



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-840-TFT-XXX-SDGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009421
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2024-02-01
[TEST DATE] 07/14/15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPx-L85-840-TFT-xxx-SDGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] FORWARD THROW DISTRIBUTION WITH
[MORE] MICRO-PRISMATIC 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	7727
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2126.344
Maximum Candela Angle	52.5H 57.5V
Maximum Candela (<90 Degrees Vertical)	2126.344
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	588.787 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L85-840-TFT-XXX-SDGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	537.8	N.A.	7.0
FM - Front-Medium (30-60)	2147.5	N.A.	27.8
FH - Front-High (60-80)	1364.1	N.A.	17.7
FVH - Front-Very High (80-90)	104.4	N.A.	1.4
BL - Back-Low (0-30)	520.9	N.A.	6.7
BM - Back-Medium (30-60)	2035.2	N.A.	26.3
BH - Back-High (60-80)	995.3	N.A.	12.9
BVH - Back-Very High (80-90)	21.6	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7726.8	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>10.0</u>	<u>15.0</u>	<u>20.0</u>	<u>25.0</u>	<u>30.0</u>	<u>35.0</u>	<u>40.0</u>	<u>45.0</u>
0.0	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371
2.5	1189.777	1186.726	1180.624	1174.523	1174.523	1174.523	1177.574	1171.472	1171.472	1168.422
5.0	1171.472	1168.422	1162.320	1156.219	1153.168	1153.168	1153.168	1150.117	1147.067	1150.117
7.5	1201.979	1195.878	1189.777	1180.624	1171.472	1168.422	1168.422	1162.320	1153.168	1150.117
10.0	1183.675	1177.574	1168.422	1156.219	1153.168	1159.269	1165.371	1168.422	1168.422	1171.472
12.5	1201.979	1192.827	1177.574	1171.472	1168.422	1177.574	1177.574	1174.523	1165.371	1168.422
15.0	1205.030	1198.929	1186.726	1189.777	1195.878	1205.030	1205.030	1205.030	1192.827	1189.777
17.5	1238.588	1232.486	1217.233	1220.284	1220.284	1226.385	1229.436	1232.486	1226.385	1232.486
20.0	1269.095	1256.892	1244.689	1247.740	1253.841	1256.892	1272.146	1272.146	1272.146	1275.196
22.5	1314.856	1305.703	1296.551	1296.551	1284.348	1293.501	1296.551	1311.805	1317.906	1314.856
25.0	1360.616	1351.464	1348.413	1345.363	1333.160	1339.261	1336.211	1345.363	1351.464	1357.566
27.5	1433.833	1427.732	1415.529	1403.326	1388.073	1381.971	1375.870	1397.225	1403.326	1391.123
30.0	1494.847	1488.746	1482.645	1470.442	1461.290	1439.935	1433.833	1442.985	1436.884	1439.935
32.5	1568.064	1571.115	1568.064	1549.760	1522.304	1507.050	1491.797	1494.847	1485.695	1479.594
35.0	1659.586	1659.586	1653.484	1635.180	1598.572	1583.318	1568.064	1552.811	1552.811	1540.608
37.5	1754.158	1741.955	1729.752	1717.549	1683.991	1662.636	1635.180	1635.180	1610.774	1607.724
40.0	1839.578	1833.476	1815.172	1812.121	1766.361	1751.107	1729.752	1714.498	1690.093	1687.042
42.5	1897.541	1900.592	1885.338	1897.541	1863.983	1854.831	1827.375	1802.969	1784.665	1763.310
