



IES ROAD REPORT

PHOTOMETRIC FILENAME : LED-9800-L4-150W-5K IES FILE.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] BACL
 [TESTDATE] 2017-03-23
 [ISSUE DATE] 2017-03-23 15:28:12
 [LAMP POSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] Grandlite
 [LUMINAIRE] LED-9800-L4-150W-5K
 [LAMP]

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	15953 (1 lamp)
Total Lamp Lumens	15953
Luminaire Lumens	15953
Downward Total Efficiency	100 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	143.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6878.41
Maximum Candela Angle	225H 1V
Maximum Candela (<90 Degrees Vertical)	6878.41
Maximum Candela Angle (<90 Degrees Vertical)	225H 1V
Maximum Candela At 90 Degrees Vertical	22.89 (0.1% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	399.7 (2.5% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff

IES ROAD REPORT**PHOTOMETRIC FILENAME : LED-9800-L4-150W-5K IES FILE.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2145.6	13.4	13.4
FM - Front-Medium (30-60)	4452.6	27.9	27.9
FH - Front-High (60-80)	1231.4	7.7	7.7
FVH - Front-Very High (80-90)	62.2	0.4	0.4
BL - Back-Low (0-30)	2159.9	13.5	13.5
BM - Back-Medium (30-60)	4499.4	28.2	28.2
BH - Back-High (60-80)	1288.9	8.1	8.1
BVH - Back-Very High (80-90)	67.0	0.4	0.4
UL - Uplight-Low (90-100)	11.0	0.1	0.1
UH - Uplight-High (100-180)	35.2	0.2	0.2
Total	15953.2	99.9	100.0
BUG Rating	B3-U2-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	6876.13	6876.13	6876.13	6876.13	6876.13	6876.13	6876.13	6876.13	6876.13	6876.13
1	6872.34	6871.91	6871.00	6870.85	6871.07	6873.06	6873.40	6875.53	6876.51	6878.41
2	6866.92	6865.24	6864.19	6864.60	6864.19	6867.53	6869.64	6872.58	6874.85	6877.17
3	6856.01	6854.07	6852.61	6853.63	6855.86	6859.65	6862.63	6867.20	6870.71	6872.62
4	6802.40	6834.63	6827.13	6840.13	6844.31	6849.32	6850.68	6857.16	6863.41	6865.14
5	6174.10	6567.81	5977.34	6550.52	6831.88	6836.50	6815.11	6841.78	6851.87	6854.40
6	6067.22	5662.91	5271.13	5518.35	6815.34	6811.06	5801.48	6467.81	6837.59	6833.47
7	5590.88	5238.13	5230.92	5245.00	6797.73	6392.14	5187.78	5400.20	6791.98	6410.50
8	4555.47	5208.34	5209.91	5221.65	6772.30	5624.09	5159.97	5175.95	6373.23	5444.86
9	4091.72	5186.22	5190.40	5202.38	6743.43	5180.21	5137.62	5144.82	5605.14	5164.68
10	3661.93	5163.43	5173.19	5183.50	6725.73	5130.19	5116.48	5121.52	4688.03	5140.23
11	3559.89	5122.14	5154.95	5165.18	6714.49	5110.03	5098.57	5098.61	4034.69	5115.38
12	3539.27	4829.29	5133.14	5144.11	6697.48	5089.44	5078.55	5071.10	3529.44	5081.38
13	3521.99	4341.48	5109.04	5121.04	6673.95	5067.63	5057.37	4925.88	3469.64	4865.81
14	3506.55	3873.47	5084.05	5096.54	6646.31	5045.61	5034.10	4539.17	3451.29	4386.41
15	3491.28	3560.91	5057.87	5070.55	6615.99	5021.08	5009.00	4101.39	3436.92	3897.59
16	3477.27	3486.23	5031.02	5041.89	6584.21	4995.73	4983.35	3707.44	3423.63	3543.08
17	3512.48	3466.49	5002.27	5012.76	6553.40	4969.25	4956.72	3462.41	3408.55	3430.96
18	4209.62	3449.50	4971.45	4980.88	6519.80	4941.40	4928.66	3398.02	3411.17	3408.32
19	5340.55	3458.76	4940.80	4950.12	6485.23	4916.63	4899.05	3377.70	3786.98	3393.17
20	6177.62	3805.83	4904.31	4917.72	6449.63	4892.07	4868.01	3359.48	4765.71	3401.77
21	6400.63	4434.63	4859.63	4883.87	6409.11	4861.65	4836.58	3341.92	5664.76	3672.78
22	6384.99	4821.89	4779.94	4848.74	6368.10	4818.99	4803.95	3326.00	6147.50	4282.19
23	6352.69	4821.11	4642.21	4810.71	6322.60	4781.35	4769.55	3503.41	6384.85	4791.24
24	6313.40	4790.59	4481.05	4772.03	6277.57	4756.73	4728.51	4305.65	6381.95	4850.24
25	6269.39	4755.69	4942.20	4731.13	6228.31	4807.69	4682.72	4767.81	6346.35	4819.94
26	6221.81	4717.76	5480.23	4688.60	6174.61	4948.83	5012.46	4752.55	6305.57	4786.94
27	6171.28	4682.77	5346.26	4643.54	6122.39	5139.02	5674.41	4716.78	6259.39	4750.49
28	6115.85	4666.15	5161.98	4596.75	6062.96	5271.40	5830.58	4676.70	6210.23	4710.65
29	6056.90	4742.77	4985.97	4549.01	6003.90	5169.96	5678.73	4633.14	6156.47	4685.01
30	5995.01	4873.31	4818.56	4497.06	5939.43	4975.94	5506.54	4586.39	6097.09	4720.13
31	5926.08	5035.34	4666.95	4442.62	5871.02	4785.37	5341.37	4539.38	6033.74	4840.71
32	5854.19	5191.43	4538.33	4386.79	5801.80	4605.45	5162.68	4503.94	5964.87	4999.18
33	5779.56	5326.19	4439.51	4326.22	5725.86	4445.29	4993.48	4522.70	5894.89	5153.65
34	5702.64	5427.57	4364.02	4265.88	5651.97	4308.13	4829.86	4597.42	5820.64	5295.57
35	5623.23	5485.77	4296.84	4201.40	5572.96	4202.36	4672.13	4689.35	5743.48	5411.42
36	5539.60	5479.59	4232.08	4133.95	5490.11	4116.62	4516.81	4794.01	5663.08	5491.57
37	5456.02	5418.46	4167.11	4066.17	5406.91	4039.07	4379.77	4891.84	5581.76	5516.64
38	5367.21	5342.76	4098.38	3992.89	5318.43	3959.63	4249.76	4976.75	5496.65	5472.92
39	5278.64	5255.60	4027.53	3920.39	5229.82	3884.25	4128.46	5032.27	5408.26	5399.68
40	5185.81	5165.87	3954.52	3840.99	5135.95	3805.63	4030.93	5071.65	5314.90	5312.66
41	5088.17	5070.22	3877.07	3759.41	5037.05	3724.91	3942.22	5068.35	5221.55	5223.29
42	4989.10	4973.92	3798.66	3678.16	4938.34	3642.22	3860.99	5020.92	5122.99	5128.06
43	4884.87	4874.63	3719.21	3591.41	4832.10	3557.54	3777.76	4936.83	5020.38	5030.81
44	4778.45	4770.11	3637.78	3504.50	4723.87	3471.71	3696.17	4842.33	4914.61	4930.12
45	4668.76	4665.09	3553.57	3415.07	4612.93	3382.70	3613.98	4741.30	4807.84	4827.46
46	4558.47	4555.08	3469.15	3324.58	4496.80	3294.23	3529.10	4633.94	4697.30	4721.99
47	4444.77	4442.29	3380.50	3229.03	4379.61	3198.78	3441.86	4522.40	4586.92	4610.47
48	4325.45	4326.25	3291.19	3134.78	4258.47	3105.00	3351.84	4405.04	4470.45	4497.25
49	4207.87	4205.77	3197.94	3039.99	4137.98	3006.82	3260.81	4287.29	4354.48	4379.42
50	4082.96	4082.44	3098.73	2948.83	4012.12	2905.86	3167.54	4163.77	4231.30	4258.41
51	3956.38	3950.53	2995.57	2867.18	3883.42	2802.62	3068.84	4035.70	4107.53	4135.23
52	3826.14	3819.87	2890.29	2793.71	3754.45	2696.24	2967.55	3906.63	3980.77	4008.64

