



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-3-LED-35-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7769
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/02/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-3-LED-35-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	33872
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	30264.315
Maximum Candela Angle	57.5H 70V
Maximum Candela (<90 Degrees Vertical)	30264.315
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2762.909 (8.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1529.9	N.A.	4.5
FM - Front-Medium (30-60)	12715.5	N.A.	37.5
FH - Front-High (60-80)	11197.8	N.A.	33.1
FVH - Front-Very High (80-90)	346.5	N.A.	1.0
BL - Back-Low (0-30)	1634.2	N.A.	4.8
BM - Back-Medium (30-60)	4488.9	N.A.	13.3
BH - Back-High (60-80)	1827.5	N.A.	5.4
BVH - Back-Very High (80-90)	131.3	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	33871.6	N.A.	100.0
BUG Rating	B3-U0-G4		

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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>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954
2.5	3185.313	3180.513	3173.793	3186.273	3200.673	3214.113	3226.594	3216.993	3236.194	3243.874
5.0	3007.711	3006.751	3003.871	3027.872	3060.512	3098.912	3144.033	3144.033	3192.993	3235.234
7.5	2844.510	2843.550	2847.390	2883.870	2935.711	2996.191	3066.272	3073.952	3144.033	3219.874
10.0	2710.108	2710.108	2718.748	2764.829	2828.189	2904.990	2996.191	3008.671	3087.392	3191.073
12.5	2634.267	2626.587	2645.788	2695.708	2759.069	2842.590	2943.391	2961.631	3057.632	3176.673
15.0	2621.787	2619.867	2641.947	2695.708	2758.109	2847.390	2948.191	2964.511	3065.312	3197.793
17.5	2680.348	2685.148	2712.988	2778.269	2853.150	2954.911	3049.952	3080.672	3168.993	3310.114
20.0	2851.230	2861.790	2892.510	2973.151	3084.512	3193.953	3306.274	3353.315	3427.236	3552.037
22.5	3163.233	3183.393	3216.033	3311.074	3450.276	3589.477	3716.199	3774.759	3843.880	3851.560
25.0	3716.199	3683.558	3731.559	3815.080	3966.761	4140.523	4252.844	4307.565	4300.845	4201.004
27.5	4337.325	4302.765	4382.446	4513.967	4635.888	4830.770	4890.291	4926.771	4824.050	4586.928
30.0	5037.172	4997.812	5105.333	5267.575	5437.497	5625.659	5688.059	5628.539	5410.616	5012.212
32.5	5787.900	5741.820	5873.341	6071.103	6321.666	6513.668	6505.028	6410.947	6051.903	5467.257
35.0	6522.308	6488.708	6663.429	6964.872	7267.276	7465.998	7393.997	7266.316	6760.390	5946.302
37.5	7232.715	7206.795	7495.758	7858.642	8258.006	8498.008	8363.607	8188.885	7511.118	6439.747
40.0	7973.843	7953.683	8336.727	8828.252	9324.577	9602.980	9391.778	9160.415	8316.567	6923.592
42.5	8871.452	8864.732	9353.377	9966.824	10546.670	10849.073	10455.469	10154.986	9070.174	7396.877
45.0	10069.545	10137.706	10690.671	11397.239	12063.486	12102.846	11523.000	11152.436	9794.022	7820.241
47.5	11369.398	11517.240	12098.046	12899.654	13672.462	13410.380	12538.691	12144.126	10483.309	8269.526
50.0	12661.572	12804.613	13365.259	14368.470	15323.679	14962.716	13473.740	13053.256	11148.596	8773.531
52.5	14067.986	14067.986	14667.033	15830.565	16923.056	16376.810	14562.392	13944.145	11879.164	9416.738
55.0	16370.090	16337.450	16801.135	17552.823	18478.272	17566.263	15394.720	14701.593	12614.531	10244.267
57.5	18411.072	18423.552	18885.317	19853.967	20406.932	18588.673	16128.168	15459.041	13625.422	11295.478
60.0	19025.478	19122.439	19901.967	21189.341	22405.673	20294.611	17027.697	16366.250	14615.192	12844.934
62.5	15611.682	15668.323	17692.024	20505.813	23737.207	22742.637	18909.317	18086.588	16197.289	14885.915
65.0	7608.079	7795.281	10305.707	16038.887	22645.676	24950.660	22288.552	21218.141	18556.033	16737.774
67.5	4224.044	4126.123	4847.090	7908.562	16198.249	25320.264	26682.518	26509.716	21910.308	18303.551
70.0	2315.544	2269.464	2751.389	4019.562	7443.917	19910.607	29983.992	30264.315	24871.939	16845.295
72.5	1326.734	1393.935	1767.378	2727.388	4202.924	10527.470	26198.673	27666.528	22241.511	19546.339
75.0	943.690	991.690	1266.253	2088.022	3196.833	5437.497	15547.362	17104.498	10796.272	22876.190
77.5	717.127	755.528	980.170	1728.978	2550.747	3594.277	6069.183	5774.460	3473.316	1519.696
80.0	495.365	528.966	737.288	1412.175	2162.903	2552.667	2762.909	2617.947	2028.501	881.289
82.5	309.123	332.163	523.205	1128.012	1688.658	1730.898	1418.895	1383.374	1091.531	507.845
85.0	191.042	197.762	339.844	822.729	1146.252	925.450	616.326	648.967	529.926	288.963
87.5	143.041	147.842	221.762	589.446	632.647	195.842	168.002	183.362	199.682	148.802
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954	3241.954
2.5	3263.074	3279.394	3270.754	3264.034	3280.354	3278.434	3293.794	3292.834	3287.074	3281.314
5.0	3284.194	3308.194	3305.314	3314.915	3340.835	3354.275	3380.195	3394.595	3402.275	3405.155
7.5	3298.594	3334.115	3338.915	3364.835	3412.836	3456.996	3516.517	3556.837	3577.957	3585.637
10.0	3303.394	3352.355	3364.835	3408.035	3481.956	3560.677	3668.198	3729.639	3756.519	3752.679
12.5	3312.994	3374.435	3392.675	3453.156	3553.957	3675.878	3797.800	3852.520	3865.000	3847.720
15.0	3347.555	3414.756	3439.716	3507.877	3641.318	3792.039	3897.641	3925.481	3937.001	3930.281
17.5	3445.476	3506.917	3524.197	3599.077	3746.919	3896.681	3968.681	3987.882	4008.042	4004.202
20.0	3629.798	3667.238	3672.998	3696.998	3857.320	3997.482	4038.762	4052.202	4053.162	4052.202
22.5	3830.440	3835.240	3809.320	3784.359	3936.041	4067.562	4128.043	4101.163	4081.002	4064.682
25.0	4047.402	3992.682	3918.761	3853.480	3988.842	4113.643	4199.084	4139.563	4082.922	4053.162
27.5	4273.004	4153.003	3997.482	3877.480	4000.362	4140.523	4231.724	4155.883	4071.402	4033.002