45.0	1961.606	1970.758	1955.504	1970.758	1952.454	1955.504	1928.048	1900.592	1870.085	1867.034
47.5	2022.620	2031.772	2028.721	2034.823	2022.620	2025.671	1995.164	1986.012	1955.504	1958.555
50.0	2037.874	2053.127	2059.229	2056.178	2062.279	2062.279	2059.229	2040.924	2040.924	2019.569
52.5	2010.417	2028.721	2034.823	2040.924	2077.533	2077.533	2083.634	2071.431	2074.482	2074.482
55.0	1970.758	1986.012	1992.113	2013.468	2065.330	2065.330	2080.584	2092.786	2101.939	2111.091
57.5	1894.490	1909.744	1934.150	1976.859	2010.417	2022.620	2068.381	2083.634	2108.040	2111.091
60.0	1812.121	1824.324	1848.730	1894.490	1924.997	1970.758	2016.519	2053.127	2077.533	2089.736
62.5	1687.042	1714.498	1735.853	1778.563	1833.476	1879.237	1921.947	1964.657	2016.519	2028.721
65.0	1552.811	1574.166	1598.572	1647.383	1696.194	1745.006	1790.766	1836.527	1900.592	1924.997
67.5	1397.225	1403.326	1433.833	1476.543	1513.152	1558.912	1607.724	1662.636	1732.803	1760.259
70.0	1198.929	1198.929	1226.385	1266.044	1293.501	1339.261	1391.123	1446.036	1507.050	1549.760
72.5	976.227	976.227	1000.633	1040.292	1067.748	1107.407	1171.472	1201.979	1262.994	1302.653
75.0	756.576	756.576	784.032	823.691	851.148	881.655	942.669	979.278	1021.988	1049.444
77.5	558.280	558.280	582.685	619.294	643.700	671.156	719.967	750.474	777.931	805.387
80.0	384.389	381.339	402.694	430.150	448.454	475.911	515.570	530.823	549.128	570.483
82.5	234.905	231.854	250.158	262.361	283.716	295.919	323.375	332.527	344.730	356.933
85.0	112.876	109.826	122.028	125.079	140.333	143.383	161.688	170.840	170.840	176.941
87.5	30.507	30.507	33.558	33.558	39.659	36.609	45.761	48.811	48.811	51.862
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>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>60.0</u>	<u>65.0</u>	<u>70.0</u>	<u>75.0</u>	<u>80.0</u>	<u>85.0</u>	<u>90.0</u>
0.0	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371
2.5	1168.422	1168.422	1171.472	1174.523	1174.523	1171.472	1168.422	1165.371	1165.371	1162.320
5.0	1153.168	1156.219	1159.269	1165.371	1171.472	1171.472	1171.472	1168.422	1162.320	1156.219
7.5	1150.117	1150.117	1150.117	1153.168	1162.320	1168.422	1171.472	1171.472	1168.422	1162.320
10.0	1168.422	1162.320	1159.269	1150.117	1147.067	1153.168	1162.320	1165.371	1162.320	1153.168
12.5	1177.574	1177.574	1177.574	1165.371	1153.168	1156.219	1159.269	1171.472	1171.472	1165.371
15.0	1189.777	1192.827	1195.878	1208.081	1198.929	1192.827	1183.675	1192.827	1189.777	1177.574
17.5	1235.537	1229.436	1226.385	1223.334	1223.334	1211.131	1201.979	1205.030	1205.030	1195.878
20.0	1272.146	1269.095	1262.994	1247.740	1238.588	1238.588	1226.385	1226.385	1235.537	1229.436
22.5	1305.703	1296.551	1296.551	1293.501	1281.298	1281.298	1266.044	1259.943	1269.095	1266.044
25.0	1348.413	1345.363	1339.261	1339.261	1324.008	1317.906	1311.805	1302.653	1311.805	1314.856
27.5	1394.174	1391.123	1385.022	1372.819	1369.768	1363.667	1360.616	1366.718	1369.768	1369.768

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CANDELA TABULATION - (Cont.)

