



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-CGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009828
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2024-02-01
[TEST DATE] 07/14/15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPx-L60-740-TFT-xxx-CGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] FORWARD THROW DISTRIBUTION WITH
[MORE] CLEAR GLASS LENS
[LAMPCAT] X8-LUXEON M
[LAMP] (8) LEDS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6391
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2231.592
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	2231.592
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	397.247 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-CGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	376.2	N.A.	5.9
FM - Front-Medium (30-60)	1628.0	N.A.	25.5
FH - Front-High (60-80)	1466.6	N.A.	22.9
FVH - Front-Very High (80-90)	33.3	N.A.	0.5
BL - Back-Low (0-30)	364.6	N.A.	5.7
BM - Back-Medium (30-60)	1505.4	N.A.	23.6
BH - Back-High (60-80)	1011.9	N.A.	15.8
BVH - Back-Very High (80-90)	4.9	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	6390.9	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<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	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514
2.5	817.861	815.524	814.356	812.019	809.682	808.514	808.514	809.682	807.346	806.177
5.0	816.693	813.188	810.851	809.682	808.514	808.514	807.346	808.514	806.177	806.177
7.5	816.693	813.188	809.682	809.682	808.514	808.514	807.346	806.177	803.841	802.672
10.0	820.198	815.524	812.019	813.188	810.851	810.851	809.682	808.514	805.009	802.672
12.5	830.713	824.871	822.535	823.703	821.366	820.198	819.029	815.524	810.851	807.346
15.0	845.902	837.723	836.555	841.229	841.229	838.892	837.723	834.218	828.376	822.535
17.5	865.764	856.417	850.576	856.417	857.586	858.754	861.091	858.754	851.744	845.902
20.0	898.479	890.300	880.953	882.122	879.785	883.290	885.627	886.795	880.953	875.111
22.5	940.540	932.362	920.678	918.341	912.499	914.836	916.004	917.173	913.668	908.994
25.0	986.107	980.265	965.076	960.403	952.224	953.392	951.056	953.392	948.719	946.382
27.5	1032.842	1023.495	1008.306	1003.632	993.117	994.285	987.275	987.275	986.107	989.612
30.0	1088.924	1081.913	1062.051	1052.704	1041.020	1036.347	1024.663	1025.831	1023.495	1024.663
32.5	1152.016	1140.332	1125.143	1112.291	1097.102	1084.250	1069.061	1066.725	1059.714	1056.209
35.0	1219.781	1210.434	1194.077	1180.057	1159.026	1142.669	1122.806	1112.291	1101.776	1090.092
37.5	1282.874	1275.863	1259.506	1247.822	1224.455	1204.593	1181.225	1157.858	1143.837	1130.985
