



IES ROAD REPORT
PHOTOMETRIC FILENAME : MCOWP-43-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2861
[TESTLAB] TUV SUD America
[TESTDATE] 1/19/2016 2:25:50 PM
[MANUFAC]LSI INDUSTRIES, INC
[ISSUEDATE] 5/1/2017
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[LUMCAT] MCOWP-43-45

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5104
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	41.49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1886.14
Maximum Candela Angle	112.5H 5V
Maximum Candela (<90 Degrees Vertical)	1886.14
Maximum Candela Angle (<90 Degrees Vertical)	112.5H 5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	99.88 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	736.6	N.A.	14.4
FM - Front-Medium (30-60)	1355.1	N.A.	26.5
FH - Front-High (60-80)	365.4	N.A.	7.2
FVH - Front-Very High (80-90)	5.2	N.A.	0.1
BL - Back-Low (0-30)	745.9	N.A.	14.6
BM - Back-Medium (30-60)	1453.6	N.A.	28.5
BH - Back-High (60-80)	432.3	N.A.	8.5
BVH - Back-Very High (80-90)	10.1	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5104.2	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1878.89	1878.89	1878.89	1878.89	1878.89	1878.89	1878.89	1878.89	1878.89	1878.89
2.5	1875.16	1875.74	1878.09	1879.98	1881.95	1883.99	1883.14	1881.43	1882.28	1881.16
5.0	1869.82	1871.96	1875.79	1879.08	1884.32	1886.14	1882.71	1877.63	1877.38	1878.41
7.5	1859.27	1863.31	1868.89	1873.96	1880.70	1881.79	1878.13	1873.60	1872.33	1872.75
10.0	1844.38	1849.90	1857.70	1864.12	1870.74	1872.34	1869.84	1865.09	1864.78	1864.24
12.5	1826.47	1833.09	1842.38	1849.13	1856.37	1858.59	1856.70	1851.22	1852.31	1850.44
15.0	1805.30	1812.67	1823.52	1831.03	1838.98	1841.49	1839.35	1834.24	1835.78	1831.56
17.5	1779.84	1790.21	1801.88	1810.84	1817.99	1821.88	1818.93	1813.96	1816.42	1809.93
20.0	1750.19	1764.33	1776.08	1787.34	1794.49	1799.59	1796.12	1791.15	1796.19	1785.51
22.5	1716.80	1732.98	1746.21	1759.34	1767.35	1773.88	1770.27	1764.55	1772.30	1758.45
25.0	1681.81	1697.49	1713.55	1726.40	1736.60	1742.91	1740.42	1735.05	1744.05	1727.33
27.5	1642.25	1659.40	1677.61	1689.56	1702.63	1706.82	1705.89	1699.78	1711.85	1692.19
30.0	1598.42	1617.53	1638.24	1650.44	1664.94	1668.23	1667.35	1659.66	1673.81	1653.22
32.5	1548.56	1570.75	1594.00	1607.89	1622.01	1626.80	1625.24	1617.87	1630.79	1610.37
