



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-29-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7772
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/02/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-FT-LED-29-30
[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24973
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	241
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18891.264
Maximum Candela Angle	42.5H 70V
Maximum Candela (<90 Degrees Vertical)	18891.264
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4250.848 (17.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1758.9	N.A.	7.0
FM - Front-Medium (30-60)	7046.4	N.A.	28.2
FH - Front-High (60-80)	9510.5	N.A.	38.1
FVH - Front-Very High (80-90)	360.0	N.A.	1.4
BL - Back-Low (0-30)	1474.6	N.A.	5.9
BM - Back-Medium (30-60)	3373.1	N.A.	13.5
BH - Back-High (60-80)	1357.8	N.A.	5.4
BVH - Back-Very High (80-90)	91.5	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	24972.8	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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456
2.5	3535.840	3553.088	3553.088	3553.088	3551.520	3562.496	3553.088	3557.792	3543.680	3543.680
5.0	3515.456	3535.840	3542.112	3556.224	3565.632	3590.720	3586.016	3607.968	3609.536	3612.672
7.5	3488.800	3512.320	3524.864	3546.816	3571.904	3620.512	3618.944	3669.120	3700.480	3727.136
10.0	3532.704	3556.224	3565.632	3593.856	3633.056	3680.096	3681.664	3752.224	3811.808	3860.416
12.5	3639.328	3664.416	3678.528	3698.912	3733.408	3777.312	3780.448	3857.280	3934.112	4004.672
15.0	3775.744	3805.536	3818.080	3843.168	3868.256	3901.184	3916.864	3979.584	4064.256	4155.200
17.5	3923.136	3949.792	3954.496	3979.584	4004.672	4037.600	4045.440	4105.024	4188.128	4290.048
20.0	4083.072	4092.480	4095.616	4106.592	4122.272	4153.632	4163.040	4227.328	4302.592	4406.080
22.5	4217.920	4227.328	4224.192	4230.464	4230.464	4250.848	4255.552	4321.408	4391.968	4497.024
25.0	4340.224	4348.064	4340.224	4337.088	4326.112	4332.384	4330.816	4384.128	4462.528	4567.584
27.5	4456.256	4460.960	4443.712	4424.896	4404.512	4396.672	4391.968	4428.032	4508.000	4620.896
30.0	4558.176	4561.312	4536.224	4501.728	4464.096	4446.848	4448.416	4459.392	4534.656	4655.392
32.5	4636.576	4638.144	4602.080	4559.744	4512.704	4487.616	4482.912	4486.048	4551.904	4669.504
35.0	4693.024	4696.160	4650.688	4597.376	4547.200	4526.816	4517.408	4515.840	4562.880	4680.480
37.5	4755.744	4754.176	4699.296	4631.872	4583.264	4572.288	4559.744	4558.176	4578.560	4688.320
40.0	4843.552	4837.280	4772.992	4697.728	4642.848	4636.576	4630.304	4630.304	4617.760	4707.136
42.5	4984.672	4978.400	4912.544	4834.144	4772.992	4754.176	4760.448	4762.016	4696.160	4749.472
45.0	5233.984	5244.960	5177.536	5083.456	5014.464	4978.400	5022.304	4987.808	4834.144	4834.144
47.5	5723.200	5688.704	5630.688	5516.224	5434.688	5384.512	5434.688	5371.968	5094.432	5003.488
50.0	6438.208	6392.736	6359.808	6237.504	6104.224	6016.416	6079.136	6022.688	5535.040	5326.496
52.5	7463.680	7419.776	7438.592	7317.856	7107.744	7024.640	7004.256	6990.144	6185.760	5762.400
55.0	8725.920	8697.696	8835.680	8791.776	8478.176	8319.808	8326.080	8242.976	7161.056	6420.960
57.5	9795.296	9843.904	10144.960	10474.240	10195.136	10011.680	9974.048	9812.544	8410.752	7278.656
60.0	10656.128	10707.872	11259.808	12034.400	12228.832	12072.032	12014.016	11723.936	9760.800	8109.696
62.5	11394.656	11468.352	12260.192	13528.704	14362.880	14394.240	14449.120	13646.304	11135.936	8774.528
65.0	11562.432	11694.144	12787.040	14811.328	16451.456	16611.392	16661.568	15444.800	12131.616	9025.408
67.5	10598.112	10747.072	12514.208	15629.824	17782.688	18364.416	18458.496	16551.808	12371.520	8332.352
70.0	8791.776	9121.056	10549.504	14696.864	17983.392	18891.264	18795.616	16274.272	10689.056	6322.176
72.5	6044.640	6478.976	7982.688	11358.592	16206.848	17290.336	17257.408	13050.464	7650.272	3686.368
75.0	2762.816	3128.160	4581.696	7411.936	11941.888	13589.856	13117.888	9171.232	4042.304	1400.224
77.5	1023.904	1146.208	1969.408	3887.072	6533.856	8653.792	8518.944	5169.696	1684.032	793.408
80.0	624.064	702.464	1210.496	1967.840	3054.464	4152.064	4250.848	2466.464	871.808	497.056
82.5	440.608	497.056	879.648	1406.496	1726.368	2149.728	2080.736	1063.104	484.512	282.240
85.0	310.464	360.640	686.784	1069.376	1246.560	925.120	801.248	354.368	274.400	148.960
87.5	206.976	258.720	519.008	567.616	730.688	230.496	101.920	108.192	84.672	62.720
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	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456	3515.456
2.5	3548.384	3557.792	3534.272	3509.184	3513.888	3496.640	3507.616	3501.344	3488.800	3484.096
5.0	3609.536	3611.104	3584.448	3542.112	3545.248	3529.568	3540.544	3520.160	3488.800	3469.984
7.5	3722.432	3728.704	3676.960	3617.376	3615.808	3548.384	3488.800	3394.720	3344.544	3317.888
10.0	3863.552	3860.416	3792.992	3713.024	3658.144	3493.504	3390.016	3335.136	3322.592	3325.728
12.5	4021.920	4012.512	3923.136	3808.672	3656.576	3429.216	3371.200	3364.928	3353.952	3342.976
15.0	4192.832	4175.584	4078.368	3899.616	3617.376	3404.128	3397.856	3357.088	3332.000	3333.568
17.5	4344.928	4324.544	4205.376	3967.040	3568.768	3405.696	3369.632	3335.136	3325.728	3322.592
20.0	4471.936	4453.120	4319.840	4003.104	3528.000	3410.400	3333.568	3319.456	3300.640	3294.368
22.5	4573.856	4558.176	4415.488	4010.944	3490.368	3360.224	3306.912	3281.824	3264.576	3259.872
25.0	4655.392	4645.984	4495.456	4003.104	3468.416	3314.752	3270.848	3239.488	3225.376	3223.808
27.5	4714.976	4713.408	4559.744	3979.584	3449.600	3278.688	3225.376	3190.880	3181.472	3176.768

