



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-10L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11669

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/01/20

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

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCE TYPE] LED

[SEARCH_APPLICATION] Outdoor

[LUMCAT] LXM4-PT-2-LED-10L-50

[MANUFAC] LSI INDUSTRIES, INC.

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10552
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	77.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8527
Maximum Candela Angle	82.5H 65V
Maximum Candela (<90 Degrees Vertical)	8527
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 65V
Maximum Candela At 90 Degrees Vertical	14 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	557 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	572.0	N.A.	5.4
FM - Front-Medium (30-60)	3966.1	N.A.	37.6
FH - Front-High (60-80)	2075.0	N.A.	19.7
FVH - Front-Very High (80-90)	46.2	N.A.	0.4
BL - Back-Low (0-30)	451.3	N.A.	4.3
BM - Back-Medium (30-60)	2388.9	N.A.	22.6
BH - Back-High (60-80)	977.1	N.A.	9.3
BVH - Back-Very High (80-90)	60.0	N.A.	0.6
UL - Uplight-Low (90-100)	4.3	N.A.	0.0
UH - Uplight-High (100-180)	11.6	N.A.	0.1
Total	10552.5	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	914	914	914	914	914	914	914	914	914	914
2.5	931	933	916	916	918	923	918	907	889	891
5.0	895	906	905	911	900	893	891	864	869	860
7.5	908	919	901	918	876	909	891	889	912	883
10.0	931	928	925	918	923	944	957	938	941	931
12.5	1034	1016	1000	988	975	1009	1037	1044	1012	1017
15.0	1084	1044	1072	1087	1088	1108	1117	1146	1134	1077
17.5	1121	1094	1129	1123	1190	1213	1228	1252	1254	1218
20.0	1233	1208	1240	1223	1221	1299	1355	1361	1401	1393
22.5	1255	1286	1318	1352	1358	1398	1500	1507	1570	1566
25.0	1368	1395	1396	1427	1507	1525	1618	1671	1704	1764
27.5	1615	1574	1596	1592	1629	1695	1772	1856	1901	1963
30.0	1783	1827	1810	1804	1819	1853	1949	2028	2158	2176
32.5	2295	2219	2133	2032	2055	2071	2137	2210	2385	2382
35.0	2620	2645	2488	2451	2315	2310	2365	2453	2551	2668
37.5	3202	3193	2956	2788	2678	2659	2633	2627	2797	2883
40.0	3480	3472	3390	3223	3078	3072	2911	2916	2976	3112
42.5	3690	3678	3602	3514	3491	3409	3282	3181	3109	3274
45.0	3761	3785	3719	3678	3729	3750	3620	3483	3266	3482
47.5	3699	3720	3692	3731	3839	4002	4068	3884	3494	3750
50.0	3454	3491	3531	3596	3831	4212	4534	4398	3802	4091
52.5	3065	3062	3162	3296	3678	4257	4989	5000	4206	4562
55.0	2463	2470	2584	2799	3251	4094	5319	5720	4729	5129
57.5	1848	1848	1965	2160	2619	3632	5490	6419	5414	5840
60.0	1305	1308	1353	1486	1885	2884	5349	7030	6222	6752
62.5	912	900	912	978	1224	1988	4704	7336	7025	7708
65.0	662	653	657	691	820	1211	3683	7153	7655	8527
67.5	477	487	491	517	600	787	2535	6130	7591	8198
70.0	356	365	369	398	465	567	1542	4425	6358	6228
72.5	227	234	245	293	358	438	893	2629	4101	3114
75.0	132	144	135	173	238	333	538	1573	2035	1121
77.5	110	124	103	111	135	211	353	947	991	516
80.0	107	114	92	84	94	135	200	557	530	290
82.5	102	101	73	61	62	92	110	287	285	176
85.0	76	75	52	39	38	56	64	80	134	89
87.5	29	30	25	19	16	20	19	22	26	27
90.0	6	6	6	4	2	1	1	2	4	4
92.5	4	4	3	2	1	1	0	1	2	3
95.0	3	3	3	2	1	1	0	0	1	1
97.5	3	3	3	2	1	0	0	0	1	1
100.0	3	3	3	2	1	1	0	0	0	1
102.5	3	3	2	2	1	0	0	0	0	1
105.0	3	3	2	2	1	1	0	0	0	1
107.5	3	3	3	2	1	1	0	0	0	1
110.0	3	3	3	2	1	1	0	0	1	1
112.5	4	3	3	3	2	1	0	0	1	1
115.0	4	4	4	3	2	1	1	0	1	1
117.5	4	4	4	3	2	2	1	1	1	1
120.0	4	4	4	4	3	2	1	1	1	1
122.5	5	5	4	4	3	2	1	1	1	2
125.0	5	5	5	4	3	2	1	1	2	2
127.5	6	5	5	5	4	3	1	1	2	3
130.0	6	6	6	5	4	3	2	2	3	3

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CANDELA TABULATION - (Cont.)

