



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XMR-2-LED-35-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8225\_SCALED  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]11/21/2016  
[TEST DATE]10/17/16  
[MANUFACT]LSI INDUSTRIES, INC  
[LUMCAT]XMR-2-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 II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	33108
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	25454.3
Maximum Candela Angle	82.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	25454.3
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1659.65 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2326.1	N.A.	7.0
FM - Front-Medium (30-60)	11526.1	N.A.	34.8
FH - Front-High (60-80)	7412.3	N.A.	22.4
FVH - Front-Very High (80-90)	150.9	N.A.	0.5
BL - Back-Low (0-30)	1897.5	N.A.	5.7
BM - Back-Medium (30-60)	6888.0	N.A.	20.8
BH - Back-High (60-80)	2777.9	N.A.	8.4
BVH - Back-Very High (80-90)	128.7	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	33107.5	N.A.	100.0
BUG Rating	B4-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>	<u><b>82.5</b></u>
<b>0.0</b>	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90
<b>2.5</b>	4722.45	4721.50	4708.20	4719.60	4712.95	4700.60	4688.25	4694.90	4677.80	4661.65
<b>5.0</b>	4781.35	4779.45	4769.95	4779.45	4773.75	4758.55	4747.15	4750.00	4727.20	4705.35
<b>7.5</b>	4843.10	4842.15	4835.50	4849.75	4843.10	4826.95	4824.10	4823.15	4801.30	4771.85
<b>10.0</b>	4928.60	4926.70	4926.70	4940.00	4937.15	4924.80	4925.75	4925.75	4904.85	4870.65
<b>12.5</b>	5008.40	5011.25	5016.95	5043.55	5055.90	5054.95	5066.35	5080.60	5041.65	5001.75
<b>15.0</b>	5056.85	5060.65	5074.90	5134.75	5181.30	5212.65	5244.00	5272.50	5226.90	5187.00
<b>17.5</b>	5075.85	5084.40	5112.90	5203.15	5290.55	5377.95	5457.75	5503.35	5452.05	5408.35
<b>20.0</b>	5104.35	5111.95	5158.50	5270.60	5396.95	5533.75	5682.90	5766.50	5713.30	5654.40
<b>22.5</b>	5143.30	5153.75	5212.65	5351.35	5504.30	5675.30	5909.00	6061.95	6018.25	5948.90
<b>25.0</b>	5199.35	5209.80	5278.20	5434.00	5610.70	5812.10	6105.65	6377.35	6367.85	6296.60
<b>27.5</b>	5289.60	5301.00	5374.15	5544.20	5738.00	5957.45	6293.75	6711.75	6802.00	6710.80
<b>30.0</b>	5443.50	5449.20	5523.30	5694.30	5899.50	6143.65	6492.30	7046.15	7260.85	7182.00
<b>32.5</b>	5703.80	5717.10	5757.95	5908.05	6121.80	6374.50	6716.50	7376.75	7746.30	7695.95
<b>35.0</b>	6084.75	6094.25	6101.85	6230.10	6397.30	6651.90	7004.35	7700.70	8243.15	8246.00
<b>37.5</b>	6615.80	6621.50	6621.50	6662.35	6766.85	7007.20	7350.15	8016.10	8775.15	8835.00
<b>40.0</b>	7390.05	7389.10	7377.70	7277.95	7277.95	7483.15	7771.95	8347.65	9287.20	9463.90