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CANDELA TABULATION - (Cont.)

53	3693.62	3689.18	2785.97	2714.65	3621.21	2592.97	2865.15	3770.72	3853.77	3881.76
54	3558.04	3560.45	2674.67	2652.52	3487.01	2479.70	2761.45	3635.35	3723.61	3752.03
55	3425.97	3434.96	2555.86	2597.27	3358.20	2368.90	2662.46	3497.66	3593.21	3621.50
56	3299.46	3289.95	2435.15	2544.74	3231.20	2255.22	2547.42	3367.51	3459.08	3491.68
57	3174.80	3144.30	2317.16	2487.02	3104.12	2137.58	2434.29	3228.81	3334.78	3358.88
58	3039.37	2994.96	2197.38	2422.61	2961.76	2020.48	2320.39	3085.79	3210.24	3218.08
59	2884.33	2838.13	2076.95	2350.47	2812.67	1898.54	2206.14	2932.61	3074.40	3067.25
60	2732.46	2674.77	1959.84	2275.60	2656.70	1783.50	2090.65	2785.14	2919.64	2915.93
61	2579.05	2519.71	1835.92	2192.50	2502.43	1663.49	1975.75	2613.80	2763.61	2754.31
62	2421.45	2373.62	1711.71	2097.76	2352.79	1546.36	1856.21	2463.28	2606.80	2600.43
63	2264.54	2218.01	1590.74	1996.27	2200.71	1430.86	1742.36	2315.67	2449.96	2452.83
64	2110.02	2062.96	1474.29	1881.39	2054.90	1314.22	1628.37	2170.38	2295.25	2301.39
65	1960.12	1895.74	1367.06	1771.34	1909.19	1205.20	1519.44	2021.15	2136.11	2148.39
66	1815.93	1741.39	1258.40	1652.50	1770.14	1093.33	1413.33	1863.93	1982.86	1986.78
67	1675.42	1596.88	1163.26	1528.33	1627.33	984.00	1312.28	1720.76	1835.57	1841.05
68	1532.73	1461.12	1078.01	1409.95	1492.56	887.53	1222.85	1589.27	1685.20	1698.60
69	1399.20	1327.55	1000.46	1284.93	1363.80	803.62	1135.47	1462.23	1538.78	1566.96
70	1273.75	1202.21	926.82	1171.70	1243.41	727.22	1046.81	1334.16	1416.63	1440.93
71	1156.04	1080.89	852.24	1059.82	1135.96	644.40	957.06	1214.94	1294.48	1319.62
72	1052.97	970.35	778.26	949.32	1036.76	571.41	862.02	1097.59	1172.35	1198.30
73	951.83	869.86	706.95	845.62	937.79	498.52	772.48	978.42	1073.88	1077.03
74	849.26	773.18	640.57	750.17	835.24	425.62	692.44	861.30	977.27	961.58
75	745.24	694.32	580.09	668.85	729.49	367.20	617.62	755.74	875.18	846.13
76	642.12	621.06	519.13	595.00	627.85	320.97	546.91	656.18	763.36	738.26
77	556.48	541.83	458.16	521.33	538.36	279.50	476.31	574.28	651.30	657.53
78	471.21	462.51	397.19	447.66	449.04	237.36	416.71	492.59	552.97	579.13
79	385.93	382.26	318.40	370.75	359.73	192.59	338.02	410.90	465.12	488.09
80	334.88	318.46	274.11	317.45	298.37	154.26	274.74	339.34	391.60	399.70
81	277.42	260.39	236.98	262.72	244.79	110.21	228.30	279.78	328.67	320.69
82	222.52	204.55	192.68	206.27	189.52	80.77	188.68	215.68	263.81	245.27
83	172.25	163.07	151.67	155.18	138.45	71.35	164.22	165.95	213.23	192.49
84	133.63	116.86	118.78	113.55	98.17	64.05	119.99	124.10	162.66	153.53
85	93.84	88.74	86.60	95.33	75.66	51.26	88.12	92.29	112.36	114.59
86	37.77	62.81	68.27	56.17	41.95	38.30	64.68	56.22	89.32	79.90
87	22.34	36.90	29.79	44.18	8.13	25.35	50.37	36.35	29.72	38.67
88	7.86	11.00	26.08	32.69	6.19	21.12	36.22	16.72	21.96	19.89
89	6.94	9.80	22.59	21.19	4.53	20.59	22.08	11.33	14.20	16.68
90	6.64	9.07	19.10	20.57	2.88	20.10	21.21	10.83	6.62	13.48
91	6.35	8.31	17.00	19.81	2.87	19.44	19.81	9.85	6.35	10.32
92	6.05	7.70	13.50	19.01	2.91	18.87	16.49	8.75	6.04	8.73
93	5.78	7.24	11.47	18.01	2.94	18.13	13.45	7.94	5.72	7.55
94	5.73	7.18	10.11	16.95	2.98	17.27	11.35	7.19	5.42	6.87
95	5.82	7.10	9.97	15.69	3.00	16.19	10.31	6.71	5.30	6.56
96	5.94	7.10	9.97	14.43	3.02	14.97	10.69	6.23	5.30	6.47
97	6.14	7.17	9.68	13.33	3.03	13.82	10.42	5.74	5.40	6.49
98	6.35	7.29	9.43	12.45	3.03	12.81	10.16	5.51	5.64	6.53
99	6.55	7.44	9.18	11.78	3.03	12.05	9.88	5.53	5.84	6.67
100	6.75	7.61	8.88	11.39	3.05	11.65	9.43	5.75	6.02	6.80
101	6.93	7.76	8.72	10.90	3.07	11.12	9.18	6.13	6.19	7.00
102	7.12	7.89	8.59	10.47	3.10	10.65	8.99	6.44	6.37	7.14
103	7.27	7.77	8.46	10.08	3.13	10.24	8.82	6.70	6.55	7.26
104	7.38	6.74	8.41	9.73	3.16	9.72	8.79	6.85	6.70	7.26
105	7.30	6.42	8.30	9.45	3.19	9.43	8.61	6.09	6.80	6.40
106	6.32	6.12	8.21	9.22	3.22	9.16	8.43	5.15	6.75	5.28
107	5.40	7.34	8.11	8.96	3.26	8.85	8.25	5.28	5.82	5.26
108	5.52	8.29	8.01	8.78	3.30	8.67	8.11	6.54	4.80	6.38

