



IES ROAD REPORT

PHOTOMETRIC FILENAME : TXWP-07L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3758

[TESTLAB] TUV SUD America

[ISSUE DATE] 8/10/2020

[TEST DATE] 8/22/2019 1:05:36 PM

[MANUFAC] LSI INDUSTRIES, INC.

[OTHER] TEST PROCEDURE: IESNA

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[LUMCAT] TXWP-07L-30

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6011
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	55
Ballast Factor	1.00
Upward Waste Light Ratio	0.20
Maximum Candela	2071.12
Maximum Candela Angle	360H 60V
Maximum Candela (<90 Degrees Vertical)	2071.12
Maximum Candela Angle (<90 Degrees Vertical)	360H 60V
Maximum Candela At 90 Degrees Vertical	1519.6 (25.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1803.21 (30.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	518.1	N.A.	8.6
FM - Front-Medium (30-60)	1606.1	N.A.	26.7
FH - Front-High (60-80)	1307.6	N.A.	21.8
FVH - Front-Very High (80-90)	558.4	N.A.	9.3
BL - Back-Low (0-30)	279.0	N.A.	4.6
BM - Back-Medium (30-60)	398.8	N.A.	6.6
BH - Back-High (60-80)	113.7	N.A.	1.9
BVH - Back-Very High (80-90)	16.5	N.A.	0.3
UL - Uplight-Low (90-100)	451.1	N.A.	7.5
UH - Uplight-High (100-180)	761.9	N.A.	12.7
Total	6011.2	N.A.	100.0
BUG Rating	B1-U4-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	934.92	934.92	934.92	934.92	934.92	934.92	934.92	934.92	934.92	934.92
2.5	1018.03	988.64	973.13	952.88	933.10	909.68	891.40	880.90	894.28	880.90
5.0	1084.87	1050.32	1019.00	975.74	930.17	886.86	853.29	833.34	841.76	833.34
7.5	1155.68	1112.78	1064.46	998.62	925.63	863.66	816.57	788.80	792.19	788.80
10.0	1228.60	1177.38	1110.78	1018.62	920.06	839.22	780.40	744.08	743.61	744.08
12.5	1301.75	1242.34	1155.46	1036.96	911.82	813.88	743.42	698.48	694.45	698.48
15.0	1371.77	1306.66	1201.60	1054.14	901.79	787.29	704.92	650.01	643.26	650.01
17.5	1439.40	1369.21	1246.73	1069.42	889.12	758.16	664.90	600.84	588.13	600.84
20.0	1498.98	1426.30	1290.92	1084.06	874.34	729.36	623.35	559.70	550.22	559.70
22.5	1550.56	1477.79	1331.24	1096.64	858.06	697.90	580.96	528.17	517.65	528.17
25.0	1593.90	1521.80	1366.16	1107.52	838.74	665.46	545.56	498.04	487.17	498.04
27.5	1624.14	1553.38	1396.76	1115.56	818.04	631.19	515.00	468.30	456.87	468.30
30.0	1658.37	1577.22	1421.50	1121.06	796.38	595.60	486.61	439.66	426.77	439.66
32.5	1700.40	1602.49	1437.96	1124.75	772.93	559.23	458.58	410.26	395.67	410.26
35.0	1749.41	1633.40	1445.98	1125.53	748.86	521.62	430.98	381.02	362.65	381.02
37.5	1801.24	1670.50	1450.06	1123.36	724.05	490.13	402.94	350.54	328.18	350.54
40.0	1855.94	1710.22	1455.54	1117.88	698.18	458.17	375.15	316.94	294.74	316.94
