



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-05L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11767
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/27/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-FT-LED-05L-30
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4575
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3034
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3034
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	45 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	983 (21.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	212.0	N.A.	4.6
FM - Front-Medium (30-60)	1373.2	N.A.	30.0
FH - Front-High (60-80)	1711.0	N.A.	37.4
FVH - Front-Very High (80-90)	102.6	N.A.	2.2
BL - Back-Low (0-30)	198.9	N.A.	4.3
BM - Back-Medium (30-60)	657.8	N.A.	14.4
BH - Back-High (60-80)	283.7	N.A.	6.2
BVH - Back-Very High (80-90)	24.4	N.A.	0.5
UL - Uplight-Low (90-100)	3.8	N.A.	0.1
UH - Uplight-High (100-180)	7.4	N.A.	0.2
Total	4574.8	N.A.	100.0
BUG Rating	B1-U1-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	381	381	381	381	381	381	381	381	381	381
2.5	378	379	372	374	376	376	379	384	381	382
5.0	335	342	352	361	372	367	356	356	353	349
7.5	326	338	352	335	336	329	335	347	374	367
10.0	332	337	342	327	338	347	359	366	372	376
12.5	336	362	343	339	358	357	369	376	387	403
15.0	363	384	375	388	402	381	390	409	418	433
17.5	386	407	393	408	423	430	435	432	452	482
20.0	451	452	446	449	461	463	471	481	487	516
22.5	491	504	516	515	512	497	506	537	531	561
25.0	554	549	566	563	569	579	563	582	580	587
27.5	633	670	664	632	623	642	641	630	621	645
30.0	728	714	708	703	681	686	705	684	685	702
32.5	848	848	788	758	770	763	747	755	747	733
35.0	951	929	890	855	824	826	823	813	788	785
37.5	1050	1033	984	927	914	895	880	876	844	803
40.0	1127	1129	1090	1032	995	980	968	936	899	842
42.5	1196	1204	1163	1151	1082	1060	1053	1017	945	867
45.0	1279	1286	1262	1230	1194	1161	1150	1097	998	901
47.5	1371	1380	1359	1331	1288	1262	1239	1189	1068	951
50.0	1468	1478	1465	1439	1406	1384	1346	1299	1159	1020
52.5	1561	1576	1572	1555	1527	1514	1476	1433	1283	1106
55.0	1640	1660	1672	1669	1658	1641	1631	1602	1434	1214
57.5	1707	1723	1752	1770	1792	1786	1797	1801	1635	1356
60.0	1773	1789	1828	1859	1922	1946	1984	2043	1859	1517
62.5	1876	1889	1938	1979	2077	2121	2199	2311	2096	1654
65.0	1962	1984	2066	2161	2294	2336	2451	2556	2260	1711
67.5	2005	2035	2177	2326	2608	2632	2722	2714	2285	1568
70.0	1892	1928	2141	2485	2905	2915	2918	2699	1995	1184
72.5	1549	1589	1842	2334	2990	3034	2960	2358	1432	743
75.0	995	1000	1298	1784	2507	2645	2513	1708	887	440
77.5	451	494	692	1099	1637	1809	1718	1051	528	287
80.0	211	242	403	618	890	983	948	632	330	174
82.5	131	143	267	392	442	545	523	338	186	94
85.0	99	107	187	249	281	272	254	152	93	52
87.5	68	75	122	132	170	133	62	52	33	24
90.0	26	31	45	23	24	15	8	5	3	3
92.5	5	5	5	4	2	2	2	2	2	2
95.0	2	2	2	2	2	2	2	2	2	2
97.5	2	2	2	2	2	2	2	2	2	2
100.0	1	1	2	2	2	2	2	2	2	2
102.5	1	1	1	1	1	2	2	2	1	1
105.0	1	1	1	1	2	1	2	1	1	2
107.5	1	1	1	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	2
112.5	1	1	1	1	1	1	1	1	1	2
115.0	1	1	1	1	1	1	1	1	1	2
117.5	1	2	2	2	2	2	1	1	2	2
120.0	2	2	2	2	2	1	2	1	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2

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CANDELA TABULATION - (Cont.)

