



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-05L-40.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-40
[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	5055
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3353
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3353
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	50 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1086 (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)	234.2	N.A.	4.6
FM - Front-Medium (30-60)	1517.5	N.A.	30.0
FH - Front-High (60-80)	1890.8	N.A.	37.4
FVH - Front-Very High (80-90)	113.4	N.A.	2.2
BL - Back-Low (0-30)	219.8	N.A.	4.3
BM - Back-Medium (30-60)	727.0	N.A.	14.4
BH - Back-High (60-80)	313.5	N.A.	6.2
BVH - Back-Very High (80-90)	27.0	N.A.	0.5
UL - Uplight-Low (90-100)	4.0	N.A.	0.1
UH - Uplight-High (100-180)	7.4	N.A.	0.1
Total	5054.6	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	421	421	421	421	421	421	421	421	421	421
2.5	418	419	411	413	415	415	419	424	421	422
5.0	370	378	389	399	411	406	393	393	390	386
7.5	360	374	389	370	371	364	370	384	413	406
10.0	367	372	378	361	373	384	397	405	411	415
12.5	371	400	379	375	396	394	408	415	428	445
15.0	401	424	414	429	444	421	431	452	462	479
17.5	427	450	434	451	467	475	481	477	500	533
20.0	498	500	493	496	509	512	520	531	538	570
22.5	543	557	570	569	566	549	559	593	587	620
25.0	612	607	625	622	629	640	622	643	641	649
27.5	699	740	734	698	688	709	708	696	686	713
30.0	805	789	782	777	753	758	779	756	757	776
32.5	937	937	871	838	851	843	825	834	826	810
35.0	1051	1027	984	945	911	913	909	898	871	867
37.5	1160	1142	1087	1024	1010	989	973	968	933	887
40.0	1245	1248	1205	1141	1100	1083	1070	1034	993	931
42.5	1322	1330	1285	1272	1196	1171	1164	1124	1044	958
45.0	1413	1421	1395	1359	1319	1283	1271	1212	1103	996
47.5	1515	1525	1502	1471	1423	1395	1369	1314	1180	1051
50.0	1622	1633	1619	1590	1554	1530	1487	1435	1281	1127
52.5	1725	1742	1737	1718	1688	1673	1631	1584	1418	1222
55.0	1812	1834	1848	1844	1832	1814	1802	1770	1585	1342
57.5	1886	1904	1936	1956	1980	1974	1986	1990	1807	1498
60.0	1959	1977	2020	2054	2124	2150	2193	2258	2054	1676
62.5	2073	2088	2142	2187	2295	2344	2430	2554	2316	1828
65.0	2168	2192	2283	2388	2535	2582	2709	2825	2497	1891
67.5	2216	2249	2406	2570	2882	2909	3008	2999	2525	1733
70.0	2091	2131	2366	2746	3210	3221	3225	2983	2205	1308
72.5	1712	1756	2036	2579	3304	3353	3271	2606	1583	821
75.0	1100	1105	1434	1972	2771	2923	2777	1888	980	486
77.5	498	546	765	1214	1809	1999	1899	1161	584	317
80.0	233	267	445	683	984	1086	1048	698	365	192
82.5	145	158	295	433	488	602	578	373	206	104
85.0	109	118	207	275	310	301	281	168	103	58
87.5	75	83	135	146	188	147	69	58	37	27
90.0	29	34	50	25	27	17	9	5	3	3
92.5	5	5	6	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	421	421	421	421	421	421	421	421	421	421
2.5	424	425	426	421	421	426	428	430	419	414
5.0	388	387	389	398	406	404	408	410	404	394
7.5	411	408	413	429	407	390	367	379	371	383
10.0	405	409	412	422	391	394	382	382	373	392
12.5	445	445	457	438	414	394	399	424	421	440
15.0	482	481	479	447	413	434	441	462	470	461
17.5	530	519	515	478	443	473	494	493	491	494
20.0	571	577	565	493	472	505	504	517	521	524
22.5	647	623	617	543	527	543	545	539	533	545
25.0	684	692	678	567	604	581	559	550	561	566
27.5	746	725	733	614	644	600	576	569	585	594
30.0	789	768	768	654	672	641	600	592	591	603
32.5	810	798	783	700	707	672	635	612	610	630
35.0	853	826	815	739	724	692	670	620	638	645
37.5	875	861	835	759	735	706	672	649	635	669
40.0	879	855	826	771	737	707	673	650	642	671
42.5	875	855	816	749	712	697	663	651	632	656
45.0	893	862	813	727	682	673	647	635	638	611
47.5	921	878	817	708	648	644	619	611	614	564
50.0	968	901	830	690	612	612	589	597	573	524
52.5	1039	947	859	678	575	579	556	574	525	484
55.0	1132	1015	902	673	536	544	523	539	481	446
57.5	1242	1096	955	674	498	507	493	498	438	397
60.0	1354	1173	986	675	459	472	461	453	383	353
62.5	1416	1188	926	661	421	435	427	406	339	318
65.0	1372	1094	750	612	383	396	385	372	303	289
67.5	1116	842	520	508	340	355	349	343	274	270
70.0	747	527	348	380	292	310	317	312	251	254
72.5	389	287	237	276	241	266	280	280	223	226
75.0	249	179	152	196	188	215	238	233	161	153
77.5	161	113	103	136	142	167	186	147	114	120

