



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-2-LED-35-30.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-35-30
[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 II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29971
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23042.84
Maximum Candela Angle	82.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	23042.84
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	1502.42 (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)	2105.8	N.A.	7.0
FM - Front-Medium (30-60)	10434.2	N.A.	34.8
FH - Front-High (60-80)	6710.0	N.A.	22.4
FVH - Front-Very High (80-90)	136.6	N.A.	0.5
BL - Back-Low (0-30)	1717.7	N.A.	5.7
BM - Back-Medium (30-60)	6235.4	N.A.	20.8
BH - Back-High (60-80)	2514.8	N.A.	8.4
BVH - Back-Very High (80-90)	116.5	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	29971.0	N.A.	100.0
BUG Rating	B4-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>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72
2.5	4275.06	4274.20	4262.16	4272.48	4266.46	4255.28	4244.10	4250.12	4234.64	4220.02
5.0	4328.38	4326.66	4318.06	4326.66	4321.50	4307.74	4297.42	4300.00	4279.36	4259.58
7.5	4384.28	4383.42	4377.40	4390.30	4384.28	4369.66	4367.08	4366.22	4346.44	4319.78
10.0	4461.68	4459.96	4459.96	4472.00	4469.42	4458.24	4459.10	4459.10	4440.18	4409.22
12.5	4533.92	4536.50	4541.66	4565.74	4576.92	4576.06	4586.38	4599.28	4564.02	4527.90
15.0	4577.78	4581.22	4594.12	4648.30	4690.44	4718.82	4747.20	4773.00	4731.72	4695.60
17.5	4594.98	4602.72	4628.52	4710.22	4789.34	4868.46	4940.70	4981.98	4935.54	4895.98
20.0	4620.78	4627.66	4669.80	4771.28	4885.66	5009.50	5144.52	5220.20	5172.04	5118.72
22.5	4656.04	4665.50	4718.82	4844.38	4982.84	5137.64	5349.20	5487.66	5448.10	5385.32
25.0	4706.78	4716.24	4778.16	4919.20	5079.16	5261.48	5527.22	5773.18	5764.58	5700.08
27.5	4788.48	4798.80	4865.02	5018.96	5194.40	5393.06	5697.50	6075.90	6157.60	6075.04
30.0	4927.80	4932.96	5000.04	5154.84	5340.60	5561.62	5877.24	6378.62	6572.98	6501.60
32.5	5163.44	5175.48	5212.46	5348.34	5541.84	5770.60	6080.20	6677.90	7012.44	6966.86
35.0	5508.30	5516.90	5523.78	5639.88	5791.24	6021.72	6340.78	6971.16	7462.22	7464.80
37.5	5989.04	5994.20	5994.20	6031.18	6125.78	6343.36	6653.82	7256.68	7943.82	7998.00
40.0	6689.94	6689.08	6678.76	6588.46	6588.46	6774.22	7035.66	7556.82	8407.36	8567.32
42.5	7623.04	7666.04	7580.04	7450.18	7258.40	7352.14	7512.96	7912.86	8854.56	9156.42
45.0	8636.12	8677.40	8593.12	8472.72	8227.62	8176.02	8124.42	8271.48	9291.44	9805.72
47.5	9435.06	9464.30	9412.70	9398.08	9398.94	9343.04	8989.58	8729.00	9756.70	10529.84
50.0	9909.78	9902.04	9902.04	10034.48	10332.04	10795.58	10308.82	9369.70	10298.50	11303.84
52.5	9769.60	9803.14	9895.16	10223.68	10927.16	11940.24	11992.70	10278.72	10935.76	12166.42
55.0	9109.12	9169.32	9349.92	9838.40	10948.66	12813.14	14094.54	11583.34	11630.64	13466.74
57.5	7997.14	8021.22	8299.86	8770.28	10195.30	12739.18	15961.60	13721.30	12736.60	15013.02
60.0	6420.76	6426.78	6501.60	6984.06	8551.84	11560.12	17139.80	16354.62	13969.84	16806.12
62.5	4421.26	4403.20	4209.70	4637.12	6034.62	9202.86	17426.18	19095.44	15909.14	18925.16
65.0	2730.50	2658.26	2538.72	2571.40	3489.88	5693.20	16088.02	20701.92	18019.58	21487.10
67.5	1691.62	1661.52	1633.14	1588.42	1938.44	2864.66	12016.78	20597.86	20200.54	23042.84
70.0	1073.28	1065.54	1086.18	1091.34	1286.56	1645.18	6252.20	17630.00	20564.32	21687.48
72.5	666.50	696.60	717.24	794.64	930.52	1119.72	2813.06	11524.00	16364.08	13896.74
75.0	477.30	497.94	490.20	570.18	677.68	847.96	1529.08	5656.22	8757.38	4950.16
77.5	363.78	380.12	374.96	423.12	487.62	629.52	984.70	2721.90	3475.26	1503.28
80.0	307.02	321.64	296.70	319.06	358.62	465.26	602.00	1388.90	1502.42	804.10
82.5	274.34	267.46	222.74	230.48	251.12	342.28	380.12	687.14	734.44	418.82
85.0	192.64	186.62	151.36	149.64	158.24	221.02	228.76	275.20	371.52	208.12
87.5	91.16	92.02	79.98	77.40	74.82	97.18	96.32	92.02	94.60	78.26
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72	4215.72
2.5	4216.58	4203.68	4217.44	4203.68	4210.56	4211.42	4205.40	4200.24	4189.92	4179.60
5.0	4254.42	4233.78	4244.10	4216.58	4199.38	4176.16	4145.20	4118.54	4088.44	4053.18
7.5	4312.90	4284.52	4289.68	4242.38	4190.78	4126.28	4048.02	3968.90	3900.10	3843.34
10.0	4402.34	4373.10	4362.78	4286.24	4185.62	4055.76	3912.14	3771.96	3678.22	3604.26
12.5	4519.30	4482.32	4460.82	4348.16	4177.88	3965.46	3752.18	3583.62	3486.44	3435.70
15.0	4675.82	4629.38	4603.58	4429.86	4171.00	3863.12	3602.54	3454.62	3405.60	3393.56
17.5	4861.58	4803.10	4761.82	4525.32	4160.68	3758.20	3493.32	3417.64	3437.42	3472.68
20.0	5077.44	5013.80	4944.14	4627.66	4134.88	3655.00	3449.46	3467.52	3548.36	3617.16
22.5	5335.44	5261.48	5167.74	4756.66	4100.48	3576.74	3481.28	3575.88	3706.60	3807.22
25.0	5652.78	5556.46	5436.06	4902.86	4060.06	3558.68	3574.16	3733.26	3914.72	4057.48
27.5	6019.14	5912.50	5757.70	5075.72	4035.98	3619.74	3720.36	3946.54	4200.24	4405.78