35.0	1484.93	1514.82	1544.72	1561.94	1574.90	1581.16	1579.74	1574.01	1585.79	1564.85
37.5	1405.29	1445.18	1491.70	1512.06	1524.71	1531.59	1531.10	1524.32	1537.83	1517.77
40.0	1320.19	1364.04	1433.30	1456.23	1471.57	1477.70	1478.82	1471.12	1485.92	1466.04
42.5	1228.42	1275.07	1366.01	1397.77	1413.25	1420.45	1423.17	1413.97	1431.65	1410.05
45.0	1134.63	1183.33	1288.45	1334.77	1345.22	1359.72	1364.53	1353.60	1372.01	1350.73
47.5	1048.61	1090.64	1200.81	1261.50	1271.01	1290.32	1299.77	1287.48	1306.04	1285.73
50.0	969.90	1002.00	1104.75	1178.39	1185.18	1208.97	1227.40	1210.17	1227.37	1213.61
52.5	886.73	917.11	1004.83	1085.41	1089.32	1117.28	1148.48	1113.44	1126.40	1125.31
55.0	810.78	835.00	897.35	988.12	998.48	1023.22	1061.26	995.10	1006.43	1013.66
57.5	736.34	758.85	791.31	888.10	903.97	927.13	957.88	868.25	877.72	891.13
60.0	659.19	680.08	694.43	790.42	812.75	834.90	835.10	761.50	774.75	775.53
62.5	579.11	599.39	602.51	691.07	724.65	746.87	707.87	673.42	695.90	684.06
65.0	500.32	517.82	514.87	587.76	633.78	657.41	591.28	588.46	617.36	603.10
67.5	402.46	429.24	431.87	484.76	539.60	564.95	491.84	502.26	535.26	521.46
