



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-3-LED-29-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7785
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/05/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-3-LED-29-40
[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	27520
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	241.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24753.343
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	24753.343
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2582.373 (9.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1200.0	N.A.	4.4
FM - Front-Medium (30-60)	10081.1	N.A.	36.6
FH - Front-High (60-80)	9362.3	N.A.	34.0
FVH - Front-Very High (80-90)	307.7	N.A.	1.1
BL - Back-Low (0-30)	1271.8	N.A.	4.6
BM - Back-Medium (30-60)	3726.8	N.A.	13.5
BH - Back-High (60-80)	1466.9	N.A.	5.3
BVH - Back-Very High (80-90)	103.8	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	27520.4	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	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414
2.5	2506.534	2511.334	2506.534	2518.054	2519.014	2522.854	2529.574	2531.494	2535.334	2534.374
5.0	2425.895	2430.695	2426.855	2438.375	2451.815	2470.054	2494.054	2500.774	2516.134	2530.534
7.5	2350.056	2350.056	2351.016	2371.175	2395.175	2424.935	2459.494	2470.054	2501.734	2542.054
10.0	2280.936	2280.936	2283.816	2309.736	2344.296	2394.215	2445.095	2457.574	2492.134	2537.254
12.5	2253.097	2254.057	2257.897	2285.736	2323.176	2374.055	2427.815	2441.255	2477.734	2525.734
15.0	2263.656	2265.576	2274.216	2305.896	2347.176	2391.335	2436.455	2450.855	2496.934	2543.974
17.5	2301.096	2300.136	2315.496	2358.695	2416.295	2460.454	2493.094	2502.694	2537.254	2571.813
20.0	2361.575	2363.495	2386.535	2454.694	2520.934	2581.413	2608.293	2612.133	2645.733	2665.892
22.5	2488.294	2489.254	2512.294	2615.013	2701.412	2807.011	2883.810	2896.290	2963.489	2973.089
25.0	2710.052	2714.852	2749.411	2904.930	3041.248	3186.207	3338.845	3412.765	3421.404	3298.526
27.5	3035.488	3046.048	3155.487	3331.165	3517.403	3715.161	3930.199	3943.639	3845.720	3580.763
30.0	3525.083	3537.563	3683.482	3885.080	4113.557	4358.355	4516.753	4503.313	4297.875	3908.119
32.5	4224.916	4218.196	4377.555	4568.593	4832.590	5151.306	5212.746	5146.507	4835.470	4306.515
35.0	4997.708	4992.908	5164.746	5355.784	5668.741	5998.978	5974.018	5877.059	5464.263	4774.990
37.5	5642.821	5657.221	5923.138	6192.896	6593.211	6933.048	6824.569	6684.411	6138.176	5237.706
40.0	6182.336	6238.015	6584.572	7079.926	7590.641	7938.158	7742.320	7543.602	6805.369	5638.981
42.5	6807.289	6886.008	7312.244	8005.357	8741.669	8997.987	8677.350	8412.393	7470.642	6002.818
45.0	7726.000	7833.519	8356.713	9134.305	9999.256	10123.095	9603.740	9253.344	8109.036	6350.334
47.5	8724.389	8789.669	9387.742	10306.453	11348.042	11284.683	10486.931	10057.815	8586.937	6716.090
50.0	9629.660	9683.419	10279.573	11297.163	12408.831	12361.792	11280.843	10859.407	9239.904	7179.765
52.5	10699.089	10740.368	11336.522	12335.872	13261.302	13152.823	11943.236	11448.841	9811.098	7725.040
55.0	12173.634	12156.354	12612.349	13405.301	14292.331	13499.380	12326.272	11862.597	10410.132	8424.872
57.5	14167.533	14130.093	14577.449	14919.205	15398.240	14189.613	12533.630	12153.474	10965.966	9360.863
60.0	15553.758	15772.636	16267.991	16931.344	17215.501	15172.642	12872.506	12515.390	11630.279	10739.408
62.5	14417.130	14603.368	15719.837	17193.421	19020.282	16831.505	14198.252	13690.418	12655.548	12210.113
65.0	8123.436	8299.114	10994.766	14918.245	18844.604	19856.434	16423.509	15612.318	14671.528	13580.019
67.5	4091.477	4037.718	4824.910	8352.873	15246.562	20883.623	20690.665	19927.473	16942.864	14288.492
70.0	2256.937	2356.776	2783.971	3894.680	7699.120	18147.651	24753.343	24401.026	18792.765	12753.467
72.5	1319.026	1394.866	1717.422	2559.333	3890.840	10514.771	23549.515	24114.949	17146.382	7088.566
75.0	888.951	948.470	1204.787	1943.980	2901.090	5060.107	15293.601	15864.795	9174.625	2294.376
77.5	663.353	705.593	907.191	1599.343	2271.336	3216.927	6407.933	5955.778	2998.049	1165.428
80.0	466.555	498.235	691.193	1314.226	1899.820	2245.417	2582.373	2388.455	1679.023	673.913
82.5	289.917	305.277	493.435	1015.669	1488.945	1508.144	1321.906	1281.587	941.750	399.356
85.0	189.118	194.878	323.517	730.552	983.990	848.631	561.594	612.474	448.315	235.198
87.5	132.479	136.319	207.358	509.755	528.955	239.038	159.358	200.638	176.638	130.559
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	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414	2533.414
2.5	2535.334	2551.653	2553.573	2551.653	2553.573	2557.413	2559.333	2559.333	2555.493	2549.734
5.0	2543.974	2560.293	2566.053	2567.013	2580.453	2600.613	2620.773	2639.013	2651.492	2658.212
7.5	2572.773	2591.973	2599.653	2607.333	2642.853	2688.932	2732.132	2770.531	2796.451	2807.011
10.0	2582.373	2605.413	2617.893	2643.813	2722.532	2803.171	2867.490	2903.010	2918.370	2924.130
12.5	2585.253	2610.213	2624.613	2659.172	2770.531	2886.690	2978.849	3006.689	2988.449	2979.809
15.0	2606.373	2637.093	2655.332	2711.972	2853.090	2967.329	3029.729	3068.128	3060.448	3039.328
17.5	2618.853	2646.692	2672.612	2756.131	2928.930	3053.728	3078.688	3105.568	3143.967	3111.328
20.0	2678.372	2688.932	2712.932	2814.691	3018.209	3110.368	3143.967	3154.527	3191.967	3171.807
22.5	2887.650	2855.010	2826.211	2860.770	3095.968	3180.447	3220.767	3209.247	3213.087	3203.487
25.0	3077.728	2975.009	2904.930	2884.770	3131.487	3222.687	3296.606	3263.966	3214.047	3215.007
27.5	3221.727	3047.968	2924.130	2877.090	3129.567	3251.486	3329.245	3303.326	3222.687	3223.647