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CANDELA TABULATION - (Cont.)

30.0	6466.34	6330.46	6139.54	5257.18	4044.58	3741.86	3937.08	4240.66	4585.52	4846.96
32.5	6934.18	6786.26	6556.64	5451.54	4104.78	3936.22	4219.16	4614.76	5019.82	5327.70
35.0	7439.86	7278.18	6993.52	5623.54	4237.22	4204.54	4563.16	5000.04	5427.46	5742.22
37.5	7980.80	7802.78	7473.40	5787.80	4449.64	4518.44	4895.12	5354.36	5805.00	6103.42
40.0	8557.00	8396.18	7964.46	5951.20	4718.82	4827.18	5168.60	5635.58	6084.50	6373.46
42.5	9157.28	8993.88	8480.46	6112.88	5002.62	5080.88	5369.84	5800.70	6197.16	6388.94
45.0	9797.98	9621.68	9030.00	6259.08	5235.68	5249.44	5466.16	5749.10	5922.82	5938.30
47.5	10512.64	10356.12	9586.42	6377.76	5383.60	5301.90	5353.50	5346.62	5307.06	5238.26
50.0	11313.30	11131.84	10174.66	6462.04	5423.16	5181.50	4969.08	4742.04	4571.76	4450.50
52.5	12239.52	11952.28	10783.54	6511.06	5367.26	4830.62	4453.94	4093.60	3840.76	3716.92
55.0	13539.84	13004.06	11403.60	6562.66	5241.70	4413.52	3863.12	3479.56	3241.34	3114.06
57.5	15112.78	14389.52	12015.06	6634.90	5084.32	3984.38	3365.18	3034.08	2773.50	2721.90
60.0	16881.80	15802.50	12608.46	6742.40	4955.32	3599.10	2997.96	2771.78	2450.14	2394.24
62.5	18930.32	17169.04	13273.24	6779.38	4832.34	3290.36	2728.78	2577.42	2078.62	1982.30
65.0	21022.70	18255.22	13168.32	6537.72	4558.86	2965.28	2452.72	2242.02	1660.66	1508.44
67.5	22044.38	17777.92	11368.34	5601.18	3898.38	2420.04	1985.74	1770.74	1205.72	1051.78
70.0	19848.80	14008.54	7389.98	3713.48	2808.76	1757.84	1464.58	1262.48	874.62	790.34
72.5	11928.20	7559.40	3583.62	2070.02	1701.08	1149.82	1047.48	890.96	632.10	554.70
75.0	3814.10	2642.78	1706.24	1109.40	1007.06	829.90	739.60	609.74	450.64	403.34
77.5	1253.88	977.82	876.34	713.80	681.98	646.72	506.54	427.42	352.60	311.32
80.0	657.04	534.92	489.34	532.34	532.34	443.76	348.30	307.88	389.58	318.20
82.5	345.72	280.36	262.30	392.16	373.24	268.32	242.52	242.52	552.12	528.90
85.0	196.08	150.50	140.18	251.98	158.24	160.82	165.98	278.64	581.36	363.78
87.5	79.98	55.04	49.02	53.32	53.32	50.74	38.70	30.96	118.68	17.20
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

