



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L65-750-T5-XX-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] ATAL009389-R2  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-11-06  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VG1-L65-750-T5-xx-xxx-DIM-UNV\_  
[LUMINAIRE] 13.5 x 16 INCH DIE CAST LED LUMINAIRE  
[MORE] WITH TYPE V DISTRIBUTION AND CLEAR GLASS  
[LAMPCAT] X12-LUXEON M LEDS  
[LAMP] (12) LUXEON M LEDS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Architectural, Area, Canopy, Garage, Industrial, Parking, Site, Direct, Wet Location  
[ \_SEARCH\_MOUNTING] Pendant, Surface

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7459
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	69
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2249.631
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	2249.631
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	779.225 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L65-750-T5-XX-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	421.7	N.A.	5.7
FM - Front-Medium (30-60)	1701.4	N.A.	22.8
FH - Front-High (60-80)	1595.2	N.A.	21.4
FVH - Front-Very High (80-90)	44.0	N.A.	0.6
BL - Back-Low (0-30)	407.7	N.A.	5.5
BM - Back-Medium (30-60)	1594.9	N.A.	21.4
BH - Back-High (60-80)	1628.5	N.A.	21.8
BVH - Back-Very High (80-90)	66.1	N.A.	0.9
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7459.4	N.A.	100.0
BUG Rating	B3-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071
2.5	951.197	952.020	953.666	954.489	956.134	955.312	954.489	954.489	954.489	956.134
5.0	937.209	938.032	939.678	941.323	943.792	942.969	942.146	942.146	941.323	942.969
7.5	930.626	932.272	933.918	935.563	936.386	936.386	935.563	935.563	934.741	935.563
10.0	932.272	933.095	936.386	937.209	935.563	935.563	935.563	933.918	932.272	931.449