70.0	297.29	325.73	351.28	384.75	439.55	466.67	405.15	412.41	453.23	439.51
72.5	201.15	223.30	267.95	289.41	334.91	357.88	323.58	313.25	361.46	350.43
75.0	100.05	121.00	178.57	199.78	232.75	246.38	239.03	208.90	249.04	249.69
77.5	30.57	43.64	92.49	119.75	141.03	150.65	153.77	122.33	160.24	158.90
80.0	5.58	9.79	32.17	57.39	67.29	79.36	79.88	48.76	69.23	81.52
82.5	0.52	1.29	6.32	17.61	19.93	31.14	26.94	10.38	15.94	24.33
85.0	0.01	0.08	0.51	2.30	2.31	7.20	4.44	0.82	1.16	3.11
87.5	0.00	0.00	0.00	0.02	0.00	0.69	0.21	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

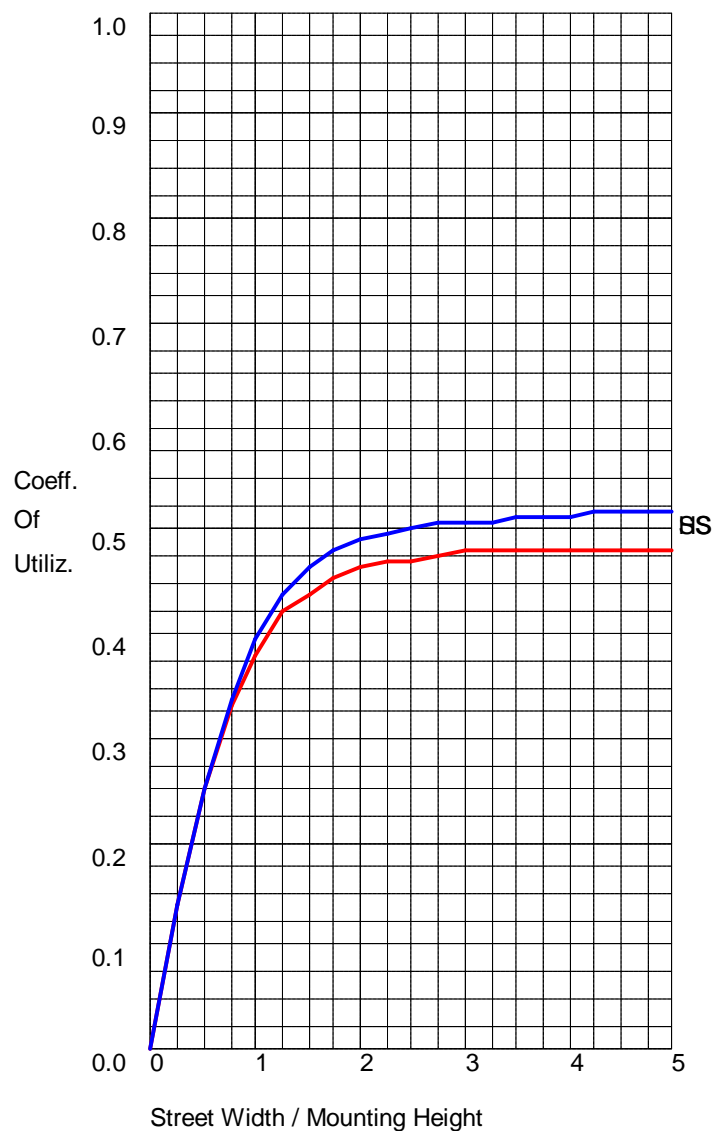
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1878.89	1878.89	1878.89	1878.89	1878.89	1878.89	1878.89
2.5	1880.67	1879.51	1877.98	1875.57	1874.58	1874.69	1875.16
5.0	1875.69	1872.57	1873.12	1869.40	1868.16	1868.63	1869.82
7.5	1869.92	1865.36	1863.20	1859.62	1858.35	1859.36	1859.27
10.0	1860.38	1853.31	1848.88	1845.05	1843.99	1845.37	1844.38
12.5	1844.96	1836.16	1830.58	1826.68	1825.83	1827.90	1826.47
15.0	1824.04	1815.41	1808.14	1804.51	1803.61	1807.05	1805.30
17.5	1799.77	1791.27	1783.00	1779.30	1778.08	1782.50	1779.84
20.0	1773.19	1763.70	1756.52	1751.80	1750.04	1755.45	1750.19