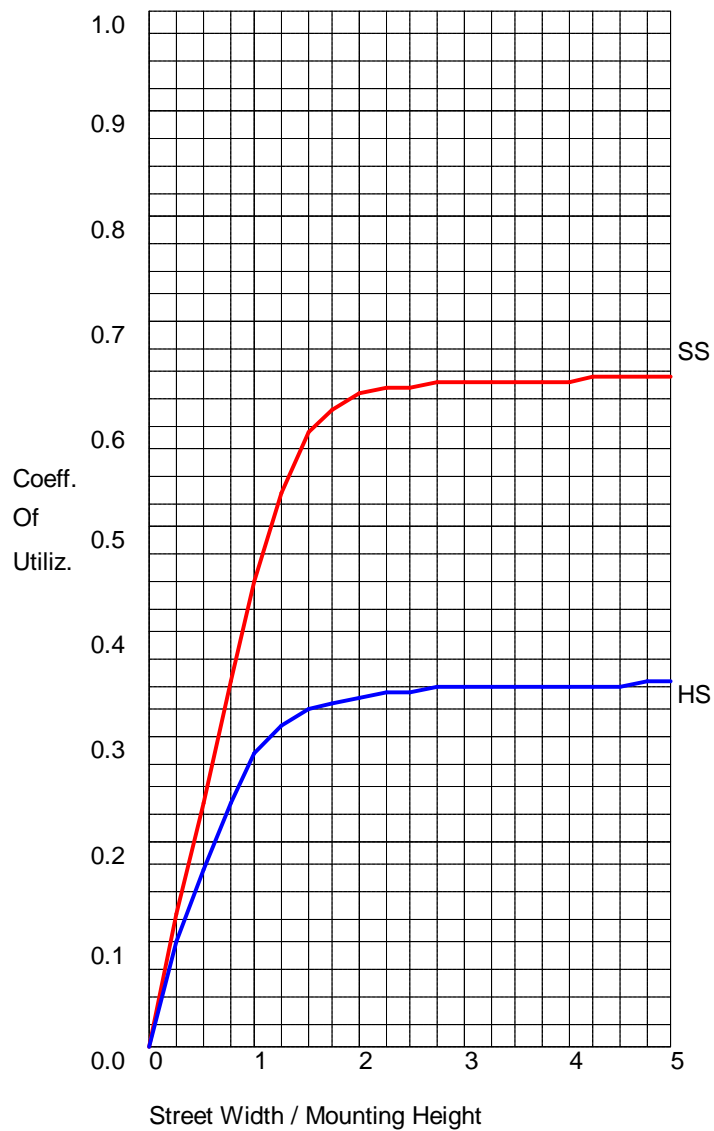
	175.0	180.0
0.0	4215.72	4215.72
2.5	4174.44	4167.56
5.0	4044.58	4036.84
7.5	3820.12	3811.52
10.0	3572.44	3562.98
12.5	3414.20	3404.74
15.0	3393.56	3384.96
17.5	3489.02	3482.14
20.0	3658.44	3643.82
22.5	3865.70	3851.08
25.0	4140.90	4121.98
27.5	4521.88	4539.08
30.0	4982.84	5000.04
32.5	5464.44	5451.54
35.0	5867.78	5849.72
37.5	6209.20	6187.70
40.0	6444.84	6422.48
42.5	6378.62	6345.08
45.0	5886.70	5846.28
47.5	5153.12	5149.68
50.0	4362.78	4366.22
52.5	3623.18	3551.80
55.0	3003.12	2973.88
57.5	2661.70	2635.04
60.0	2303.94	2274.70
62.5	1874.80	1841.26
65.0	1369.98	1330.42

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CANDELA TABULATION - (Cont.)