12.5	938.855	939.678	943.792	945.438	945.438	945.438	943.792	940.501	936.386	933.918
15.0	945.438	947.083	951.197	952.020	955.312	959.426	959.426	956.957	952.020	947.906
17.5	957.780	958.603	961.894	961.071	965.186	971.768	977.528	977.528	972.591	970.945
20.0	988.225	985.756	986.579	983.288	982.465	987.402	995.630	999.745	997.276	999.745
22.5	1027.721	1020.316	1018.670	1012.087	1008.796	1011.264	1018.670	1022.784	1029.367	1035.949
25.0	1058.166	1055.697	1054.052	1046.646	1040.886	1039.241	1041.709	1047.469	1064.749	1069.686
27.5	1098.485	1097.662	1096.016	1086.965	1078.737	1073.800	1071.331	1076.268	1090.256	1094.371
30.0	1149.501	1148.678	1145.386	1133.867	1121.524	1110.827	1106.713	1110.827	1114.119	1118.233
32.5	1213.682	1212.036	1202.162	1188.997	1172.540	1156.083	1147.032	1141.272	1141.272	1141.272
35.0	1288.560	1286.914	1275.394	1256.469	1235.898	1212.036	1194.757	1186.528	1178.300	1171.717
37.5	1359.324	1357.678	1345.335	1328.056	1303.371	1273.749	1250.709	1236.721	1221.087	1212.036
40.0	1426.796	1424.328	1411.985	1393.883	1370.020	1337.930	1311.599	1293.497	1274.572	1264.698
42.5	1491.800	1486.863	1472.875	1453.127	1432.556	1401.288	1375.780	1356.032	1338.753	1327.233
45.0	1541.170	1537.879	1526.359	1509.902	1486.863	1455.595	1435.024	1418.568	1406.225	1396.351
47.5	1590.540	1584.780	1579.021	1564.210	1541.993	1507.434	1487.686	1476.989	1472.052	1469.583
50.0	1632.505	1630.036	1630.859	1622.631	1602.060	1568.324	1551.044	1543.639	1541.993	1542.816
52.5	1644.025	1647.316	1662.127	1672.824	1665.418	1639.087	1624.276	1620.985	1616.871	1616.871
55.0	1639.087	1646.493	1675.292	1710.674	1724.662	1712.320	1704.091	1705.737	1700.800	1697.509
57.5	1664.595	1667.887	1693.395	1738.651	1769.095	1778.147	1784.729	1801.186	1799.540	1791.312