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CANDELA TABULATION - (Cont.)

30.0	4505.327	4287.405	4045.482	3853.480	3986.921	4144.363	4228.844	4160.683	4081.002	4063.722
32.5	4753.009	4416.046	4069.482	3781.479	3927.401	4117.483	4202.924	4176.043	4157.803	4222.124
35.0	5020.852	4537.967	4077.162	3667.238	3820.840	4057.002	4163.563	4219.244	4308.525	4512.047
37.5	5279.095	4655.088	4073.322	3510.757	3685.478	3961.001	4121.323	4225.964	4441.966	4815.410
40.0	5531.578	4767.410	4058.922	3349.475	3528.037	3841.000	4009.002	4126.123	4687.729	5193.654
42.5	5762.940	4871.091	4038.762	3178.593	3332.195	3667.238	3813.160	4088.683	5204.214	5278.135
45.0	5993.342	4990.132	4033.962	3009.631	3125.793	3426.276	3631.718	4192.364	5833.981	4883.571
47.5	6265.985	5160.054	4075.242	2880.030	2920.350	3223.714	3505.956	4352.685	6241.985	4570.608
50.0	6630.789	5413.496	4199.084	2795.549	2744.669	3067.232	3402.275	4454.446	6314.946	4373.806
52.5	7107.914	5801.340	4408.366	2758.109	2604.507	2938.591	3295.714	4355.565	6039.423	4222.124
55.0	7658.000	6161.344	4674.289	2758.109	2475.866	2817.629	3168.033	4004.202	5514.297	4069.482
57.5	7995.923	6395.587	4920.051	2776.349	2361.625	2680.348	3006.751	3467.556	4860.531	3887.080
60.0	8606.490	7242.315	5177.334	2770.589	2247.383	2511.386	2799.389	2974.111	4080.042	3655.718
62.5	10537.070	8466.328	4876.851	2551.707	2064.021	2284.824	2540.186	2558.427	3265.954	3438.756
65.0	12900.614	9081.695	3985.001	2147.542	1806.739	2015.061	2234.903	2180.183	2479.706	3161.313
67.5	13724.303	7945.043	2898.270	1584.016	1467.855	1686.738	1869.139	1848.019	1857.619	2775.389
70.0	9843.942	4760.690	1690.578	1106.892	1155.852	1285.453	1432.335	1548.496	1514.896	2401.945
72.5	3558.757	1697.298	852.489	825.609	911.049	921.610	1036.811	1268.173	1282.573	1993.941
75.0	1439.055	777.608	533.766	622.086	709.447	735.368	835.209	1061.771	1020.491	1497.616
77.5	828.489	473.285	402.244	492.485	592.326	627.847	710.407	739.208	629.767	911.049
80.0	485.765	307.203	291.843	390.724	487.685	539.526	528.966	538.566	465.605	622.086
82.5	312.963	203.522	217.922	317.763	382.084	332.163	363.844	386.884	327.363	400.324
85.0	179.522	119.041	159.362	276.483	224.642	224.642	268.803	227.522	178.562	224.642
87.5	90.241	59.521	128.641	192.962	133.441	121.921	118.081	96.961	72.961	90.241
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