40.0	1343.629	1338.955	1321.430	1310.914	1288.715	1266.516	1240.812	1215.108	1196.414	1178.888
42.5	1406.721	1400.879	1384.522	1371.670	1350.639	1326.103	1301.568	1278.200	1257.169	1241.980
45.0	1463.971	1459.298	1447.614	1434.762	1413.731	1388.027	1364.660	1341.292	1326.103	1315.588
47.5	1517.717	1513.043	1507.201	1499.023	1479.160	1449.951	1428.920	1405.553	1396.206	1395.037
50.0	1548.094	1549.263	1551.599	1556.273	1546.926	1517.717	1502.528	1483.834	1475.655	1479.160
52.5	1555.104	1562.115	1580.809	1601.839	1608.850	1588.987	1584.314	1573.798	1565.620	1570.293
55.0	1567.957	1576.135	1608.850	1647.406	1671.942	1667.268	1670.773	1676.615	1670.773	1671.942
57.5	1628.712	1643.901	1673.110	1723.350	1758.401	1768.917	1779.432	1801.631	1803.968	1796.958
60.0	1699.983	1718.677	1752.559	1814.483	1861.218	1890.427	1911.458	1960.530	1985.066	1976.887
62.5	1709.330	1730.360	1772.422	1834.346	1874.070	1923.142	1975.719	2087.883	2149.806	2154.480
65.0	1649.743	1674.278	1722.182	1785.274	1837.851	1897.438	1969.877	2131.112	2217.572	2231.592
67.5	1614.691	1643.901	1719.845	1777.095	1800.463	1815.652	1878.744	2066.852	2173.174	2175.511
70.0	1559.778	1595.998	1692.972	1764.243	1798.126	1777.095	1792.284	1867.060	1950.015	1947.678
72.5	1317.925	1348.302	1514.211	1627.544	1682.457	1640.396	1692.972	1618.197	1513.043	1449.951
75.0	563.156	583.018	708.034	855.249	986.107	1099.439	1248.991	1320.261	1150.847	1094.765
77.5	203.297	207.970	233.675	262.884	331.818	473.191	683.498	806.177	795.662	826.040
80.0	82.954	85.291	96.975	113.332	143.710	186.940	273.399	354.017	375.048	397.247
82.5	33.883	35.051	40.893	45.567	60.755	80.618	115.669	146.047	154.225	171.751
85.0	12.852	12.852	14.020	16.357	21.031	28.041	42.061	53.745	54.914	64.261
87.5	3.505	3.505	3.505	3.505	3.505	3.505	4.673	4.673	7.010	9.347
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>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	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514
2.5	805.009	803.841	806.177	807.346	805.009	802.672	802.672	802.672	802.672	802.672
5.0	802.672	801.504	803.841	803.841	801.504	797.999	795.662	795.662	794.494	795.662
7.5	801.504	797.999	800.335	799.167	796.830	792.157	788.652	788.652	787.483	787.483
10.0	801.504	795.662	797.999	799.167	799.167	794.494	789.820	788.652	787.483	786.315
12.5	806.177	802.672	805.009	805.009	806.177	801.504	796.830	794.494	792.157	790.989
15.0	822.535	820.198	821.366	820.198	819.029	815.524	808.514	802.672	800.335	799.167
17.5	843.565	842.397	841.229	838.892	834.218	827.208	822.535	817.861	816.693	815.524