60.0	1707.383	1709.851	1737.005	1792.958	1815.997	1834.922	1861.253	1900.749	1907.332	1897.458
62.5	1712.320	1720.548	1752.639	1834.099	1877.710	1919.674	1950.119	2012.655	2042.277	2043.922
65.0	1750.993	1757.576	1787.198	1864.544	1904.040	1937.777	1982.210	2101.521	2180.513	2192.033
67.5	1709.028	1731.245	1778.969	1873.595	1920.497	1956.702	1995.375	2136.903	2224.946	2247.163
70.0	1605.351	1622.631	1702.446	1815.997	1862.076	1880.178	1932.840	2094.115	2184.627	2181.336
72.5	1438.316	1481.926	1593.009	1765.804	1851.379	1815.174	1808.592	1802.832	1878.533	1838.214
75.0	891.953	973.414	1077.091	1295.965	1346.981	1408.694	1541.170	1535.410	1290.205	1181.591
77.5	279.764	297.043	327.488	412.240	513.449	751.248	928.981	1013.733	995.630	1011.264
80.0	110.260	116.020	130.008	167.858	195.835	271.536	408.949	519.209	573.516	582.567
82.5	37.028	37.028	41.965	57.598	69.118	102.032	150.579	192.543	222.988	241.914
85.0	12.343	11.520	13.165	16.457	18.925	28.799	41.142	51.016	57.598	60.890
87.5	1.646	1.646	1.646	1.646	1.646	1.646	2.469	4.114	4.937	4.937
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071
2.5	958.603	963.540	962.717	958.603	955.312	955.312	957.780	957.780	958.603	956.957
5.0	946.260	948.729	947.906	944.615	941.323	941.323	942.969	942.969	942.146	941.323
7.5	938.032	938.032	935.563	934.741	930.626	931.449	932.272	931.449	928.981	928.981
10.0	933.095	931.449	928.158	927.335	925.689	928.158	928.158	928.981	926.512	925.689
12.5	935.563	933.095	931.449	932.272	931.449	933.095	930.626	928.981	926.512	924.867
15.0	947.083	947.083	943.792	942.146	939.678	935.563	928.981	926.512	924.867	923.221
17.5	966.831	965.186	960.249	954.489	947.083	941.323	935.563	933.918	931.449	931.449
20.0	993.985	987.402	980.819	970.945	963.540	959.426	955.312	954.489	951.197	951.197
22.5	1027.721	1011.264	1002.213	993.985	987.402	985.756	985.756	984.111	981.642	979.997