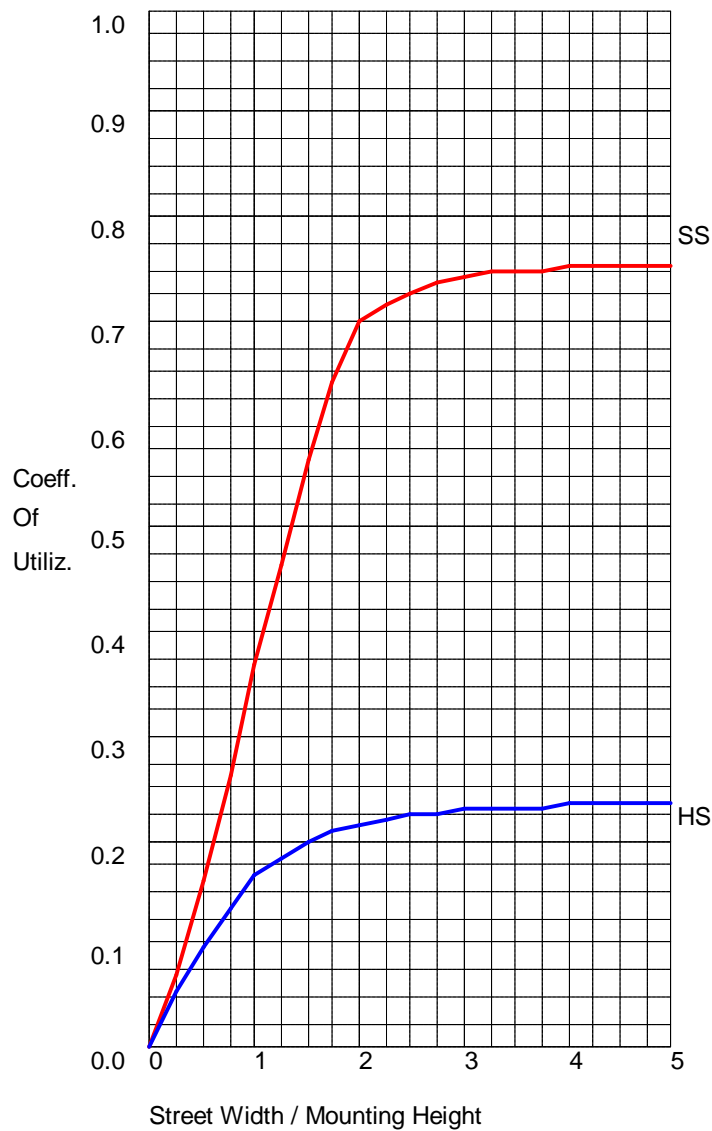
	175.0	180.0
0.0	3241.954	3241.954
2.5	3275.554	3252.514
5.0	3403.235	3377.315
7.5	3586.597	3561.637
10.0	3743.079	3717.159
12.5	3823.720	3805.480
15.0	3901.481	3880.360
17.5	3967.721	3937.961
20.0	4008.042	3971.561
22.5	4011.882	3966.761
25.0	3997.482	3948.521
27.5	3988.842	3941.801
30.0	4045.482	3997.482
32.5	4257.644	4225.964
35.0	4606.128	4567.728
37.5	4905.651	4820.210
40.0	4699.249	4517.807
42.5	4063.722	3893.801
45.0	3776.679	3643.238
47.5	3625.958	3504.036
50.0	3497.316	3360.035
52.5	3340.835	3175.713
55.0	3167.073	2966.431
57.5	2948.191	2694.748
60.0	2685.148	2394.265
62.5	2530.586	2249.303
65.0	2425.945	2200.343