67.5	992.44	971.80
70.0	749.92	712.08
72.5	558.14	555.56
75.0	405.06	433.44
77.5	298.42	304.44
80.0	279.50	282.08
82.5	342.28	337.12
85.0	156.52	148.78
87.5	0.86	0.00
90.0	0.00	0.00

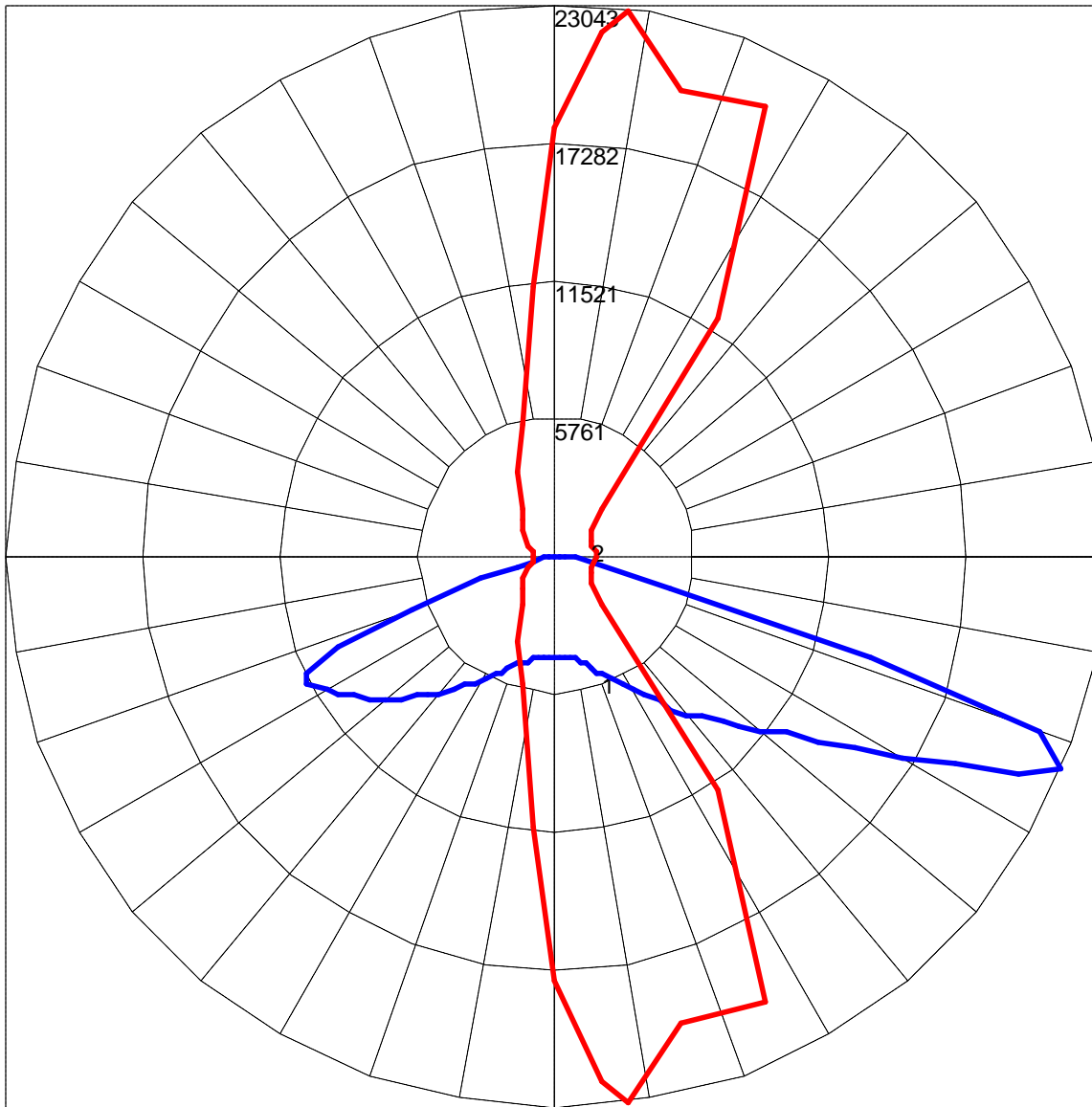
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

