



IES ROAD REPORT

PHOTOMETRIC FILENAME : TXWP-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3757

[TESTLAB] TUV SUD America

[ISSUE DATE] 8/10/2020

[TEST DATE] 8/22/2019 11:33:52 AM

[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-10L-30

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9905
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	82
Ballast Factor	1.00
Upward Waste Light Ratio	0.21
Maximum Candela	3425.9
Maximum Candela Angle	360H 60V
Maximum Candela (<90 Degrees Vertical)	3425.9
Maximum Candela Angle (<90 Degrees Vertical)	360H 60V
Maximum Candela At 90 Degrees Vertical	2572.75 (26.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2958.19 (29.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	862.0	N.A.	8.7
FM - Front-Medium (30-60)	2673.1	N.A.	27.0
FH - Front-High (60-80)	2139.2	N.A.	21.6
FVH - Front-Very High (80-90)	914.1	N.A.	9.2
BL - Back-Low (0-30)	454.9	N.A.	4.6
BM - Back-Medium (30-60)	592.8	N.A.	6.0
BH - Back-High (60-80)	157.5	N.A.	1.6
BVH - Back-Very High (80-90)	22.8	N.A.	0.2
UL - Uplight-Low (90-100)	754.2	N.A.	7.6
UH - Uplight-High (100-180)	1335.0	N.A.	13.5
Total	9905.6	N.A.	100.0
BUG Rating	B1-U5-G5		

