.833	1395.682	1318.733	1243.554	1295.737
52.5	5310.312	4909.650	4396.662	2394.239	1980.311	1853.833	1511.546	1332.000	1352.343	1562.845
55.0	5467.746	5094.503	4642.543	2502.144	1788.383	1631.833	1610.606	1357.650	1454.056	1821.108
57.5	5695.937	5366.033	5046.742	2993.020	1764.502	1464.670	1401.873	1351.458	1501.817	1943.164
60.0	6040.877	5687.093	5545.579	3697.052	1806.956	1381.530	1239.132	1210.829	1483.243	1851.180
62.5	6566.248	6134.630	6055.029	4386.049	1914.861	1313.427	1133.881	1122.383	1412.486	1647.753
65.0	7064.200	6413.236	6241.650	4668.192	2136.861	1255.936	1041.012	1045.434	1314.311	1420.446
67.5	7246.400	6529.101	6358.399	4748.678	2394.239	1180.757	948.144	954.335	1167.490	1237.363
70.0	7095.157	6502.567	6448.615	4665.539	2620.662	1110.885	836.701	844.661	1029.514	1085.235
72.5	6205.387	5757.850	5832.144	4339.172	2763.060	1038.359	721.721	722.606	886.231	918.072
75.0	3854.487	3616.566	3760.734	3545.809	2745.371	985.291	594.359	597.012	737.642	694.303
77.5	2579.092	2302.255	2388.048	2797.554	2563.172	930.454	472.303	467.881	570.478	373.243
80.0	1906.016	1667.211	1787.498	2146.590	2258.032	873.849	322.829	336.096	382.972	187.506
82.5	762.406	704.032	812.821	1209.944	1703.474	718.183	161.857	203.426	193.697	106.135
85.0	104.367	85.793	115.865	336.096	863.235	428.964	64.566	70.757	58.375	45.108
87.5	18.574	14.151	15.920	27.418	193.697	122.056	13.267	13.267	7.960	4.422
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

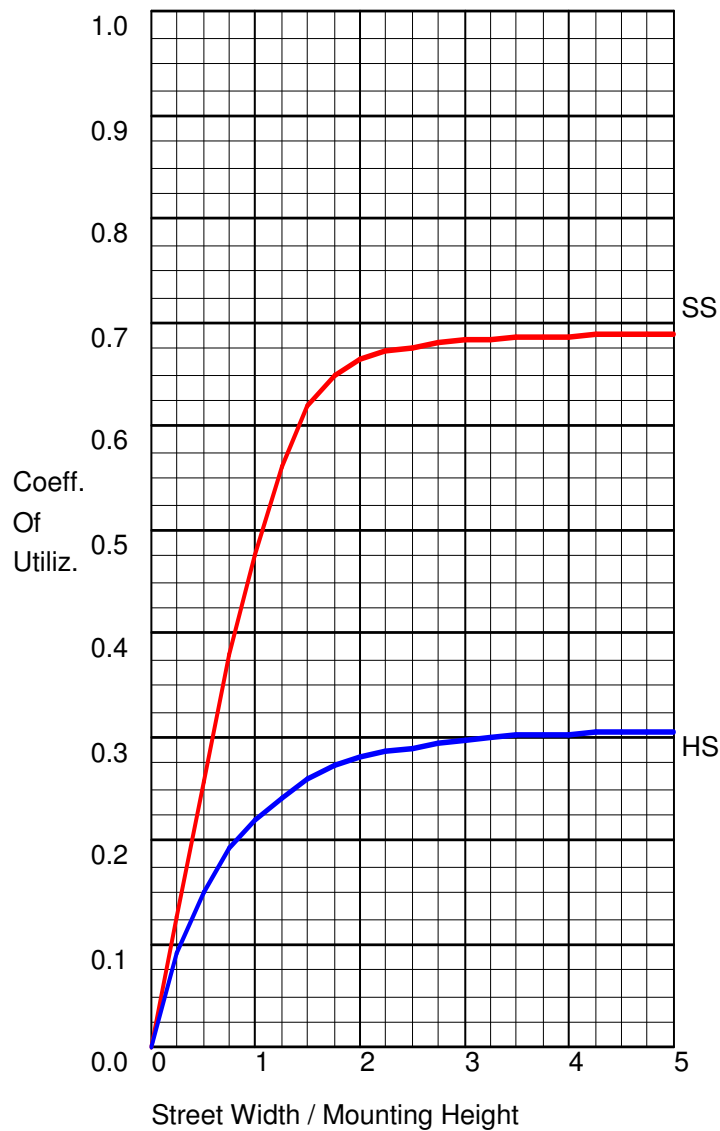
Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	3585.610	3585.610
2.5	3376.877	3368.917
5.0	3008.056	2997.443
7.5	2380.088	2371.243
10.0	1830.837	1827.299
12.5	1774.231	1772.462
15.0	1773.347	1774.231
17.5	1764.502	1762.733
20.0	1722.933	1720.279
22.5	1672.518	1668.096
25.0	1615.913	1610.606
27.5	1560.191	1559.307
30.0	1512.431	1509.777
32.5	1466.438	1463.785
35.0	1422.215	1418.678
37.5	1366.494	1363.841
40.0	1306.351	1306.351
42.5	1238.247	1237.363
45.0	1186.064	1182.526
47.5	1161.299	1163.068
50.0	1317.849	1334.654
52.5	1663.674	1686.670
55.0	2027.188	2064.335
57.5	2227.961	2277.490
60.0	2025.419	2032.494
62.5	1691.976	1670.749
65.0	1370.917	1339.076