42.5	1906.07	1749.77	1462.45	1109.83	671.45	425.90	347.88	285.50	269.99	285.50
45.0	1950.43	1785.87	1469.74	1096.89	643.34	396.62	319.82	258.20	247.15	258.20
47.5	1985.14	1816.61	1476.94	1079.46	615.74	369.46	291.47	234.93	227.91	234.93
50.0	2015.43	1840.57	1481.85	1057.55	586.78	342.52	263.54	213.03	210.04	213.03
52.5	2036.19	1857.95	1483.20	1031.61	556.40	315.90	234.86	193.79	192.49	193.79
55.0	2052.50	1869.47	1480.96	1003.14	525.08	289.17	208.29	173.86	168.42	173.86
57.5	2064.15	1875.98	1474.28	972.92	492.70	263.50	184.02	152.11	143.21	152.11
60.0	2071.12	1878.62	1464.92	943.10	459.28	238.12	160.60	128.61	118.48	128.61
62.5	2070.36	1876.06	1452.74	912.60	424.16	213.36	139.39	103.43	93.44	103.43
65.0	2058.30	1865.08	1435.70	880.88	387.30	189.25	119.48	81.77	78.83	81.77
67.5	2034.13	1844.03	1412.48	848.70	349.92	165.59	100.90	62.15	58.93	62.15
70.0	1998.68	1813.39	1383.69	814.66	312.06	142.84	81.07	41.56	36.11	41.56
72.5	1956.36	1772.75	1347.58	777.90	272.75	120.84	60.62	16.31	4.30	16.31
75.0	1907.00	1727.56	1307.48	738.53	234.56	101.38	39.92	1.20	0.00	1.20
77.5	1855.19	1679.46	1263.38	698.28	197.44	83.39	24.82	0.44	0.00	0.44
80.0	1803.21	1629.64	1217.12	657.55	165.38	67.10	18.27	0.14	0.00	0.14
82.5	1746.09	1576.70	1169.16	616.96	136.86	55.16	15.68	0.00	0.00	0.00
85.0	1679.82	1516.84	1117.58	576.48	112.02	47.47	13.28	0.00	0.00	0.00
87.5	1602.94	1449.40	1061.71	533.25	92.84	42.65	11.87	0.00	0.00	0.00
90.0	1519.60	1375.84	1003.14	490.42	80.16	38.48	10.10	0.00	0.00	0.00
92.5	1438.88	1301.96	943.78	449.73	71.57	35.26	8.78	0.02	0.00	0.02
95.0	1357.08	1226.97	883.82	409.92	64.50	31.99	7.82	0.00	0.00	0.00
97.5	1275.53	1153.80	824.35	372.44	57.99	28.96	6.30	0.00	0.00	0.00
100.0	1193.55	1077.62	764.54	337.43	52.84	26.12	5.22	0.00	0.00	0.00
102.5	1110.59	1003.04	706.60	304.90	48.82	23.75	4.62	0.00	0.00	0.00
105.0	1026.18	930.03	650.83	274.64	45.08	21.84	3.93	0.00	0.00	0.00
107.5	948.58	858.56	597.82	246.63	41.54	19.78	3.42	0.00	0.00	0.00
110.0	873.17	792.90	547.06	221.22	38.36	17.93	2.88	0.00	0.00	0.00
112.5	801.34	727.48	500.40	198.30	35.14	16.19	2.54	0.00	0.00	0.00
115.0	730.85	665.18	456.60	177.02	32.10	14.44	2.02	0.00	0.00	0.00
117.5	663.90	604.20	416.16	156.50	28.92	12.93	1.68	0.00	0.08	0.00
120.0	601.58	546.46	375.73	136.26	26.06	11.63	1.54	0.04	0.06	0.04
122.5	542.81	493.54	336.40	114.02	23.13	10.44	1.30	0.14	0.58	0.14
125.0	488.62	444.81	297.77	93.06	20.42	8.86	1.16	0.20	0.41	0.20
127.5	438.95	399.32	263.59	73.14	17.46	7.64	0.91	0.09	0.56	0.09
130.0	391.74	355.73	231.70	56.10	13.74	6.64	0.82	0.38	0.64	0.38

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PHOTOMETRIC FILENAME : TXWP-07L-30.IES

CANDELA TABULATION - (Cont.)