25.0	1062.280	1036.772	1021.961	1019.493	1017.847	1017.847	1017.847	1016.201	1017.024	1012.910
27.5	1087.788	1063.926	1049.115	1050.760	1054.052	1053.229	1054.875	1054.052	1054.875	1050.760

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**CANDELA TABULATION - (Cont.)**

30.0	1111.650	1096.016	1086.965	1086.142	1092.725	1096.016	1097.662	1099.308	1096.839	1094.371
32.5	1135.512	1120.701	1121.524	1124.816	1134.690	1139.627	1145.386	1147.032	1147.032	1143.741
35.0	1166.780	1156.906	1164.312	1172.540	1187.351	1197.225	1206.276	1212.859	1211.213	1208.745
37.5	1210.390	1205.453	1214.505	1230.138	1248.241	1263.875	1272.926	1277.863	1281.977	1277.863
40.0	1262.229	1259.761	1273.749	1291.028	1314.068	1331.347	1341.221	1348.627	1353.564	1349.450
42.5	1324.764	1323.119	1340.398	1356.855	1380.717	1393.883	1405.402	1412.808	1416.099	1412.808
45.0	1392.237	1389.768	1404.579	1416.099	1437.493	1449.013	1460.532	1467.115	1468.761	1465.469
47.5	1462.178	1454.772	1466.292	1472.052	1488.509	1504.143	1513.194	1516.485	1515.662	1513.194
50.0	1538.702	1528.828	1535.410	1534.587	1550.221	1565.855	1565.855	1560.918	1559.272	1559.272
52.5	1618.517	1613.580	1608.643	1607.820	1620.985	1625.922	1611.111	1594.654	1592.186	1594.654
55.0	1700.800	1703.269	1695.040	1689.280	1693.395	1685.166	1652.253	1620.162	1614.402	1616.871
57.5	1792.958	1798.718	1780.615	1770.741	1760.044	1726.308	1669.532	1623.454	1618.517	1616.048
60.0	1893.344	1899.103	1868.658	1843.973	1812.706	1769.095	1702.446	1662.127	1660.481	1653.076
62.5	2033.226	2031.580	1973.159	1930.371	1880.178	1820.934	1736.182	1686.812	1683.521	1675.292
65.0	2188.741	2147.600	2021.706	1950.942	1905.686	1844.796	1752.639	1709.851	1698.332	1692.572
67.5	2249.631	2194.501	2051.328	1967.399	1946.828	1887.584	1810.237	1760.044	1751.816	1746.879