<b>42.5</b>	8420.80	8468.30	8373.30	8229.85	8018.00	8121.55	8299.20	8740.95	9781.20	10114.65
<b>45.0</b>	9539.90	9585.50	9492.40	9359.40	9088.65	9031.65	8974.65	9137.10	10263.80	10831.90
<b>47.5</b>	10422.45	10454.75	10397.75	10381.60	10382.55	10320.80	9930.35	9642.50	10777.75	11631.80
<b>50.0</b>	10946.85	10938.30	10938.30	11084.60	11413.30	11925.35	11387.65	10350.25	11376.25	12486.80
<b>52.5</b>	10792.00	10829.05	10930.70	11293.60	12070.70	13189.80	13247.75	11354.40	12080.20	13439.65
<b>55.0</b>	10062.40	10128.90	10328.40	10868.00	12094.45	14154.05	15569.55	12795.55	12847.80	14876.05
<b>57.5</b>	8834.05	8860.65	9168.45	9688.10	11262.25	14072.35	17632.00	15157.25	14069.50	16584.15
<b>60.0</b>	7092.70	7099.35	7182.00	7714.95	9446.80	12769.90	18933.50	18066.15	15431.80	18564.90
<b>62.5</b>	4883.95	4864.00	4650.25	5122.40	6666.15	10165.95	19249.85	21093.80	17574.05	20905.70
<b>65.0</b>	3016.25	2936.45	2804.40	2840.50	3855.10	6289.00	17771.65	22868.40	19905.35	23735.75
<b>67.5</b>	1868.65	1835.40	1804.05	1754.65	2141.30	3164.45	13274.35	22753.45	22314.55	25454.30
<b>70.0</b>	1185.60	1177.05	1199.85	1205.55	1421.20	1817.35	6906.50	19475.00	22716.40	23957.10
<b>72.5</b>	736.25	769.50	792.30	877.80	1027.90	1236.90	3107.45	12730.00	18076.60	15351.05