20.0	871.606	870.438	869.270	862.259	856.417	848.239	844.734	843.565	843.565	842.397
22.5	905.489	898.479	896.142	890.300	884.458	879.785	878.616	877.448	877.448	876.280
25.0	944.045	932.362	930.025	925.351	920.678	921.846	921.846	920.678	920.678	916.004
27.5	982.602	968.581	962.739	959.234	958.066	962.739	962.739	963.908	966.244	959.234

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CANDELA TABULATION - (Cont.)

30.0	1024.663	1008.306	996.622	997.791	998.959	1007.138	1007.138	1009.474	1015.316	1008.306
32.5	1060.883	1052.704	1035.178	1037.515	1041.020	1051.536	1057.378	1063.219	1070.230	1060.883
35.0	1094.765	1095.934	1080.745	1084.250	1092.429	1105.281	1113.459	1123.975	1133.322	1122.806
37.5	1130.985	1139.164	1135.659	1141.500	1153.184	1169.541	1180.057	1191.740	1194.077	1190.572
40.0	1177.720	1191.740	1196.414	1208.098	1218.613	1233.802	1250.159	1261.843	1261.843	1259.506
42.5	1234.970	1250.159	1257.169	1273.527	1286.379	1298.062	1313.251	1322.598	1319.093	1320.261
45.0	1303.904	1314.420	1323.767	1338.955	1351.808	1362.323	1370.502	1370.502	1365.828	1368.165
47.5	1383.354	1384.522	1386.859	1404.384	1416.068	1432.425	1435.930	1428.920	1421.910	1427.752
50.0	1472.150	1466.308	1460.466	1472.150	1483.834	1501.359	1497.854	1482.665	1473.318	1481.497
52.5	1567.957	1557.441	1544.589	1552.768	1557.441	1562.115	1539.916	1513.043	1504.864	1516.548
55.0	1671.942	1667.268	1643.901	1636.891	1627.544	1612.355	1560.946	1513.043	1499.023	1513.043
57.5	1805.136	1798.126	1758.401	1739.707	1708.161	1674.278	1598.334	1544.589	1532.905	1537.579
60.0	1982.729	1972.214	1906.785	1863.555	1815.652	1758.401	1668.437	1615.860	1605.344	1606.513
62.5	2143.964	2106.576	1992.076	1904.448	1843.693	1765.412	1671.942	1618.197	1605.344	1607.681
65.0	2210.562	2145.133	1997.918	1886.922	1826.167	1750.223	1671.942	1621.702	1612.355	1607.681
67.5	2175.511	2097.230	1928.984	1849.534	1835.514	1780.600	1705.825	1622.870	1604.176	1603.008
70.0	1993.244	1924.310	1843.693	1846.029	1882.249	1843.693	1737.371	1603.008	1570.293	1576.135
72.5	1509.538	1661.426	1781.769	1749.054	1786.442	1722.182	1560.946	1371.670	1330.777	1363.491
75.0	1175.383	1378.680	1354.144	1225.623	1036.347	916.004	719.718	583.018	586.523	581.850
77.5	813.188	824.871	727.896	544.462	347.007	306.114	257.042	221.991	226.664	221.991
80.0	386.731	368.037	290.925	218.486	160.067	143.710	118.006	102.817	101.648	96.975
82.5	161.235	158.899	130.858	100.480	77.113	63.092	52.577	45.567	46.735	46.735
85.0	61.924	64.261	53.745	42.061	31.546	26.873	22.199	21.031	19.862	19.862
87.5	11.684	15.189	11.684	10.515	9.347	8.179	7.010	5.842	5.842	5.842