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CANDELA TABULATION - (Cont.)

30.0	3398.365	3132.447	2931.810	2850.210	3118.048	3256.286	3336.925	3331.165	3267.806	3295.646
32.5	3602.843	3232.286	2930.850	2778.211	3071.968	3236.126	3333.085	3361.885	3388.765	3470.364
35.0	3863.000	3368.605	2941.409	2676.452	2994.209	3172.767	3321.565	3412.765	3535.643	3726.681
37.5	4107.797	3494.364	2953.889	2569.893	2899.170	3096.928	3292.766	3399.325	3681.562	4126.037
40.0	4329.555	3599.003	2954.849	2456.614	2786.851	3016.289	3189.087	3352.285	4245.076	4833.550
42.5	4534.993	3702.682	2957.729	2340.456	2657.252	2892.450	3052.768	3459.804	5198.346	4836.430
45.0	4737.551	3819.800	2979.809	2231.977	2518.054	2749.411	2964.449	3635.482	6147.776	4376.595
47.5	4982.348	3984.919	3044.128	2153.258	2383.655	2648.612	2896.290	3760.281	6558.652	4070.358
50.0	5303.945	4222.996	3153.567	2111.978	2263.656	2556.453	2821.411	3779.481	6502.972	3891.800
52.5	5729.220	4496.593	3287.966	2091.818	2159.018	2466.214	2728.292	3572.123	6093.057	3762.201
55.0	6111.296	4700.111	3434.844	2071.658	2045.739	2360.615	2605.413	3179.487	5456.583	3647.962
57.5	6298.495	4812.430	3538.523	2041.899	1926.700	2231.017	2447.975	2730.212	4670.351	3525.083
60.0	6836.089	5405.704	3637.402	1999.659	1802.861	2069.738	2267.496	2394.215	3749.721	3319.646
62.5	8448.872	6022.977	3365.725	1864.301	1640.623	1881.580	2075.498	2094.698	2811.811	3140.127
65.0	10206.614	6094.017	2764.771	1576.304	1419.825	1652.143	1850.861	1792.301	2009.259	2861.730
67.5	10659.729	5174.346	1958.380	1170.228	1169.268	1359.346	1515.824	1544.624	1516.784	2479.654
70.0	7329.524	2860.770	1128.948	857.271	945.590	1034.869	1167.348	1300.786	1266.227	2050.539
72.5	2783.971	1238.387	618.234	662.393	760.312	762.232	862.071	1054.069	1049.269	1624.303
75.0	1079.989	605.754	410.876	517.435	608.634	622.074	697.913	896.631	833.271	1215.347
77.5	626.873	381.116	319.677	422.396	509.755	533.754	598.074	600.954	503.035	685.433
80.0	371.516	255.357	241.917	331.197	418.556	431.036	426.236	440.635	372.476	472.315
82.5	240.957	170.878	182.398	265.917	324.477	275.517	291.837	316.797	255.357	301.437
85.0	146.878	102.719	136.319	222.718	187.198	182.398	209.278	176.638	132.479	161.278
87.5	71.999	47.040	105.599	140.159	110.399	100.799	87.359	71.999	49.919	63.359
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