<b>75.0</b>	527.25	550.05	541.50	629.85	748.60	936.70	1689.10	6248.15	9673.85	5468.20
<b>77.5</b>	401.85	419.90	414.20	467.40	538.65	695.40	1087.75	3006.75	3838.95	1660.60
<b>80.0</b>	339.15	355.30	327.75	352.45	396.15	513.95	665.00	1534.25	1659.65	888.25
<b>82.5</b>	303.05	295.45	246.05	254.60	277.40	378.10	419.90	759.05	811.30	462.65
<b>85.0</b>	212.80	206.15	167.20	165.30	174.80	244.15	252.70	304.00	410.40	229.90
<b>87.5</b>	100.70	101.65	88.35	85.50	82.65	107.35	106.40	101.65	104.50	86.45
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90	4656.90
<b>2.5</b>	4657.85	4643.60	4658.80	4643.60	4651.20	4652.15	4645.50	4639.80	4628.40	4617.00
<b>5.0</b>	4699.65	4676.85	4688.25	4657.85	4638.85	4613.20	4579.00	4549.55	4516.30	4477.35
<b>7.5</b>	4764.25	4732.90	4738.60	4686.35	4629.35	4558.10	4471.65	4384.25	4308.25	4245.55
<b>10.0</b>	4863.05	4830.75	4819.35	4734.80	4623.65	4480.20	4321.55	4166.70	4063.15	3981.45
<b>12.5</b>	4992.25	4951.40	4927.65	4803.20	4615.10	4380.45	4144.85	3958.65	3851.30	3795.25
<b>15.0</b>	5165.15	5113.85	5085.35	4893.45	4607.50	4267.40	3979.55	3816.15	3762.00	3748.70
<b>17.5</b>	5370.35	5305.75	5260.15	4998.90	4596.10	4151.50	3858.90	3775.30	3797.15	3836.10
<b>20.0</b>	5608.80	5538.50	5461.55	5111.95	4567.60	4037.50	3810.45	3830.40	3919.70	3995.70
<b>22.5</b>	5893.80	5812.10	5708.55	5254.45	4529.60	3951.05	3845.60	3950.10	4094.50	4205.65