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

67.5	2399.065	2282.904
70.0	2497.946	2478.746
72.5	2514.266	2574.747
75.0	2031.381	2312.664
77.5	1642.577	1946.900
80.0	993.610	1128.972
82.5	471.365	457.925
85.0	220.802	220.802
87.5	98.881	144.001
90.0	0.000	0.000

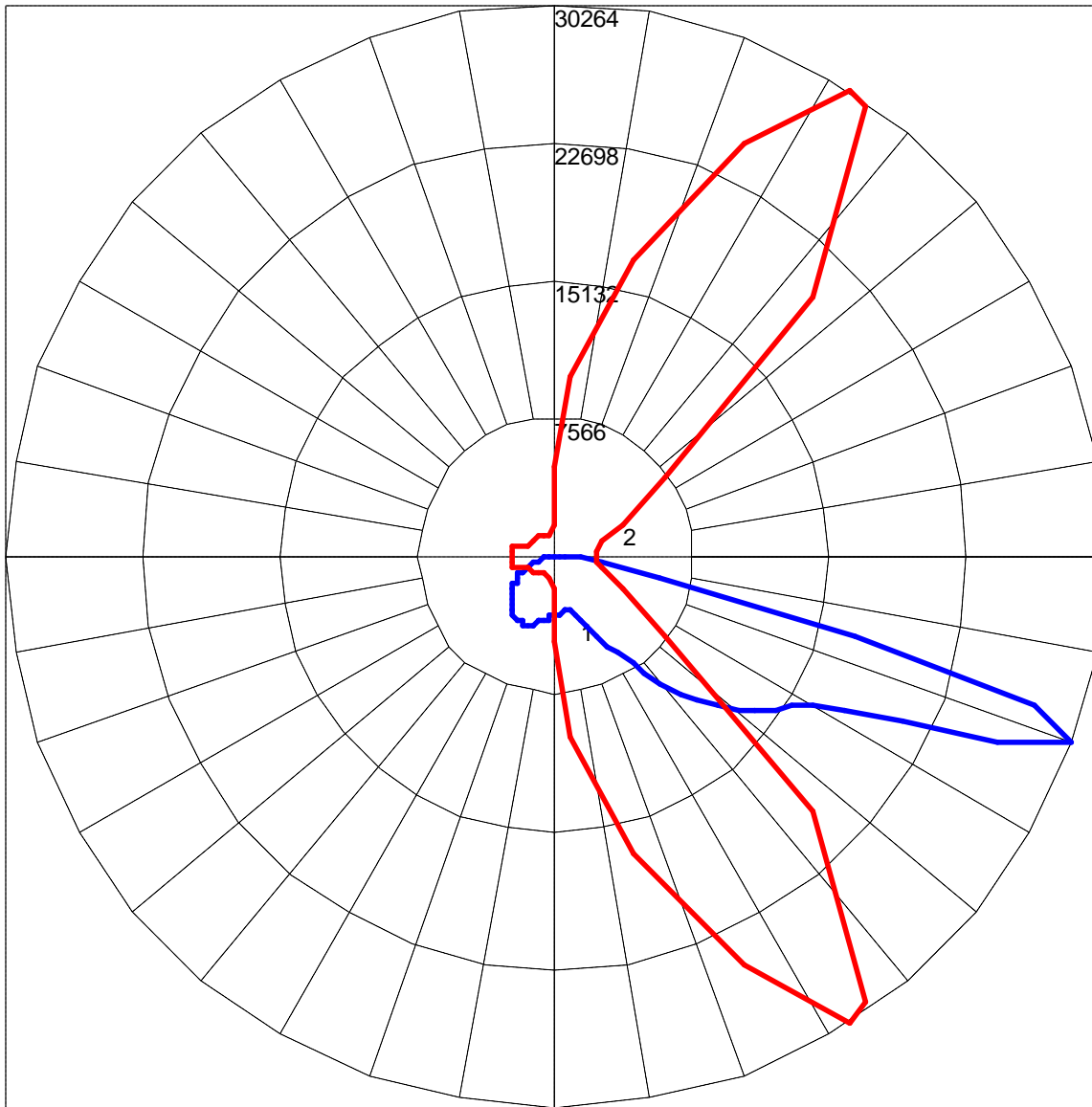
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