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CANDELA TABULATION - (Cont.)

30.0	4752.608	4755.744	4600.512	3949.792	3421.376	3241.056	3176.768	3137.568	3125.024	3117.184
32.5	4768.288	4771.424	4622.464	3905.888	3371.200	3195.584	3118.752	3073.280	3057.600	3049.760
35.0	4768.288	4768.288	4619.328	3851.008	3310.048	3137.568	3057.600	3002.720	2980.768	2969.792
37.5	4762.016	4749.472	4600.512	3785.152	3231.648	3070.144	2987.040	2922.752	2889.824	2883.552
40.0	4757.312	4732.224	4572.288	3711.456	3139.136	2988.608	2903.936	2820.832	2794.176	2805.152
42.5	4765.152	4722.816	4539.360	3628.352	3027.808	2894.528	2795.744	2715.776	2695.392	3013.696
45.0	4809.056	4743.200	4528.384	3540.544	2899.232	2783.200	2676.576	2591.904	2795.744	2856.896
47.5	4943.904	4838.848	4567.584	3471.552	2758.112	2648.352	2540.160	2466.464	2977.632	2488.416
50.0	5179.104	5009.760	4658.528	3424.512	2598.176	2502.528	2392.768	2402.176	2640.512	2264.192
52.5	5516.224	5277.888	4827.872	3400.992	2419.424	2339.456	2239.104	2483.712	2268.896	2088.576
55.0	6032.096	5694.976	5103.840	3432.352	2226.560	2170.112	2082.304	2485.280	2019.584	1930.208
57.5	6577.760	6096.384	5367.264	3452.736	2028.992	1996.064	1922.368	2328.480	1817.312	1753.024
60.0	7051.296	6466.432	5464.480	3438.624	1834.560	1831.424	1781.248	2066.624	1602.496	1564.864
62.5	7308.448	6489.952	5106.976	3330.432	1662.080	1676.192	1640.128	1826.720	1392.384	1422.176
65.0	7070.112	6038.368	4111.296	3070.144	1492.736	1508.416	1488.032	1691.872	1208.928	1290.464
67.5	5923.904	4848.256	2885.120	2458.624	1304.576	1320.256	1334.368	1500.576	1031.744	1207.360
70.0	3988.992	3295.936	1843.968	1749.888	1083.488	1124.256	1177.568	1276.352	879.648	1166.592
72.5	1709.120	1451.968	1030.176	1096.032	818.496	921.984	1017.632	1113.280	754.208	1127.392
75.0	805.952	685.216	539.392	656.992	595.840	707.168	840.448	920.416	631.904	986.272
77.5	508.032	418.656	312.032	409.248	420.224	486.080	622.496	647.584	417.088	696.192
80.0	301.056	254.016	216.384	283.808	307.328	365.344	402.976	396.704	327.712	467.264
82.5	178.752	156.800	142.688	196.000	230.496	230.496	271.264	296.352	228.928	279.104
85.0	101.920	79.968	76.832	120.736	127.008	136.416	169.344	166.208	122.304	153.664
87.5	34.496	21.952	25.088	47.040	48.608	56.448	68.992	65.856	56.448	56.448
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