<b>25.0</b>	6244.35	6137.95	6004.95	5415.95	4484.95	3931.10	3948.20	4123.95	4324.40	4482.10
<b>27.5</b>	6649.05	6531.25	6360.25	5606.90	4458.35	3998.55	4109.70	4359.55	4639.80	4866.85

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**CANDELA TABULATION - (Cont.)**

30.0	7143.05	6992.95	6782.05	5807.35	4467.85	4133.45	4349.10	4684.45	5065.40	5354.20
32.5	7659.85	7496.45	7242.80	6022.05	4534.35	4348.15	4660.70	5097.70	5545.15	5885.25
35.0	8218.45	8039.85	7725.40	6212.05	4680.65	4644.55	5040.70	5523.30	5995.45	6343.15
37.5	8816.00	8619.35	8255.50	6393.50	4915.30	4991.30	5407.40	5914.70	6412.50	6742.15
40.0	9452.50	9274.85	8797.95	6574.00	5212.65	5332.35	5709.50	6225.35	6721.25	7040.45
42.5	10115.60	9935.10	9367.95	6752.60	5526.15	5612.60	5931.80	6407.75	6845.70	7057.55
45.0	10823.35	10628.60	9975.00	6914.10	5783.60	5798.80	6038.20	6350.75	6542.65	6559.75
47.5	11612.80	11439.90	10589.65	7045.20	5947.00	5856.75	5913.75	5906.15	5862.45	5786.45
50.0	12497.25	12296.80	11239.45	7138.30	5990.70	5723.75	5489.10	5238.30	5050.20	4916.25
52.5	13520.40	13203.10	11912.05	7192.45	5928.95	5336.15	4920.05	4522.00	4242.70	4105.90
55.0	14956.80	14364.95	12597.00	7249.45	5790.25	4875.40	4267.40	3843.70	3580.55	3439.95
57.5	16694.35	15895.40	13272.45	7329.25	5616.40	4401.35	3717.35	3351.60	3063.75	3006.75