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109	6.71	8.40	7.88	8.54	3.35	8.42	7.89	7.90	4.74	7.64
110	7.88	8.37	7.77	8.30	3.40	8.18	7.76	8.23	5.89	7.98
111	8.17	8.37	7.64	8.08	3.46	7.93	7.64	8.29	7.22	7.97
112	8.22	8.41	7.41	7.89	3.52	7.71	7.32	8.36	7.78	7.96
113	8.32	8.41	7.19	7.73	3.58	7.53	6.99	8.49	7.82	7.98
114	8.44	8.42	6.61	7.58	3.65	7.29	6.39	8.57	7.93	8.03
115	8.54	8.45	6.02	7.34	3.72	7.09	5.78	8.64	8.12	8.08
116	8.66	8.49	5.44	7.24	3.80	6.96	5.16	8.71	8.36	8.19
117	8.80	8.54	4.92	7.14	3.88	6.85	4.78	8.79	8.52	8.33
118	8.91	8.59	4.67	7.04	3.97	6.74	4.69	8.85	8.65	8.42
119	9.01	8.64	4.88	6.96	4.06	6.62	5.18	8.88	8.77	8.51
120	9.08	8.72	5.36	6.60	4.13	6.36	5.74	8.97	8.90	8.55
121	9.16	8.80	6.01	6.24	4.19	6.04	6.37	9.07	8.98	8.66
122	9.24	8.90	6.73	5.88	4.26	5.63	7.13	9.17	9.06	8.78
123	9.23	9.03	7.19	5.43	4.26	5.23	7.71	9.31	9.17	8.92
124	8.98	9.19	7.56	5.02	4.17	4.94	8.16	9.46	9.26	9.09
125	9.15	9.36	7.57	4.78	3.97	4.76	8.12	9.63	9.17	9.27
126	9.56	9.55	7.36	4.72	3.68	4.82	7.94	9.79	9.24	9.47
127	9.41	9.74	7.00	5.08	3.40	5.29	7.67	9.98	9.55	9.69
128	9.20	9.93	6.64	5.63	3.29	5.83	7.29	10.17	9.72	9.91
129	8.03	10.13	6.30	6.25	3.36	6.39	6.92	10.34	9.56	10.12
130	6.23	10.32	6.18	6.99	3.68	7.10	6.57	10.52	8.61	10.31
131	5.53	10.36	6.17	7.75	4.17	7.65	6.39	10.68	6.87	10.44
132	6.77	10.28	6.10	8.38	4.65	8.21	6.32	10.65	5.34	10.39
133	7.12	9.94	6.26	9.08	5.34	8.77	6.30	10.45	6.51	10.20
134	7.19	9.58	6.82	9.43	5.79	9.11	6.44	10.03	7.39	9.75
135	7.07	9.11	7.59	9.71	6.36	9.41	7.02	9.50	7.39	9.30
136	6.82	8.57	8.47	9.96	6.70	9.69	7.82	8.65	7.24	8.73
137	6.57	7.93	9.19	10.12	6.95	9.87	8.64	7.69	6.93	8.17
138	6.30	7.12	9.71	10.09	7.16	9.90	9.22	6.70	6.60	7.39
139	5.99	6.59	10.26	10.08	7.27	9.87	9.67	5.76	6.23	6.64
140	5.57	5.89	10.70	9.96	7.34	9.78	10.06	5.10	5.77	5.81
141	5.20	5.28	10.82	9.78	7.30	9.60	10.23	4.64	5.26	5.04
142	4.90	5.09	10.61	9.44	7.18	9.32	10.25	4.46	4.83	4.45
143	4.53	5.15	10.18	8.99	6.94	8.92	9.94	4.47	4.29	4.20
144	4.32	5.16	9.52	8.53	6.65	8.47	9.33	4.51	3.73	3.94
145	4.35	5.18	8.75	7.93	6.40	7.92	8.62	4.58	3.42	3.58
146	4.43	5.12	7.90	7.32	6.15	7.38	7.84	4.69	3.37	3.28
147	4.59	5.13	7.18	6.78	5.94	6.89	7.13	4.84	3.30	3.20
148	4.76	5.21	6.49	6.27	5.86	6.43	6.49	5.02	3.32	3.23
149	4.93	5.33	6.17	6.01	5.79	6.22	6.23	5.18	3.35	3.29
150	5.12	5.49	6.10	5.94	5.75	6.21	6.17	5.34	3.43	3.37
151	5.33	5.68	6.04	5.91	5.82	6.21	6.12	5.51	3.52	3.34
152	5.55	5.85	6.12	5.96	5.94	6.29	6.22	5.69	3.61	3.42
153	5.77	6.03	6.21	6.01	6.04	6.39	6.34	5.87	3.69	3.59
154	5.98	6.22	6.30	6.08	6.12	6.50	6.47	6.05	3.76	3.66
155	6.17	6.40	6.37	6.18	6.21	6.61	6.59	6.23	3.83	3.66
156	6.36	6.56	6.46	6.32	6.30	6.71	6.73	6.39	3.89	3.76
157	6.56	6.70	6.53	6.45	6.38	6.80	6.85	6.53	3.98	3.89
158	6.73	6.77	6.59	6.57	6.46	6.87	6.96	6.64	4.06	4.01
159	6.87	6.80	6.63	6.62	6.50	6.91	7.04	6.69	4.14	4.09
160	6.93	6.83	6.66	6.64	6.51	6.93	7.06	6.70	4.20	4.15
161	6.94	6.83	6.66	6.63	6.49	6.91	7.05	6.70	4.20	4.16
162	6.92	6.81	6.62	6.60	6.48	6.88	7.00	6.70	4.19	4.14
163	6.91	6.78	6.56	6.55	6.51	6.83	6.93	6.71	4.21	4.17
164	6.88	6.76	6.50	6.46	6.51	6.78	6.86	6.71	4.26	4.21