22.5	1743.86	1732.82	1724.14	1719.79	1718.42	1725.00	1716.80
25.0	1711.40	1698.36	1686.34	1683.42	1683.37	1690.07	1681.81
27.5	1675.69	1660.35	1646.94	1643.80	1644.74	1650.26	1642.25

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CANDELA TABULATION - (Cont.)

30.0	1635.21	1618.76	1606.39	1601.29	1602.57	1607.66	1598.42
32.5	1590.32	1574.53	1563.12	1556.50	1557.54	1561.85	1548.56
35.0	1543.57	1527.61	1515.61	1507.55	1509.22	1511.26	1484.93
37.5	1494.51	1477.09	1463.05	1454.45	1456.80	1450.30	1405.29
40.0	1442.74	1422.67	1405.49	1398.01	1399.12	1376.35	1320.19
42.5	1387.41	1364.16	1344.73	1337.98	1334.89	1292.70	1228.42
45.0	1326.86	1301.29	1276.02	1271.15	1263.04	1202.45	1134.63
47.5	1260.99	1229.77	1192.73	1193.10	1182.34	1110.78	1048.61
50.0	1190.98	1147.40	1103.48	1105.96	1092.88	1019.66	969.90
52.5	1116.65	1057.60	1018.57	1016.22	993.51	930.68	886.73
55.0	1035.30	964.95	932.46	926.07	881.07	843.38	810.78
57.5	938.36	872.59	842.79	836.00	769.90	766.93	736.34
60.0	818.20	788.67	762.31	751.38	672.06	690.40	659.19
62.5	692.10	707.40	681.50	668.45	587.82	612.88	579.11
65.0	580.92	624.13	595.92	579.29	510.00	533.65	500.32