60.0	18648.50	17456.25	13927.95	7448.00	5473.90	3975.75	3311.70	3061.85	2706.55	2644.80
62.5	20911.40	18965.80	14662.30	7488.85	5338.05	3634.70	3014.35	2847.15	2296.15	2189.75
65.0	23222.75	20165.65	14546.40	7221.90	5035.95	3275.60	2709.40	2476.65	1834.45	1666.30
67.5	24351.35	19638.40	12558.05	6187.35	4306.35	2673.30	2193.55	1956.05	1331.90	1161.85
70.0	21926.00	15474.55	8163.35	4102.10	3102.70	1941.80	1617.85	1394.60	966.15	873.05
72.5	13176.50	8350.50	3958.65	2286.65	1879.10	1270.15	1157.10	984.20	698.25	612.75
75.0	4213.25	2919.35	1884.80	1225.50	1112.45	916.75	817.00	673.55	497.80	445.55
77.5	1385.10	1080.15	968.05	788.50	753.35	714.40	559.55	472.15	389.50	343.90
80.0	725.80	590.90	540.55	588.05	588.05	490.20	384.75	340.10	430.35	351.50
82.5	381.90	309.70	289.75	433.20	412.30	296.40	267.90	267.90	609.90	584.25
85.0	216.60	166.25	154.85	278.35	174.80	177.65	183.35	307.80	642.20	401.85
87.5	88.35	60.80	54.15	58.90	58.90	56.05	42.75	34.20	131.10	19.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

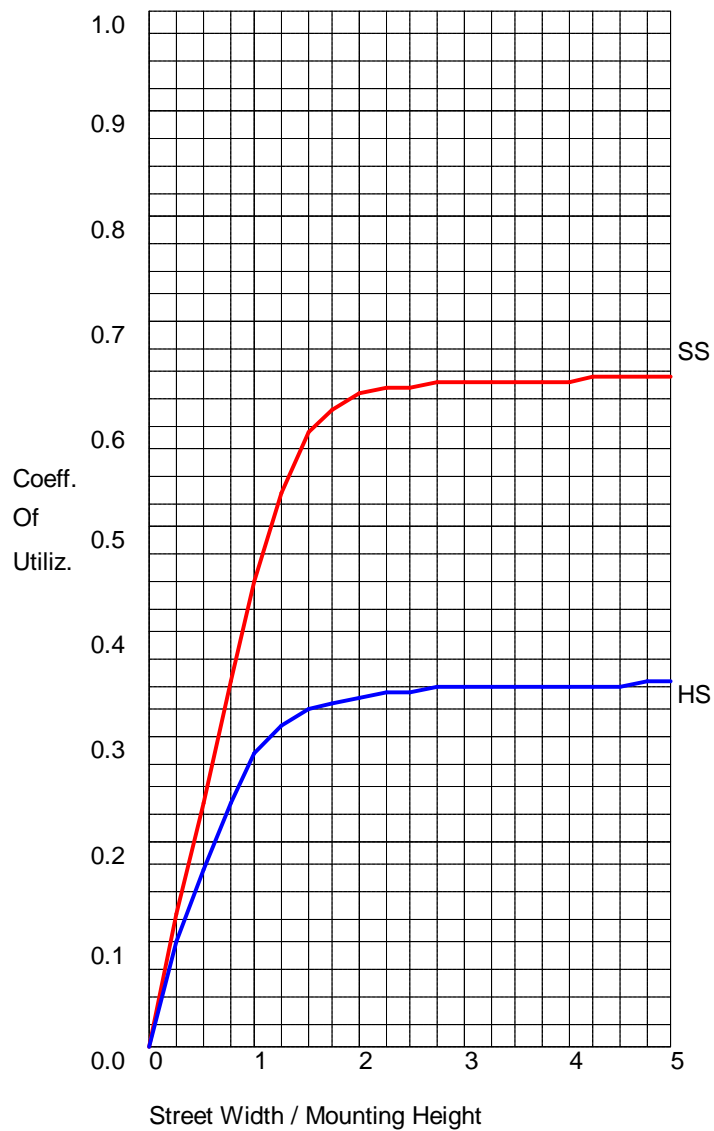
	<b>175.0</b>	<b>180.0</b>
0.0	4656.90	4656.90
2.5	4611.30	4603.70
5.0	4467.85	4459.30
7.5	4219.90	4210.40
10.0	3946.30	3935.85
12.5	3771.50	3761.05
15.0	3748.70	3739.20
17.5	3854.15	3846.55
20.0	4041.30	4025.15
22.5	4270.25	4254.10