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CANDELA TABULATION - (Cont.)

80.0	84	64	73	99	110	124	116	111	90	94
82.5	55	42	50	73	84	76	81	84	62	70
85.0	32	23	30	48	46	48	53	48	29	44
87.5	13	7	14	21	23	23	21	18	13	19
90.0	2	1	4	6	7	6	5	3	1	1
92.5	1	1	4	5	7	6	5	3	1	0
95.0	1	2	4	5	6	6	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

	175	180
0.0	421	421
2.5	408	405
5.0	388	396
7.5	381	380
10.0	403	403
12.5	451	454
15.0	482	493
17.5	509	516
20.0	537	544
22.5	543	571
25.0	580	599

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CANDELA TABULATION - (Cont.)

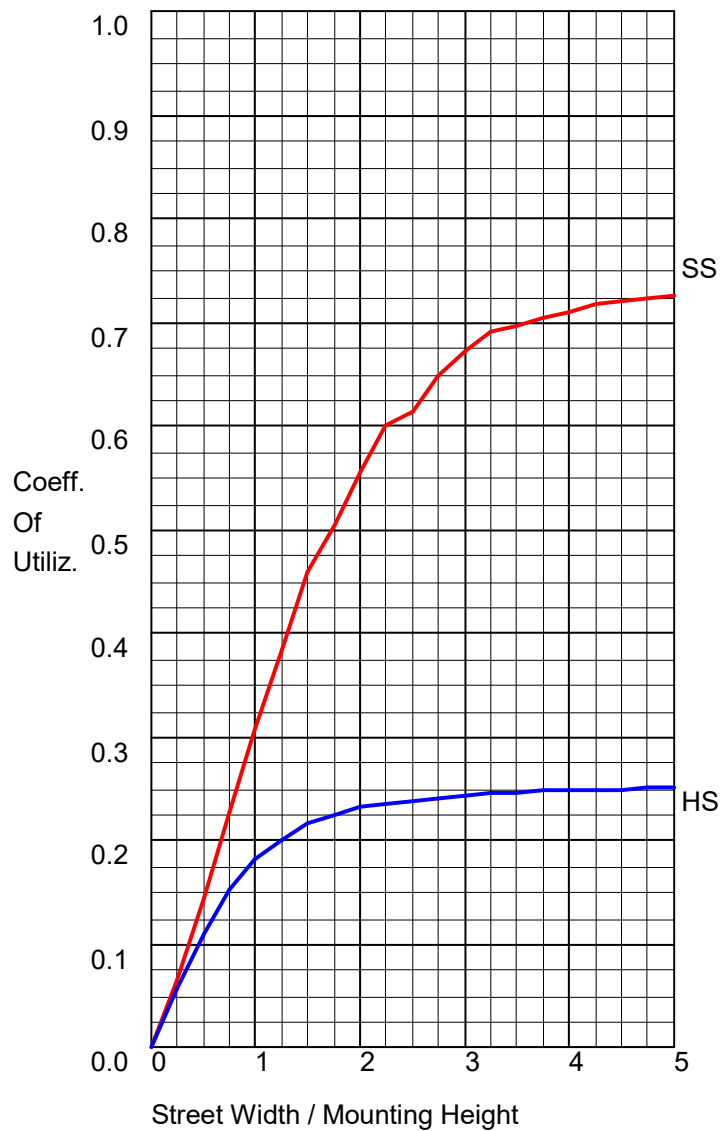
27.5	595	623
30.0	610	649
32.5	646	671
35.0	655	685
37.5	679	711
40.0	679	705
42.5	631	651
45.0	587	604
47.5	548	562
50.0	510	521
52.5	474	484
55.0	435	445
57.5	385	392
60.0	345	345
62.5	312	312
65.0	289	289
67.5	276	276
70.0	265	266
72.5	244	243
75.0	181	184
77.5	160	165
80.0	136	145
82.5	106	115
85.0	73	84
87.5	38	48
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