30.0	1436.884	1430.783	1421.630	1421.630	1415.529	1421.630	1421.630	1436.884	1439.935	1439.935
32.5	1470.442	1467.391	1467.391	1479.594	1485.695	1473.492	1482.645	1494.847	1494.847	1500.949
35.0	1537.557	1534.507	1528.405	1540.608	1537.557	1549.760	1561.963	1571.115	1571.115	1592.470
37.5	1601.622	1601.622	1601.622	1610.774	1610.774	1635.180	1647.383	1644.332	1653.484	1662.636
40.0	1680.941	1683.991	1687.042	1693.144	1693.144	1717.549	1732.803	1735.853	1751.107	1754.158
42.5	1778.563	1781.614	1778.563	1784.665	1787.715	1818.223	1821.273	1827.375	1827.375	1830.425
45.0	1863.983	1867.034	1863.983	1867.034	1882.287	1903.642	1903.642	1897.541	1897.541	1894.490
47.5	1949.403	1946.352	1943.302	1952.454	1955.504	1964.657	1958.555	1955.504	1943.302	1946.352
50.0	2022.620	2019.569	2019.569	2022.620	2019.569	2028.721	2016.519	1995.164	1979.910	1982.961
52.5	2071.431	2074.482	2074.482	2062.279	2059.229	2053.127	2031.772	2016.519	1992.113	1986.012
55.0	2104.989	2114.141	2111.091	2092.786	2074.482	2059.229	2025.671	2010.417	1979.910	1970.758
57.5	2120.243	2126.344	2120.243	2089.736	2065.330	2040.924	2001.265	1964.657	1937.200	1921.947
60.0	2101.939	2101.939	2098.888	2053.127	2031.772	1998.214	1946.352	1909.744	1857.882	1848.730
62.5	2053.127	2050.076	2040.924	2013.468	1964.657	1934.150	1876.186	1827.375	1778.563	1766.361
65.0	1949.403	1949.403	1943.302	1924.997	1863.983	1830.425	1781.614	1723.651	1677.890	1650.434
67.5	1781.614	1787.715	1790.766	1763.310	1723.651	1680.941	1632.129	1577.217	1543.659	1510.101
70.0	1571.115	1577.217	1580.267	1558.912	1525.355	1500.949	1446.036	1397.225	1360.616	1324.008
72.5	1330.109	1333.160	1333.160	1317.906	1290.450	1269.095	1226.385	1177.574	1137.914	1104.357
75.0	1067.748	1067.748	1079.951	1061.647	1049.444	1015.886	991.480	927.416	887.756	857.249
77.5	811.489	826.742	826.742	805.387	793.184	768.779	741.322	686.410	652.852	640.649
80.0	573.533	588.787	573.533	567.432	558.280	533.874	515.570	475.911	451.505	445.404
82.5	359.984	372.186	363.034	356.933	359.984	335.578	326.426	298.969	286.767	283.716
85.0	179.992	189.144	192.195	179.992	186.093	170.840	170.840	155.586	149.485	149.485
87.5	51.862	57.963	61.014	54.913	61.014	54.913	57.963	51.862	54.913	54.913
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>95.0</u>	<u>100.0</u>	<u>105.0</u>	<u>110.0</u>	<u>115.0</u>	<u>120.0</u>	<u>125.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
0.0	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371
2.5	1159.269	1156.219	1156.219	1156.219	1156.219	1156.219	1156.219	1156.219	1153.168	1153.168