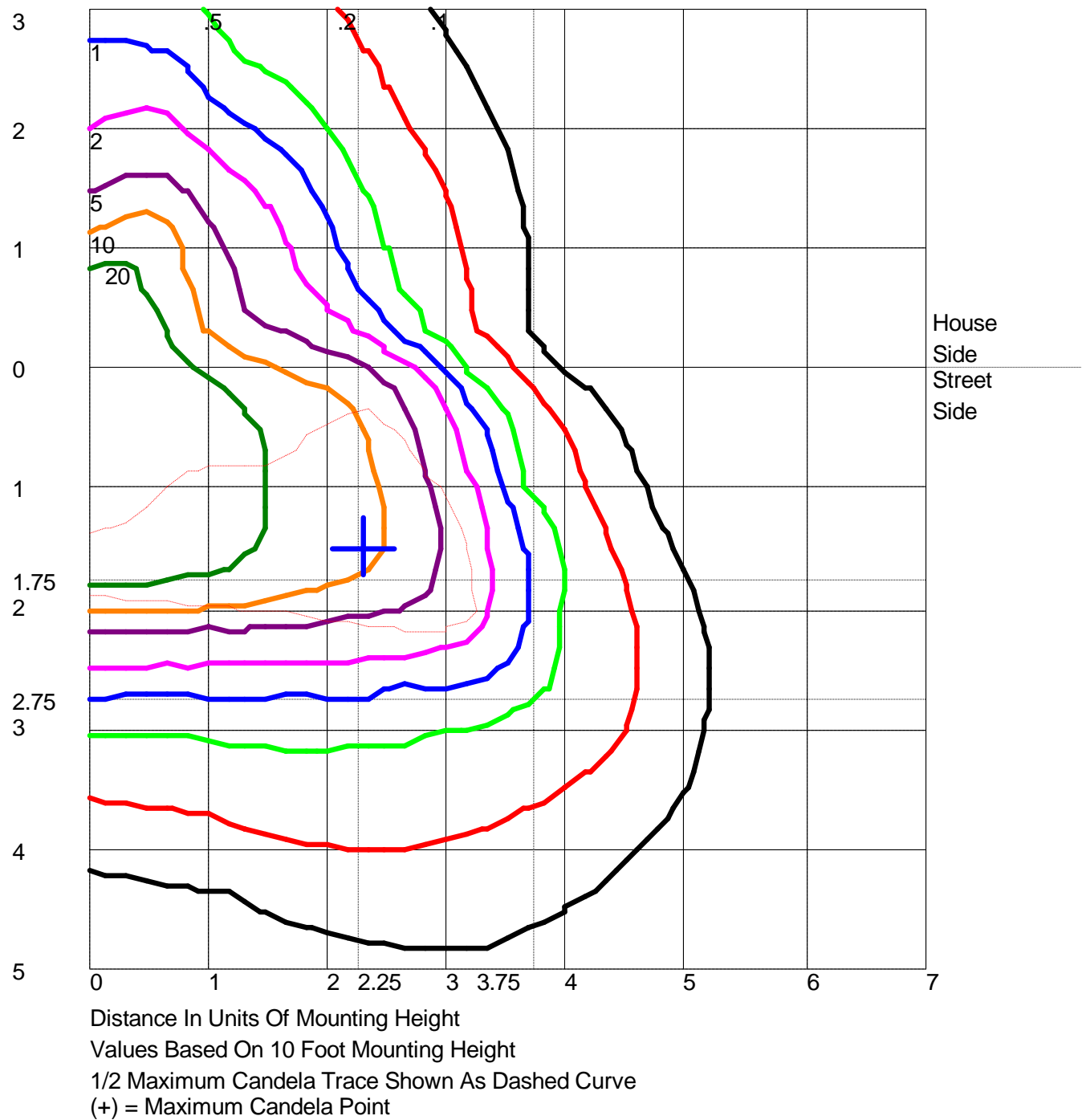
	Lumens	Percent Of Luminaire
Downward Street Side	25789.6	76.1
Downward House Side	8081.9	23.9
Downward Total	33871.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	33871.5	100.0