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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	1641.19	1641.19	1641.19	1641.19	1641.19	1641.19	1641.19	1641.19	1641.19	1641.19
2.5	1754.09	1715.52	1695.38	1668.25	1635.96	1599.78	1567.88	1548.30	1572.38	1548.30
5.0	1842.60	1796.94	1753.30	1694.44	1628.30	1557.11	1494.10	1452.34	1466.30	1452.34
7.5	1931.37	1874.18	1811.70	1718.45	1616.88	1510.33	1414.99	1352.38	1361.10	1352.38
10.0	2028.87	1956.50	1862.92	1740.44	1601.88	1459.04	1332.88	1247.62	1248.38	1247.62
12.5	2136.35	2044.47	1915.28	1757.59	1583.43	1405.22	1246.62	1142.37	1134.66	1142.37
15.0	2254.78	2143.82	1971.95	1769.12	1560.26	1346.74	1158.76	1034.54	1019.62	1034.54
17.5	2372.54	2245.87	2030.78	1777.26	1533.34	1286.44	1070.06	930.10	905.98	930.10
20.0	2492.41	2349.62	2094.71	1782.11	1502.26	1223.31	981.37	856.36	841.69	856.36
22.5	2604.26	2453.06	2157.65	1785.48	1468.04	1159.41	892.48	800.22	783.22	800.22
25.0	2714.87	2549.05	2218.55	1786.34	1431.50	1093.19	830.56	745.32	725.57	745.32
27.5	2817.37	2639.43	2273.53	1785.76	1391.09	1026.24	780.42	691.78	670.52	691.78
30.0	2904.63	2720.16	2325.55	1783.80	1348.14	959.22	731.44	640.24	615.57	640.24
32.5	2981.59	2790.67	2369.60	1780.64	1302.53	892.80	684.12	589.05	563.22	589.05
35.0	3050.56	2851.02	2409.94	1775.28	1255.97	825.69	638.80	540.93	512.64	540.93
37.5	3116.31	2903.76	2441.84	1769.59	1207.65	758.92	593.14	492.46	466.22	492.46
40.0	3174.22	2952.74	2464.88	1761.20	1155.91	710.49	549.07	444.14	412.95	444.14
42.5	3223.26	2993.08	2479.14	1749.84	1103.47	668.48	506.66	391.34	362.98	391.34
45.0	3264.76	3023.69	2486.24	1734.70	1049.00	627.10	464.84	346.47	321.85	346.47
47.5	3306.43	3047.68	2488.85	1715.38	995.08	586.42	420.23	305.62	278.76	305.62
50.0	3346.98	3072.09	2485.64	1691.50	941.26	544.58	371.28	263.09	244.34	263.09
52.5	3382.40	3096.65	2475.98	1663.30	885.92	503.41	326.97	227.92	212.81	227.92
55.0	3406.31	3112.25	2460.96	1629.04	830.56	462.04	285.67	195.06	178.93	195.06
57.5	3421.78	3117.08	2442.80	1590.86	775.12	420.94	243.11	166.16	150.54	166.16
60.0	3425.90	3112.19	2420.55	1547.14	717.24	379.74	206.54	135.74	118.39	135.74
62.5	3412.24	3096.20	2390.40	1501.58	660.06	338.34	173.72	106.50	94.48	106.50
65.0	3379.86	3066.74	2350.52	1454.19	600.45	294.98	146.95	80.43	75.53	80.43
67.5	3335.02	3021.34	2301.89	1403.24	539.85	251.98	123.21	58.34	51.69	58.34
70.0	3279.84	2966.00	2246.07	1348.49	478.20	211.82	99.48	34.84	25.72	34.84
72.5	3213.73	2900.49	2180.55	1289.73	415.49	174.58	75.40	5.93	0.79	5.93
75.0	3134.68	2826.66	2111.32	1225.50	354.00	143.07	47.30	0.42	0.20	0.42
77.5	3046.25	2746.56	2035.94	1157.92	293.44	116.05	27.22	0.34	0.61	0.34
80.0	2958.19	2661.65	1960.14	1088.97	236.91	93.32	23.42	0.40	0.39	0.40
82.5	2868.76	2576.80	1884.10	1021.38	186.06	76.84	20.96	0.50	0.67	0.50
85.0	2778.70	2487.87	1803.68	953.14	144.39	68.44	18.84	0.60	0.93	0.60
87.5	2682.94	2396.67	1722.72	883.69	115.32	61.99	16.95	0.62	0.96	0.62
90.0	2572.75	2294.92	1636.04	816.24	101.71	56.96	15.28	0.59	1.10	0.59
92.5	2450.24	2189.02	1550.18	752.75	94.65	52.64	13.26	0.68	1.31	0.68
95.0	2316.90	2072.61	1459.90	692.82	89.00	48.34	11.80	0.82	1.34	0.82
97.5	2176.60	1947.36	1367.00	635.62	83.88	44.55	10.32	0.63	1.31	0.63
100.0	2037.38	1824.24	1277.60	581.99	78.93	40.97	9.21	0.76	1.30	0.76
102.5	1916.34	1711.66	1192.76	531.86	74.08	37.55	7.90	0.68	1.31	0.68
105.0	1793.54	1601.14	1109.74	483.07	69.16	34.67	6.70	0.67	1.08	0.67
107.5	1664.83	1490.66	1028.50	437.30	64.38	32.02	5.82	0.56	0.99	0.56
110.0	1537.72	1382.92	951.36	395.17	59.63	29.30	4.92	0.52	0.79	0.52
112.5	1407.06	1274.64	876.88	355.72	54.78	26.88	4.12	0.41	1.28	0.41
115.0	1285.37	1163.08	805.67	316.40	50.00	24.65	3.42	0.52	1.33	0.52
117.5	1165.25	1057.22	732.19	277.90	45.61	22.26	3.20	0.80	1.59	0.80
120.0	1065.57	965.96	657.02	237.36	41.48	20.26	2.63	1.17	2.09	1.17
122.5	964.19	870.71	591.72	197.00	37.28	18.13	2.46	1.54	2.52	1.54
125.0	866.21	787.14	533.82	160.41	33.42	16.14	2.13	1.74	2.42	1.74
127.5	790.78	716.54	474.42	127.62	30.16	14.46	1.98	2.10	2.68	2.10
130.0	711.66	642.68	417.67	95.72	26.72	12.89	2.26	2.50	3.14	2.50

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CANDELA TABULATION - (Cont.)