5.0	1153.168	1147.067	1147.067	1147.067	1147.067	1153.168	1162.320	1165.371	1171.472	1174.523
7.5	1159.269	1153.168	1153.168	1156.219	1162.320	1171.472	1177.574	1171.472	1165.371	1162.320
10.0	1147.067	1147.067	1156.219	1165.371	1171.472	1168.422	1165.371	1156.219	1150.117	1150.117
12.5	1156.219	1162.320	1168.422	1168.422	1159.269	1153.168	1153.168	1150.117	1162.320	1168.422
15.0	1168.422	1177.574	1183.675	1177.574	1171.472	1165.371	1171.472	1174.523	1174.523	1168.422
17.5	1180.624	1183.675	1189.777	1183.675	1183.675	1195.878	1205.030	1205.030	1201.979	1198.929
20.0	1223.334	1214.182	1214.182	1211.131	1220.284	1217.233	1223.334	1226.385	1235.537	1232.486
22.5	1266.044	1259.943	1247.740	1244.689	1247.740	1247.740	1256.892	1256.892	1256.892	1253.841
25.0	1314.856	1305.703	1290.450	1284.348	1290.450	1290.450	1296.551	1290.450	1290.450	1281.298
27.5	1360.616	1351.464	1345.363	1342.312	1330.109	1336.211	1327.058	1324.008	1327.058	1317.906
30.0	1430.783	1421.630	1418.580	1397.225	1375.870	1375.870	1369.768	1363.667	1360.616	1345.363
32.5	1497.898	1491.797	1485.695	1467.391	1442.985	1424.681	1418.580	1409.428	1406.377	1385.022
35.0	1589.419	1574.166	1561.963	1540.608	1513.152	1485.695	1467.391	1455.188	1446.036	1424.681
37.5	1662.636	1653.484	1638.231	1622.977	1580.267	1549.760	1528.405	1507.050	1491.797	1473.492
40.0	1754.158	1751.107	1732.803	1699.245	1662.636	1635.180	1604.673	1571.115	1543.659	1534.507
42.5	1839.578	1836.527	1818.223	1802.969	1760.259	1720.600	1677.890	1656.535	1622.977	1613.825
45.0	1903.642	1900.592	1897.541	1876.186	1836.527	1809.070	1769.411	1741.955	1699.245	1699.245
47.5	1946.352	1946.352	1958.555	1943.302	1906.693	1879.237	1851.780	1824.324	1806.020	1787.715
50.0	1995.164	1989.062	1995.164	1998.214	1986.012	1949.403	1937.200	1924.997	1888.389	1879.237
52.5	2010.417	2010.417	2031.772	2050.076	2037.874	2019.569	2001.265	1995.164	1973.809	1952.454
55.0	1992.113	2016.519	2050.076	2062.279	2068.381	2065.330	2050.076	2040.924	2016.519	1995.164
57.5	1955.504	1986.012	2025.671	2050.076	2059.229	2071.431	2059.229	2050.076	2034.823	1995.164
60.0	1888.389	1915.845	1967.707	2007.367	2016.519	2037.874	2037.874	2019.569	1995.164	1958.555
62.5	1790.766	1833.476	1882.287	1918.896	1958.555	1961.606	1979.910	1961.606	1934.150	1900.592
65.0	1674.839	1720.600	1766.361	1799.918	1836.527	1854.831	1870.085	1854.831	1818.223	1784.665

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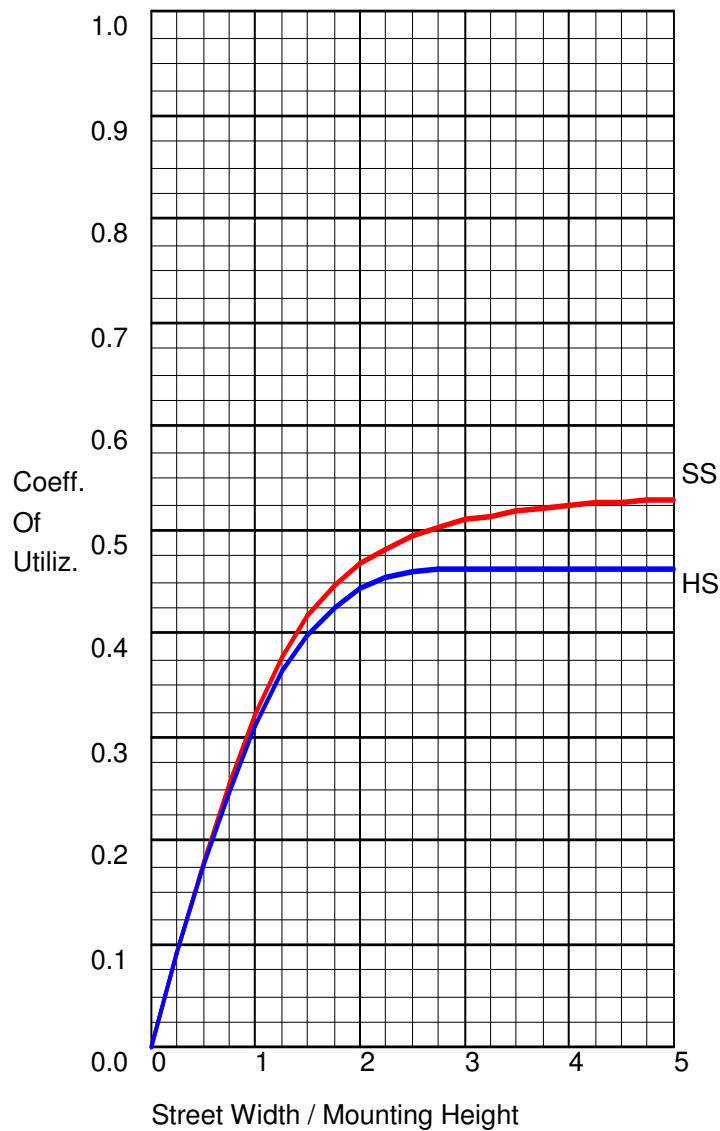
CANDELA TABULATION - (Cont.)