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

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	381	381	381	381	381	381	381	381	381	381
2.5	384	385	385	381	381	385	387	389	379	375
5.0	351	350	352	360	367	366	369	371	366	357
7.5	372	369	374	388	368	353	332	343	336	347
10.0	366	370	373	382	354	357	346	346	338	355
12.5	403	403	414	396	375	357	361	384	381	398
15.0	436	435	433	404	374	393	399	418	425	417
17.5	480	470	466	433	401	428	447	446	444	447
20.0	517	522	511	446	427	457	456	468	471	474
22.5	585	564	558	491	477	491	493	488	482	493
25.0	619	626	614	513	547	526	506	498	508	512
27.5	675	656	663	556	583	543	521	515	529	538
30.0	714	695	695	592	608	580	543	536	535	546
32.5	733	722	709	633	640	608	575	554	552	570
35.0	772	747	737	669	655	626	606	561	577	584
37.5	792	779	756	687	665	639	608	587	575	605
40.0	795	774	747	698	667	640	609	588	581	607
42.5	792	774	738	678	644	631	600	589	572	594
45.0	808	780	736	658	617	609	585	575	577	553
47.5	833	795	739	641	586	583	560	553	556	510
50.0	876	815	751	624	554	554	533	540	519	474
52.5	940	857	777	614	520	524	503	519	475	438
55.0	1024	918	816	609	485	492	473	488	435	404
57.5	1124	992	864	610	451	459	446	451	396	359
60.0	1225	1061	892	611	415	427	417	410	347	319
62.5	1281	1075	838	598	381	394	386	367	307	288
65.0	1242	990	679	554	347	358	348	337	274	262
67.5	1010	762	471	460	308	321	316	310	248	244
70.0	676	477	315	344	264	281	287	282	227	230
72.5	352	260	214	250	218	241	253	253	202	205
75.0	225	162	138	177	170	195	215	211	146	138
77.5	146	102	93	123	128	151	168	133	103	109

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CANDELA TABULATION - (Cont.)

80.0	76	58	66	90	100	112	105	100	81	85
82.5	50	38	45	66	76	69	73	76	56	63
85.0	29	21	27	43	42	43	48	43	26	40
87.5	12	6	13	19	21	21	19	16	12	17
90.0	2	1	4	5	6	5	5	3	1	1
92.5	1	1	4	5	6	5	5	3	1	0
95.0	1	2	4	5	5	5	4	3	1	1
97.5	1	2	3	5	5	5	4	3	1	1
100.0	1	2	3	4	4	4	4	3	1	1
102.5	1	2	2	3	3	3	3	2	1	1
105.0	2	2	2	2	3	3	3	2	1	1
107.5	2	2	2	2	2	2	2	2	1	1
110.0	2	2	2	2	2	2	2	2	2	1
112.5	2	2	2	2	2	2	2	2	1	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	3	2	2	2	2
122.5	2	2	2	3	3	3	3	3	2	2
125.0	2	2	2	3	3	3	3	2	2	2
127.5	2	2	2	2	3	3	2	2	2	2
130.0	2	2	2	2	3	2	2	2	2	2
132.5	2	2	2	2	2	2	2	2	2	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	2	2	2	1	1	1	0	0
140.0	1	1	1	1	1	1	1	0	0	0
142.5	1	1	1	1	1	1	0	0	0	0
145.0	1	1	1	1	1	1	0	0	0	0
147.5	1	1	1	1	1	1	0	0	0	0
150.0	1	1	1	1	1	0	0	0	0	0
152.5	1	1	1	1	1	0	0	0	0	0
155.0	1	1	1	1	1	0	0	0	0	0
157.5	1	1	1	1	1	0	0	0	0	0
160.0	1	1	1	1	1	0	0	0	0	0
162.5	1	1	1	1	0	0	0	0	0	0
165.0	1	1	1	1	1	0	0	0	0	0
167.5	1	1	1	1	1	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	1	0	0	0	0	0
177.5	1	1	1	1	1	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	381	381
2.5	369	366
5.0	351	358
7.5	345	344
10.0	365	365
12.5	408	411
15.0	436	446
17.5	461	467
20.0	486	492
22.5	491	517
25.0	525	542

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CANDELA TABULATION - (Cont.)