132.5	349.62	316.18	201.82	42.36	10.18	5.65	0.78	0.70	0.94	0.70
135.0	308.80	279.05	175.13	30.05	6.82	4.77	0.68	0.83	1.34	0.83
137.5	271.26	244.15	148.98	19.50	4.71	3.92	0.60	1.16	1.61	1.16
140.0	236.09	212.60	123.82	13.63	3.49	3.06	0.78	1.12	1.65	1.12
142.5	203.75	182.82	100.14	10.71	2.84	2.50	1.09	1.50	1.39	1.50
145.0	177.35	157.78	78.28	8.29	2.28	1.84	1.06	1.72	1.86	1.72
147.5	156.05	136.00	52.64	6.10	1.74	1.68	1.38	1.66	1.93	1.66
150.0	133.12	113.24	28.61	4.64	1.36	1.36	1.25	1.75	1.79	1.75
152.5	108.17	87.63	9.20	3.15	0.95	1.16	1.36	1.73	1.99	1.73
155.0	76.21	49.26	1.79	1.92	0.93	1.35	1.45	1.68	1.81	1.68
157.5	18.53	11.39	1.01	1.37	0.82	1.25	1.40	1.88	1.77	1.88
160.0	0.30	0.40	0.73	1.01	0.99	1.35	1.58	1.74	1.81	1.74
162.5	0.39	0.32	0.70	0.88	0.88	1.28	1.58	1.84	1.68	1.84
165.0	0.49	0.50	0.59	1.01	1.22	1.23	1.56	1.80	1.75	1.80
167.5	0.47	0.64	0.92	0.84	1.29	1.34	1.46	1.77	1.58	1.77
170.0	0.65	0.76	0.92	1.27	1.46	1.27	1.79	1.74	1.55	1.74
172.5	0.80	1.04	1.07	1.38	1.54	1.55	1.50	1.78	1.81	1.78
175.0	1.02	1.19	1.38	1.59	1.35	1.89	1.66	1.78	1.76	1.78
177.5	1.37	1.33	1.52	1.54	1.47	1.53	1.56	1.44	1.84	1.44
180.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Vert. Angles **Horizontal Angles**