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L160-750-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	1135.650	1129.458
70.0	963.179	956.988
72.5	797.785	789.825
75.0	514.757	510.335
77.5	300.717	292.757
80.0	196.351	192.813
82.5	122.056	120.287
85.0	25.649	23.880
87.5	0.884	0.000
90.0	0.000	0.000

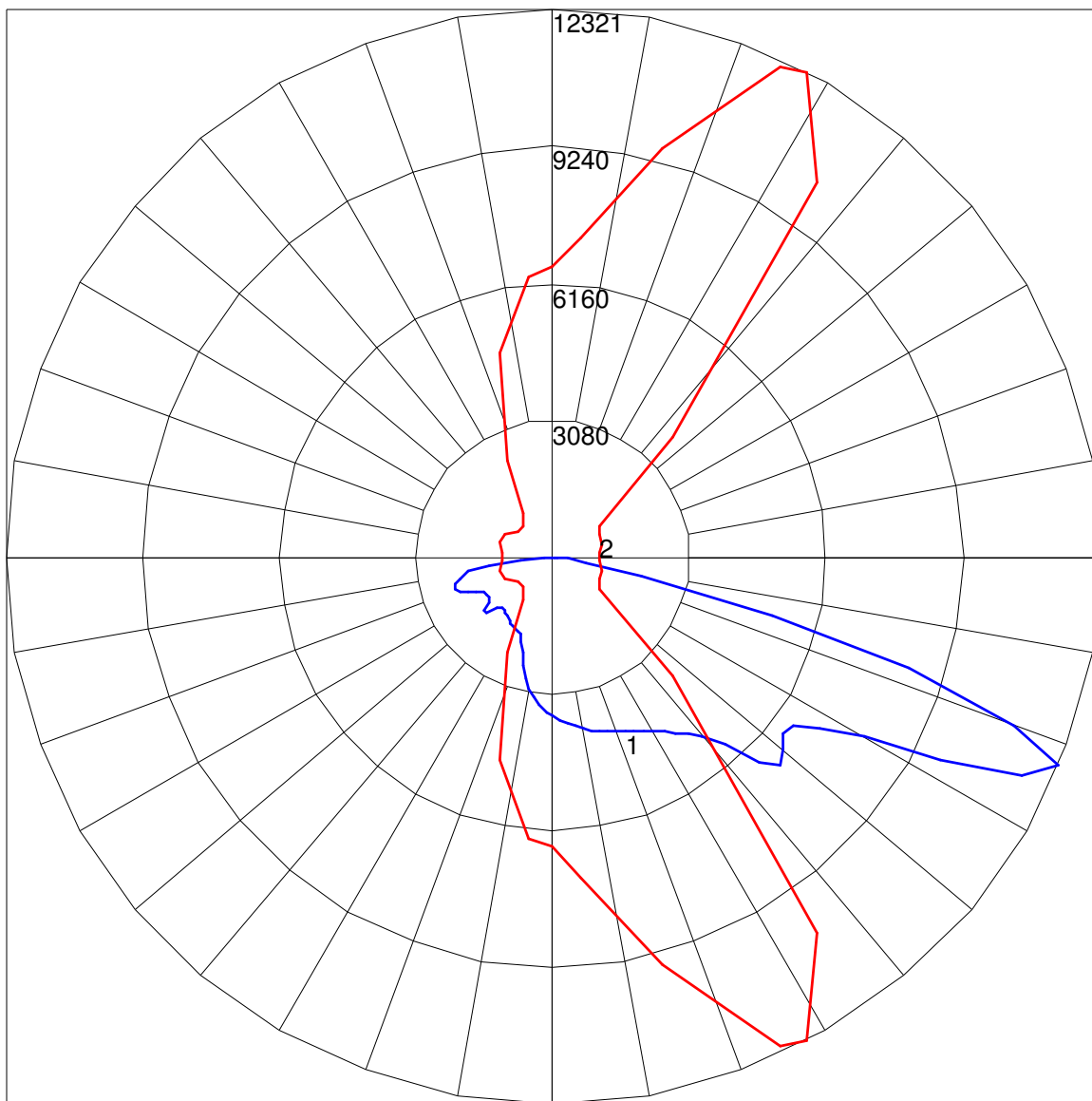
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