70.0	2215.895	2165.702	2015.946	1900.749	1885.115	1825.048	1721.371	1611.934	1597.123	1588.895
72.5	1897.458	1848.910	1822.580	1822.580	1881.001	1856.316	1730.422	1551.044	1544.461	1546.107
75.0	1254.001	1488.509	1623.454	1537.879	1510.725	1421.859	1319.005	1146.209	1137.158	1143.741
77.5	1003.859	1035.949	1019.493	851.634	711.752	522.500	452.559	381.795	376.036	377.681
80.0	585.859	554.591	492.878	320.083	243.559	195.835	175.264	155.516	156.339	154.693
82.5	235.331	218.051	189.252	132.476	102.032	77.346	66.650	59.244	60.067	59.244
85.0	63.358	63.358	55.953	37.850	28.799	20.571	18.102	16.457	17.280	18.102
87.5	4.114	5.760	4.114	4.114	3.291	3.291	2.469	2.469	2.469	2.469
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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071	961.071
2.5	956.957	956.134	955.312	955.312	956.134	956.134	956.957	958.603	959.426	959.426
5.0	940.501	940.501	940.501	940.501	940.501	941.323	942.146	944.615	946.260	945.438
7.5	928.158	928.981	929.804	929.804	928.158	928.158	929.804	931.449	933.095	933.095
10.0	924.867	924.867	924.867	922.398	918.284	917.461	920.752	922.398	923.221	922.398
12.5	926.512	928.158	928.981	926.512	919.930	916.638	919.107	919.930	920.752	920.752
15.0	925.689	928.158	932.272	931.449	928.158	924.867	927.335	926.512	927.335	928.158
17.5	930.626	931.449	934.741	936.386	935.563	938.032	941.323	941.323	940.501	942.146
20.0	947.906	947.906	947.083	947.083	947.906	953.666	956.957	962.717	959.426	957.780
22.5	975.882	972.591	967.654	966.008	967.654	973.414	979.174	989.048	984.111	976.705
25.0	1006.327	1001.390	993.162	991.516	989.048	993.162	1005.504	1018.670	1010.441	997.276
27.5	1042.532	1035.127	1025.253	1022.784	1014.556	1017.024	1032.658	1041.709	1031.835	1017.847