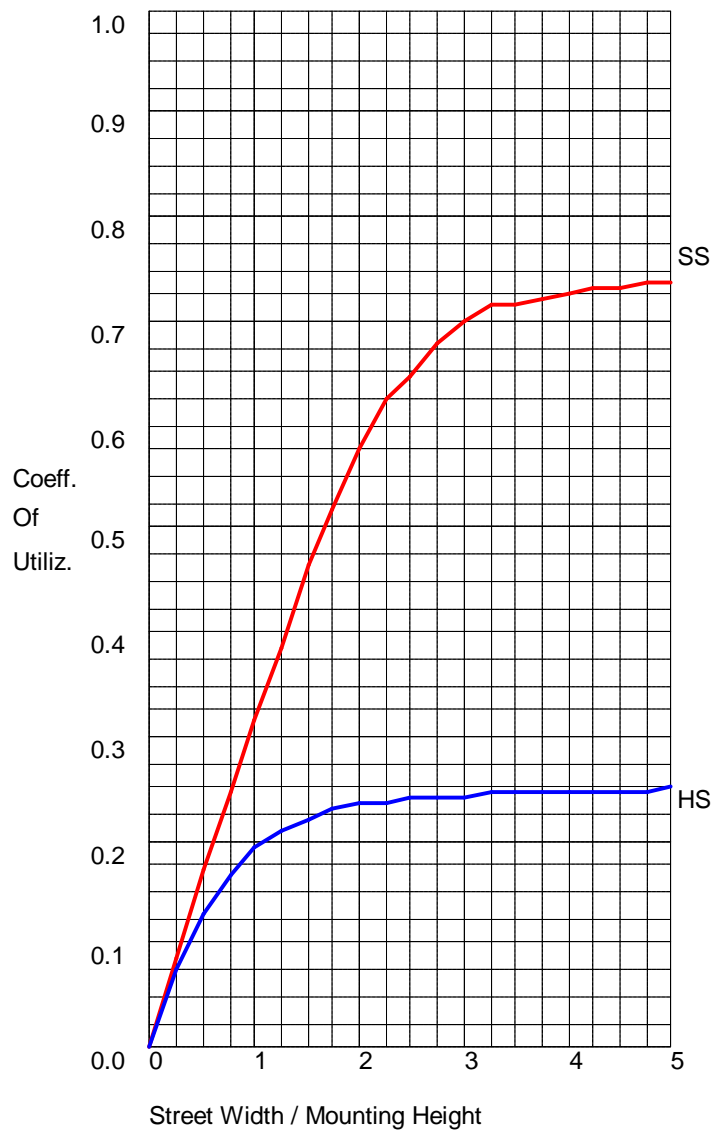
	175.0	180.0
0.0	3515.456	3515.456
2.5	3474.688	3454.304
5.0	3452.736	3433.920
7.5	3300.640	3283.392
10.0	3321.024	3303.776
12.5	3332.000	3314.752
15.0	3328.864	3313.184
17.5	3317.888	3302.208
20.0	3291.232	3277.120
22.5	3259.872	3244.192
25.0	3226.944	3211.264
27.5	3179.904	3164.224
30.0	3123.456	3112.480
32.5	3060.736	3051.328
35.0	2991.744	2982.336
37.5	2903.936	2896.096
40.0	2932.160	2943.136
42.5	2914.912	2852.192
45.0	2558.976	2540.160
47.5	2359.840	2348.864
50.0	2196.768	2174.816
52.5	2049.376	2027.424
55.0	1886.304	1862.784
57.5	1685.600	1662.080
60.0	1497.440	1473.920
62.5	1332.800	1306.144
65.0	1183.840	1149.344

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CANDELA TABULATION - (Cont.)