67.5	1531.456	1571.115	1610.774	1641.281	1677.890	1683.991	1690.093	1674.839	1638.231	1586.369
70.0	1345.363	1372.819	1421.630	1446.036	1482.645	1461.290	1470.442	1455.188	1397.225	1272.146
72.5	1125.712	1156.219	1189.777	1205.030	1232.486	1198.929	1192.827	1189.777	1031.140	530.823
75.0	872.503	906.061	936.568	957.923	948.771	759.627	704.714	665.055	167.789	15.254
77.5	643.700	668.105	695.562	692.511	524.722	326.426	201.347	18.304	6.101	3.051
80.0	451.505	466.758	482.012	347.781	67.116	18.304	6.101	3.051	3.051	0.000
82.5	286.767	295.919	295.919	131.180	9.152	3.051	3.051	3.051	0.000	0.000
85.0	152.535	152.535	118.978	18.304	3.051	0.000	0.000	0.000	0.000	0.000
87.5	54.913	48.811	9.152	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	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>145.0</u>	<u>150.0</u>	<u>155.0</u>	<u>160.0</u>	<u>165.0</u>	<u>170.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371	1165.371
2.5	1153.168	1159.269	1162.320	1168.422	1165.371	1162.320	1159.269	1156.219
5.0	1177.574	1180.624	1183.675	1186.726	1183.675	1177.574	1168.422	1168.422
7.5	1159.269	1159.269	1165.371	1165.371	1159.269	1150.117	1144.016	1137.914
10.0	1150.117	1153.168	1162.320	1168.422	1168.422	1159.269	1150.117	1144.016
12.5	1171.472	1168.422	1165.371	1165.371	1168.422	1159.269	1147.067	1140.965
15.0	1174.523	1177.574	1177.574	1177.574	1174.523	1168.422	1159.269	1153.168
17.5	1201.979	1198.929	1192.827	1186.726	1177.574	1177.574	1174.523	1168.422
20.0	1226.385	1217.233	1201.979	1205.030	1195.878	1195.878	1186.726	1183.675
22.5	1250.791	1235.537	1229.436	1232.486	1226.385	1226.385	1217.233	1217.233
25.0	1281.298	1272.146	1259.943	1250.791	1256.892	1262.994	1250.791	1253.841
27.5	1311.805	1299.602	1299.602	1293.501	1293.501	1293.501	1278.247	1284.348
30.0	1348.413	1339.261	1327.058	1320.957	1339.261	1354.515	1339.261	1354.515
32.5	1372.819	1381.971	1369.768	1372.819	1372.819	1388.073	1394.174	1415.529
35.0	1415.529	1418.580	1412.478	1430.783	1439.935	1461.290	1473.492	1479.594