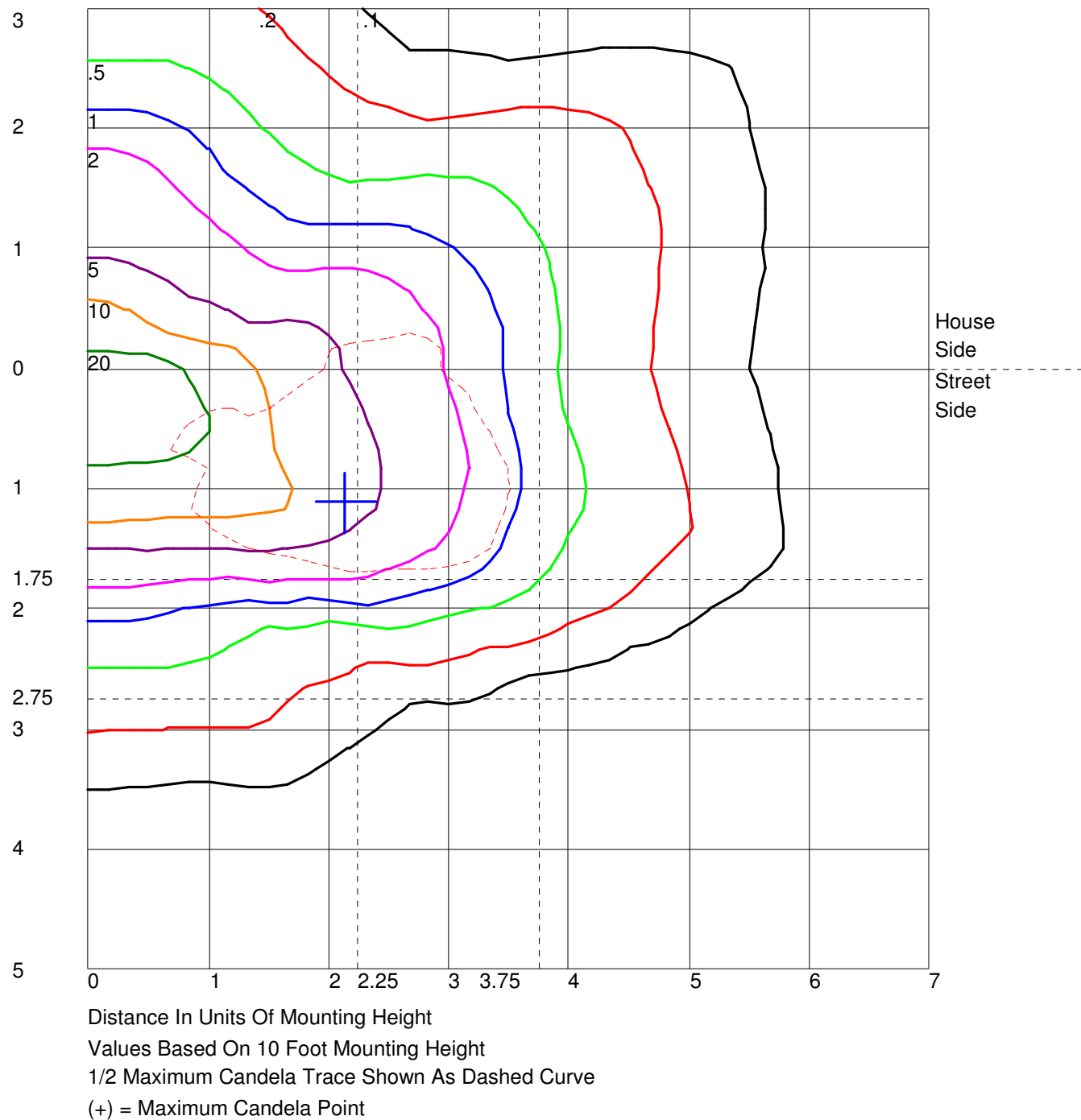
	Lumens	Percent Of Luminaire
Downward Street Side	11879.2	69.1
Downward House Side	5309.1	30.9
Downward Total	17188.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17188.3	100.0