132.5	6	6	6	5	4	3	2	1	3	3
135.0	5	5	5	4	3	3	1	1	2	2
137.5	2	2	2	1	1	1	0	0	0	1
140.0	1	1	0	0	0	0	0	0	0	0
142.5	1	0	0	0	0	0	0	0	0	0
145.0	1	1	0	0	0	0	0	0	0	0
147.5	1	1	0	0	0	0	0	0	0	0
150.0	1	0	0	0	0	0	0	0	0	0
152.5	1	0	0	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	1	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	1	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	1	0	0	0	0	0	0	0	0	0
175.0	1	0	0	0	0	0	0	0	0	0
177.5	1	1	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	914	914	914	914	914	914	914	914	914	914
2.5	893	906	898	901	907	895	896	898	905	909
5.0	862	872	861	819	851	853	859	848	849	830
7.5	867	880	884	872	861	830	777	785	795	801
10.0	939	912	887	895	845	826	786	779	741	761
12.5	980	994	967	949	887	821	792	806	779	800
15.0	1093	1079	1053	988	903	873	833	835	817	789
17.5	1197	1173	1137	1060	956	910	894	858	840	823
20.0	1355	1315	1270	1133	1013	956	900	895	893	892
22.5	1532	1473	1436	1261	1112	1030	958	934	955	1002
25.0	1720	1670	1609	1414	1268	1080	991	1007	1054	1129
27.5	1949	1890	1827	1620	1409	1140	1075	1122	1220	1296
30.0	2147	2133	2020	1764	1535	1241	1207	1266	1357	1454
32.5	2422	2364	2234	1959	1646	1392	1383	1426	1561	1716
35.0	2652	2639	2509	2174	1734	1537	1575	1633	1761	1913
37.5	2906	2892	2752	2392	1902	1707	1739	1833	1906	2113
40.0	3133	3109	2979	2608	2028	1888	1929	1993	2061	2203
42.5	3329	3306	3169	2742	2140	2041	2047	2098	2090	2165
45.0	3548	3555	3370	2834	2209	2108	2074	2074	2014	2023
47.5	3833	3832	3637	2905	2270	2108	2019	1963	1860	1816
50.0	4186	4183	3923	2962	2295	2064	1904	1777	1631	1573
52.5	4612	4602	4230	3001	2285	1966	1745	1578	1396	1337
55.0	5176	5116	4580	3020	2255	1856	1579	1394	1218	1152
57.5	5913	5791	4912	3014	2208	1728	1424	1245	1080	1030
60.0	6816	6438	5184	2969	2130	1608	1312	1133	960	913
62.5	7679	6950	5232	2811	2002	1467	1187	1034	832	771
65.0	8247	6891	4815	2430	1753	1286	1033	894	676	605
67.5	7632	5826	3769	1805	1382	1008	826	712	508	447
70.0	5558	3896	2414	1178	944	726	619	526	375	334
72.5	2747	1886	1268	773	658	522	458	387	275	234
75.0	922	714	625	515	462	393	345	272	183	158
77.5	428	348	373	368	344	305	247	182	137	128

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CANDELA TABULATION - (Cont.)