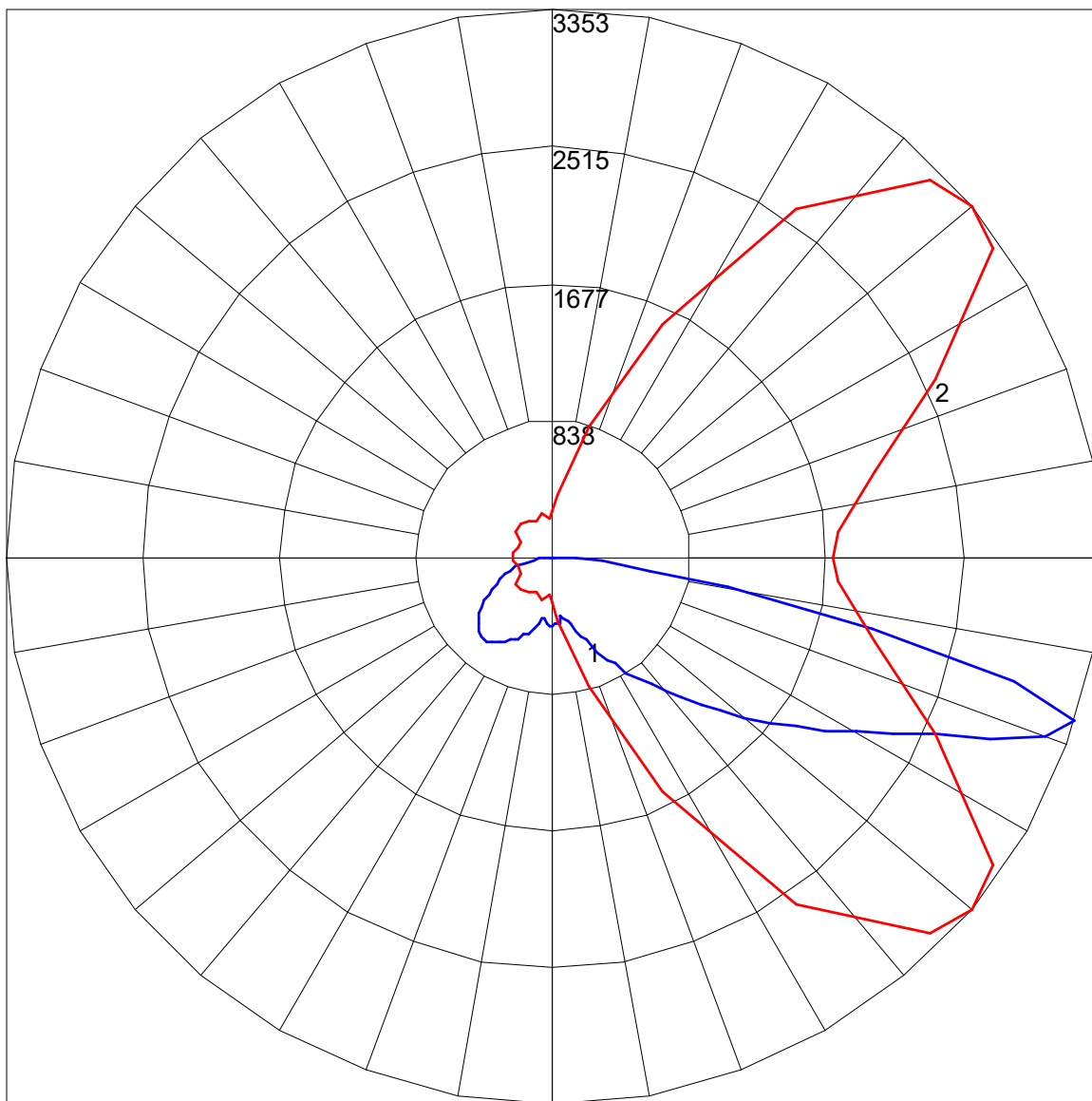
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