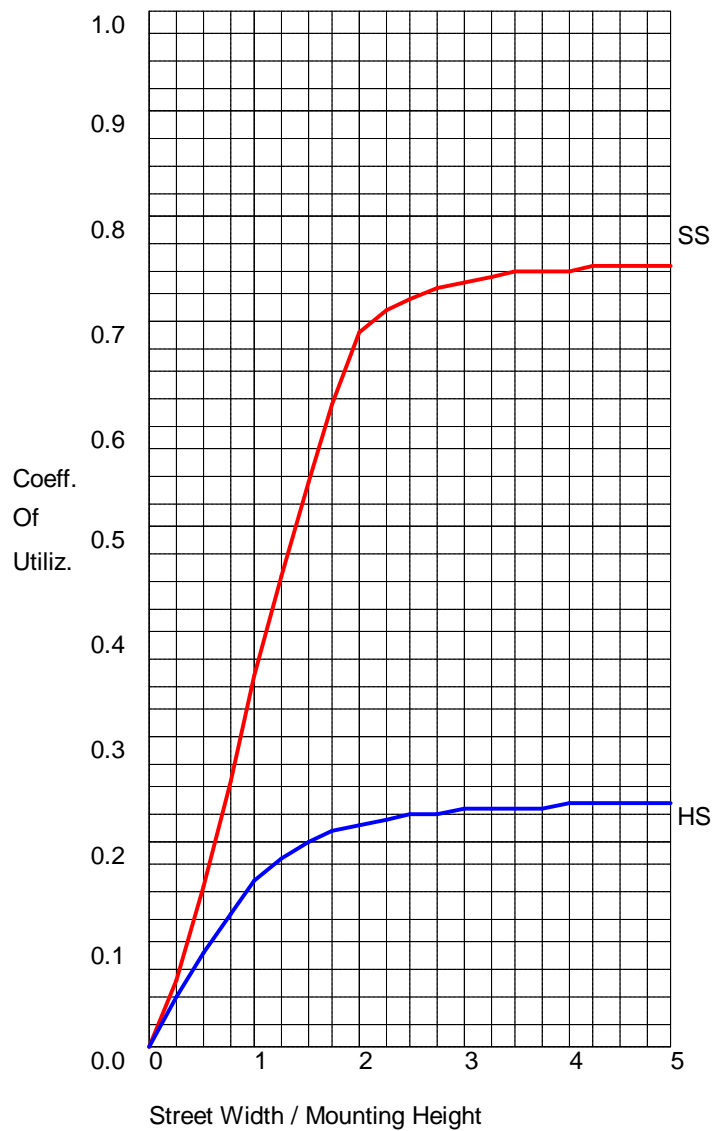
	<u>175.0</u>	<u>180.0</u>
0.0	2533.414	2533.414
2.5	2543.014	2530.534
5.0	2658.212	2655.332
7.5	2809.891	2805.091
10.0	2921.250	2910.690
12.5	2979.809	2966.369
15.0	3050.848	3038.368
17.5	3113.248	3102.688
20.0	3149.727	3142.047
22.5	3153.567	3151.647
25.0	3146.847	3142.047
27.5	3161.247	3154.527
30.0	3258.206	3242.846
32.5	3488.604	3469.404
35.0	3765.081	3702.682
37.5	4019.478	3887.960
40.0	3921.559	3655.642
42.5	3444.444	3268.766
45.0	3224.606	3084.448
47.5	3090.208	2956.769
50.0	2936.609	2800.291
52.5	2755.171	2604.453
55.0	2583.333	2399.015
57.5	2426.855	2163.818
60.0	2252.137	1884.460
62.5	2164.778	1696.302
65.0	2077.418	1662.703