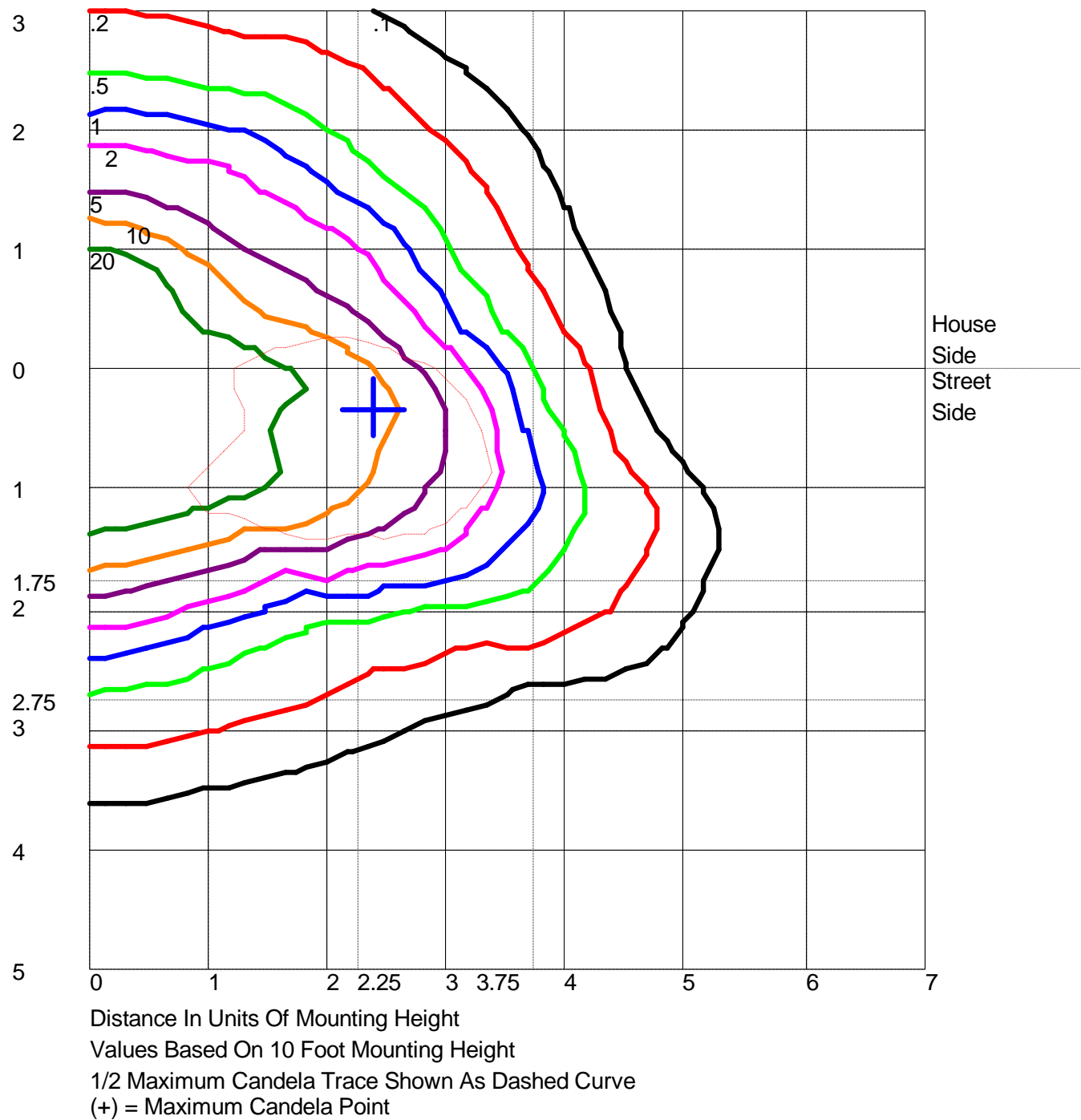
	Lumens	Percent Of Luminaire
Downward Street Side	19386.6	64.7
Downward House Side	10584.4	35.3
Downward Total	29971.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29971.0	100.0