132.5	638.85	574.62	363.52	67.10	23.60	11.46	2.37	3.09	3.50	3.09
135.0	568.45	507.62	314.80	41.72	20.72	10.11	2.70	3.34	4.12	3.34
137.5	498.87	443.94	268.74	26.88	17.61	8.43	2.91	3.44	3.82	3.44
140.0	432.89	389.66	221.60	21.22	14.92	7.16	3.19	3.93	4.52	3.93
142.5	376.81	334.21	180.18	17.43	11.91	6.08	3.38	4.10	4.63	4.10
145.0	320.75	282.62	140.45	14.58	8.54	5.21	3.69	4.38	4.92	4.38
147.5	272.74	237.21	98.52	11.90	5.25	4.29	3.96	4.59	5.09	4.59
150.0	227.26	192.74	54.11	9.58	3.92	3.70	3.94	4.70	5.06	4.70
152.5	176.39	143.89	16.71	7.38	3.33	3.48	3.91	4.62	4.67	4.62
155.0	118.68	86.91	4.95	5.68	3.18	3.56	4.14	4.76	4.94	4.76
157.5	52.73	28.36	3.57	4.23	3.02	3.70	4.26	4.83	4.68	4.83
160.0	5.62	2.84	2.77	3.38	3.24	3.89	4.34	4.97	4.85	4.97
162.5	1.92	2.22	2.86	3.13	3.32	3.92	4.44	4.82	4.92	4.82
165.0	2.62	2.66	3.00	3.28	3.78	3.98	4.49	4.79	4.81	4.79
167.5	2.71	2.90	3.18	3.58	3.85	4.14	4.70	4.72	5.00	4.72
170.0	2.98	3.00	3.51	3.84	3.82	4.29	4.54	4.80	4.73	4.80
172.5	3.28	3.44	3.71	3.84	4.00	4.53	4.72	4.95	4.69	4.95
175.0	3.77	3.63	4.16	4.28	4.44	4.56	4.54	4.68	4.47	4.68
177.5	4.09	3.96	4.07	4.38	4.44	4.35	4.48	4.72	4.51	4.72
180.0	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Vert. Angles **Horizontal Angles**