80.0	257	221	228	271	272	221	166	145	127	133
82.5	149	131	128	209	202	142	126	135	173	182
85.0	78	69	71	126	97	94	103	140	185	155
87.5	27	24	26	35	37	41	44	63	78	57
90.0	4	4	5	7	12	14	13	10	4	5
92.5	2	3	4	6	10	13	12	9	3	4
95.0	2	2	4	6	9	10	10	7	3	4
97.5	1	1	3	5	7	8	7	5	2	4
100.0	1	1	3	5	6	6	5	4	2	3
102.5	1	1	2	4	5	4	4	3	2	3
105.0	1	1	2	3	4	3	3	3	2	3
107.5	1	1	2	3	4	3	3	2	2	3
110.0	1	1	2	3	3	3	3	3	2	3
112.5	1	1	2	3	4	3	3	3	3	4
115.0	1	2	2	3	4	4	4	3	3	4
117.5	2	2	2	3	4	4	4	3	3	4
120.0	2	2	3	3	4	4	4	4	4	4
122.5	2	3	3	4	4	4	4	4	4	5
125.0	3	3	4	4	4	4	4	5	5	5
127.5	3	4	4	4	4	4	4	5	5	6
130.0	3	4	4	5	5	4	5	5	6	6
132.5	3	4	4	4	5	5	4	5	6	7
135.0	2	3	3	4	4	4	4	5	5	6
137.5	1	1	2	2	2	3	3	3	4	4
140.0	0	0	0	1	1	1	2	2	2	3
142.5	0	0	0	0	1	1	2	2	2	2
145.0	0	0	0	0	1	1	2	2	2	2
147.5	0	0	0	0	1	1	2	2	2	2
150.0	0	0	0	0	1	1	2	2	2	2
152.5	0	0	0	0	1	1	2	2	2	2
155.0	0	0	0	0	1	1	2	2	2	2
157.5	0	0	0	0	1	1	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	2
162.5	0	0	0	0	1	1	1	2	2	1
165.0	0	0	0	0	1	1	1	2	1	1
167.5	0	0	0	0	1	1	1	2	1	1
170.0	0	0	0	0	0	1	1	2	1	1
172.5	0	0	0	0	0	1	1	1	1	1
175.0	0	0	0	0	0	1	1	1	1	1
177.5	0	0	0	0	0	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	914	914
2.5	913	907
5.0	842	840
7.5	804	822
10.0	766	776
12.5	799	823
15.0	818	845
17.5	863	871
20.0	949	930
22.5	1021	1046
25.0	1158	1169

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

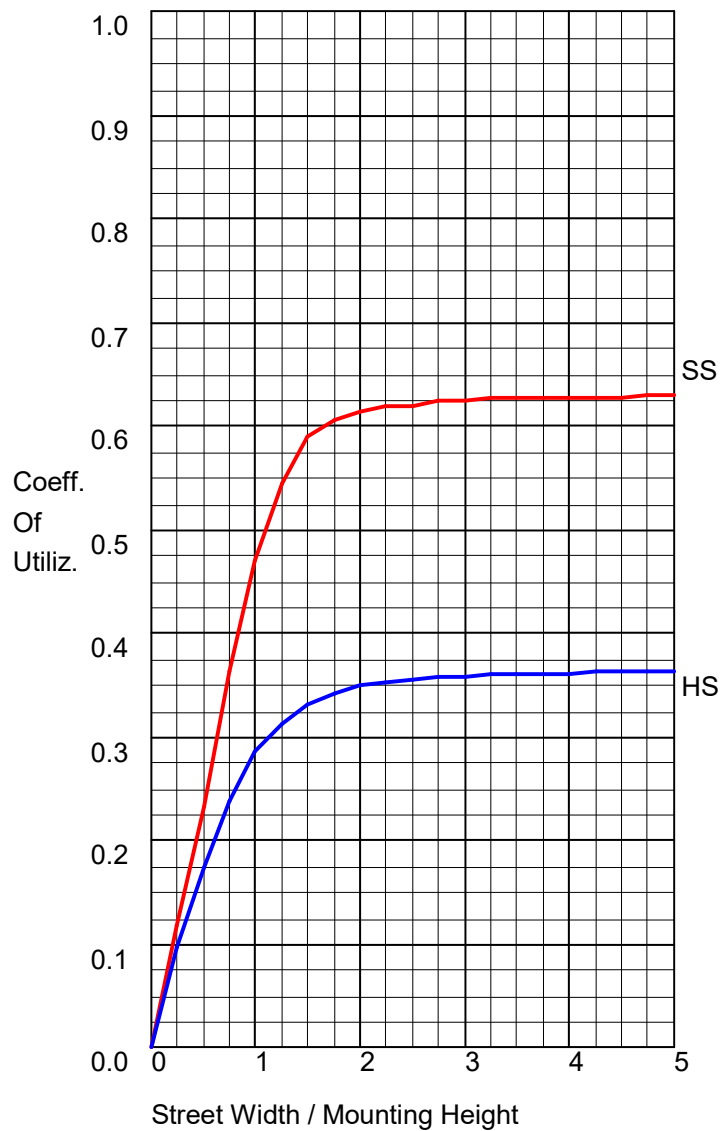
27.5	1326	1347
30.0	1508	1540
32.5	1782	1783
35.0	1991	1991
37.5	2216	2212
40.0	2264	2253
42.5	2214	2199
45.0	2043	2043
47.5	1815	1785
50.0	1544	1536
52.5	1309	1305
55.0	1134	1124
57.5	1020	1013
60.0	898	886
62.5	749	735
65.0	578	562
67.5	425	406
70.0	325	315
72.5	234	230
75.0	183	182
77.5	155	156
80.0	163	167
82.5	206	209
85.0	162	169
87.5	49	40
90.0	4	4
92.5	4	3
95.0	4	3
97.5	3	3
100.0	3	3
102.5	3	3
105.0	3	3
107.5	3	3
110.0	3	3
112.5	3	4
115.0	4	4
117.5	4	4
120.0	4	4
122.5	5	5
125.0	5	5
127.5	5	5
130.0	6	6
132.5	6	6
135.0	6	6
137.5	4	4
140.0	3	3
142.5	2	2
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	2
157.5	2	2
160.0	1	1
162.5	1	1
165.0	1	1