37.5	1464.340	1464.340	1479.594	1491.797	1494.847	1522.304	1540.608	1543.659
40.0	1528.405	1522.304	1552.811	1571.115	1583.318	1604.673	1629.079	1626.028
42.5	1601.622	1595.521	1622.977	1644.332	1665.687	1699.245	1720.600	1720.600
45.0	1690.093	1683.991	1705.346	1738.904	1745.006	1766.361	1793.817	1802.969
47.5	1784.665	1772.462	1793.817	1818.223	1827.375	1839.578	1867.034	1873.135
50.0	1876.186	1860.932	1870.085	1891.440	1900.592	1909.744	1918.896	1921.947
52.5	1943.302	1924.997	1915.845	1921.947	1924.997	1921.947	1918.896	1918.896
55.0	1958.555	1928.048	1906.693	1900.592	1894.490	1885.338	1870.085	1867.034
57.5	1934.150	1909.744	1873.135	1848.730	1830.425	1812.121	1793.817	1793.817
60.0	1897.541	1854.831	1818.223	1787.715	1748.056	1720.600	1683.991	1693.144
62.5	1836.527	1781.614	1729.752	1683.991	1626.028	1583.318	1537.557	1537.557
65.0	1717.549	1641.281	1558.912	1476.543	1351.464	1269.095	1156.219	1153.168
67.5	1494.847	1339.261	1107.407	835.894	515.570	366.085	183.043	183.043
70.0	967.075	539.975	128.130	27.456	15.254	12.203	12.203	12.203