POLAR GRAPH

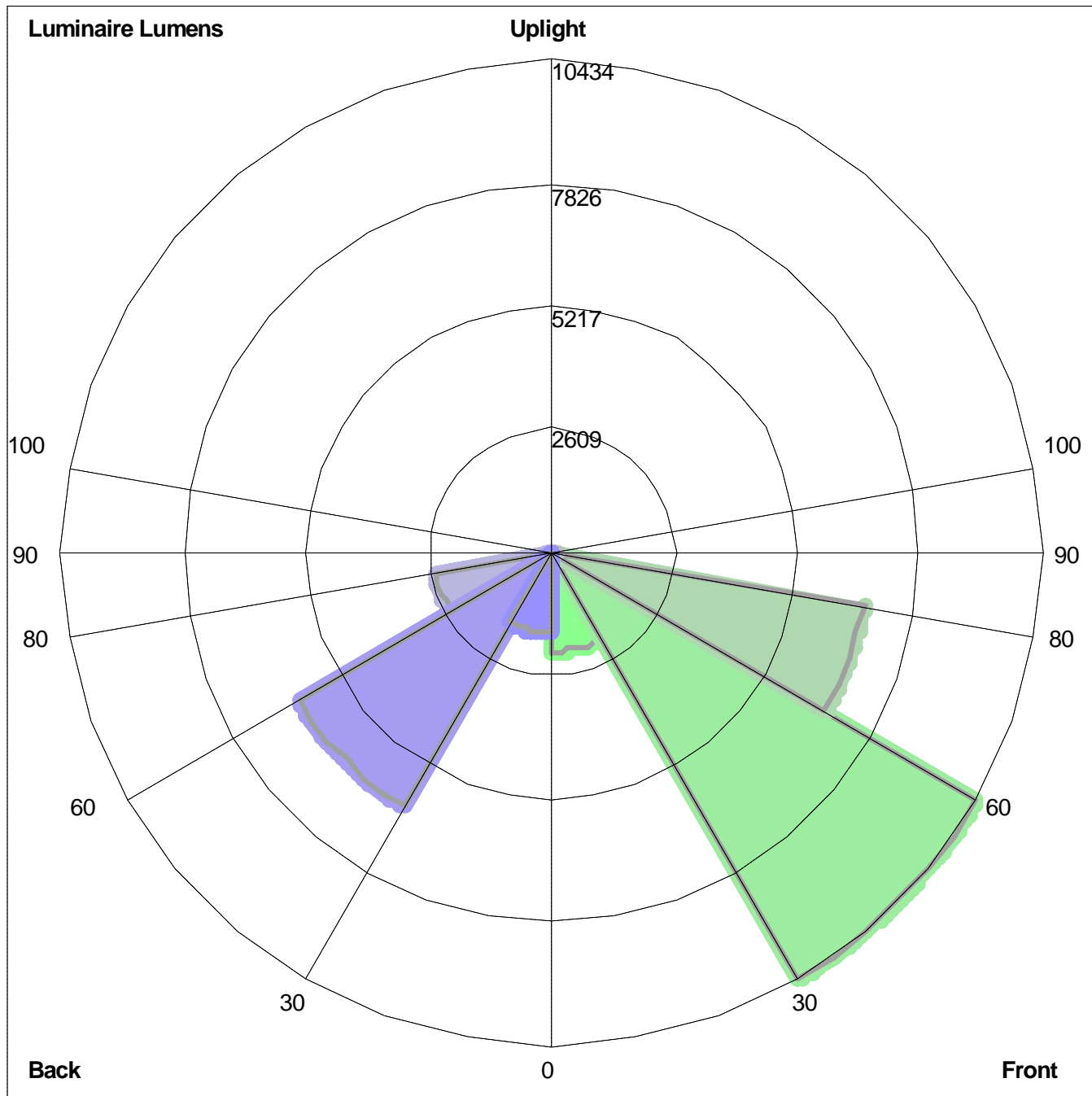


Maximum Candela = 23042.84 Located At Horizontal Angle = 82.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2105.8, Medium=10434.2, High= 6710.0, Very High=136.6
Back: Low=1717.7, Medium=6235.4, High=2514.8, Very High=116.5
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4