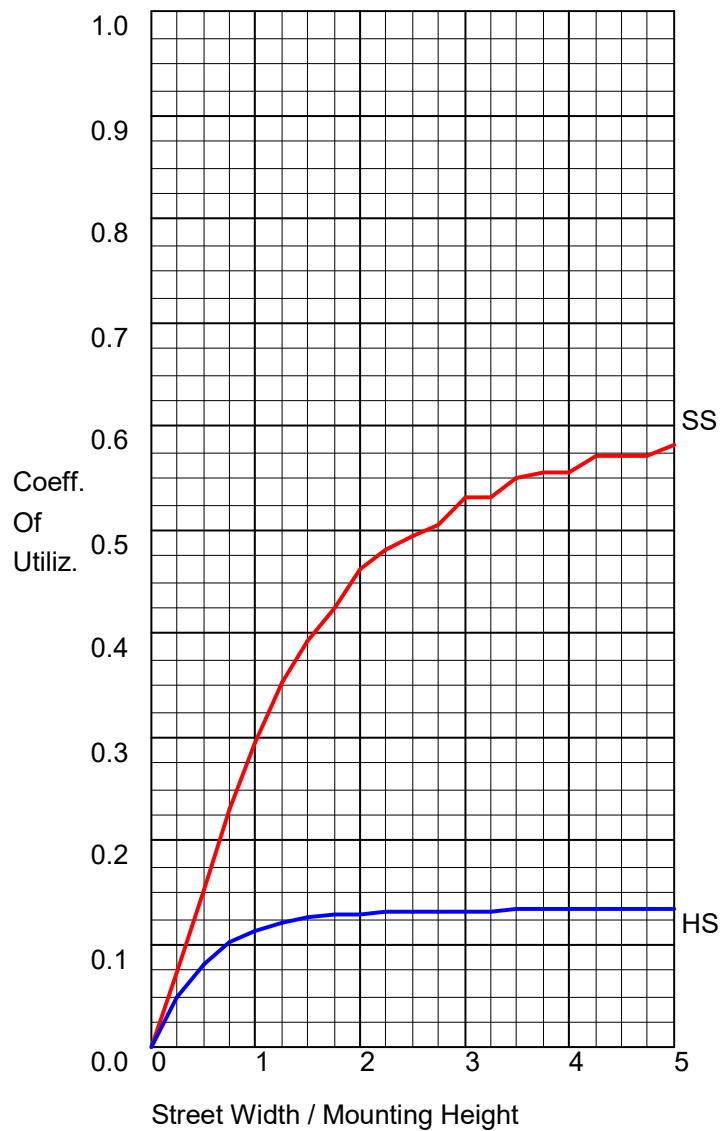
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	934.92	934.92	934.92	934.92	934.92	934.92	934.92
2.5	891.40	909.68	933.10	952.88	973.13	988.64	1018.03
5.0	853.29	886.86	930.17	975.74	1019.00	1050.32	1084.87
7.5	816.57	863.66	925.63	998.62	1064.46	1112.78	1155.68
10.0	780.40	839.22	920.06	1018.62	1110.78	1177.38	1228.60
12.5	743.42	813.88	911.82	1036.96	1155.46	1242.34	1301.75
15.0	704.92	787.29	901.79	1054.14	1201.60	1306.66	1371.77
17.5	664.90	758.16	889.12	1069.42	1246.73	1369.21	1439.40
20.0	623.35	729.36	874.34	1084.06	1290.92	1426.30	1498.98
22.5	580.96	697.90	858.06	1096.64	1331.24	1477.79	1550.56
25.0	545.56	665.46	838.74	1107.52	1366.16	1521.80	1593.90
27.5	515.00	631.19	818.04	1115.56	1396.76	1553.38	1624.14
30.0	486.61	595.60	796.38	1121.06	1421.50	1577.22	1658.37
32.5	458.58	559.23	772.93	1124.75	1437.96	1602.49	1700.40
35.0	430.98	521.62	748.86	1125.53	1445.98	1633.40	1749.41
37.5	402.94	490.13	724.05	1123.36	1450.06	1670.50	1801.24
40.0	375.15	458.17	698.18	1117.88	1455.54	1710.22	1855.94
42.5	347.88	425.90	671.45	1109.83	1462.45	1749.77	1906.07
45.0	319.82	396.62	643.34	1096.89	1469.74	1785.87	1950.43
47.5	291.47	369.46	615.74	1079.46	1476.94	1816.61	1985.14
50.0	263.54	342.52	586.78	1057.55	1481.85	1840.57	2015.43
52.5	234.86	315.90	556.40	1031.61	1483.20	1857.95	2036.19
55.0	208.29	289.17	525.08	1003.14	1480.96	1869.47	2052.50
57.5	184.02	263.50	492.70	972.92	1474.28	1875.98	2064.15
60.0	160.60	238.12	459.28	943.10	1464.92	1878.62	2071.12
62.5	139.39	213.36	424.16	912.60	1452.74	1876.06	2070.36
65.0	119.48	189.25	387.30	880.88	1435.70	1865.08	2058.30
67.5	100.90	165.59	349.92	848.70	1412.48	1844.03	2034.13
70.0	81.07	142.84	312.06	814.66	1383.69	1813.39	1998.68
72.5	60.62	120.84	272.75	777.90	1347.58	1772.75	1956.36
75.0	39.92	101.38	234.56	738.53	1307.48	1727.56	1907.00
77.5	24.82	83.39	197.44	698.28	1263.38	1679.46	1855.19

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CANDELA TABULATION - (Cont.)