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

167.5	1	1
170.0	1	1
172.5	1	1
175.0	1	1
177.5	1	1
180.0	0	0

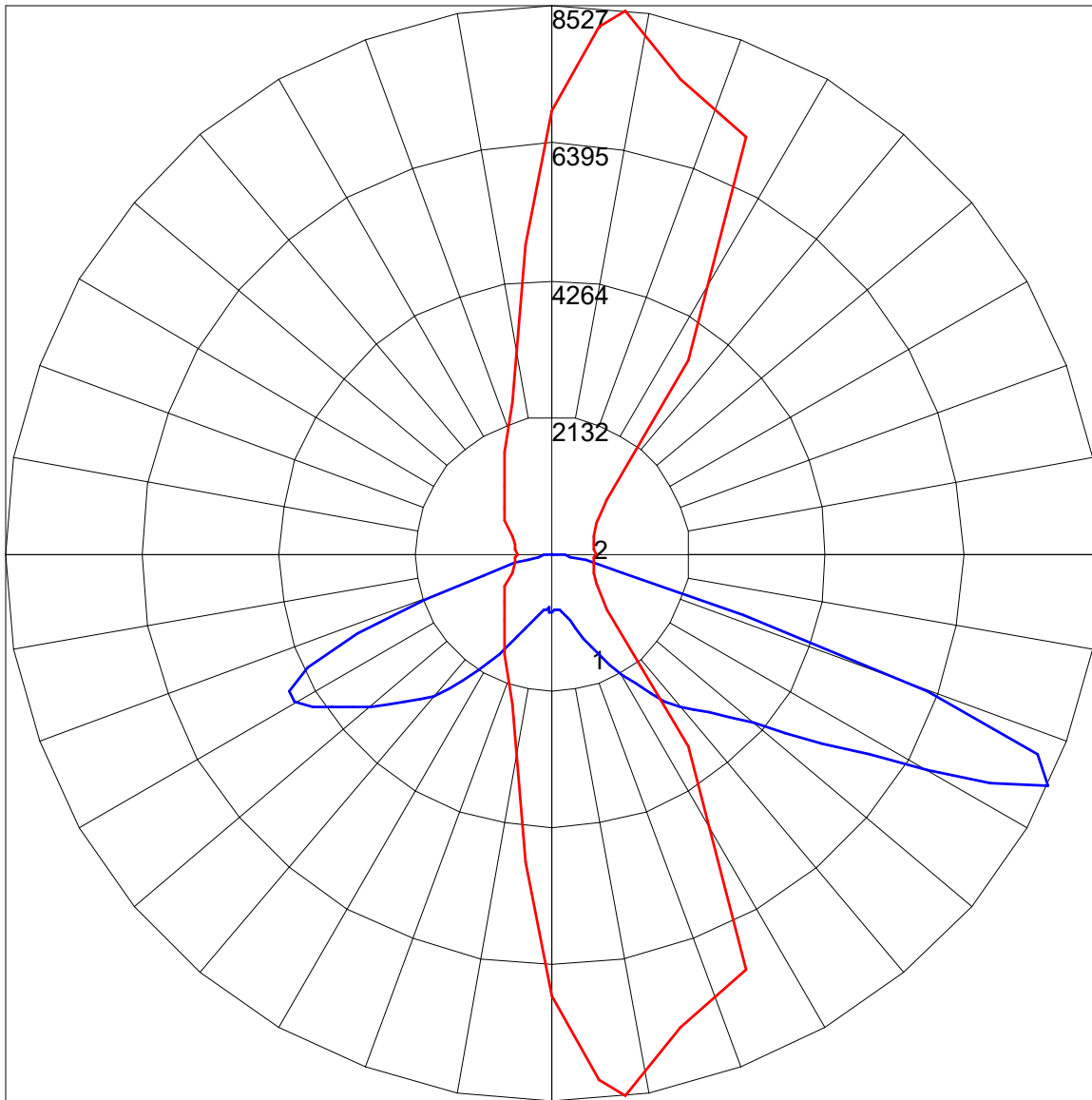
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