25.0	4574.25	4553.35
27.5	4995.10	5014.10
30.0	5504.30	5523.30
32.5	6036.30	6022.05
35.0	6481.85	6461.90
37.5	6859.00	6835.25
40.0	7119.30	7094.60
42.5	7046.15	7009.10
45.0	6502.75	6458.10
47.5	5692.40	5688.60
50.0	4819.35	4823.15
52.5	4002.35	3923.50
55.0	3317.40	3285.10
57.5	2940.25	2910.80
60.0	2545.05	2512.75
62.5	2071.00	2033.95
65.0	1513.35	1469.65

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1096.30	1073.50
<b>70.0</b>	828.40	786.60
<b>72.5</b>	616.55	613.70
<b>75.0</b>	447.45	478.80
<b>77.5</b>	329.65	336.30
<b>80.0</b>	308.75	311.60
<b>82.5</b>	378.10	372.40
<b>85.0</b>	172.90	164.35
<b>87.5</b>	0.95	0.00
<b>90.0</b>	0.00	0.00

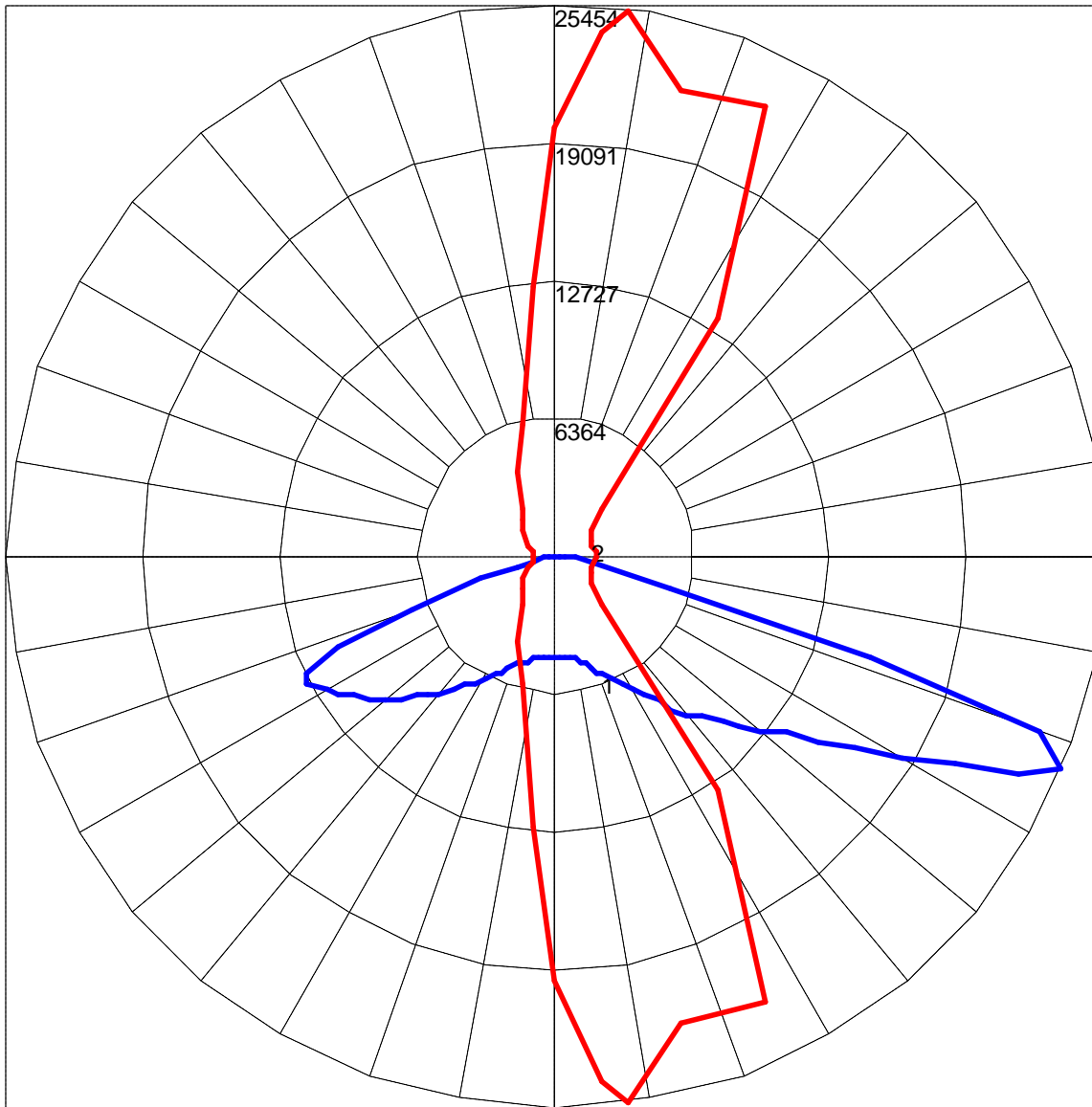
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

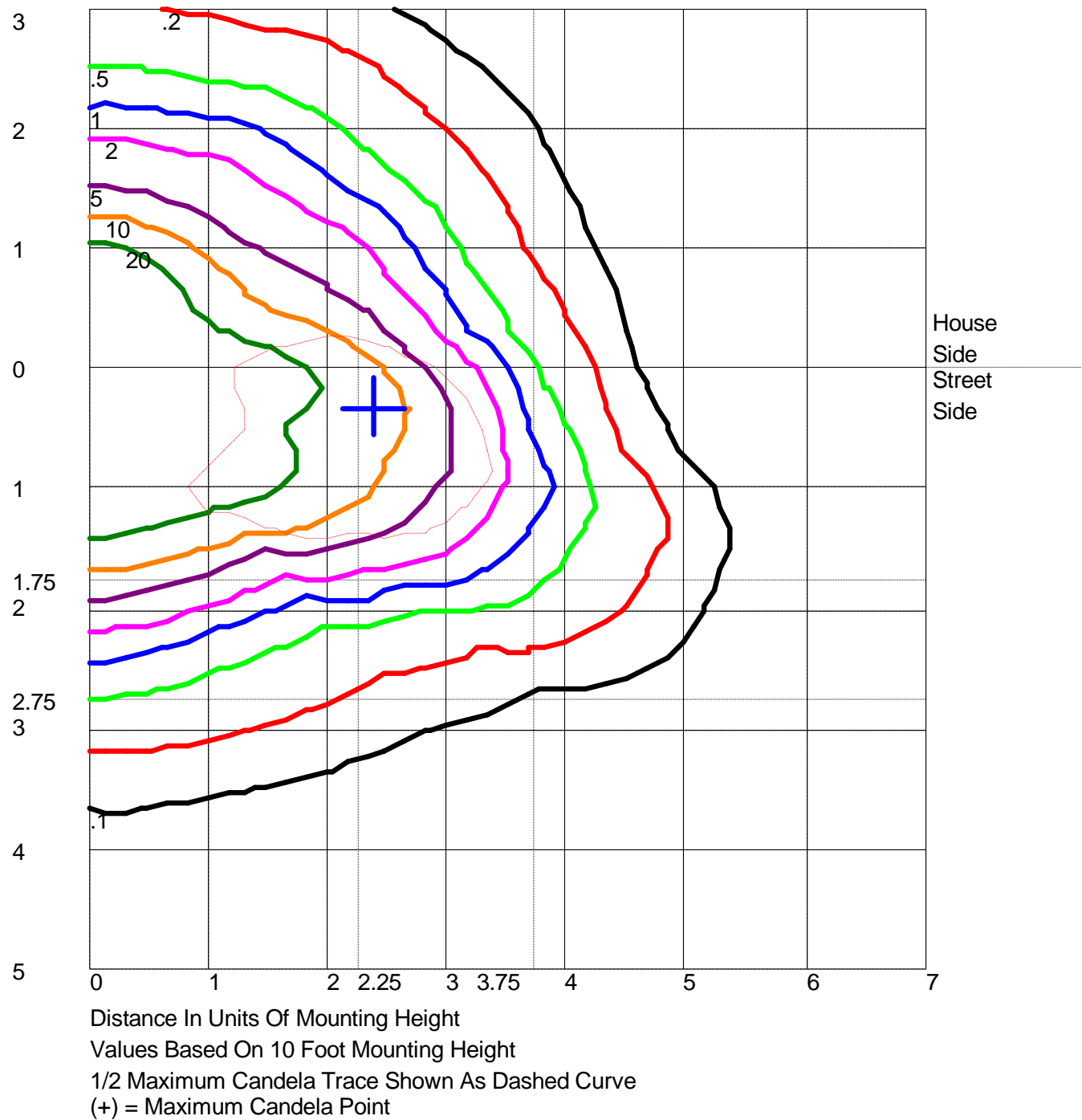
	Lumens	Percent Of Luminaire
Downward Street Side	21415.5	64.7
Downward House Side	11692.0	35.3
Downward Total	33107.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	33107.5	100.0

POLAR GRAPH



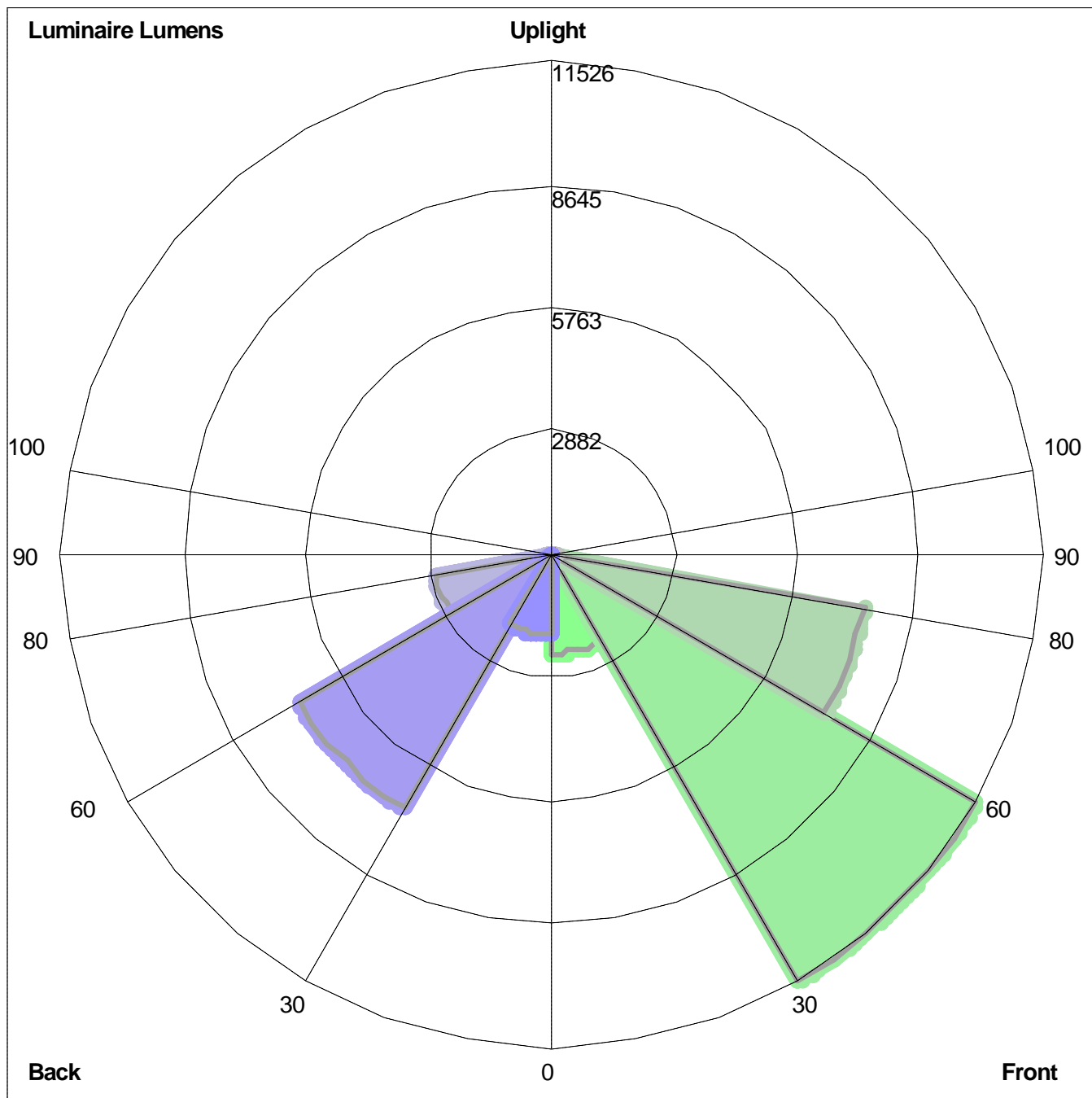
Maximum Candela = 25454.3 Located At Horizontal Angle = 82.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2326.1, Medium=11526.1, High=7412.3, Very High=150.9  
Back: Low=1897.5, Medium= 6888.0, High=2777.9, Very High=128.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4