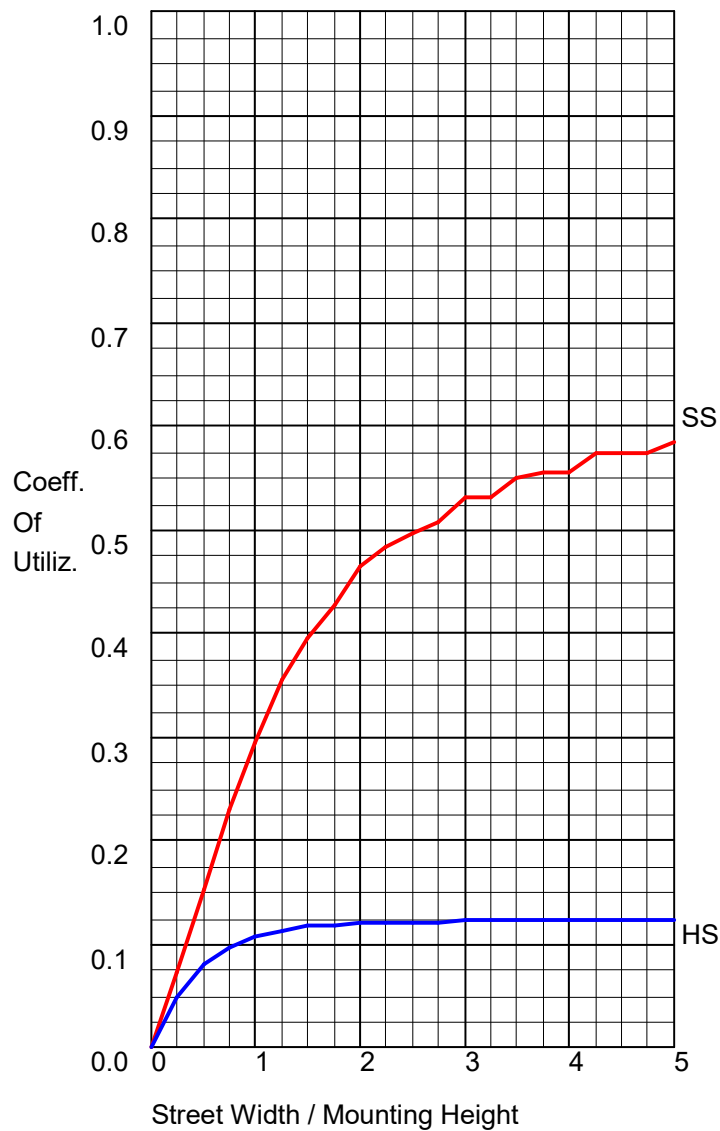
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1641.19	1641.19	1641.19	1641.19	1641.19	1641.19	1641.19
2.5	1567.88	1599.78	1635.96	1668.25	1695.38	1715.52	1754.09
5.0	1494.10	1557.11	1628.30	1694.44	1753.30	1796.94	1842.60
7.5	1414.99	1510.33	1616.88	1718.45	1811.70	1874.18	1931.37
10.0	1332.88	1459.04	1601.88	1740.44	1862.92	1956.50	2028.87
12.5	1246.62	1405.22	1583.43	1757.59	1915.28	2044.47	2136.35
15.0	1158.76	1346.74	1560.26	1769.12	1971.95	2143.82	2254.78
17.5	1070.06	1286.44	1533.34	1777.26	2030.78	2245.87	2372.54
20.0	981.37	1223.31	1502.26	1782.11	2094.71	2349.62	2492.41
22.5	892.48	1159.41	1468.04	1785.48	2157.65	2453.06	2604.26
25.0	830.56	1093.19	1431.50	1786.34	2218.55	2549.05	2714.87
27.5	780.42	1026.24	1391.09	1785.76	2273.53	2639.43	2817.37
30.0	731.44	959.22	1348.14	1783.80	2325.55	2720.16	2904.63
32.5	684.12	892.80	1302.53	1780.64	2369.60	2790.67	2981.59
35.0	638.80	825.69	1255.97	1775.28	2409.94	2851.02	3050.56
37.5	593.14	758.92	1207.65	1769.59	2441.84	2903.76	3116.31
40.0	549.07	710.49	1155.91	1761.20	2464.88	2952.74	3174.22
42.5	506.66	668.48	1103.47	1749.84	2479.14	2993.08	3223.26
45.0	464.84	627.10	1049.00	1734.70	2486.24	3023.69	3264.76
47.5	420.23	586.42	995.08	1715.38	2488.85	3047.68	3306.43
50.0	371.28	544.58	941.26	1691.50	2485.64	3072.09	3346.98
52.5	326.97	503.41	885.92	1663.30	2475.98	3096.65	3382.40
55.0	285.67	462.04	830.56	1629.04	2460.96	3112.25	3406.31
57.5	243.11	420.94	775.12	1590.86	2442.80	3117.08	3421.78
60.0	206.54	379.74	717.24	1547.14	2420.55	3112.19	3425.90
62.5	173.72	338.34	660.06	1501.58	2390.40	3096.20	3412.24
65.0	146.95	294.98	600.45	1454.19	2350.52	3066.74	3379.86
67.5	123.21	251.98	539.85	1403.24	2301.89	3021.34	3335.02
70.0	99.48	211.82	478.20	1348.49	2246.07	2966.00	3279.84
72.5	75.40	174.58	415.49	1289.73	2180.55	2900.49	3213.73
75.0	47.30	143.07	354.00	1225.50	2111.32	2826.66	3134.68
77.5	27.22	116.05	293.44	1157.92	2035.94	2746.56	3046.25

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CANDELA TABULATION - (Cont.)