67.5	1077.216	1033.312
70.0	1044.288	978.432
72.5	1063.104	981.568
75.0	1041.152	942.368
77.5	1016.064	917.280
80.0	821.632	760.480
82.5	478.240	467.264
85.0	305.760	285.376
87.5	120.736	90.944
90.0	0.000	0.000

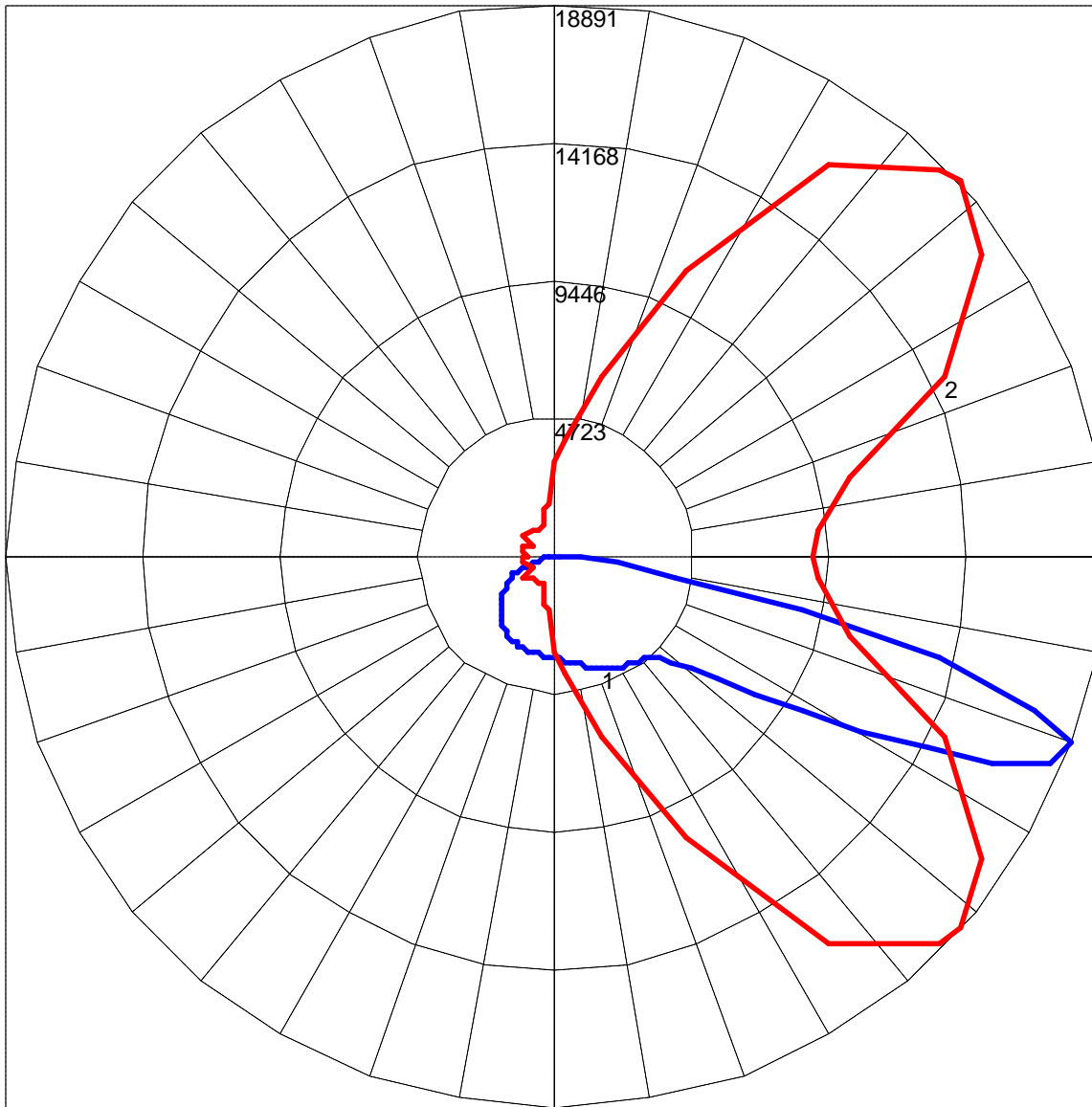
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