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

67.5	2093.738	1852.781
70.0	2162.858	2054.379
72.5	2072.618	2140.778
75.0	1624.303	1985.259
77.5	1268.147	1577.264
80.0	742.072	837.111
82.5	345.596	329.277
85.0	153.598	146.878
87.5	107.519	53.759
90.0	0.000	0.000

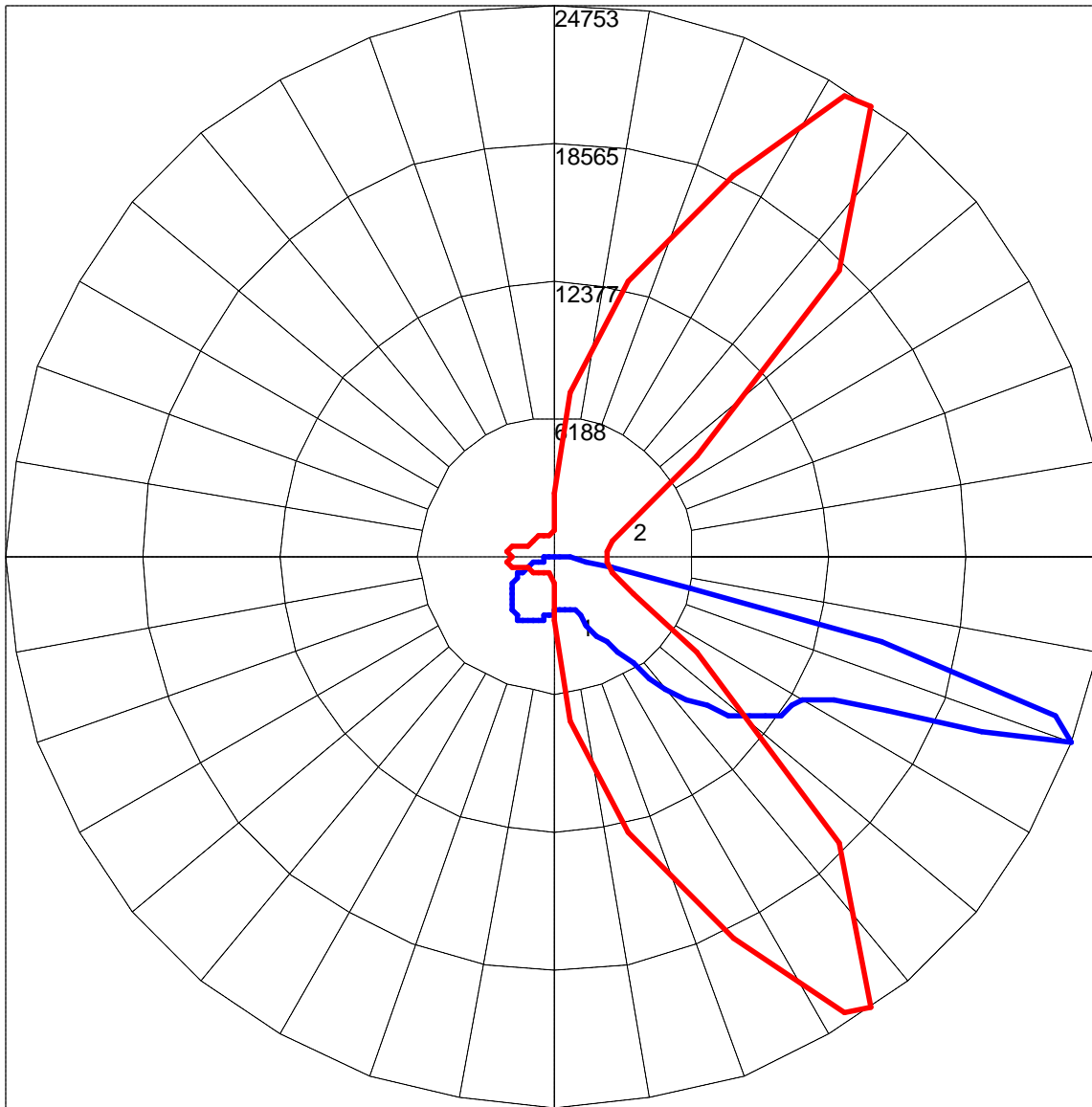
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