30.0	1085.319	1075.445	1062.280	1056.520	1044.178	1049.115	1054.875	1063.103	1050.760	1044.178
32.5	1133.044	1119.056	1100.953	1089.434	1074.623	1072.977	1072.977	1074.623	1065.571	1058.166
35.0	1191.465	1174.186	1150.323	1131.398	1109.182	1100.131	1094.371	1092.725	1085.319	1081.205
37.5	1258.115	1236.721	1210.390	1184.883	1156.083	1141.272	1128.930	1123.170	1116.587	1120.701
40.0	1327.233	1303.371	1272.926	1244.949	1210.390	1190.642	1175.009	1166.780	1158.552	1164.312
42.5	1391.414	1367.552	1338.753	1308.308	1272.926	1248.241	1228.493	1219.442	1212.859	1217.796
45.0	1444.076	1421.859	1393.060	1366.729	1336.284	1309.131	1285.268	1275.394	1270.457	1276.217
47.5	1493.446	1475.343	1447.367	1422.682	1397.174	1370.843	1346.981	1338.753	1332.993	1339.576
50.0	1543.639	1534.587	1509.080	1485.217	1461.355	1437.493	1416.099	1410.339	1404.579	1405.402
52.5	1586.426	1588.072	1574.906	1555.158	1529.650	1510.725	1490.154	1486.040	1481.103	1478.635
55.0	1623.454	1642.379	1644.847	1634.150	1612.757	1593.009	1574.084	1561.741	1563.387	1557.627
57.5	1634.150	1680.229	1709.851	1714.788	1697.509	1685.166	1667.064	1648.139	1649.784	1646.493
60.0	1663.773	1715.611	1764.981	1789.666	1785.552	1784.729	1773.210	1746.879	1754.284	1746.056
62.5	1690.926	1756.753	1828.340	1871.950	1881.824	1902.395	1911.446	1888.407	1891.698	1873.595
65.0	1703.269	1764.981	1839.036	1891.698	1928.725	2031.580	2080.950	2063.670	2060.379	2019.237

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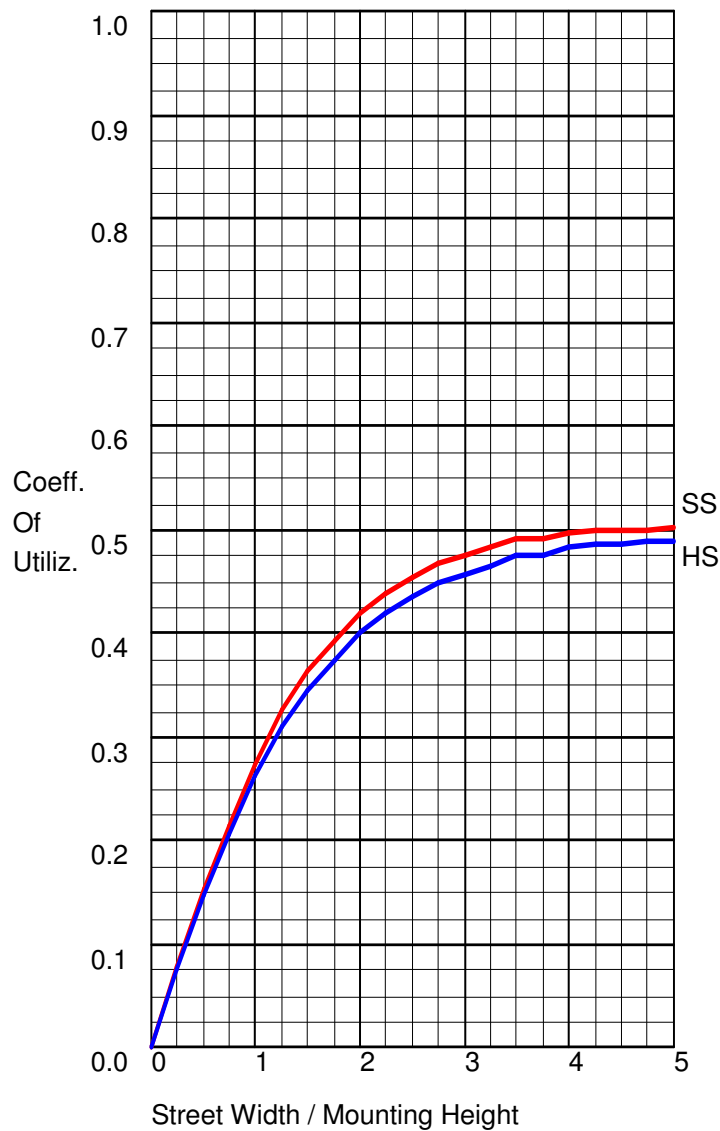
**CANDELA TABULATION - (Cont.)**

67.5	1764.981	1818.466	1878.533	1914.737	1944.359	2082.596	2169.816	2180.513	2169.816	2098.229
70.0	1638.265	1748.525	1825.871	1866.190	1941.891	2140.194	2229.883	2230.706	2235.643	2164.056
72.5	1652.253	1798.718	1816.820	1752.639	1797.895	1925.434	2048.037	2076.013	2108.103	2006.072