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	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514	808.514
2.5	802.672	801.504	801.504	800.335	801.504	805.009	802.672	802.672	805.009	808.514
5.0	794.494	793.325	794.494	796.830	796.830	800.335	799.167	799.167	801.504	803.841
7.5	786.315	786.315	789.820	792.157	793.325	795.662	795.662	794.494	796.830	800.335
10.0	786.315	787.483	790.989	793.325	792.157	793.325	793.325	793.325	795.662	797.999
12.5	792.157	794.494	799.167	800.335	799.167	795.662	795.662	795.662	799.167	802.672
15.0	801.504	806.177	809.682	813.188	812.019	810.851	809.682	809.682	810.851	815.524
17.5	815.524	816.693	822.535	828.376	828.376	830.713	829.545	828.376	828.376	831.882
20.0	840.060	838.892	841.229	849.407	850.576	852.912	852.912	854.081	851.744	851.744
22.5	872.775	871.606	871.606	877.448	879.785	879.785	879.785	880.953	878.616	876.280
25.0	917.173	914.836	908.994	912.499	912.499	911.331	914.836	913.668	911.331	906.657
27.5	962.739	956.897	949.887	949.887	945.214	944.045	954.561	951.056	945.214	935.867
30.0	1008.306	1000.127	990.780	984.938	980.265	981.433	988.444	981.433	973.255	962.739
32.5	1057.378	1044.525	1035.178	1025.831	1017.653	1021.158	1017.653	1008.306	998.959	991.949
35.0	1116.965	1101.776	1086.587	1074.903	1059.714	1053.872	1046.862	1030.505	1023.495	1017.653
37.5	1185.899	1169.541	1154.353	1130.985	1106.449	1094.765	1078.408	1063.219	1052.704	1048.031
40.0	1253.664	1237.307	1222.118	1195.246	1160.194	1136.827	1116.965	1102.944	1091.260	1088.924
42.5	1314.420	1296.894	1285.210	1253.664	1220.950	1188.235	1163.699	1149.679	1139.164	1139.164
45.0	1371.670	1361.155	1343.629	1310.914	1278.200	1244.317	1217.445	1205.761	1197.582	1192.909
47.5	1434.762	1430.089	1406.721	1371.670	1337.787	1300.399	1281.705	1265.348	1257.169	1247.822
50.0	1494.349	1496.686	1473.318	1438.267	1403.216	1364.660	1354.144	1335.450	1320.261	1308.578
52.5	1542.252	1553.936	1542.252	1503.696	1479.160	1446.446	1431.257	1405.553	1393.869	1379.848
55.0	1552.768	1588.987	1600.671	1580.809	1565.620	1537.579	1517.717	1488.507	1479.160	1468.645
57.5	1576.135	1618.197	1660.258	1664.932	1656.753	1642.732	1624.038	1587.819	1577.304	1571.462
60.0	1636.891	1676.615	1739.707	1770.085	1770.085	1784.106	1775.927	1737.371	1722.182	1710.498
62.5	1634.554	1680.120	1747.886	1808.641	1861.218	1924.310	1939.499	1907.953	1897.438	1868.228
65.0	1620.533	1654.416	1726.855	1801.631	1857.713	1979.224	2044.653	2043.484	1999.086	1945.341

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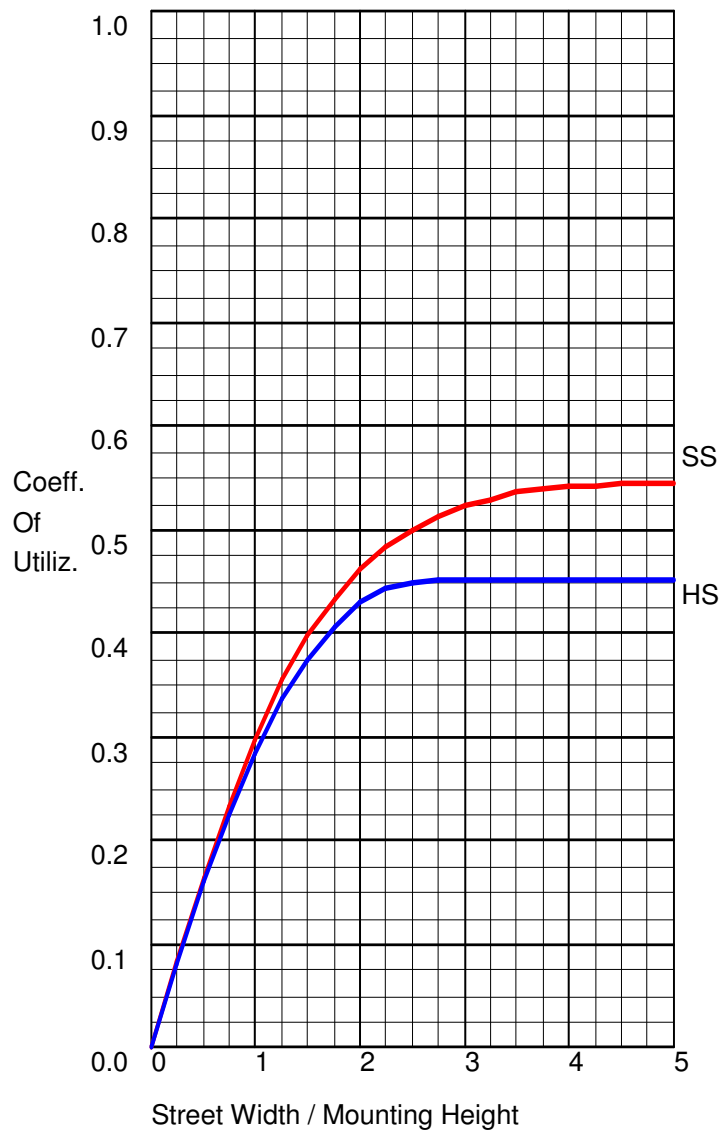
CANDELA TABULATION - (Cont.)