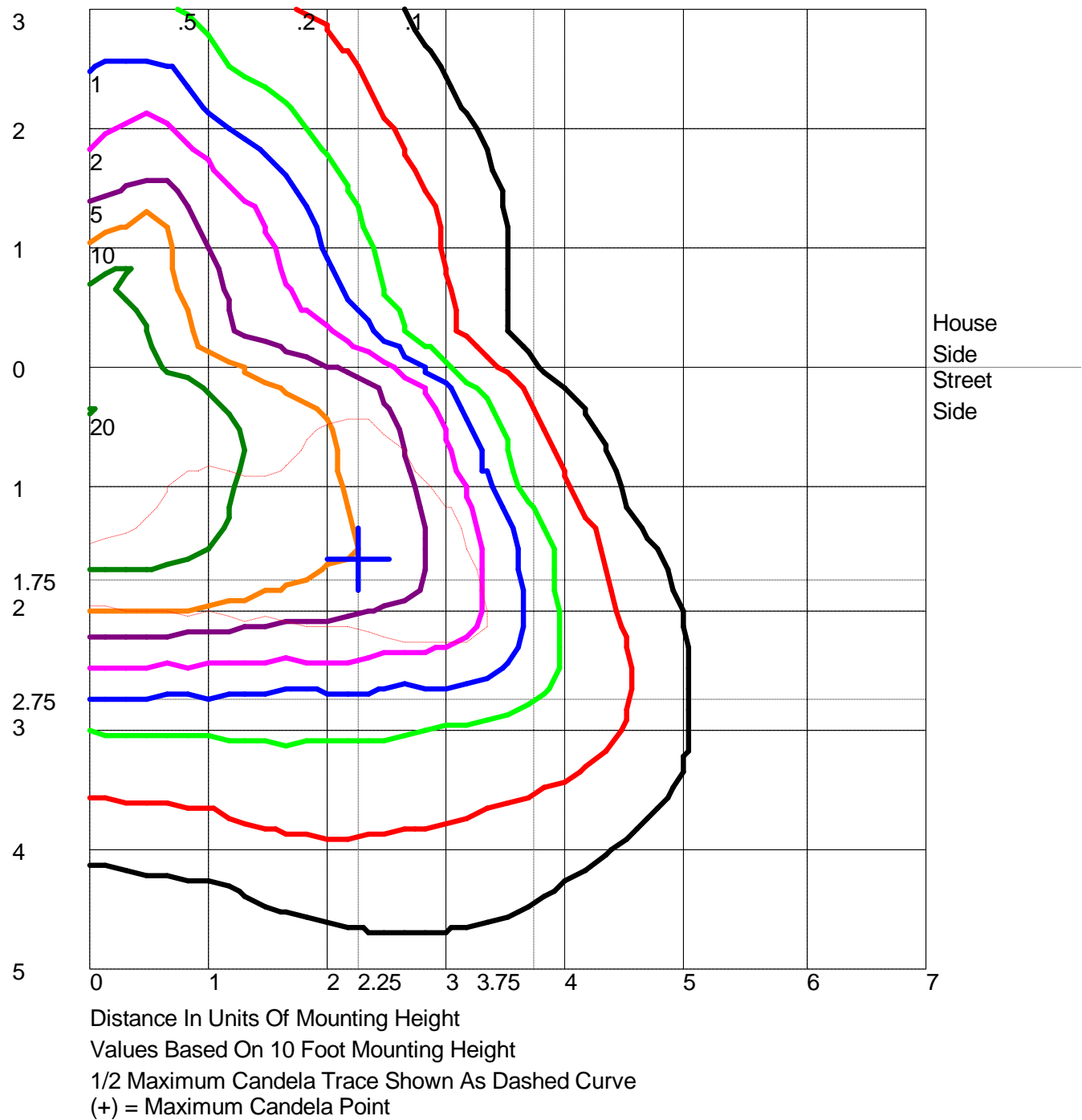
	Lumens	Percent Of Luminaire
Downward Street Side	20951.1	76.1
Downward House Side	6569.3	23.9
Downward Total	27520.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27520.4	100.0