67.5	486.63	537.92	510.22	482.77	432.12	450.02	402.46
70.0	405.64	445.67	418.07	383.35	355.13	354.78	297.29
72.5	327.60	343.15	321.32	287.87	278.71	255.14	201.15
75.0	250.83	242.96	236.33	205.22	199.99	169.27	100.05
77.5	172.36	163.16	158.22	136.36	124.09	87.13	30.57
80.0	99.88	98.01	86.18	76.07	61.38	29.43	5.58
82.5	44.56	47.02	35.89	32.47	19.86	5.76	0.52
85.0	10.33	15.10	8.84	8.49	2.81	0.49	0.01
87.5	0.41	2.21	0.47	0.61	0.04	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

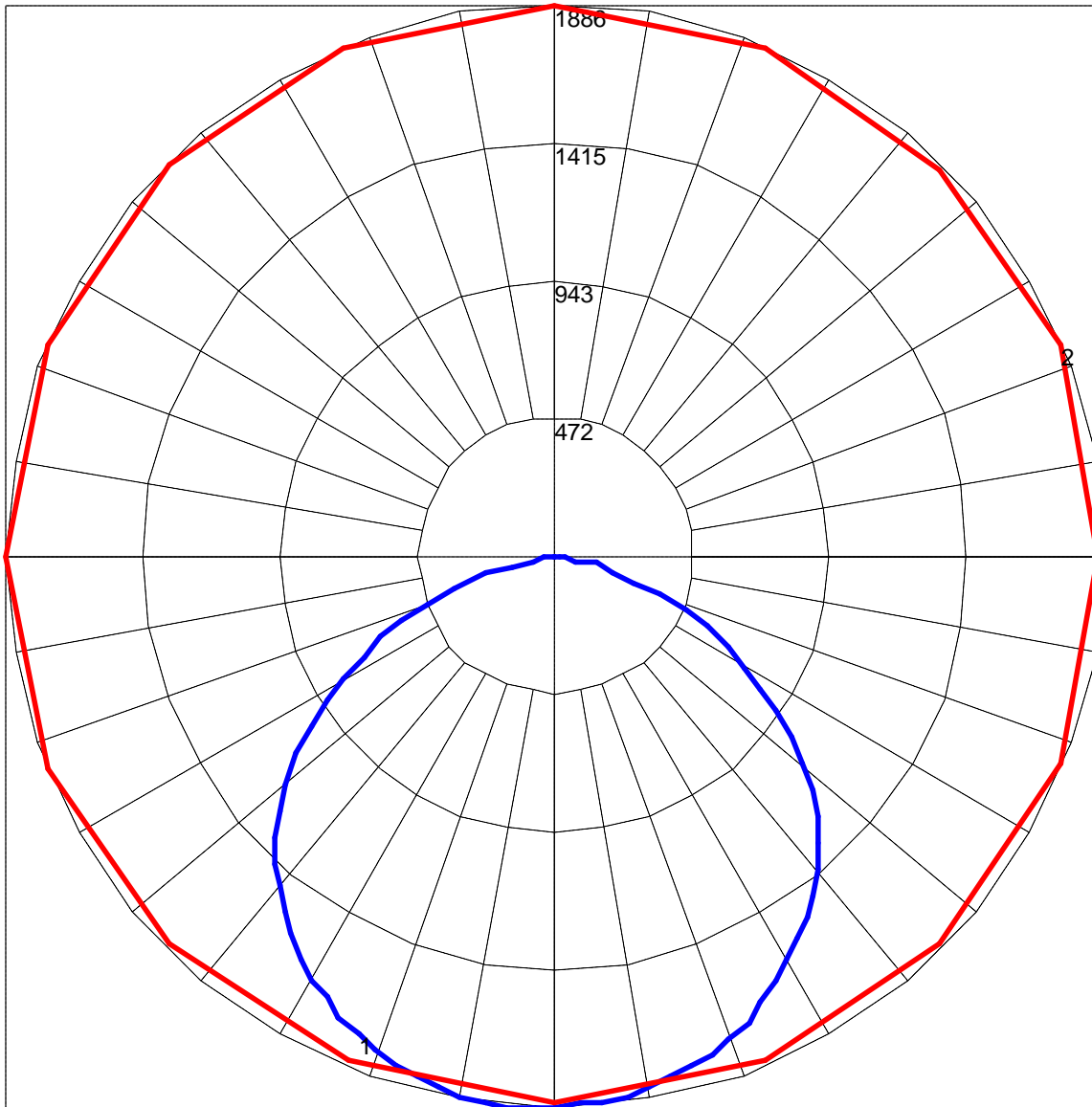
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

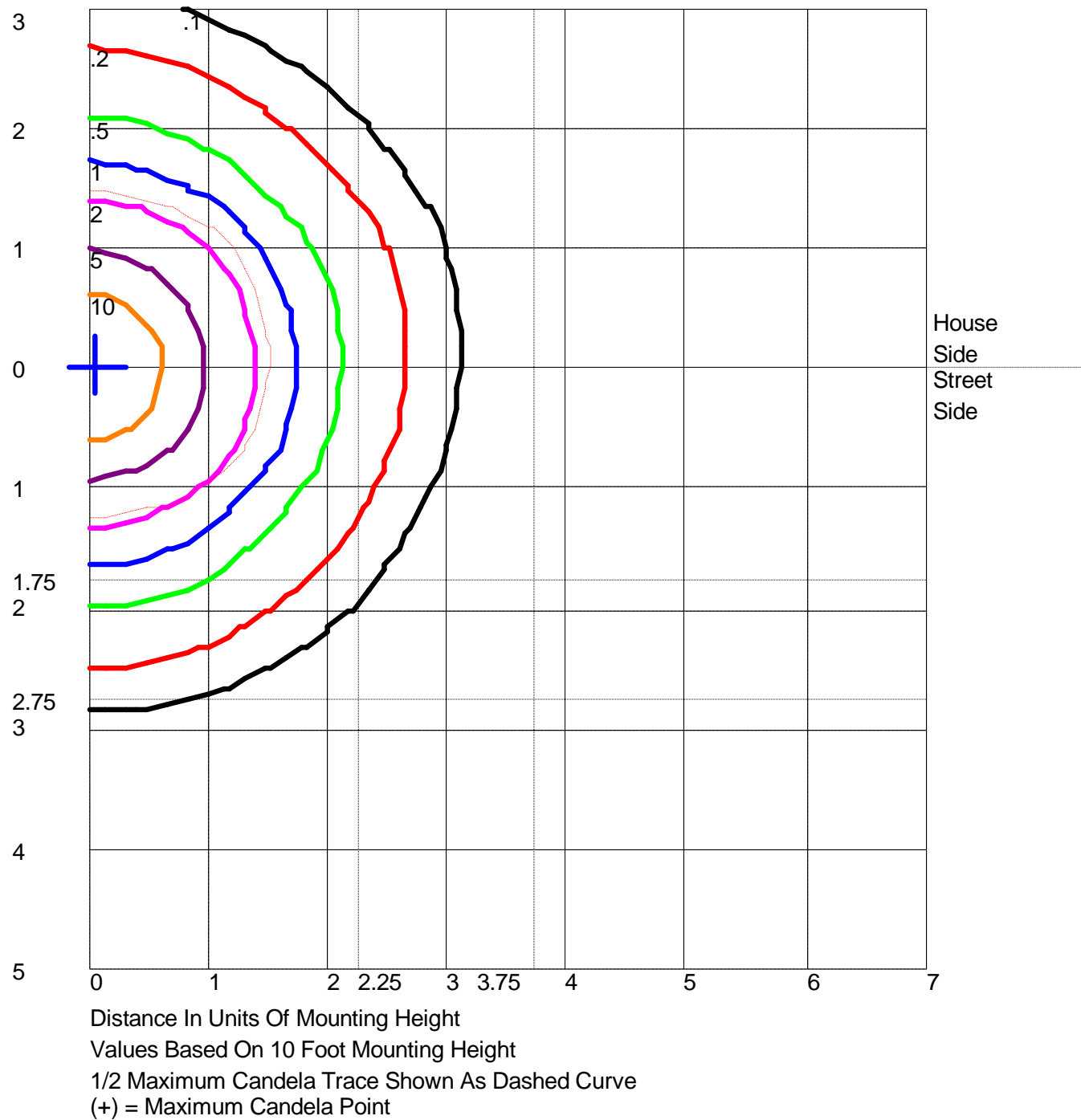
	Lumens	Percent Of Luminaire
Downward Street Side	2462.4	48.2
Downward House Side	2641.9	51.8
Downward Total	5104.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5104.3	100.0

POLAR GRAPH

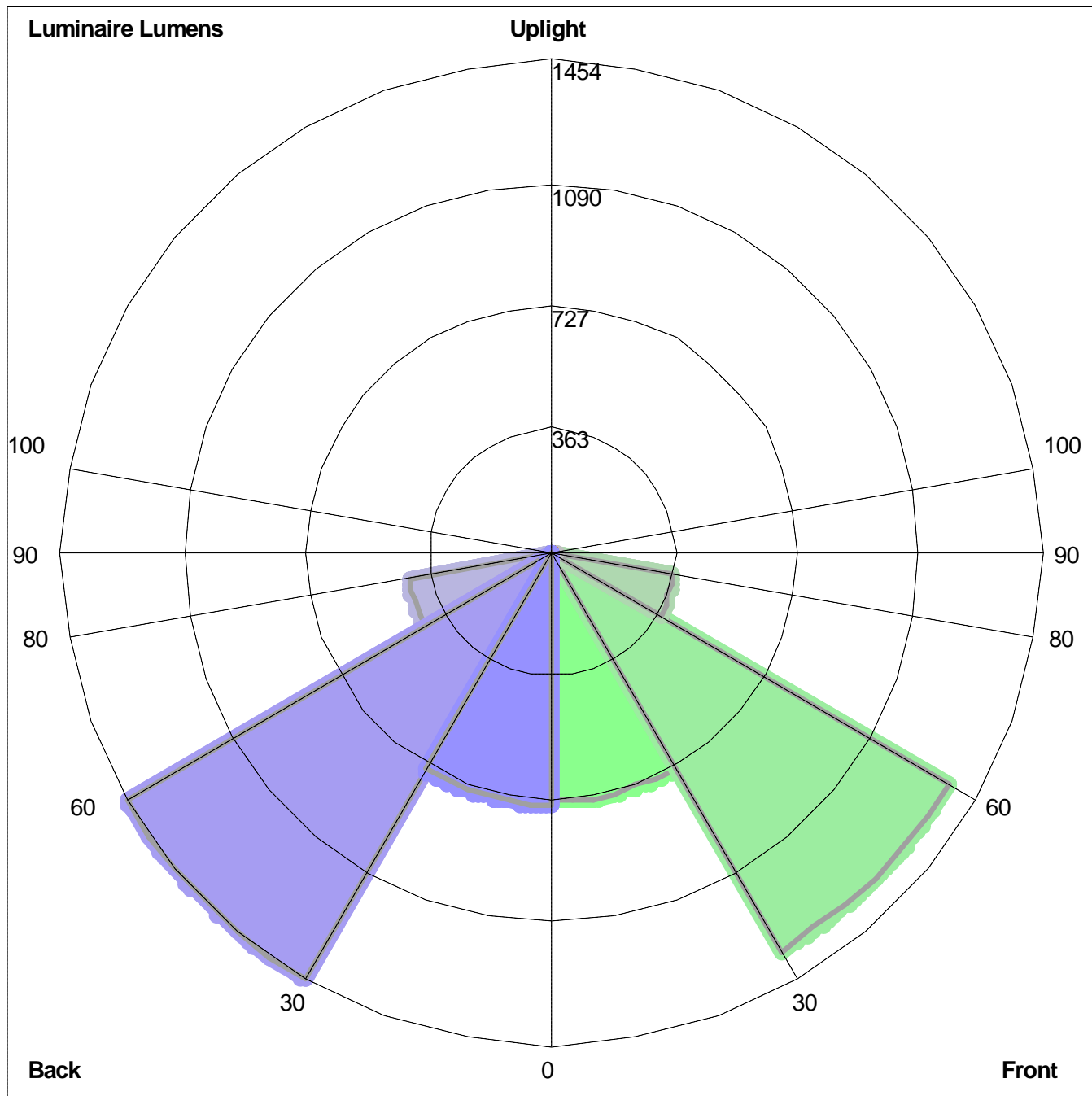


Maximum Candela = 1886.14 Located At Horizontal Angle = 112.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=736.6, Medium=1355.1, High=365.4, Very High=5.2
Back: Low=745.9, Medium=1453.6, High=432.3, Very High=10.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1