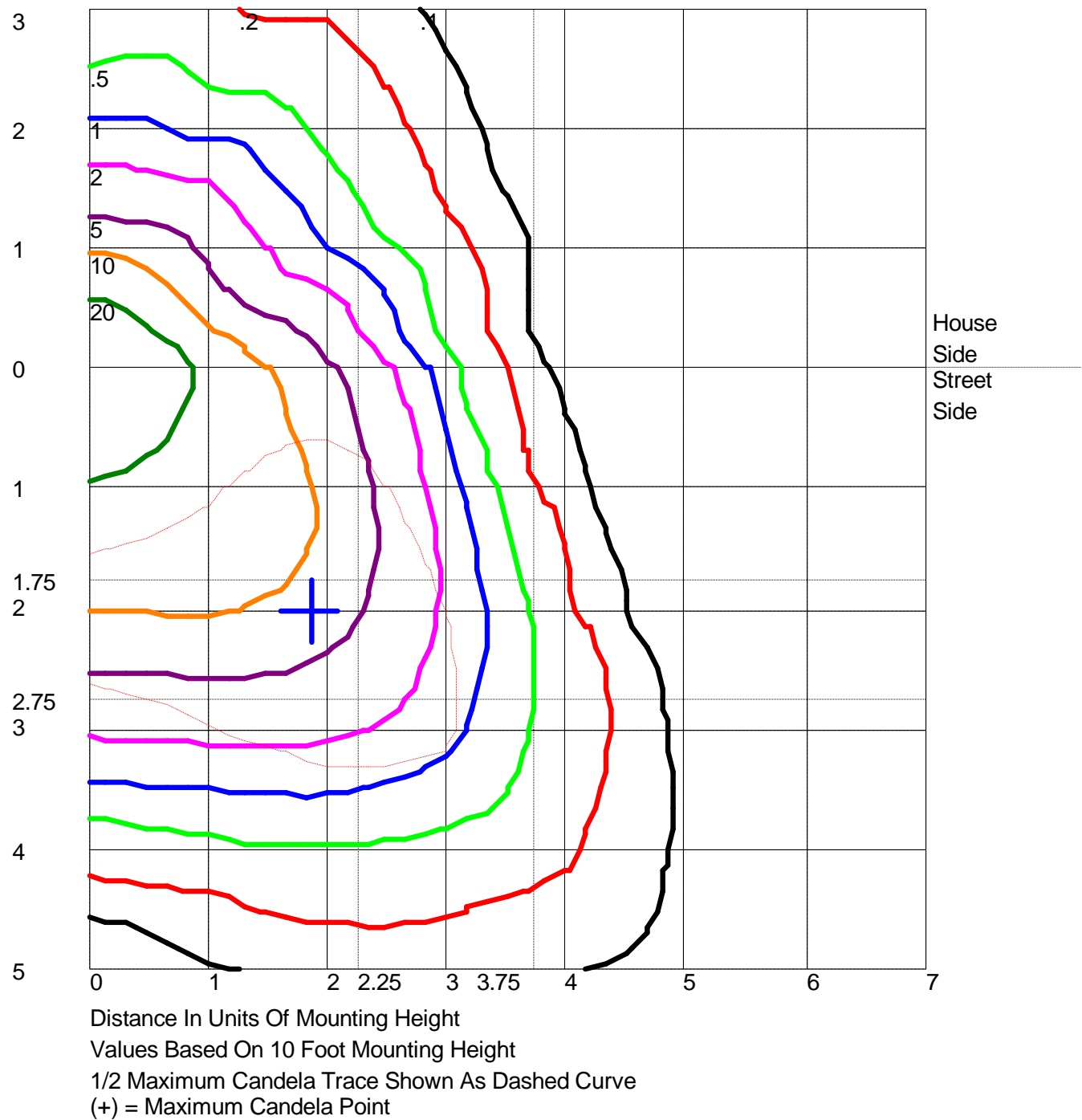
	Lumens	Percent Of Luminaire
Downward Street Side	18675.7	74.8
Downward House Side	6297.0	25.2
Downward Total	24972.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24972.7	100.0