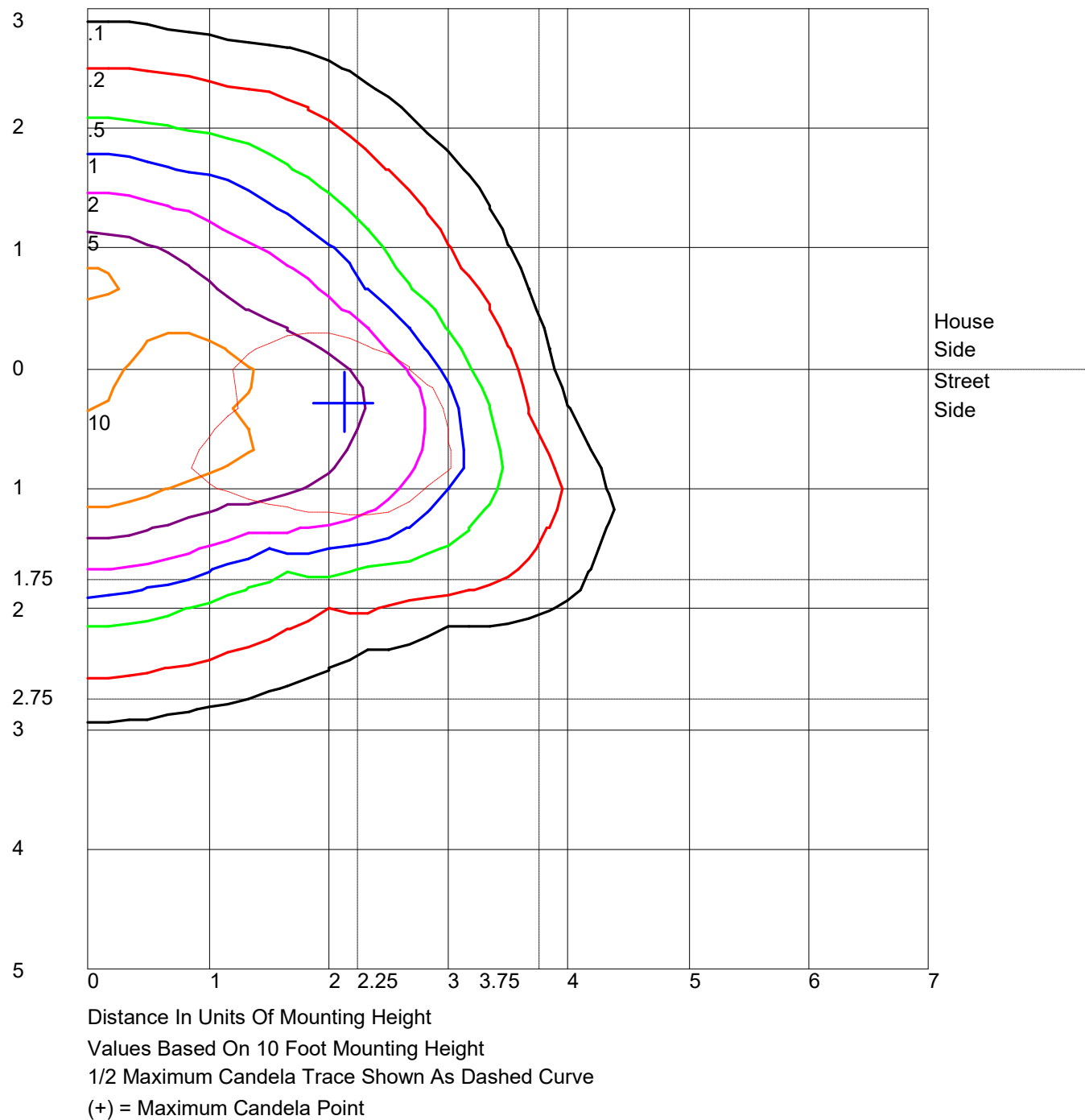
	Lumens	Percent Of Luminaire
Downward Street Side	6659.3	63.1
Downward House Side	3877.2	36.7
Downward Total	10536.5	99.8
Upward Street Side	4.8	0.0
Upward House Side	11.0	0.1
Upward Total	15.8	0.1
Total Flux	10552.3	100.0