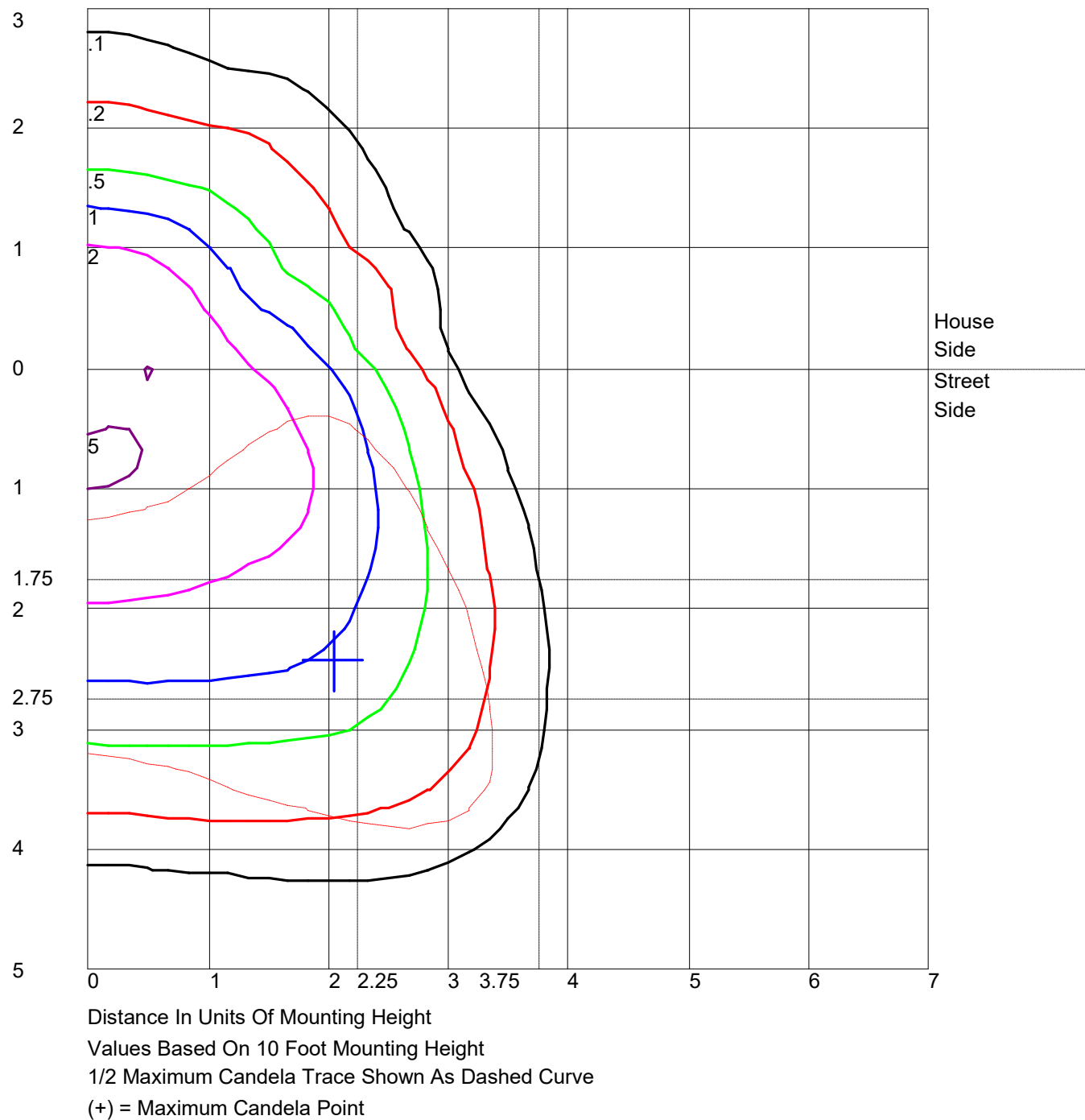
	Lumens	Percent Of Luminaire
Downward Street Side	3755.9	74.3
Downward House Side	1287.3	25.5
Downward Total	5043.2	99.8
Upward Street Side	5.8	0.1
Upward House Side	5.5	0.1
Upward Total	11.3	0.2
Total Flux	5054.5	100.0