POLAR GRAPH

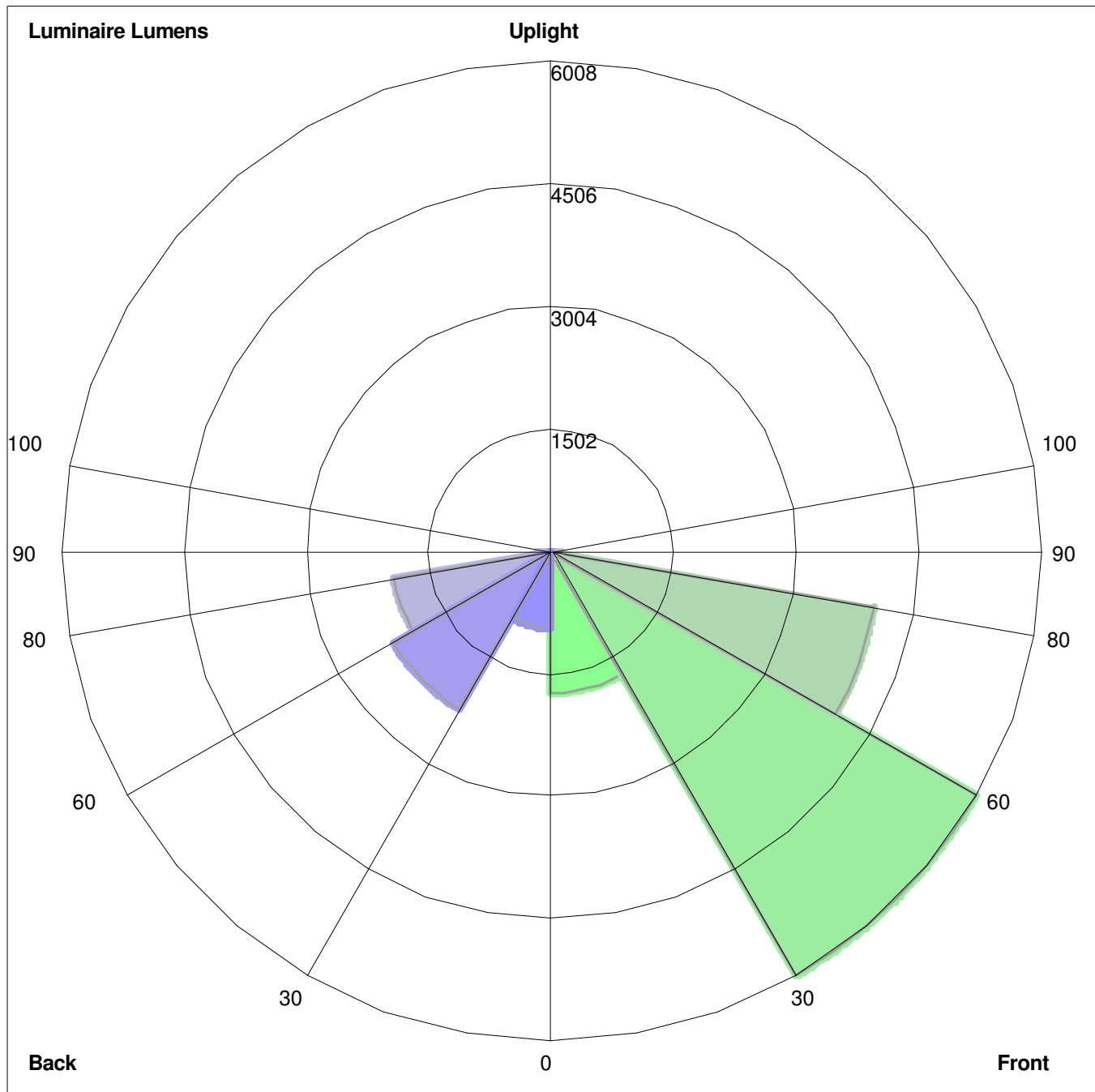


Maximum Candela = 12320.56 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1734.4, Medium=6007.7, High=4014.5, Very High=122.5
Back: Low=941.6, Medium=2232.7, High=1956.1, Very High=178.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3