67.5	1636.891	1687.131	1724.519	1749.054	1796.958	1971.045	2059.842	1930.152	1793.453	1724.519
70.0	1635.722	1724.519	1758.401	1744.381	1733.866	1830.840	1611.186	1477.992	1603.008	969.750
72.5	1500.191	1661.426	1749.054	1699.983	1730.360	1263.011	1115.796	783.978	146.047	26.873
75.0	725.560	913.668	1113.459	1163.699	1060.883	879.785	202.129	19.862	4.673	3.505
77.5	259.379	299.103	363.364	434.635	504.737	14.020	4.673	3.505	2.337	2.337
80.0	115.669	130.858	123.848	100.480	38.556	2.337	2.337	1.168	1.168	1.168
82.5	50.240	50.240	32.714	14.020	2.337	1.168	1.168	1.168	1.168	1.168
85.0	21.031	11.684	5.842	1.168	1.168	1.168	1.168	0.000	0.000	0.000
87.5	4.673	1.168	1.168	1.168	1.168	0.000	0.000	0.000	0.000	0.000
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

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	808.514	808.514	808.514	808.514	808.514	808.514	808.514
2.5	807.346	808.514	810.851	810.851	813.188	810.851	807.346
5.0	802.672	802.672	805.009	805.009	806.177	805.009	800.335
7.5	797.999	797.999	799.167	797.999	799.167	797.999	793.325
10.0	796.830	796.830	796.830	797.999	800.335	797.999	795.662
12.5	802.672	805.009	802.672	805.009	807.346	805.009	802.672
15.0	816.693	816.693	814.356	815.524	814.356	810.851	809.682
17.5	830.713	829.545	823.703	822.535	821.366	821.366	820.198
20.0	849.407	847.070	838.892	838.892	840.060	841.229	842.397
22.5	872.775	869.270	859.923	861.091	864.596	868.101	872.775
25.0	900.816	892.637	886.795	887.963	892.637	898.479	901.984
27.5	924.183	917.173	912.499	914.836	919.510	926.520	931.193
30.0	949.887	945.214	945.214	947.550	953.392	962.739	968.581
32.5	981.433	976.760	976.760	981.433	989.612	1001.296	1008.306
35.0	1014.148	1007.138	1014.148	1021.158	1032.842	1045.694	1055.041