80.0	18.27	67.10	165.38	657.55	1217.12	1629.64	1803.21
82.5	15.68	55.16	136.86	616.96	1169.16	1576.70	1746.09
85.0	13.28	47.47	112.02	576.48	1117.58	1516.84	1679.82
87.5	11.87	42.65	92.84	533.25	1061.71	1449.40	1602.94
90.0	10.10	38.48	80.16	490.42	1003.14	1375.84	1519.60
92.5	8.78	35.26	71.57	449.73	943.78	1301.96	1438.88
95.0	7.82	31.99	64.50	409.92	883.82	1226.97	1357.08
97.5	6.30	28.96	57.99	372.44	824.35	1153.80	1275.53
100.0	5.22	26.12	52.84	337.43	764.54	1077.62	1193.55
102.5	4.62	23.75	48.82	304.90	706.60	1003.04	1110.59
105.0	3.93	21.84	45.08	274.64	650.83	930.03	1026.18
107.5	3.42	19.78	41.54	246.63	597.82	858.56	948.58
110.0	2.88	17.93	38.36	221.22	547.06	792.90	873.17
112.5	2.54	16.19	35.14	198.30	500.40	727.48	801.34
115.0	2.02	14.44	32.10	177.02	456.60	665.18	730.85
117.5	1.68	12.93	28.92	156.50	416.16	604.20	663.90
120.0	1.54	11.63	26.06	136.26	375.73	546.46	601.58
122.5	1.30	10.44	23.13	114.02	336.40	493.54	542.81
125.0	1.16	8.86	20.42	93.06	297.77	444.81	488.62
127.5	0.91	7.64	17.46	73.14	263.59	399.32	438.95
130.0	0.82	6.64	13.74	56.10	231.70	355.73	391.74
132.5	0.78	5.65	10.18	42.36	201.82	316.18	349.62
135.0	0.68	4.77	6.82	30.05	175.13	279.05	308.80
137.5	0.60	3.92	4.71	19.50	148.98	244.15	271.26
140.0	0.78	3.06	3.49	13.63	123.82	212.60	236.09
142.5	1.09	2.50	2.84	10.71	100.14	182.82	203.75
145.0	1.06	1.84	2.28	8.29	78.28	157.78	177.35
147.5	1.38	1.68	1.74	6.10	52.64	136.00	156.05
150.0	1.25	1.36	1.36	4.64	28.61	113.24	133.12
152.5	1.36	1.16	0.95	3.15	9.20	87.63	108.17
155.0	1.45	1.35	0.93	1.92	1.79	49.26	76.21
157.5	1.40	1.25	0.82	1.37	1.01	11.39	18.53
160.0	1.58	1.35	0.99	1.01	0.73	0.40	0.30
162.5	1.58	1.28	0.88	0.88	0.70	0.32	0.39
165.0	1.56	1.23	1.22	1.01	0.59	0.50	0.49
167.5	1.46	1.34	1.29	0.84	0.92	0.64	0.47
170.0	1.79	1.27	1.46	1.27	0.92	0.76	0.65
172.5	1.50	1.55	1.54	1.38	1.07	1.04	0.80
175.0	1.66	1.89	1.35	1.59	1.38	1.19	1.02
177.5	1.56	1.53	1.47	1.54	1.52	1.33	1.37
180.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00