POLAR GRAPH

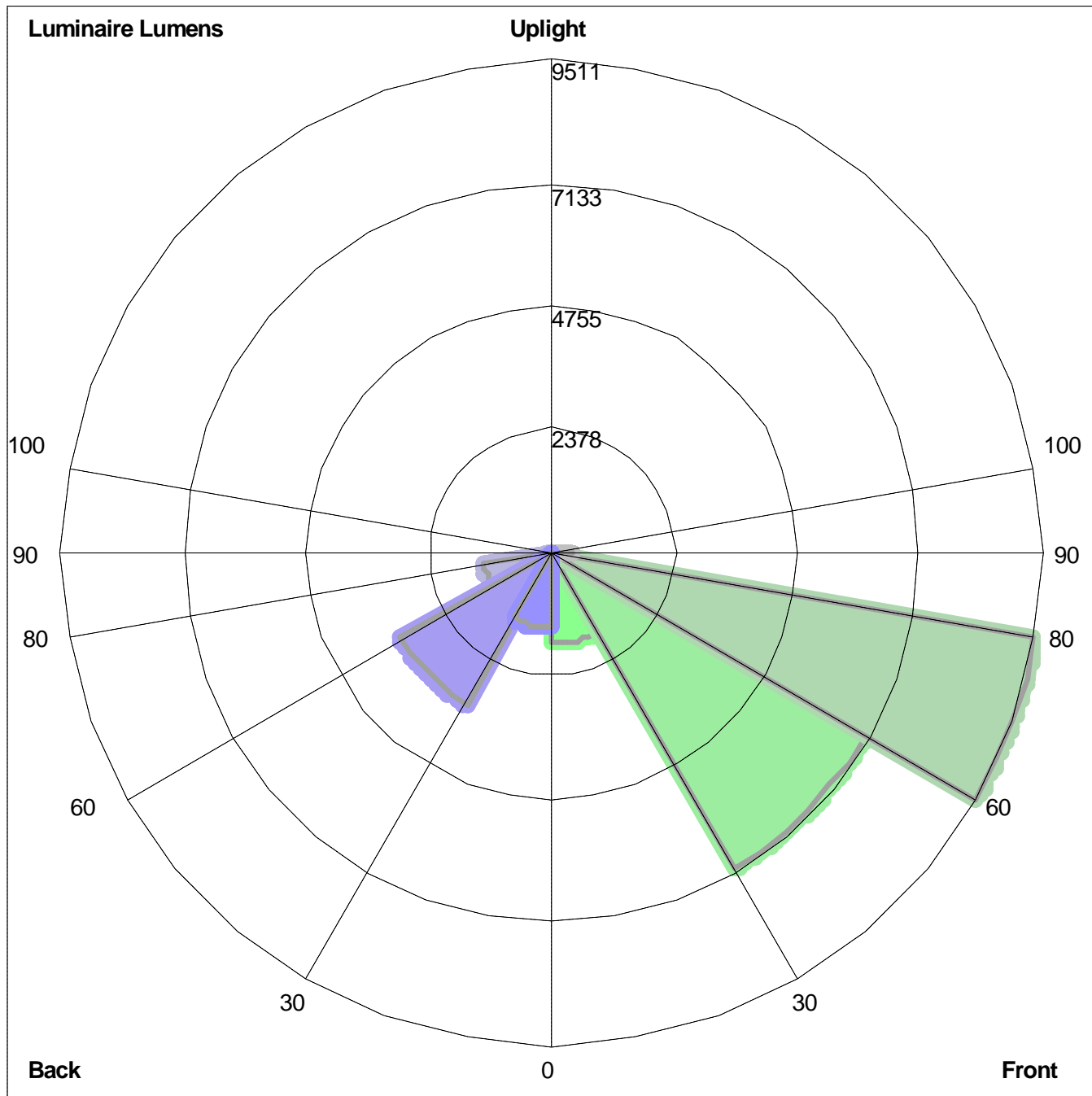


Maximum Candela = 18891.264 Located At Horizontal Angle = 42.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1758.9, Medium=7046.4, High=9510.5, Very High=360.0
Back: Low=1474.6, Medium=3373.1, High=1357.8, Very High=91.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4