75.0	1312.422	1523.891	1604.528	1664.595	1732.068	1590.540	1444.076	1482.749	1490.154	1554.335
77.5	504.398	658.268	869.737	1010.441	1144.564	1235.898	1110.827	1019.493	1092.725	1246.595
80.0	188.429	222.165	270.713	394.138	581.744	713.398	733.969	779.225	756.185	770.174
82.5	73.232	88.866	118.488	155.516	213.114	288.815	346.414	358.756	339.831	327.488
85.0	20.571	25.508	36.205	49.370	66.650	92.980	121.780	129.185	128.362	117.665
87.5	3.291	3.291	5.760	7.406	13.165	13.165	16.457	15.634	15.634	15.634
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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	961.071	961.071	961.071	961.071	961.071	961.071	961.071
2.5	958.603	957.780	958.603	956.134	957.780	961.071	961.894
5.0	944.615	942.146	942.969	941.323	942.146	944.615	943.792
7.5	931.449	929.804	928.981	927.335	927.335	928.981	928.158
10.0	921.575	919.930	919.930	919.930	919.107	919.930	921.575
12.5	920.752	920.752	920.752	919.930	919.107	919.107	919.930
15.0	928.981	928.158	925.689	922.398	919.107	918.284	918.284
17.5	941.323	935.563	928.158	921.575	919.930	919.930	921.575
20.0	955.312	944.615	933.918	928.981	932.272	932.272	934.741
22.5	970.123	960.249	949.552	947.906	953.666	956.134	957.780
25.0	984.111	977.528	970.945	972.591	979.174	983.288	987.402
27.5	1001.390	1000.567	998.099	1000.567	1007.973	1010.441	1014.556
30.0	1030.190	1026.898	1028.544	1034.304	1043.355	1045.001	1049.938
32.5	1050.760	1052.406	1059.812	1068.863	1079.560	1083.674	1091.902
35.0	1078.737	1086.142	1100.131	1114.119	1128.107	1135.512	1145.386
37.5	1119.879	1133.044	1151.146	1168.426	1187.351	1198.048	1207.922
40.0	1170.071	1186.528	1204.631	1230.961	1254.001	1267.166	1277.040
42.5	1228.493	1246.595	1270.457	1295.965	1322.296	1336.284	1346.158
45.0	1292.674	1309.131	1329.702	1354.387	1375.780	1390.591	1396.351