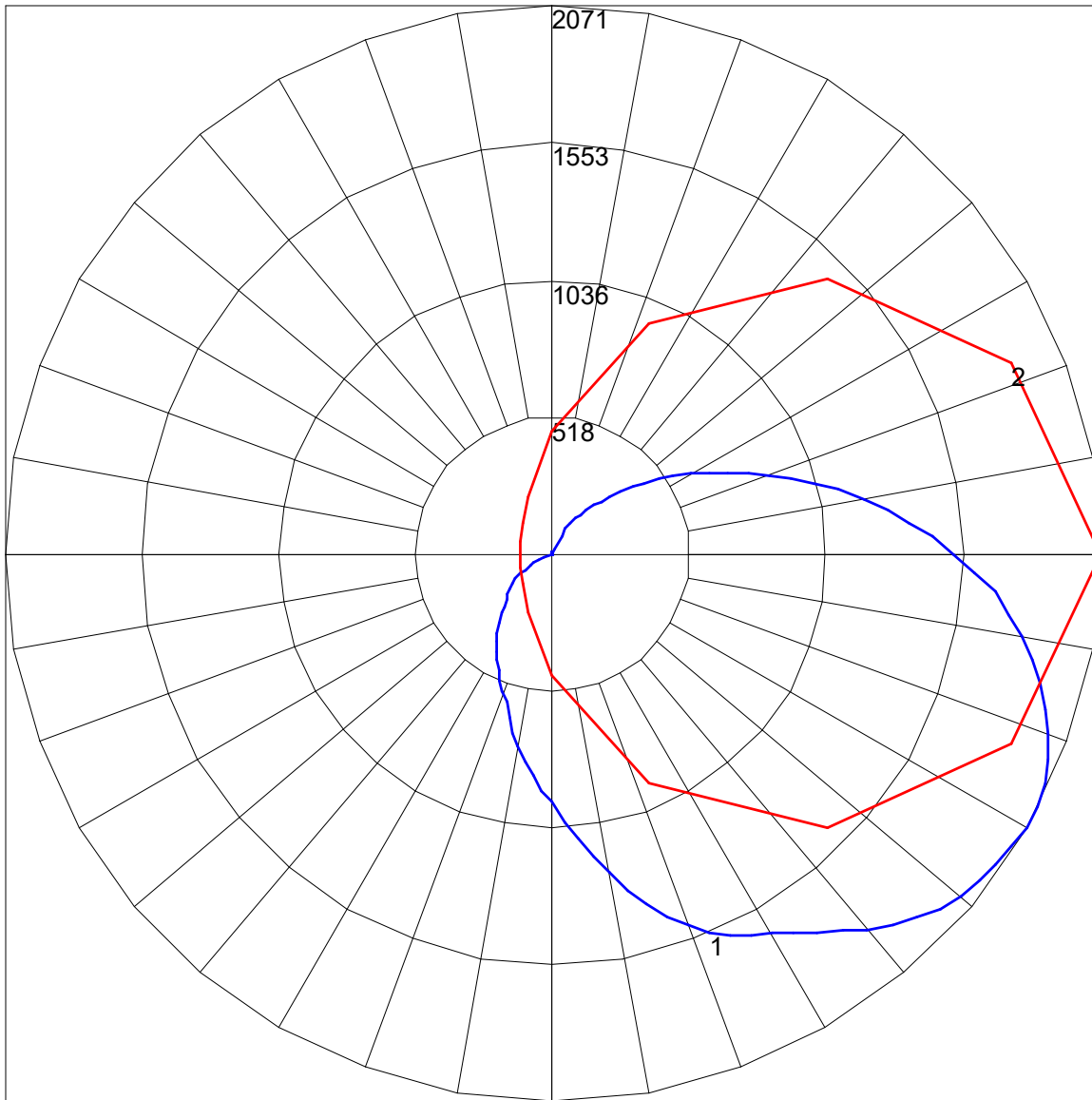
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