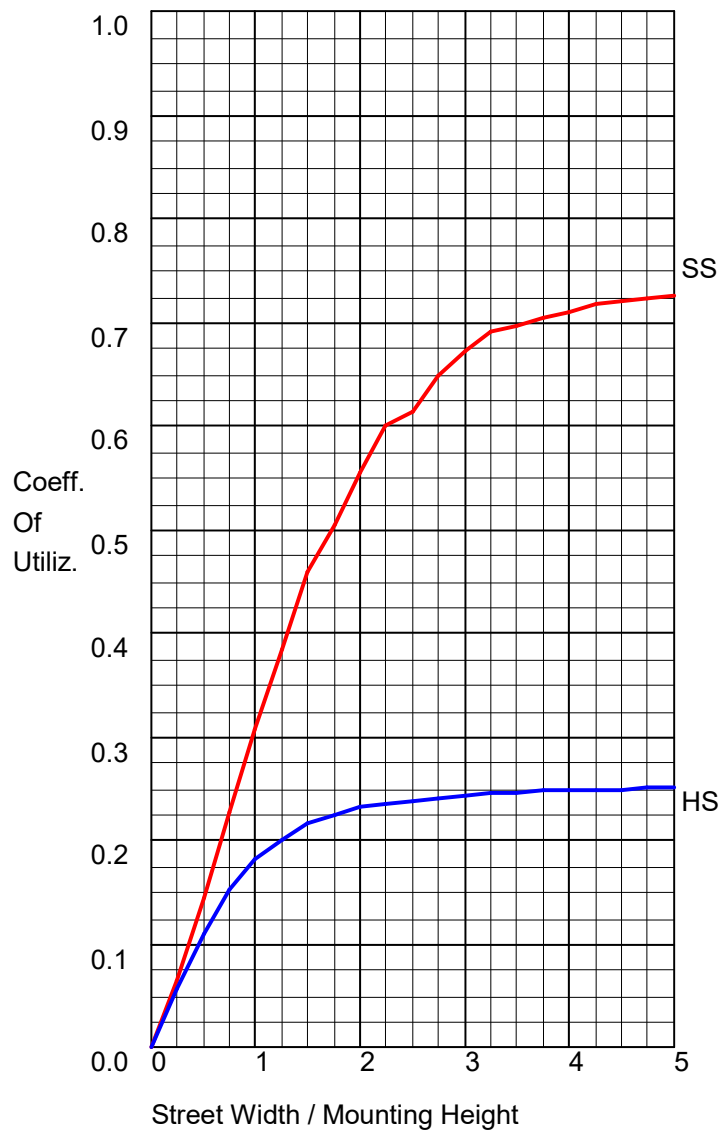
27.5	538	564
30.0	552	587
32.5	585	607
35.0	593	620
37.5	614	643
40.0	614	638
42.5	571	589
45.0	531	547
47.5	496	509
50.0	461	471
52.5	429	438
55.0	394	403
57.5	348	355
60.0	312	312
62.5	282	282
65.0	262	262
67.5	250	250
70.0	240	241
72.5	221	220
75.0	164	167
77.5	145	149
80.0	123	131
82.5	96	104
85.0	66	76
87.5	34	43
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	2	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