80.0	23.42	93.32	236.91	1088.97	1960.14	2661.65	2958.19
82.5	20.96	76.84	186.06	1021.38	1884.10	2576.80	2868.76
85.0	18.84	68.44	144.39	953.14	1803.68	2487.87	2778.70
87.5	16.95	61.99	115.32	883.69	1722.72	2396.67	2682.94
90.0	15.28	56.96	101.71	816.24	1636.04	2294.92	2572.75
92.5	13.26	52.64	94.65	752.75	1550.18	2189.02	2450.24
95.0	11.80	48.34	89.00	692.82	1459.90	2072.61	2316.90
97.5	10.32	44.55	83.88	635.62	1367.00	1947.36	2176.60
100.0	9.21	40.97	78.93	581.99	1277.60	1824.24	2037.38
102.5	7.90	37.55	74.08	531.86	1192.76	1711.66	1916.34
105.0	6.70	34.67	69.16	483.07	1109.74	1601.14	1793.54
107.5	5.82	32.02	64.38	437.30	1028.50	1490.66	1664.83
110.0	4.92	29.30	59.63	395.17	951.36	1382.92	1537.72
112.5	4.12	26.88	54.78	355.72	876.88	1274.64	1407.06
115.0	3.42	24.65	50.00	316.40	805.67	1163.08	1285.37
117.5	3.20	22.26	45.61	277.90	732.19	1057.22	1165.25
120.0	2.63	20.26	41.48	237.36	657.02	965.96	1065.57
122.5	2.46	18.13	37.28	197.00	591.72	870.71	964.19
125.0	2.13	16.14	33.42	160.41	533.82	787.14	866.21
127.5	1.98	14.46	30.16	127.62	474.42	716.54	790.78
130.0	2.26	12.89	26.72	95.72	417.67	642.68	711.66
132.5	2.37	11.46	23.60	67.10	363.52	574.62	638.85
135.0	2.70	10.11	20.72	41.72	314.80	507.62	568.45
137.5	2.91	8.43	17.61	26.88	268.74	443.94	498.87
140.0	3.19	7.16	14.92	21.22	221.60	389.66	432.89
142.5	3.38	6.08	11.91	17.43	180.18	334.21	376.81
145.0	3.69	5.21	8.54	14.58	140.45	282.62	320.75
147.5	3.96	4.29	5.25	11.90	98.52	237.21	272.74
150.0	3.94	3.70	3.92	9.58	54.11	192.74	227.26
152.5	3.91	3.48	3.33	7.38	16.71	143.89	176.39
155.0	4.14	3.56	3.18	5.68	4.95	86.91	118.68
157.5	4.26	3.70	3.02	4.23	3.57	28.36	52.73
160.0	4.34	3.89	3.24	3.38	2.77	2.84	5.62
162.5	4.44	3.92	3.32	3.13	2.86	2.22	1.92
165.0	4.49	3.98	3.78	3.28	3.00	2.66	2.62
167.5	4.70	4.14	3.85	3.58	3.18	2.90	2.71
170.0	4.54	4.29	3.82	3.84	3.51	3.00	2.98
172.5	4.72	4.53	4.00	3.84	3.71	3.44	3.28
175.0	4.54	4.56	4.44	4.28	4.16	3.63	3.77
177.5	4.48	4.35	4.44	4.38	4.07	3.96	4.09
180.0	4.00	4.00	4.00	4.00	4.00	4.00	4.00