POLAR GRAPH

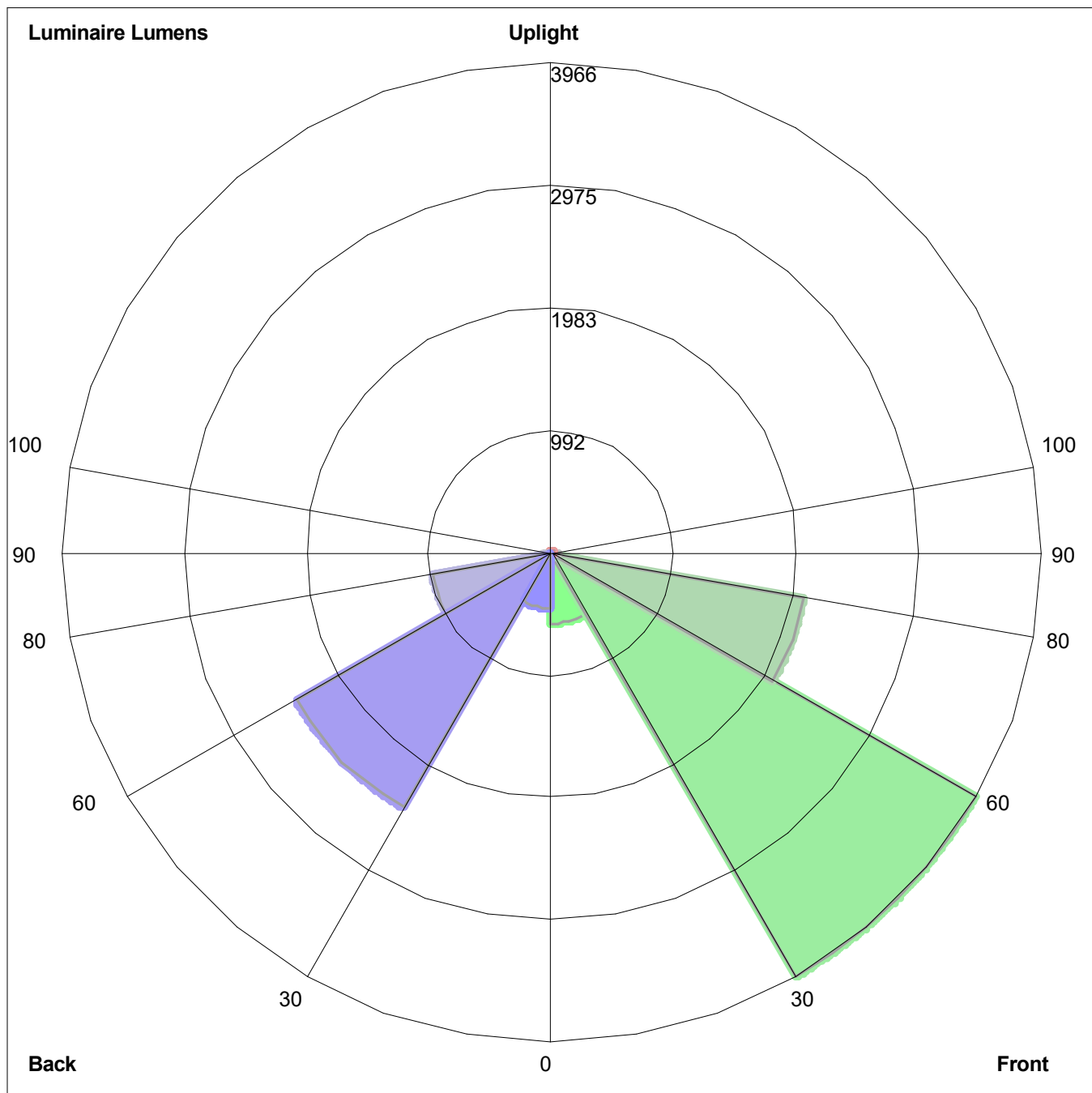


Maximum Candela = 8527 Located At Horizontal Angle = 82.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=572.0, Medium=3966.1, High= 2075.0, Very High=46.2
Back: Low=451.3, Medium=2388.9, High=977.1, Very High=60.0
Uplight: Low=4.3, High=11.6

BUG Rating : B2-U2-G2