IES ROAD REPORT
PHOTOMETRIC FILENAME : LED-9800-L4-150W-5K IES FILE.IES

CANDELA TABULATION - (Cont.)

165	6.82	6.71	6.43	6.37	6.48	6.72	6.79	6.70	4.32	4.28
166	6.75	6.65	6.36	6.26	6.43	6.66	6.68	6.65	4.42	4.39
167	6.66	6.57	6.28	6.16	6.33	6.55	6.55	6.58	4.54	4.51
168	6.55	6.45	6.17	6.04	6.23	6.41	6.42	6.48	4.63	4.60
169	6.47	6.34	6.07	5.95	6.14	6.30	6.31	6.39	4.72	4.70
170	6.47	6.28	6.00	5.90	6.05	6.22	6.23	6.33	4.72	4.70
171	6.50	6.27	6.01	5.89	5.94	6.19	6.18	6.33	4.67	4.67
172	6.50	6.24	6.00	5.84	5.84	6.15	6.13	6.31	4.71	4.71
173	6.47	6.19	5.96	5.79	5.71	6.09	6.10	6.28	4.80	4.79
174	6.42	6.15	5.93	5.75	5.63	6.03	6.08	6.23	4.96	4.95
175	6.30	6.06	5.88	5.68	5.61	5.93	6.03	6.14	5.17	5.16
176	6.15	5.94	5.82	5.55	5.55	5.80	5.96	6.02	5.23	5.23
177	5.92	5.76	5.67	5.41	5.39	5.64	5.83	5.85	5.31	5.31
178	5.75	5.60	5.52	5.27	5.22	5.47	5.70	5.69	5.38	5.38
179	5.61	5.48	5.37	5.13	5.06	5.31	5.57	5.52	5.43	5.43
180	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	6876.13	6876.13	6876.13	6876.13	6876.13	6876.13	6876.13
1	6878.41	6878.17	6877.11	6877.30	6876.05	6874.36	6872.34
2	6876.96	6875.27	6873.80	6873.16	6871.70	6869.60	6866.92
3	6871.55	6870.10	6868.18	6865.82	6863.23	6861.58	6856.01
4	6863.25	6863.66	6860.08	6855.65	6850.81	6849.12	6802.40
5	6845.23	6852.30	6849.64	6838.00	6764.06	6824.56	6174.10
6	6576.49	6829.97	6837.12	6661.99	5617.45	6478.17	6067.22
7	5358.41	6279.36	6821.51	5748.52	5182.32	5439.55	5590.88
8	5177.61	5311.41	6805.87	5186.64	5159.39	5157.85	4555.47
9	5156.26	5165.34	6788.30	5158.26	5137.81	5132.68	4091.72
10	5136.82	5145.18	6769.33	5138.95	5118.59	5107.13	3661.93
11	5118.45	5126.39	6751.42	5122.02	5101.12	5038.82	3559.89
12	5100.54	5108.47	6730.49	5104.11	5081.09	4727.20	3539.27
13	5079.54	5088.71	6711.85	5084.63	5060.57	4250.78	3521.99
14	5059.06	5067.60	6691.77	5064.35	5038.21	3760.99	3506.55
15	5035.92	5044.22	6664.64	5041.07	5013.31	3525.19	3491.28
16	5013.10	5020.95	6635.99	5015.53	4987.73	3488.64	3477.27
17	4987.82	4994.21	6605.35	4988.63	4960.00	3470.11	3512.48
18	4960.99	4967.33	6575.53	4961.08	4931.78	3452.79	4209.62
19	4933.77	4938.66	6542.59	4932.60	4902.07	3435.39	5340.55
20	4903.33	4908.61	6507.53	4901.92	4871.62	3417.87	6177.62
21	4873.38	4877.72	6471.83	4870.50	4829.56	3401.72	6400.63
22	4841.07	4844.36	6432.35	4838.08	4779.43	3519.92	6384.99
23	4793.43	4811.04	6392.30	4803.74	4687.20	4243.26	6352.69
24	4723.76	4774.96	6348.48	4768.51	4560.84	4826.86	6313.40
25	4595.92	4736.05	6300.83	4730.44	4438.61	4836.49	6269.39
26	4615.70	4697.20	6254.38	4692.99	5004.12	4801.99	6221.81
27	5397.97	4654.31	6201.08	4654.77	5569.41	4764.20	6171.28
28	5585.09	4611.97	6149.27	4638.32	5440.63	4722.34	6115.85
29	5395.78	4566.83	6091.96	4617.05	5280.49	4685.45	6056.90
30	5205.93	4518.90	6032.60	4542.98	5120.92	4670.05	5995.01
31	5030.07	4470.96	5969.60	4477.41	4975.43	4722.39	5926.08
32	4862.56	4417.22	5899.52	4414.65	4827.48	4817.40	5854.19
33	4709.18	4363.06	5831.96	4356.80	4698.56	4916.42	5779.56
34	4567.54	4305.49	5757.11	4297.14	4577.52	5029.07	5702.64
35	4448.32	4243.82	5682.80	4233.78	4471.28	5127.74	5623.23

IES ROAD REPORT
PHOTOMETRIC FILENAME : LED-9800-L4-150W-5K IES FILE.IES

CANDELA TABULATION - (Cont.)