37.5	1046.862	1050.367	1062.051	1072.566	1084.250	1100.607	1113.459
40.0	1090.092	1100.607	1111.123	1125.143	1141.500	1160.194	1173.046
42.5	1141.500	1153.184	1166.036	1178.888	1195.246	1216.276	1230.297
45.0	1195.246	1205.761	1218.613	1231.465	1247.822	1270.021	1281.705
47.5	1248.991	1254.833	1271.190	1282.874	1299.231	1321.430	1329.608
50.0	1308.578	1312.083	1327.272	1338.955	1354.144	1374.007	1378.680
52.5	1378.680	1378.680	1388.027	1397.374	1402.048	1414.900	1416.068
55.0	1460.466	1453.456	1454.624	1455.793	1446.446	1444.109	1439.436
57.5	1557.441	1546.926	1537.579	1518.885	1482.665	1461.635	1452.288
60.0	1694.141	1670.773	1638.059	1588.987	1528.232	1509.538	1502.528
62.5	1809.810	1740.876	1677.784	1612.355	1552.768	1534.074	1523.558
65.0	1830.840	1742.044	1663.763	1573.798	1440.604	1264.180	1263.011
67.5	1708.161	1337.787	880.953	486.043	244.190	141.373	105.154
70.0	332.986	167.077	19.862	7.010	4.673	4.673	4.673
72.5	7.010	4.673	3.505	3.505	3.505	3.505	2.337
75.0	3.505	2.337	2.337	2.337	1.168	1.168	1.168
77.5	1.168	1.168	1.168	1.168	1.168	0.000	0.000
80.0	1.168	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

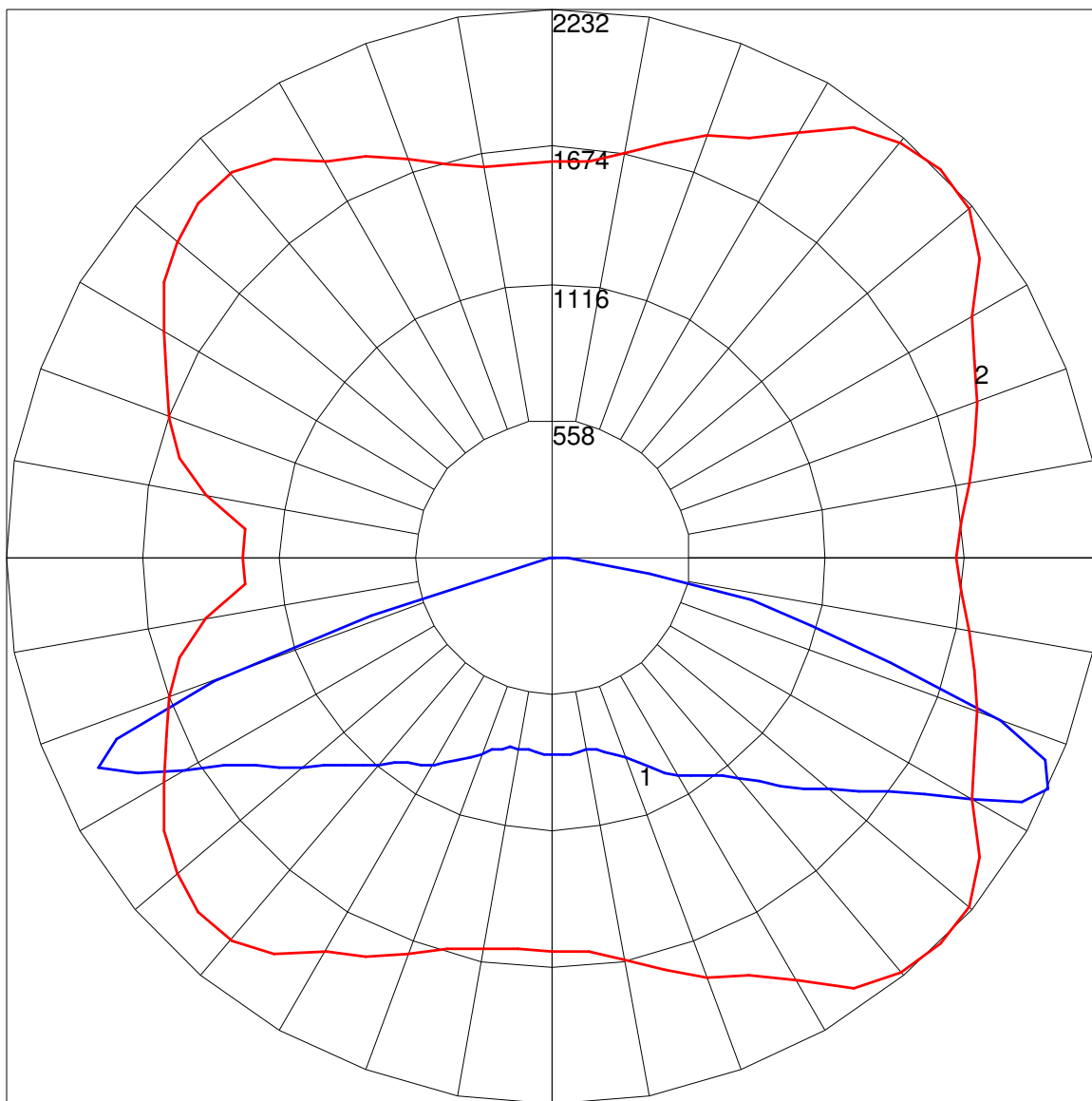
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

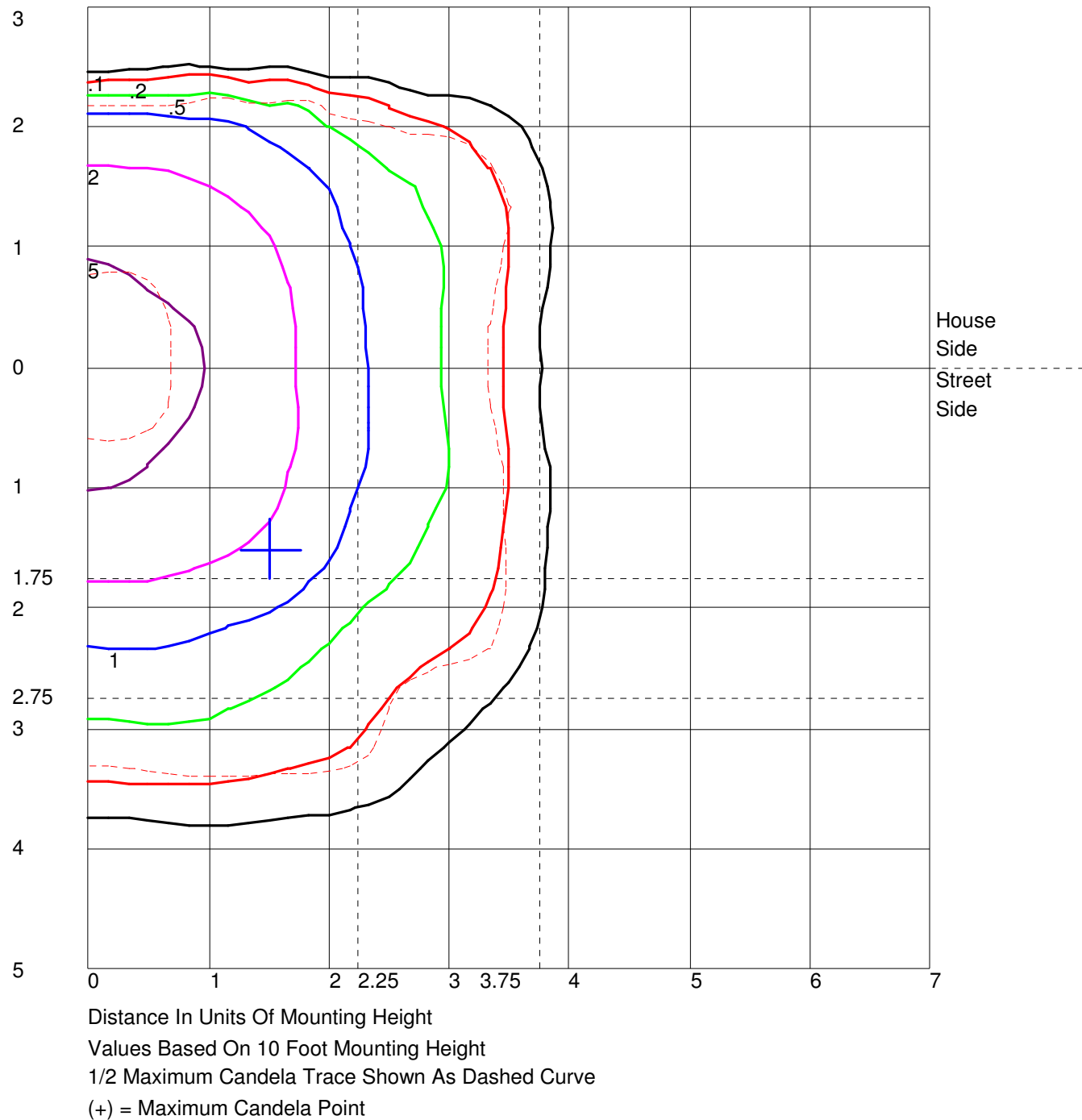
	Lumens	Percent Of Luminaire
Downward Street Side	3504.0	54.8
Downward House Side	2886.9	45.2
Downward Total	6390.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6390.9	100.0

POLAR GRAPH

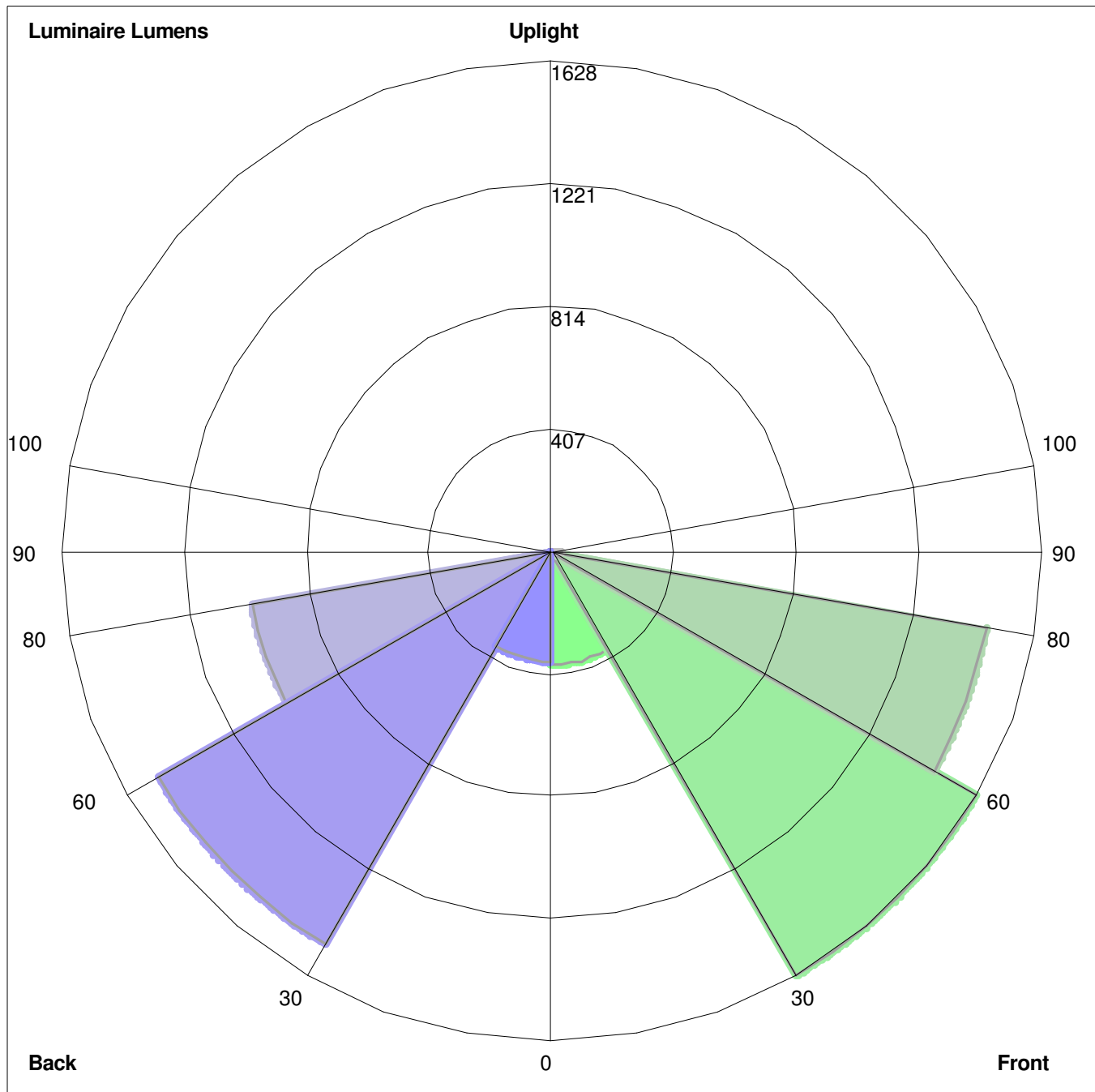


Maximum Candela = 2231.592 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=376.2, Medium= 1628.0, High=1466.6, Very High=33.3
Back: Low=364.6, Medium=1505.4, High=1011.9, Very High=4.9
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3