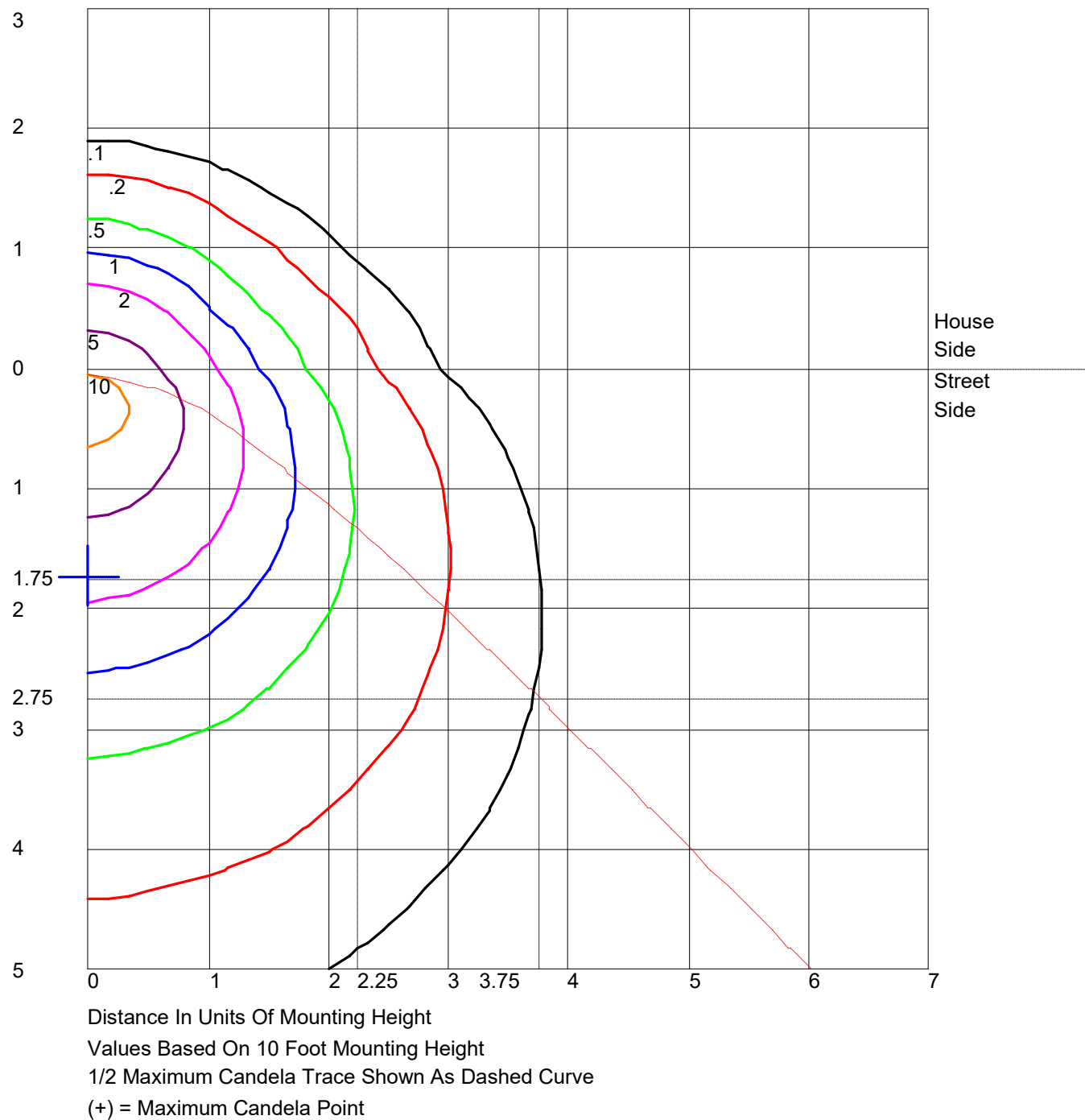
	Lumens	Percent Of Luminaire
Downward Street Side	3990.3	66.4
Downward House Side	808.0	13.4
Downward Total	4798.3	79.8
Upward Street Side	1188.1	19.8
Upward House Side	24.9	0.4
Upward Total	1213.0	20.2
Total Flux	6011.3	100.0