36	4359.82	4182.81	5606.34	4172.11	4386.34	5199.69	5539.60
37	4284.96	4116.25	5524.78	4104.05	4313.28	5253.96	5456.02
38	4212.54	4049.42	5443.79	4036.84	4242.48	5276.85	5367.21
39	4141.52	3978.76	5356.86	3966.08	4171.70	5263.75	5278.64
40	4069.32	3906.11	5269.59	3892.93	4099.58	5201.82	5185.81
41	3995.74	3832.01	5179.76	3819.56	4026.54	5120.12	5088.17
42	3920.02	3754.21	5084.08	3738.27	3950.15	5027.32	4989.10
43	3842.41	3675.46	4988.92	3656.92	3870.54	4925.80	4884.87
44	3764.00	3594.74	4886.34	3571.40	3789.99	4825.80	4778.45
45	3683.23	3514.55	4784.62	3484.60	3706.79	4720.68	4668.76
46	3602.46	3432.97	4679.52	3395.76	3622.08	4614.23	4558.47
47	3517.06	3345.52	4567.78	3303.43	3533.33	4500.71	4444.77
48	3430.87	3257.12	4458.37	3212.05	3444.00	4385.39	4325.45
49	3341.50	3163.77	4340.19	3116.02	3349.84	4265.50	4207.87
50	3248.39	3067.33	4223.70	3017.00	3250.14	4140.03	4082.96
51	3155.56	2969.10	4101.95	2916.96	3148.96	4010.11	3956.38
52	3056.60	2869.31	3978.61	2813.96	3045.64	3877.20	3826.14
53	2955.18	2768.06	3853.62	2710.62	2937.42	3742.30	3693.62
54	2850.66	2665.78	3723.75	2601.28	2829.69	3603.40	3558.04
55	2746.40	2565.37	3597.39	2492.37	2721.37	3466.37	3425.97
56	2643.71	2470.99	3463.22	2377.51	2606.78	3339.92	3299.46
57	2529.95	2390.09	3335.74	2262.13	2486.33	3200.35	3174.80
58	2419.41	2318.32	3213.30	2145.89	2371.33	3056.30	3039.37
59	2305.03	2242.60	3077.22	2024.96	2255.93	2913.21	2884.33
60	2191.09	2175.20	2928.46	1907.66	2141.45	2762.83	2732.46
61	2076.53	2108.79	2773.43	1789.47	2031.56	2599.76	2579.05
62	1962.55	2040.96	2619.84	1673.37	1917.02	2452.00	2421.45
63	1845.47	1972.81	2464.22	1557.24	1806.15	2312.14	2264.54
64	1731.20	1896.90	2304.07	1441.41	1696.95	2163.30	2110.02
65	1621.31	1821.40	2151.23	1335.77	1592.88	2017.15	1960.12
66	1510.08	1732.20	1991.18	1230.13	1491.26	1855.82	1815.93
67	1410.21	1644.57	1843.29	1124.47	1395.54	1713.71	1675.42
68	1321.83	1553.13	1687.73	1017.95	1308.56	1578.52	1532.73
69	1233.44	1457.60	1530.61	919.96	1221.62	1451.27	1399.20
70	1145.06	1360.46	1401.24	832.07	1137.78	1332.05	1273.75
71	1054.85	1263.33	1271.87	749.05	1050.62	1212.83	1156.04
72	963.78	1165.83	1143.20	664.86	957.23	1093.73	1052.97
73	872.46	1057.94	1034.57	581.66	860.87	978.29	951.83
74	778.18	941.34	930.13	499.54	770.72	865.51	849.26
75	693.01	814.99	828.82	431.76	691.40	763.62	745.24
76	618.85	692.79	721.12	376.11	615.49	674.46	642.12
77	557.79	597.37	624.59	329.72	547.20	598.38	556.48
78	496.14	527.03	537.57	288.78	484.31	529.03	471.21
79	433.50	454.67	459.12	246.06	421.68	440.68	385.93
80	353.14	375.33	391.17	205.37	334.43	350.07	334.88
81	290.41	315.29	321.90	172.42	273.41	281.20	277.42
82	249.90	257.43	260.28	139.47	230.93	233.06	222.52
83	210.25	212.64	214.75	106.66	194.28	185.41	172.25
84	162.63	177.57	175.39	83.40	148.94	145.83	133.63
85	115.08	142.50	136.04	64.75	103.64	106.30	93.84
86	87.01	107.19	96.81	49.26	84.74	79.75	37.77
87	78.33	53.90	65.17	34.06	65.00	30.94	22.34
88	31.17	30.27	33.53	26.32	29.32	24.48	7.86
89	22.13	23.35	2.22	22.19	20.63	18.01	6.94
90	19.69	22.89	2.16	21.85	20.14	11.64	6.64
91	18.89	22.35	2.14	21.33	19.19	10.55	6.35