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

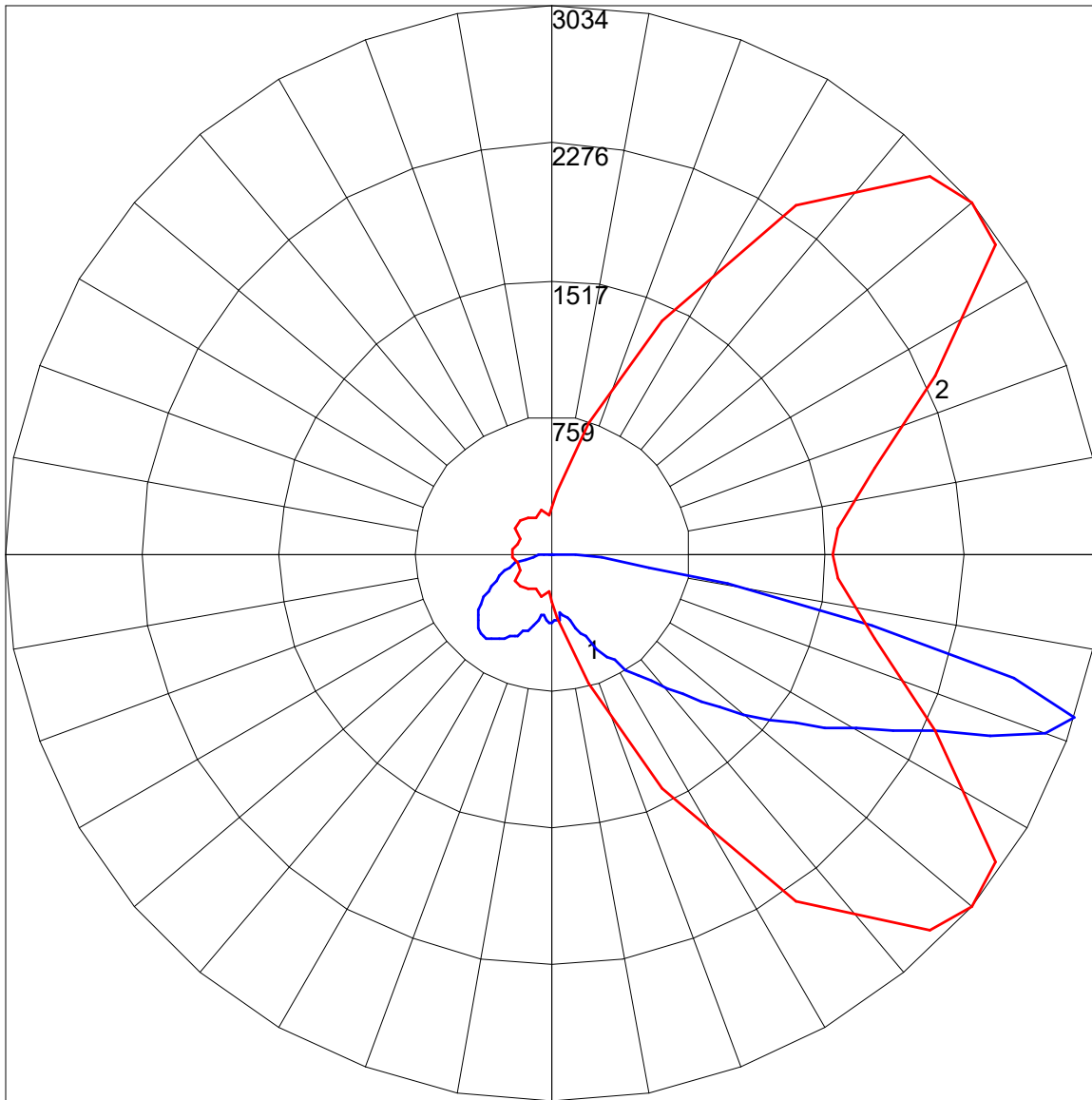
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