POLAR GRAPH

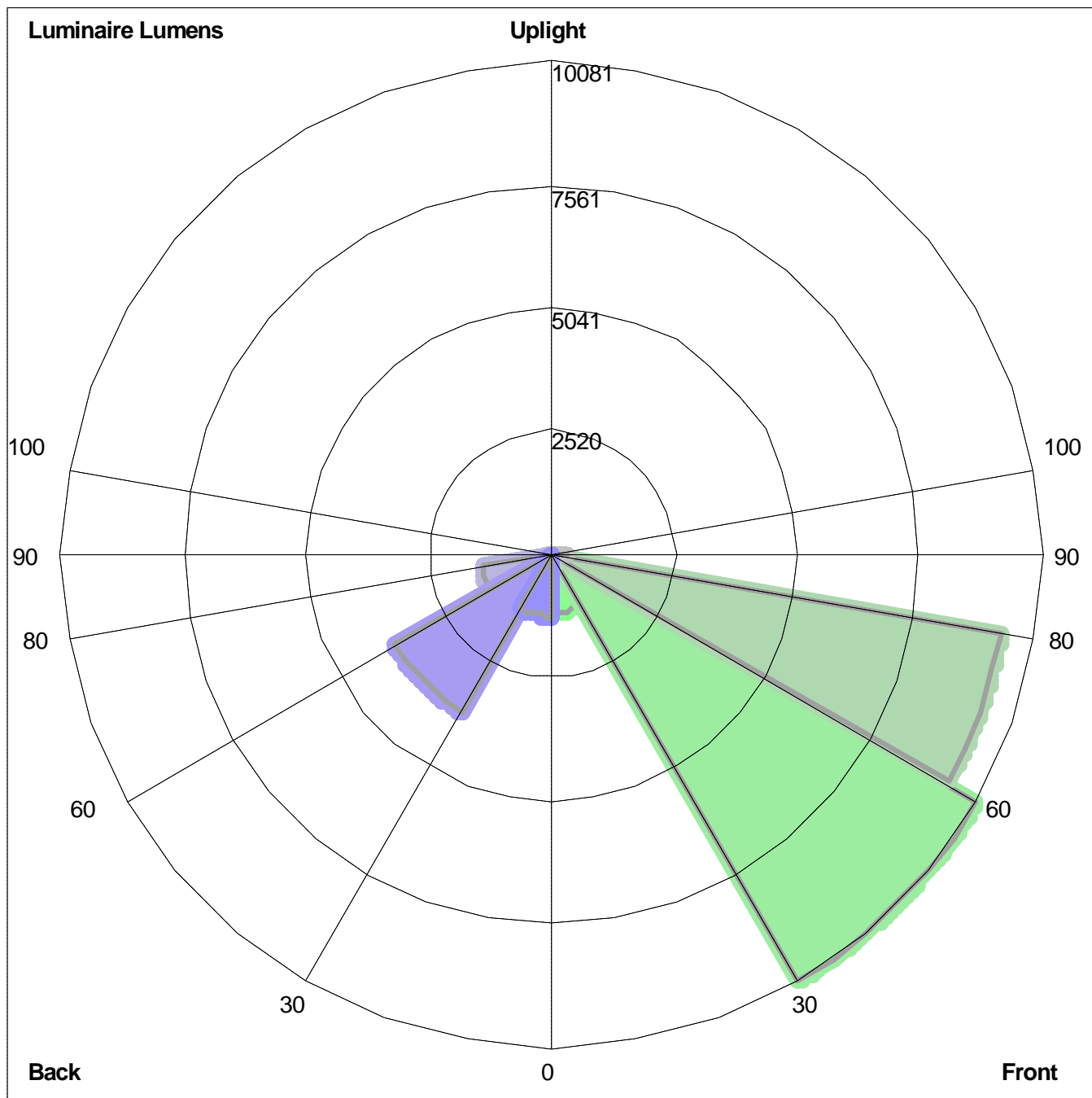


Maximum Candela = 24753.343 Located At Horizontal Angle = 55, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1200.0, Medium=10081.1, High=9362.3, Very High=307.7
Back: Low=1271.8, Medium=3726.8, High=1466.9, Very High=103.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4