IES ROAD REPORT**PHOTOMETRIC FILENAME : LED-9800-L4-150W-5K IES FILE.IES****CANDELA TABULATION - (Cont.)**

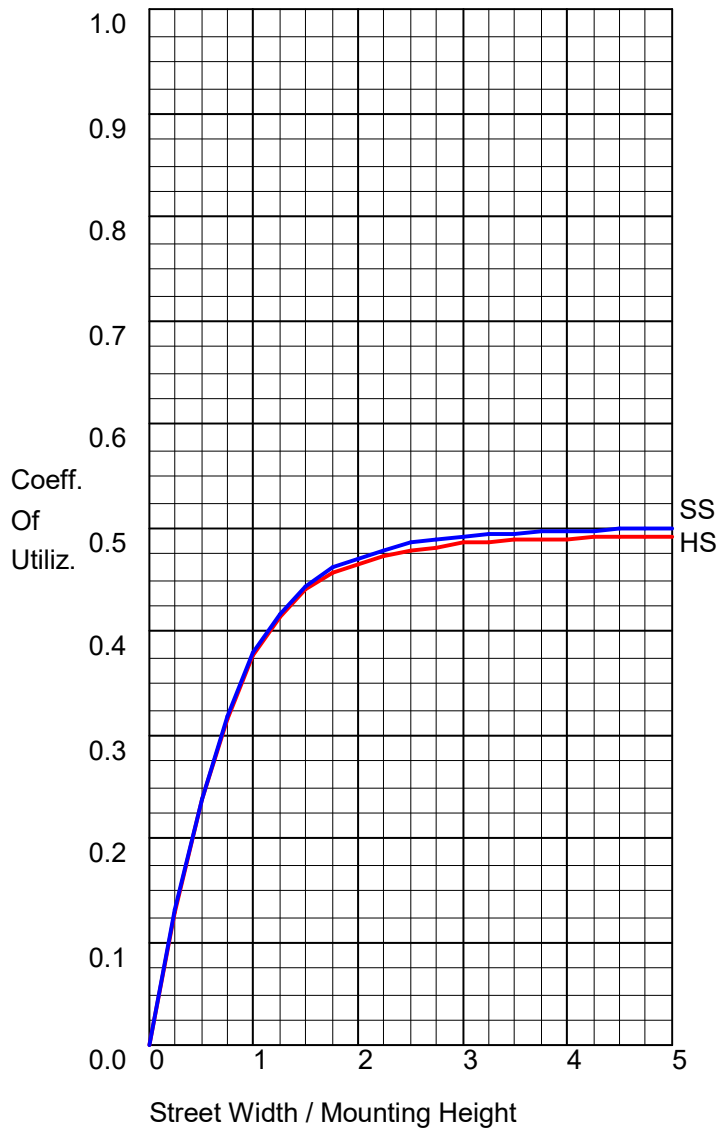
92	16.93	21.51	2.13	20.58	17.15	8.74	6.05
93	14.59	20.35	2.12	19.60	14.75	7.50	5.78
94	12.26	18.83	2.11	18.23	12.36	6.76	5.73
95	9.96	17.25	2.12	16.84	10.00	6.14	5.82
96	9.47	15.74	2.13	15.44	9.98	5.64	5.94
97	9.87	14.45	2.16	14.24	10.24	5.24	6.14
98	9.68	13.53	2.19	13.36	9.94	4.85	6.35
99	9.22	12.62	2.22	12.48	9.43	4.66	6.55
100	8.84	11.71	2.26	11.61	8.97	4.71	6.75
101	8.45	11.05	2.28	10.95	8.70	4.95	6.93
102	8.28	10.46	2.32	10.38	8.50	5.21	7.12
103	8.14	10.01	2.36	9.93	8.36	5.49	7.27
104	8.00	9.65	2.41	9.52	8.27	5.68	7.38
105	7.96	9.23	2.46	9.25	8.08	5.03	7.30
106	7.78	8.99	2.52	8.99	7.87	4.13	6.32
107	7.62	8.74	2.58	8.72	7.67	4.22	5.40
108	7.48	8.47	2.65	8.46	7.49	5.54	5.52
109	7.35	8.33	2.72	8.27	7.30	6.94	6.71
110	7.20	8.08	2.80	7.98	7.19	7.30	7.88
111	7.10	7.84	2.89	7.70	7.08	7.40	8.17
112	6.98	7.63	2.98	7.46	6.89	7.56	8.22
113	6.80	7.44	3.08	7.26	6.60	7.72	8.32
114	6.59	7.29	3.18	7.09	6.07	7.82	8.44
115	6.21	7.16	3.29	6.87	5.47	7.92	8.54
116	5.68	6.91	3.41	6.67	4.85	8.02	8.66
117	5.08	6.82	3.52	6.57	4.47	8.11	8.80
118	4.66	6.79	3.63	6.48	4.38	8.21	8.91
119	4.42	6.74	3.74	6.39	4.90	8.30	9.01
120	4.78	6.69	3.84	6.24	5.51	8.43	9.08
121	5.31	6.50	3.93	5.99	6.11	8.57	9.16
122	5.91	6.21	4.01	5.59	6.88	8.72	9.24
123	6.60	5.79	4.06	5.18	7.40	8.86	9.23
124	6.98	5.37	4.03	4.84	7.98	8.99	8.98
125	7.15	5.02	3.87	4.58	7.97	9.15	9.15
126	7.21	4.79	3.61	4.58	7.76	9.30	9.56
127	6.93	4.76	3.28	4.90	7.48	9.47	9.41
128	6.56	5.27	3.10	5.45	7.07	9.66	9.20
129	6.16	5.84	2.95	5.96	6.59	9.85	8.03
130	5.85	6.45	3.19	6.59	6.20	10.05	6.23
131	5.91	7.28	3.64	7.18	5.90	10.23	5.53
132	5.87	7.82	4.09	7.60	5.91	10.25	6.77
133	5.97	8.47	4.74	8.12	5.84	10.07	7.12
134	6.45	9.01	5.26	8.37	5.80	9.68	7.19
135	7.14	9.32	5.70	8.55	6.17	9.24	7.07
136	7.90	9.58	6.09	8.68	6.94	8.59	6.82
137	8.65	9.77	6.31	8.80	7.76	7.80	6.57
138	9.18	9.84	6.46	8.81	8.50	6.95	6.30
139	9.63	9.79	6.52	8.75	9.00	6.09	5.99
140	10.03	9.73	6.49	8.65	9.56	5.42	5.57
141	10.24	9.58	6.40	8.51	9.95	4.74	5.20
142	10.14	9.35	6.28	8.25	9.97	4.17	4.90
143	9.74	9.00	6.03	7.91	9.55	4.05	4.53
144	9.07	8.49	5.65	7.44	8.89	3.97	4.32
145	8.23	7.89	5.21	6.82	7.94	3.91	4.35
146	7.21	7.04	4.86	6.08	6.93	3.87	4.43
147	6.21	6.21	4.57	5.36	5.93	3.86	4.59

IES ROAD REPORT
PHOTOMETRIC FILENAME : LED-9800-L4-150W-5K IES FILE.IES

CANDELA TABULATION - (Cont.)

148	5.29	5.40	4.18	4.71	5.06	3.86	4.76
149	4.53	4.66	3.95	4.14	4.32	3.86	4.93
150	4.23	4.31	3.86	3.83	3.99	3.90	5.12
151	3.99	4.11	3.78	3.71	3.81	3.86	5.33
152	3.90	4.03	3.80	3.67	3.75	3.90	5.55
153	3.96	4.06	3.84	3.71	3.78	3.95	5.77
154	4.05	4.12	3.90	3.78	3.82	4.03	5.98
155	4.14	4.17	3.96	3.85	3.83	4.10	6.17
156	4.17	4.20	4.01	3.87	3.80	4.12	6.36
157	4.11	4.21	4.05	3.89	3.80	4.13	6.56
158	4.13	4.08	4.01	3.87	3.74	4.15	6.73
159	4.13	4.01	3.93	3.86	3.69	4.14	6.87
160	4.11	3.98	3.92	3.82	3.68	4.13	6.93
161	4.07	3.98	3.91	3.80	3.69	4.13	6.94
162	4.03	4.00	3.89	3.77	3.70	4.13	6.92
163	4.01	4.05	3.92	3.78	3.74	4.15	6.91
164	4.01	4.11	3.98	3.82	3.76	4.19	6.88
165	4.07	4.15	4.06	3.88	3.82	4.21	6.82
166	4.18	4.17	4.13	3.99	3.88	4.23	6.75
167	4.26	4.16	4.15	4.08	3.95	4.26	6.66
168	4.34	4.17	4.17	4.14	4.12	4.30	6.55
169	4.38	4.16	4.18	4.21	4.15	4.35	6.47
170	4.41	4.12	4.17	4.16	4.05	4.39	6.47
171	4.43	4.11	4.14	4.09	4.04	4.37	6.50
172	4.47	4.13	4.16	4.12	4.10	4.39	6.50
173	4.55	4.19	4.24	4.19	4.22	4.46	6.47
174	4.70	4.34	4.37	4.31	4.40	4.66	6.42
175	4.90	4.57	4.55	4.42	4.62	4.93	6.30
176	5.02	4.71	4.68	4.49	4.73	5.08	6.15
177	5.12	4.86	4.77	4.63	4.88	5.22	5.92
178	5.24	5.02	4.90	4.75	5.02	5.32	5.75
179	5.31	5.13	4.98	4.92	5.13	5.39	5.61
180	5.46	5.46	5.46	5.46	5.46	5.46	5.46