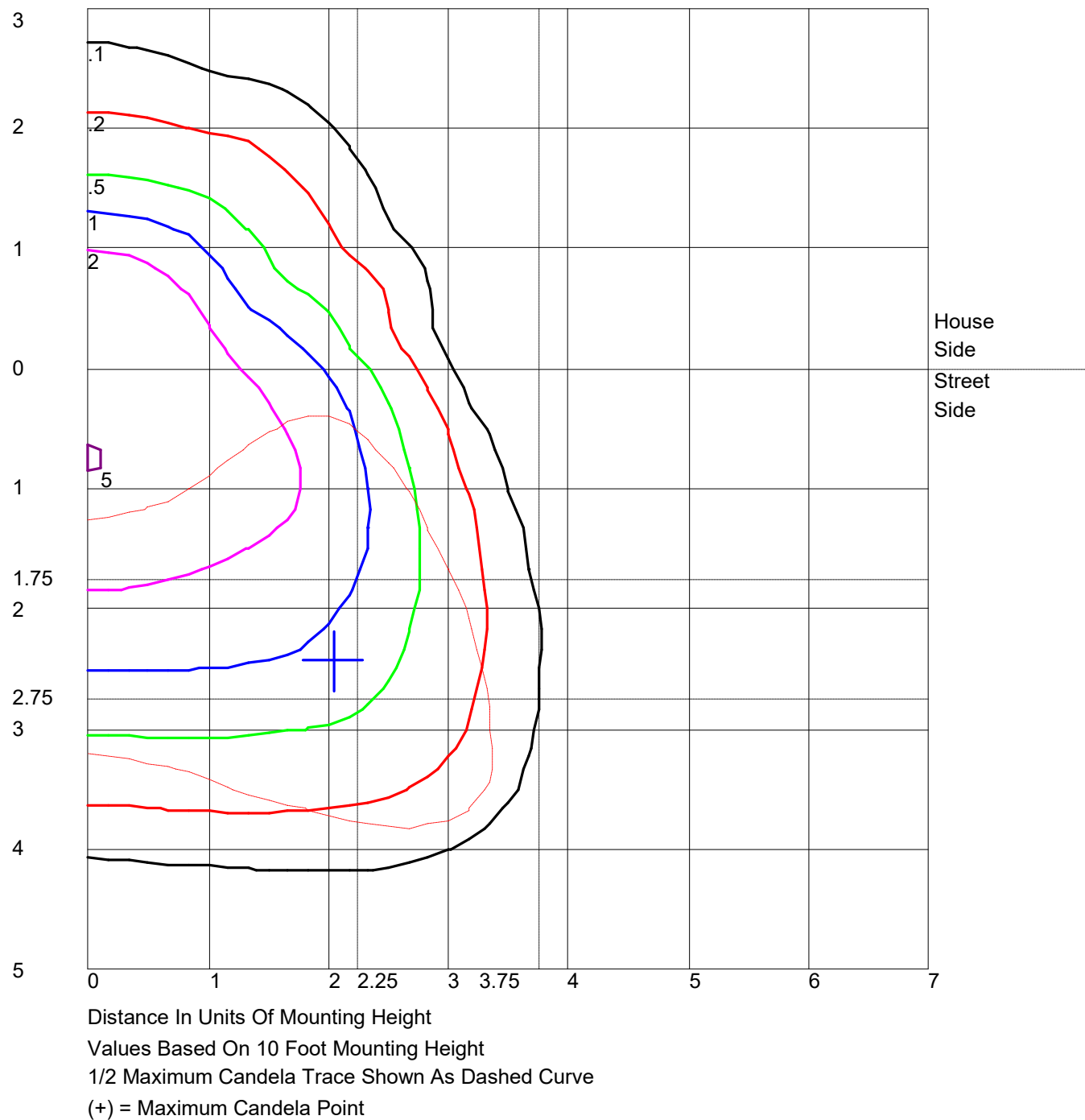
	Lumens	Percent Of Luminaire
Downward Street Side	3398.8	74.3
Downward House Side	1164.9	25.5
Downward Total	4563.7	99.8
Upward Street Side	5.7	0.1
Upward House Side	5.4	0.1
Upward Total	11.1	0.2
Total Flux	4574.8	100.0