POLAR GRAPH

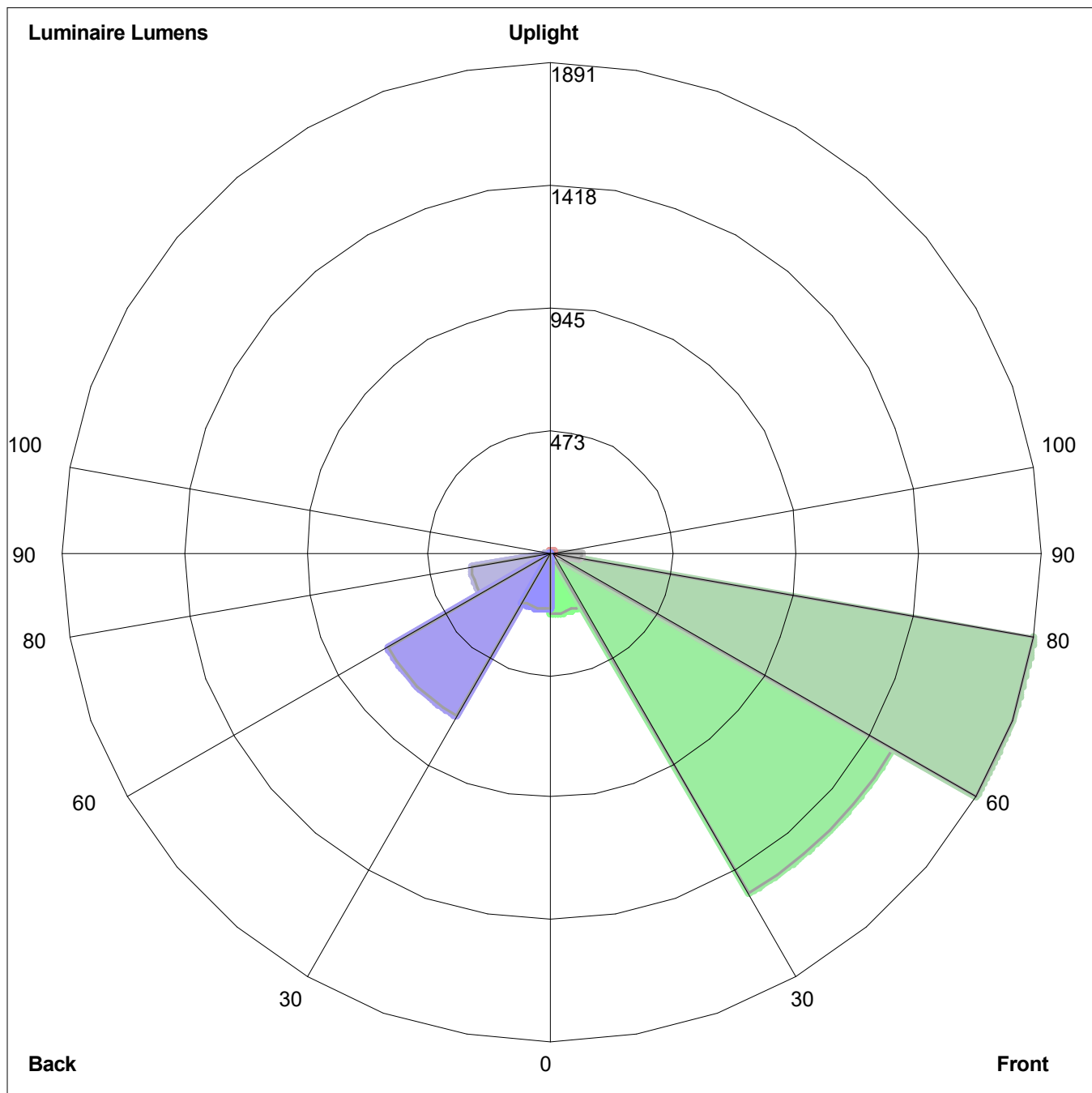


Maximum Candela = 3353 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=234.2, Medium=1517.5, High=1890.8, Very High=113.4
Back: Low=219.8, Medium=727.0, High=313.5, Very High=27.0
Uplight: Low=4.0, High=7.4

BUG Rating : B1-U1-G2