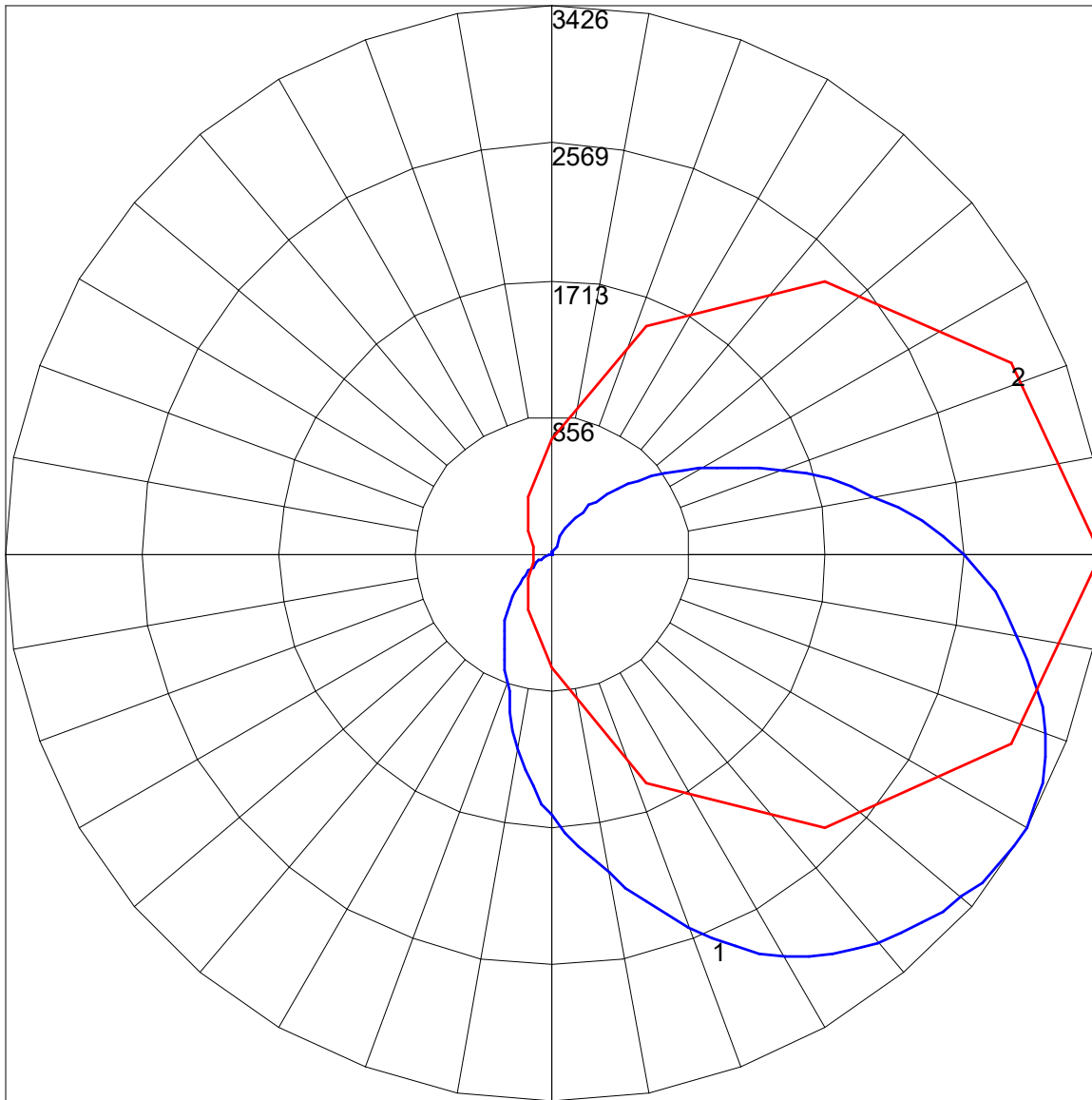
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