47.5	1353.564	1366.729	1387.300	1407.871	1426.796	1435.024	1439.139
50.0	1415.276	1423.505	1445.721	1462.178	1477.812	1483.572	1489.332
52.5	1479.457	1490.977	1513.194	1524.713	1528.828	1528.828	1533.765
55.0	1558.450	1568.324	1580.666	1578.198	1569.147	1559.272	1557.627
57.5	1638.265	1640.733	1644.025	1633.328	1598.769	1571.615	1565.855
60.0	1726.308	1724.662	1711.497	1681.052	1624.276	1590.540	1587.249
62.5	1834.099	1820.111	1783.906	1737.828	1658.013	1622.631	1614.402
65.0	1925.434	1871.127	1815.997	1755.107	1669.532	1648.139	1640.733
67.5	1957.525	1891.698	1867.013	1834.099	1760.044	1741.119	1733.714
70.0	1999.489	1892.521	1842.328	1783.084	1699.154	1620.985	1612.757
72.5	1863.721	1773.210	1772.387	1767.450	1671.178	1587.249	1573.261
75.0	1757.576	1718.902	1702.446	1582.312	1449.835	1322.296	1297.611
77.5	1258.115	1123.170	1042.532	952.020	775.111	639.343	594.910
80.0	708.461	501.107	352.996	301.980	264.953	234.508	232.039
82.5	274.827	192.543	147.287	129.185	111.083	94.626	95.449
85.0	93.803	64.181	49.370	40.319	33.736	27.976	27.154
87.5	12.343	9.051	6.583	5.760	5.760	4.937	4.937
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

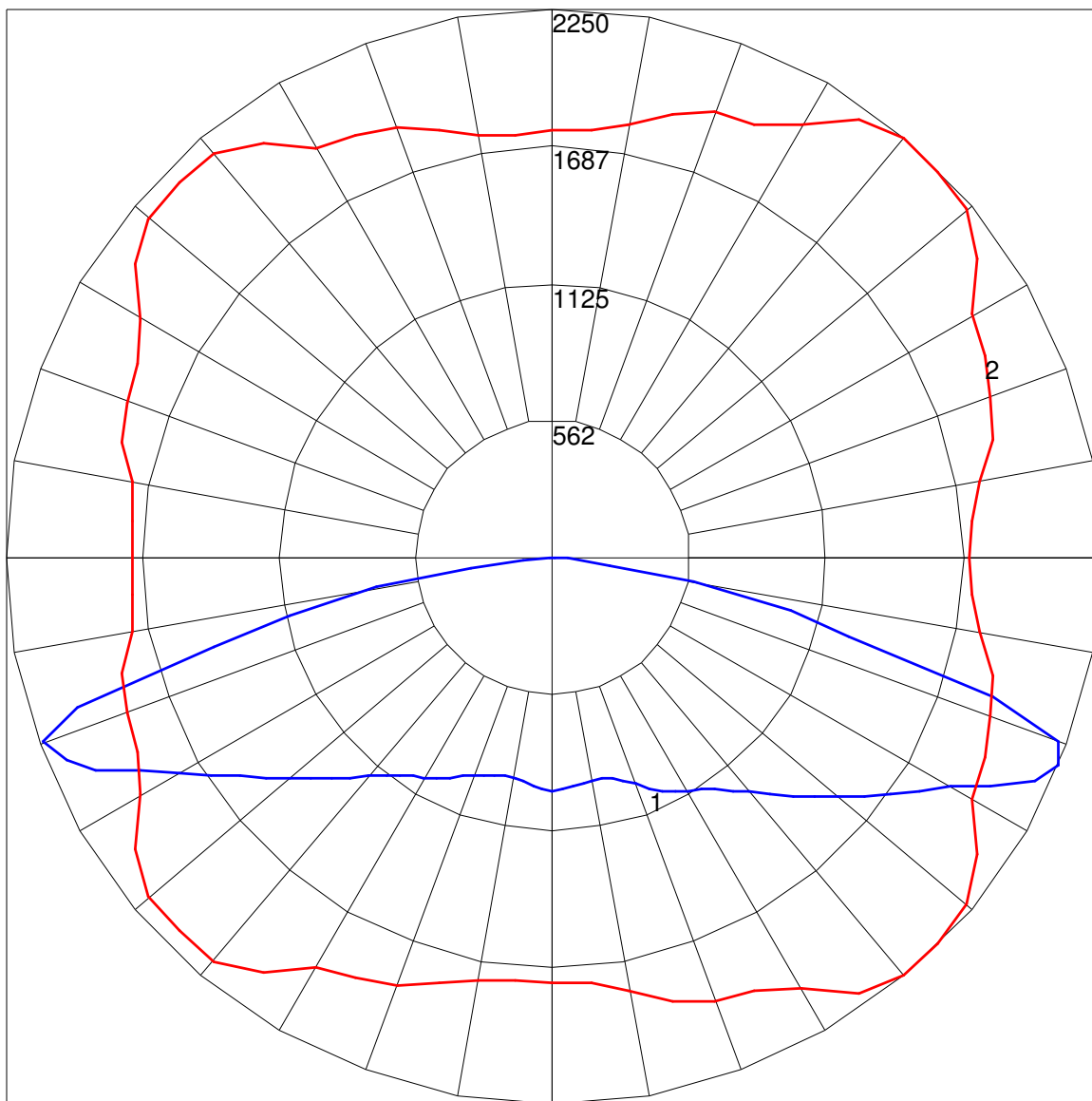
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

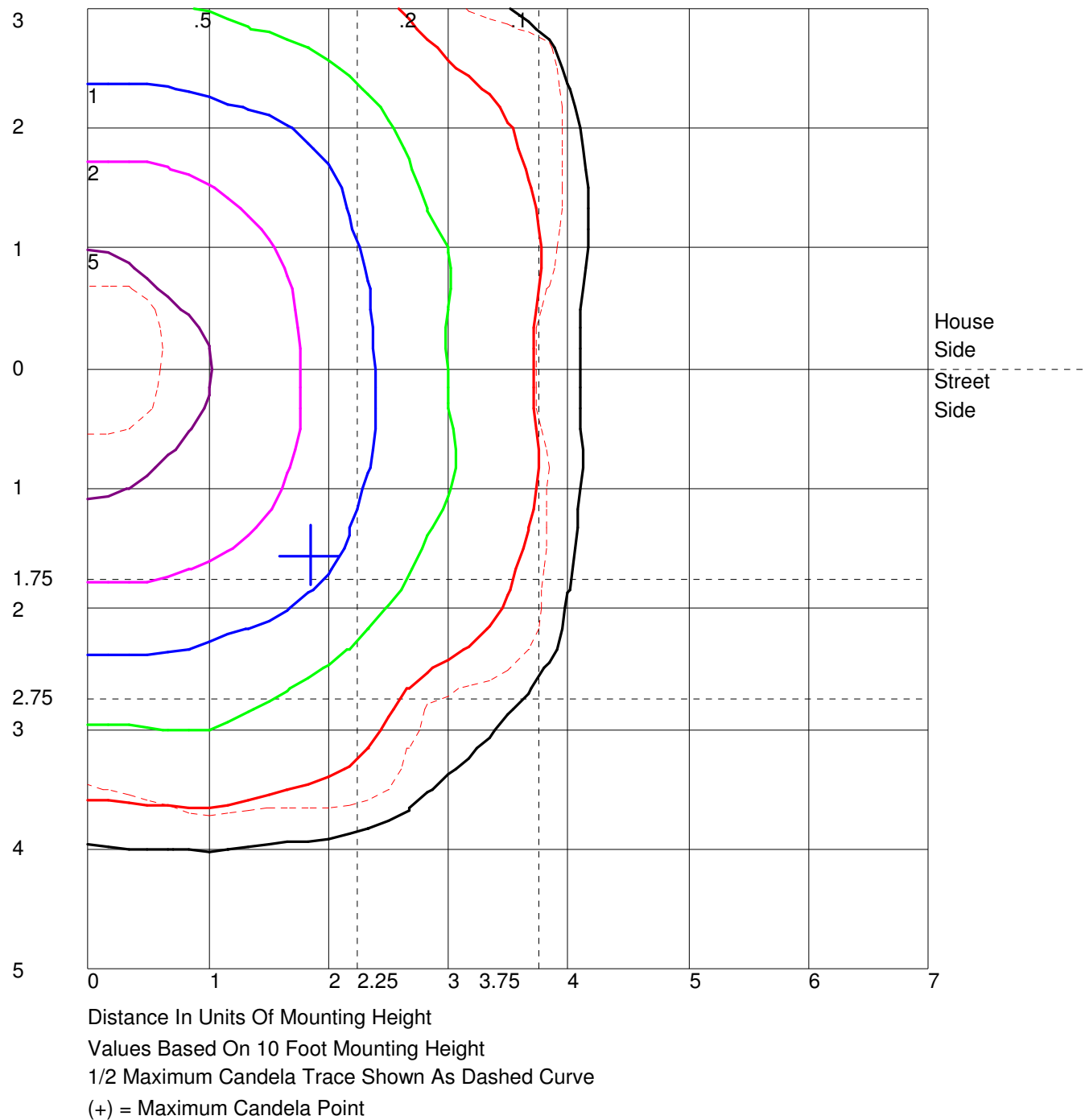
	Lumens	Percent Of Luminaire
Downward Street Side	3762.2	50.4
Downward House Side	3697.2	49.6
Downward Total	7459.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7459.4	100.0

POLAR GRAPH



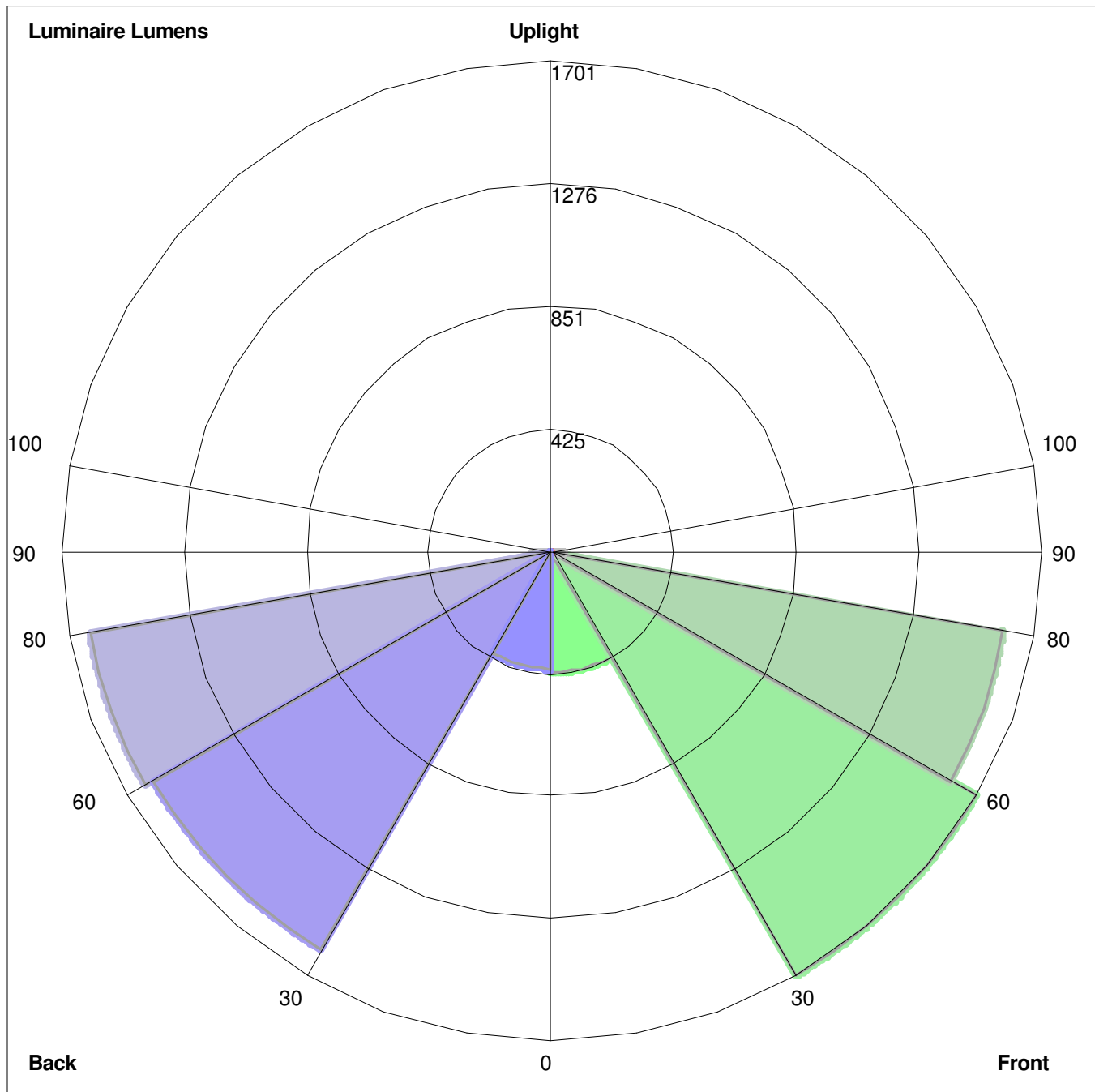
Maximum Candela = 2249.631 Located At Horizontal Angle = 50, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=421.7, Medium=1701.4, High=1595.2, Very High=44.0  
Back: Low=407.7, Medium=1594.9, High=1628.5, Very High=66.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1