POLAR GRAPH

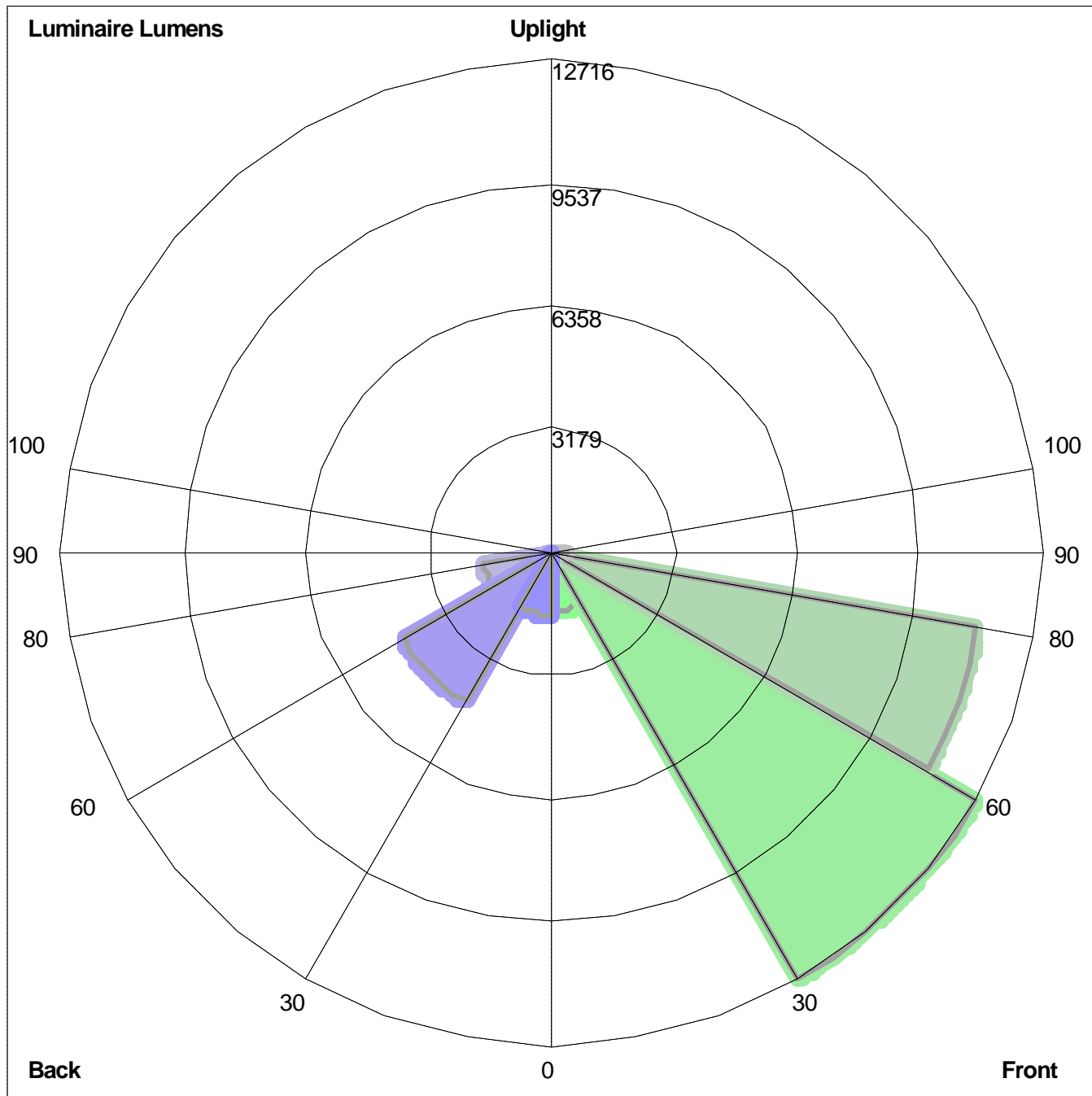


Maximum Candela = 30264.315 Located At Horizontal Angle = 57.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1529.9, Medium=12715.5, High=11197.8, Very High=346.5
Back: Low=1634.2, Medium=4488.9, High=1827.5, Very High=131.3
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4