POLAR GRAPH

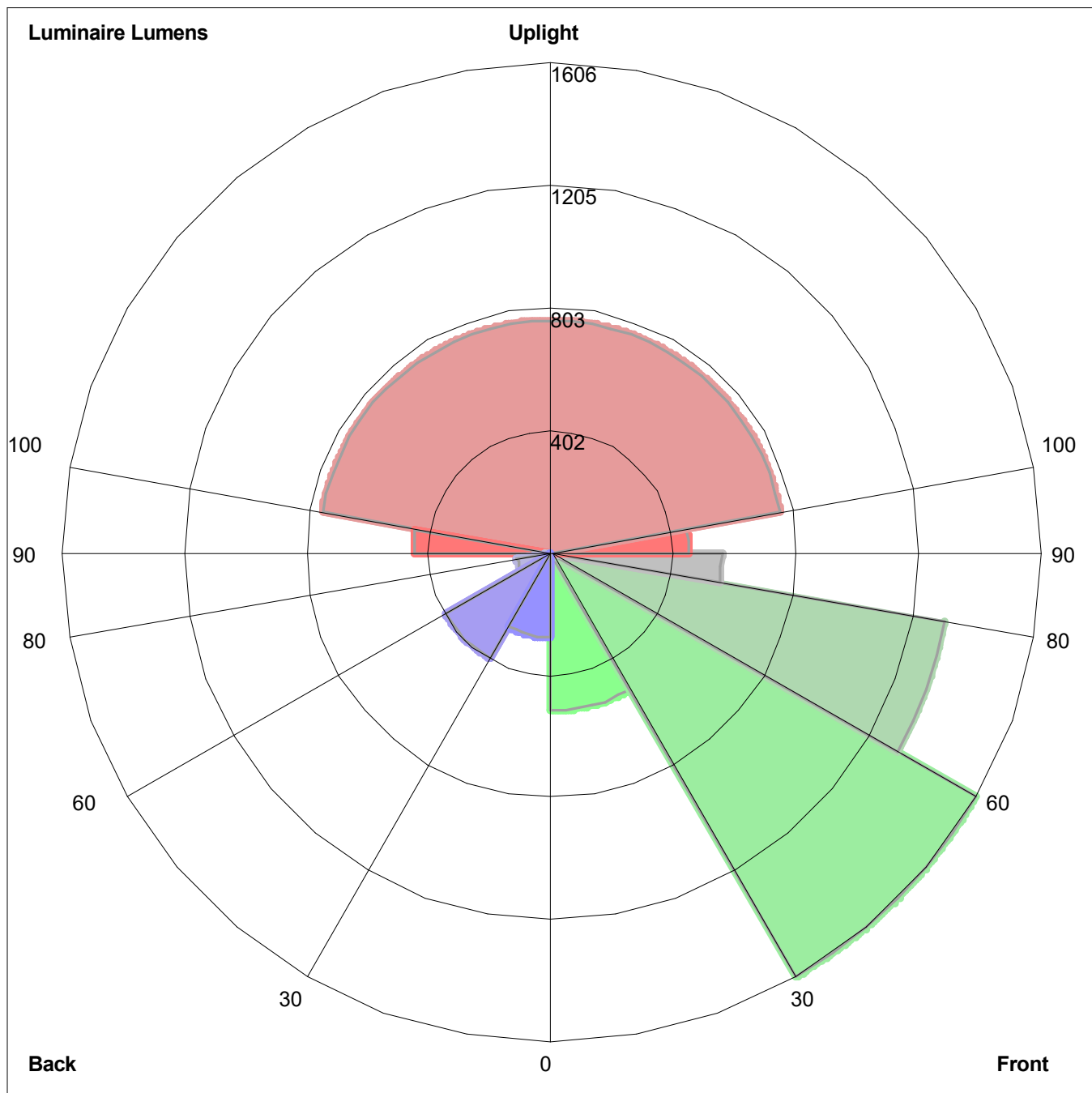


Maximum Candela = 2071.12 Located At Horizontal Angle = 360, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=518.1, Medium=1606.1, High=1307.6, Very High=558.4
Back: Low=279.0, Medium=398.8, High=113.7, Very High=16.5
Uplight: Low=451.1, High=761.9

BUG Rating : B1-U4-G4