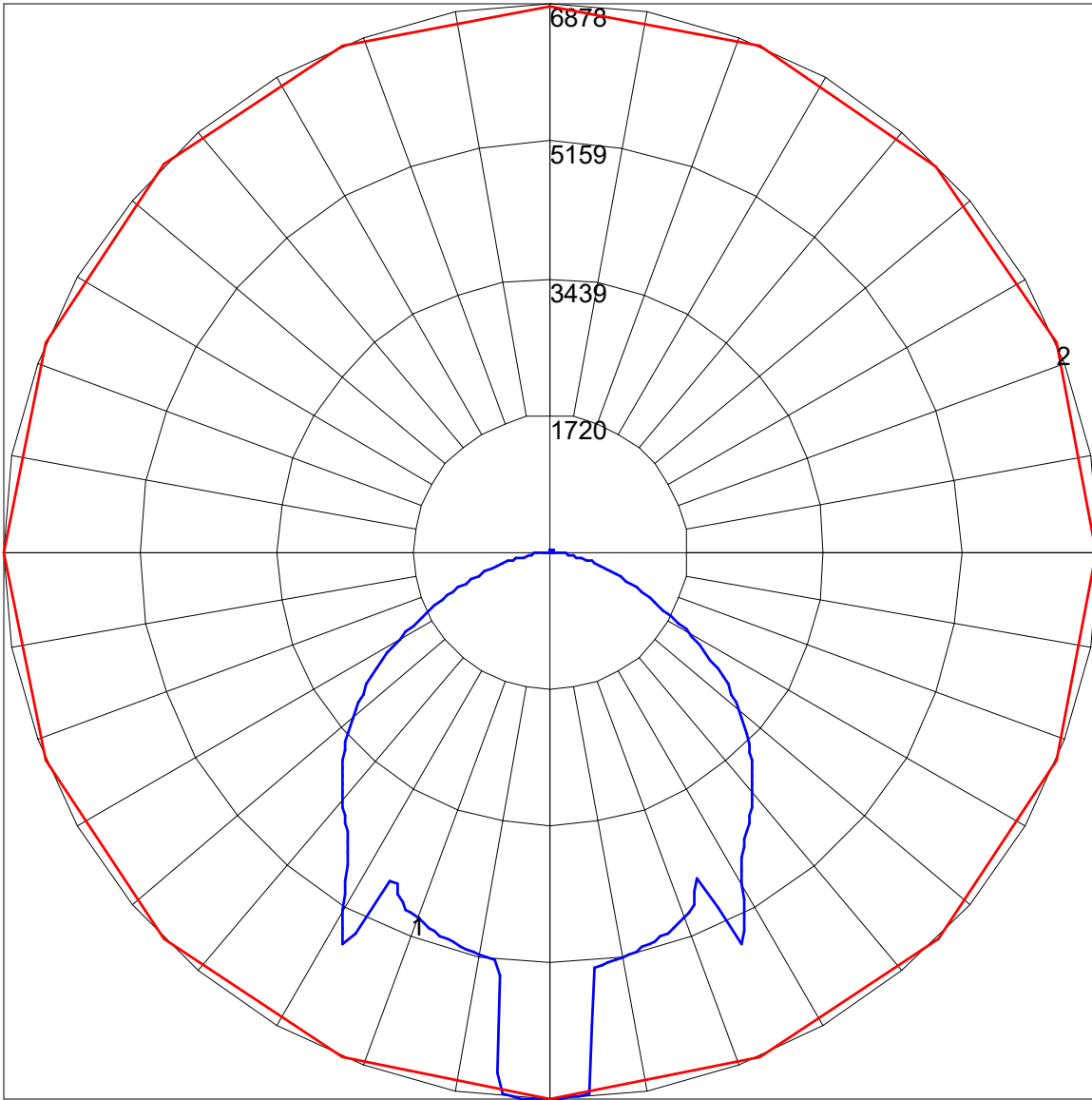
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