POLAR GRAPH

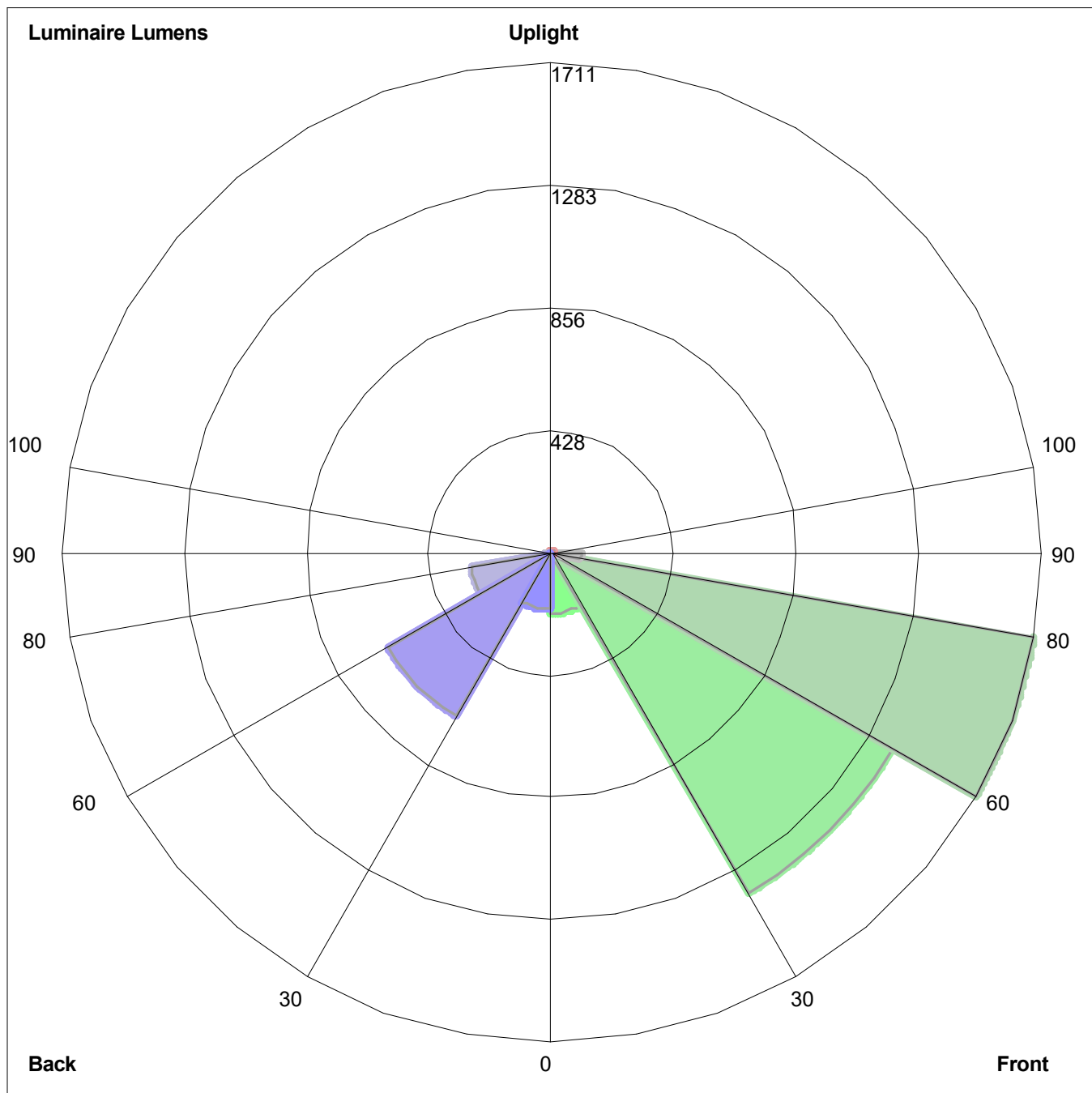


Maximum Candela = 3034 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=212.0, Medium=1373.2, High= 1711.0, Very High=102.6
Back: Low=198.9, Medium=657.8, High=283.7, Very High=24.4
Uplight: Low=3.8, High=7.4

BUG Rating : B1-U1-G2