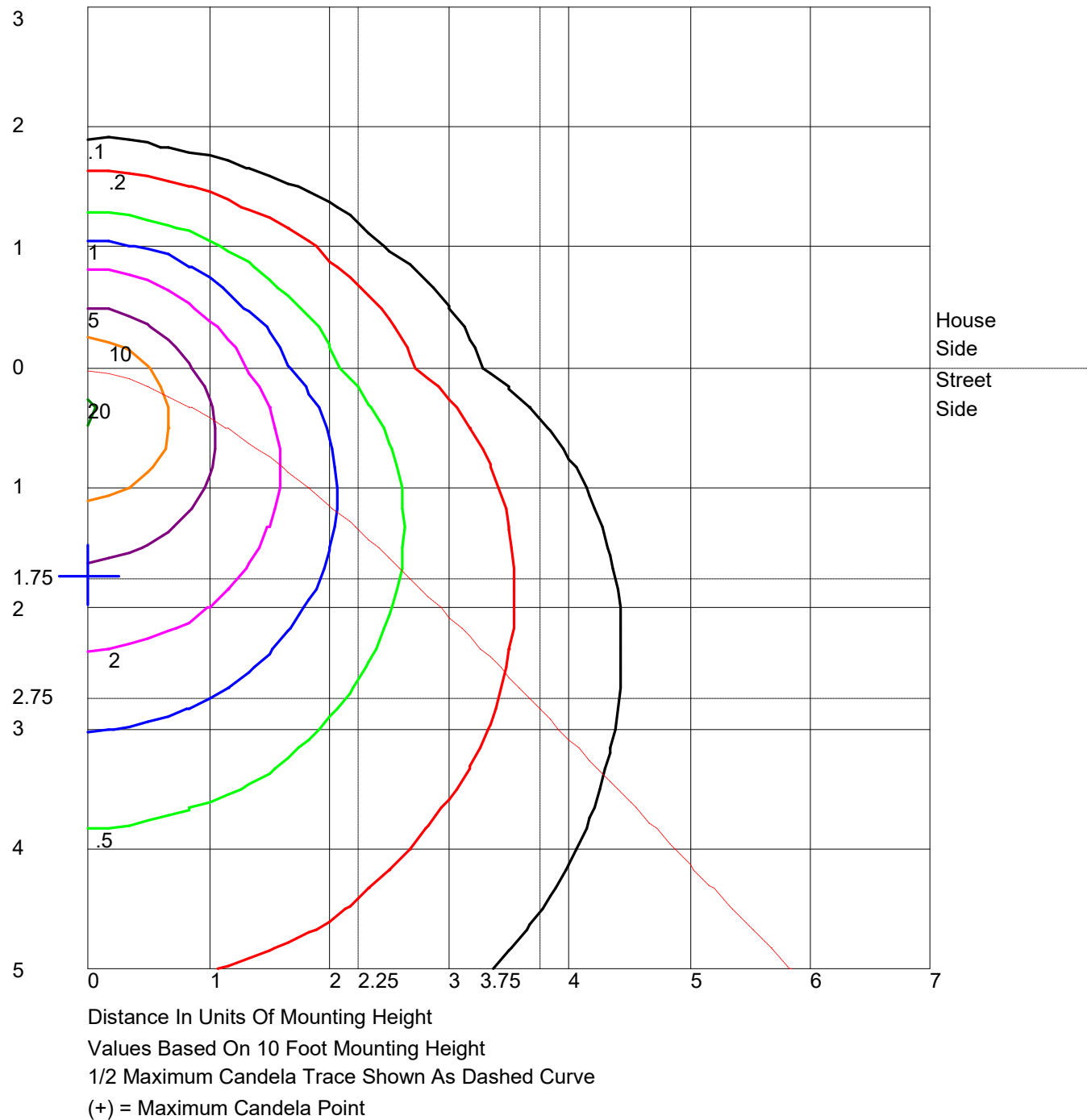
	Lumens	Percent Of Luminaire
Downward Street Side	6588.4	66.5
Downward House Side	1227.9	12.4
Downward Total	7816.3	78.9
Upward Street Side	2047.1	20.7
Upward House Side	42.1	0.4
Upward Total	2089.2	21.1
Total Flux	9905.5	100.0