72.5	76.268	18.304	9.152	9.152	6.101	6.101	6.101	6.101
75.0	9.152	6.101	3.051	3.051	3.051	3.051	3.051	3.051
77.5	3.051	3.051	3.051	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	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	0.000
85.0	0.000	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	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

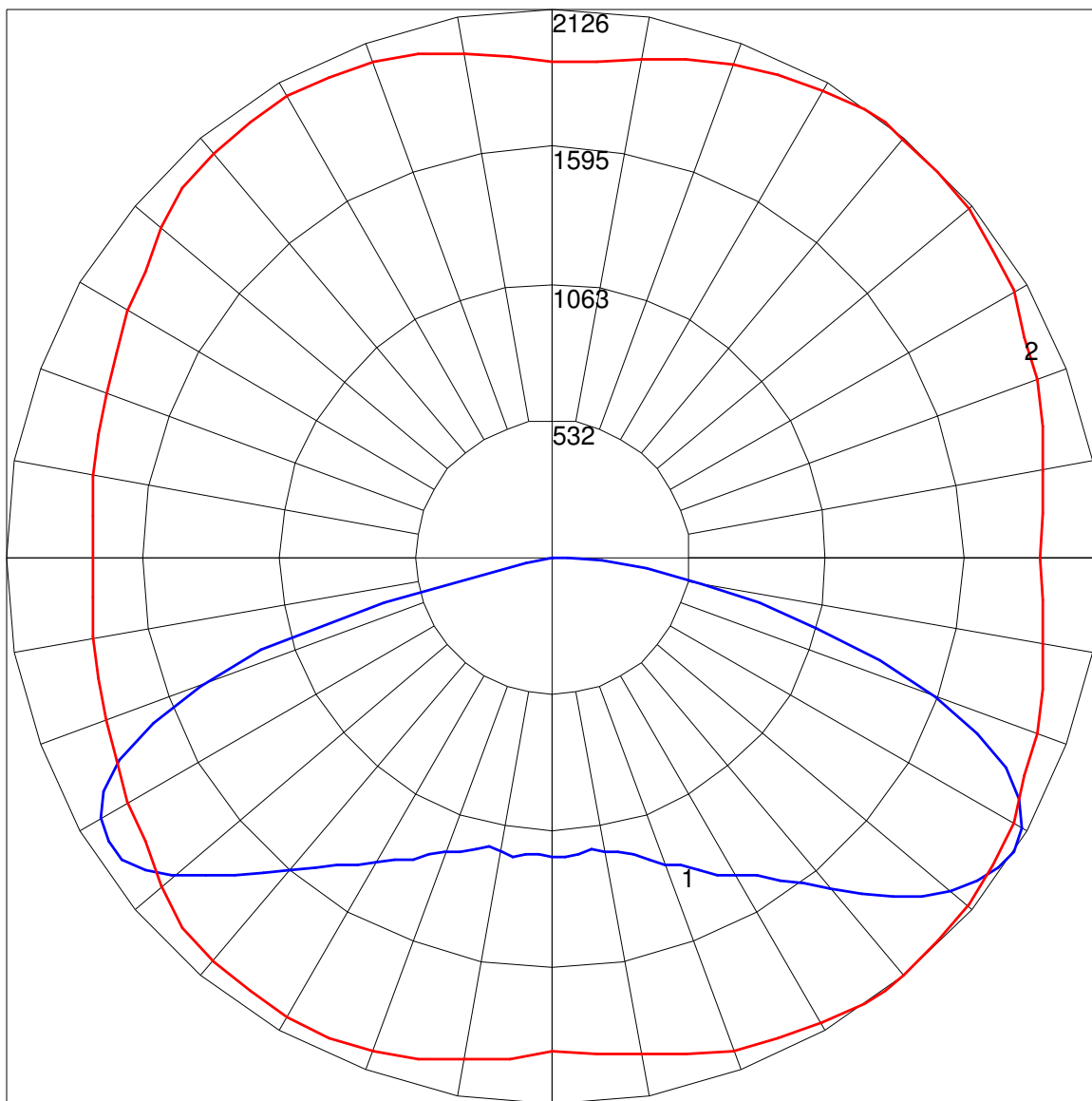
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

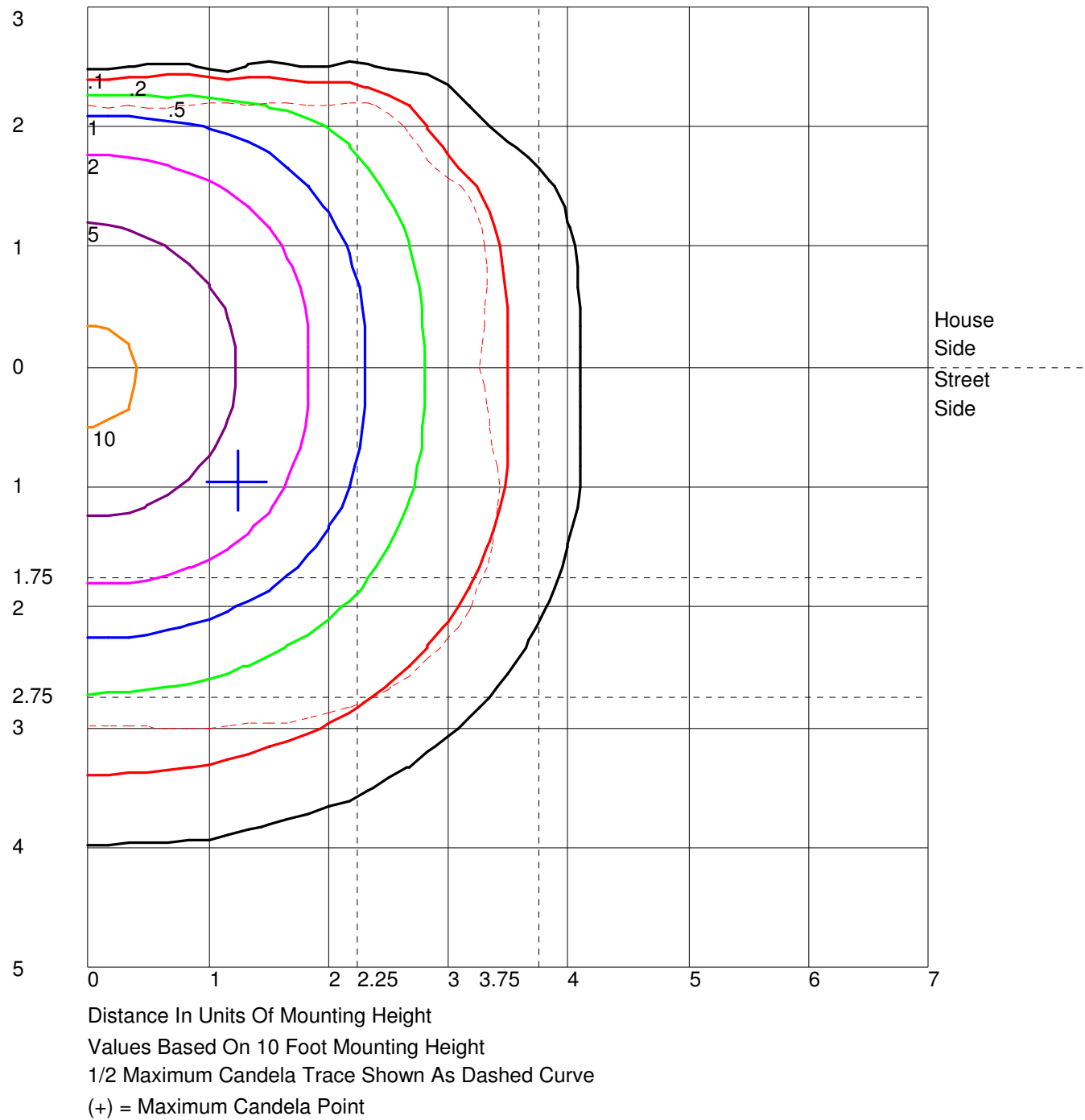
	Lumens	Percent Of Luminaire
Downward Street Side	4153.8	53.8
Downward House Side	3573.0	46.2
Downward Total	7726.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7726.8	100.0

POLAR GRAPH

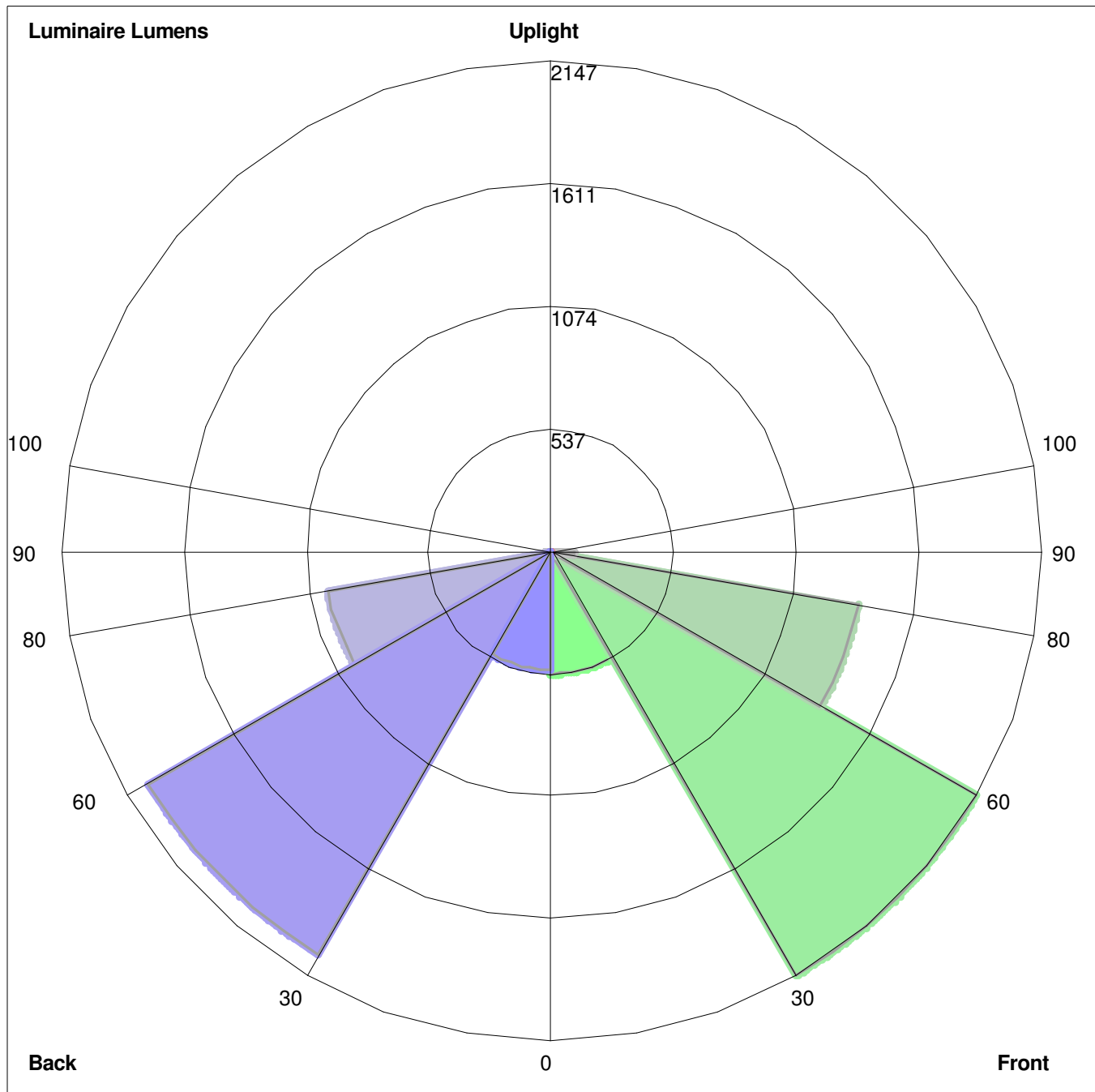


Maximum Candela = 2126.344 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=537.8, Medium=2147.5, High=1364.1, Very High=104.4
Back: Low=520.9, Medium=2035.2, High=995.3, Very High=21.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2