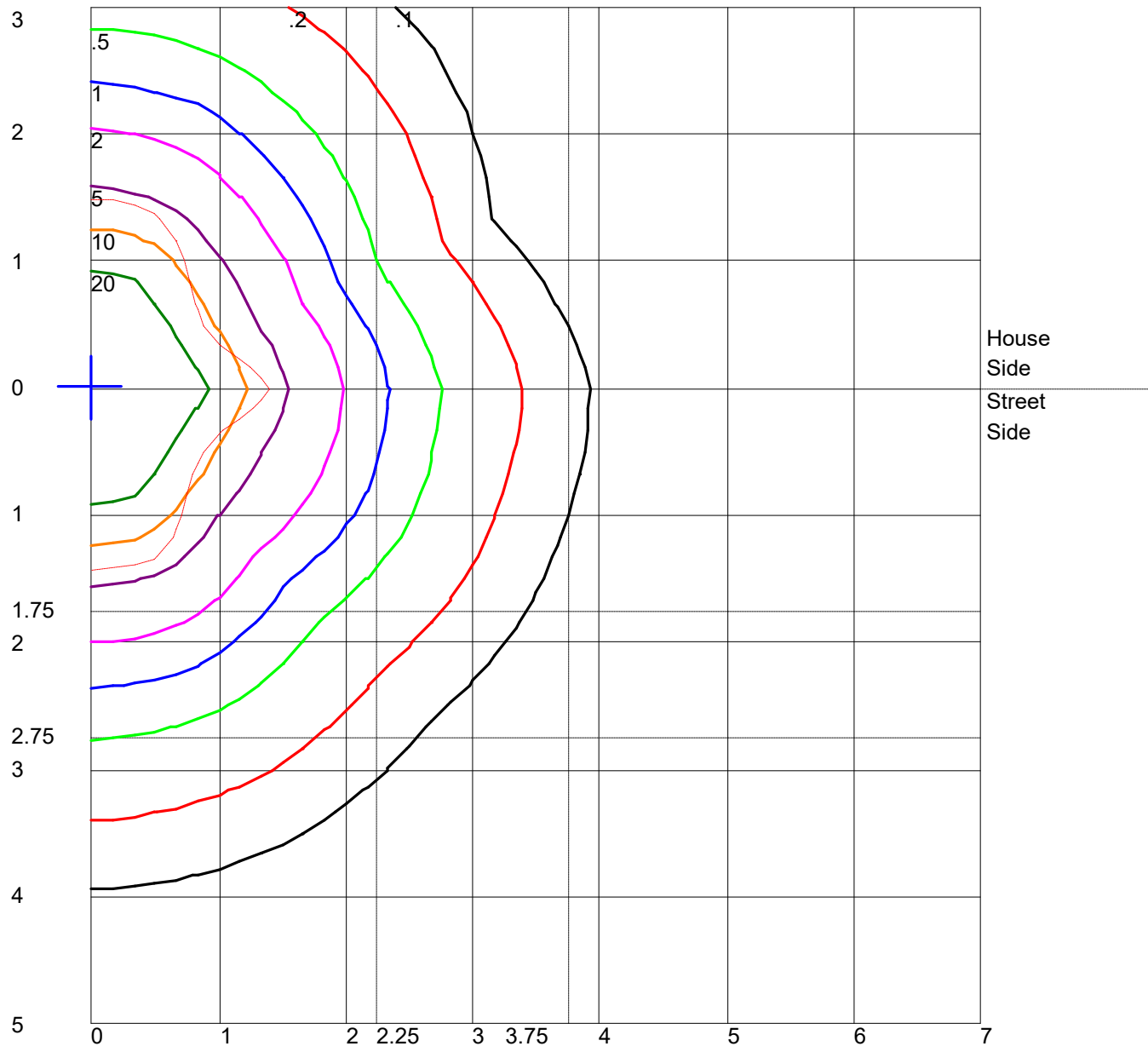
	Lumens	Percent Of Lamp
Downward Street Side	7891.8	49.5
Downward House Side	8015.2	50.2
Downward Total	15907.0	99.7
Upward Street Side	23.0	0.1
Upward House Side	23.2	0.1
Upward Total	46.2	0.3
Total Flux	15953.2	100.0

POLAR GRAPH



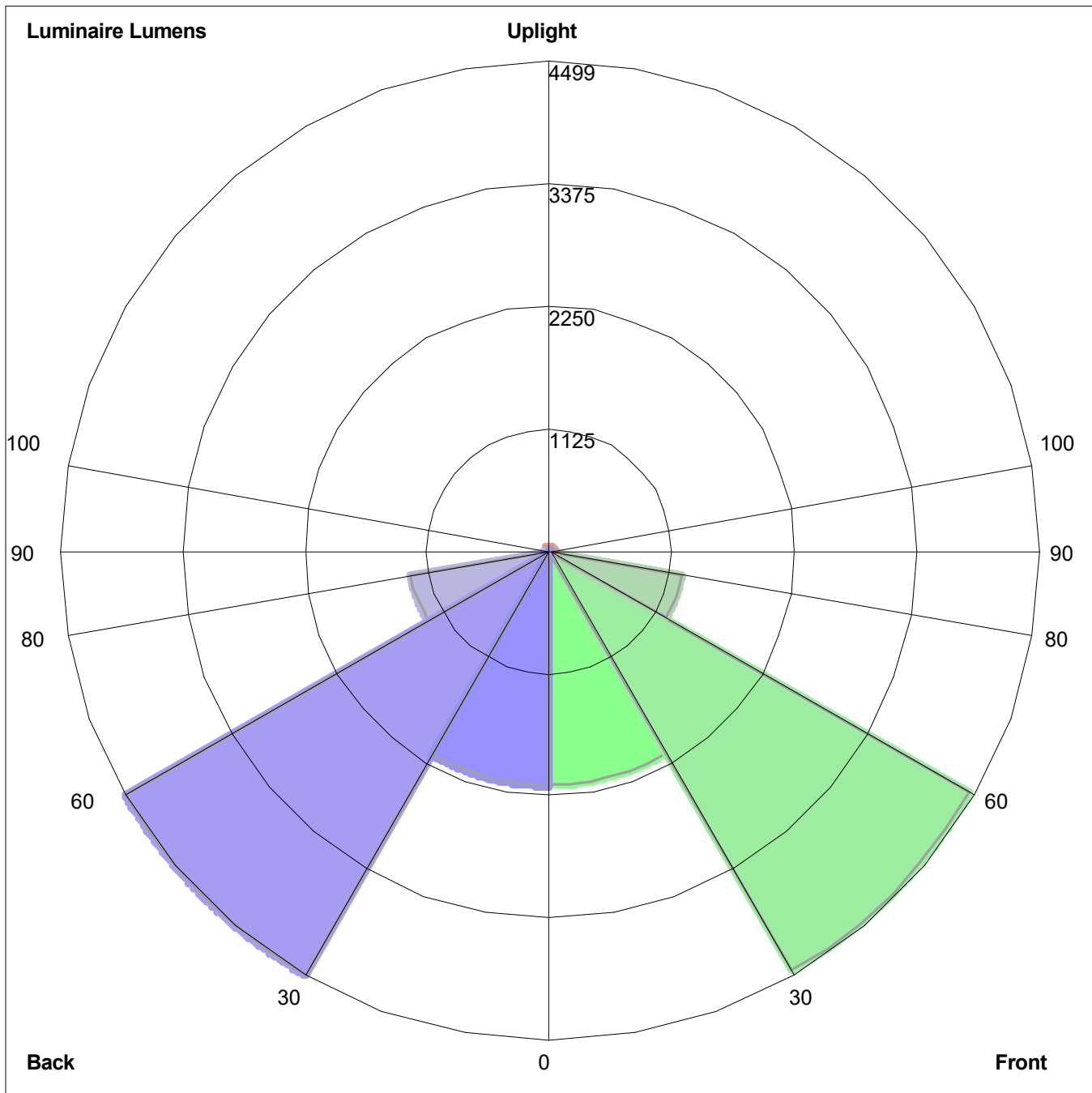
Maximum Candela = 6878.41 Located At Horizontal Angle = 225, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (225 - 45) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 10 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=2145.6, Medium=4452.6, High=1231.4, Very High=62.2
 Back: Low=2159.9, Medium=4499.4, High=1288.9, Very High=67.0
 Uplight: Low=11.0, High=35.2

BUG Rating : B3-U2-G1