POLAR GRAPH

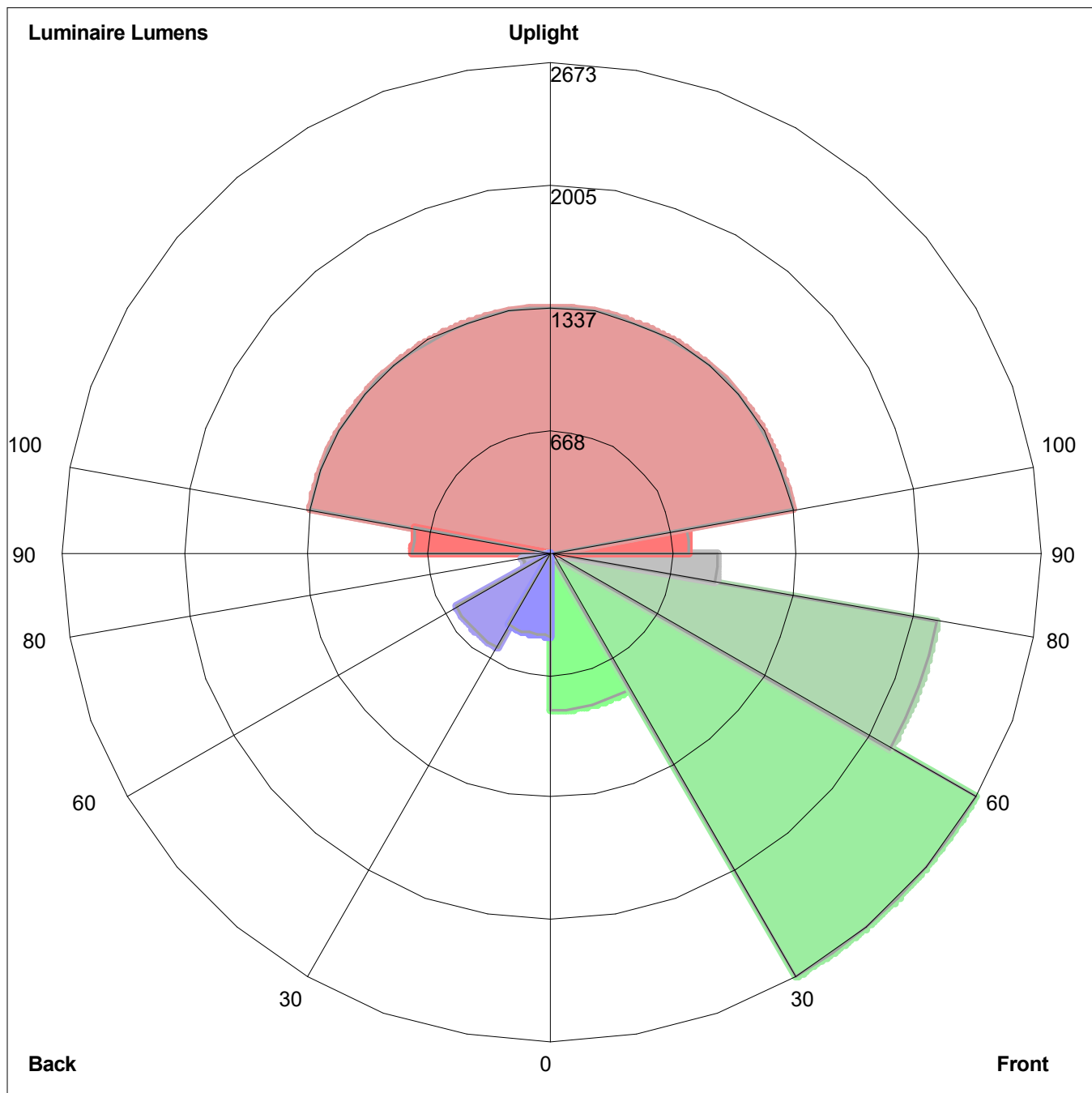


Maximum Candela = 3425.9 Located At Horizontal Angle = 360, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=862.0, Medium=2673.1, High=2139.2, Very High=914.1
Back: Low=454.9, Medium=592.8, High=157.5, Very High=22.8
Uplight: Low=754.2, High= 1335.0

BUG Rating : B1-U5-G5