



IES ROAD REPORT
PHOTOMETRIC FILENAME : S10-H-L3-840-FTG-WH-PHOTOPIA.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2017.2.0 see: www.ltioptics.com/ies
[ISSUE DATE]
[TEST DATE] Tue Jul 18 17:28:23 2017
[TEST] 1
[MANUFACTURER] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMEN CATEGORY] S10-H-L3-840-FTG-WH
[LUMINAIRE] 10 INCH RECTANGULAR STEP LIGHT
[LAMP] LED 18W Fortimo DLM-1100 Lamp
[LAMP CATEGORY] FORTIMO DLM-1100

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	530
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	12.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.29
Maximum Candela	367.5
Maximum Candela Angle	0H 75V
Maximum Candela (<90 Degrees Vertical)	367.5
Maximum Candela Angle (<90 Degrees Vertical)	0H 75V
Maximum Candela At 90 Degrees Vertical	331.96 (62.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	365.45 (69.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

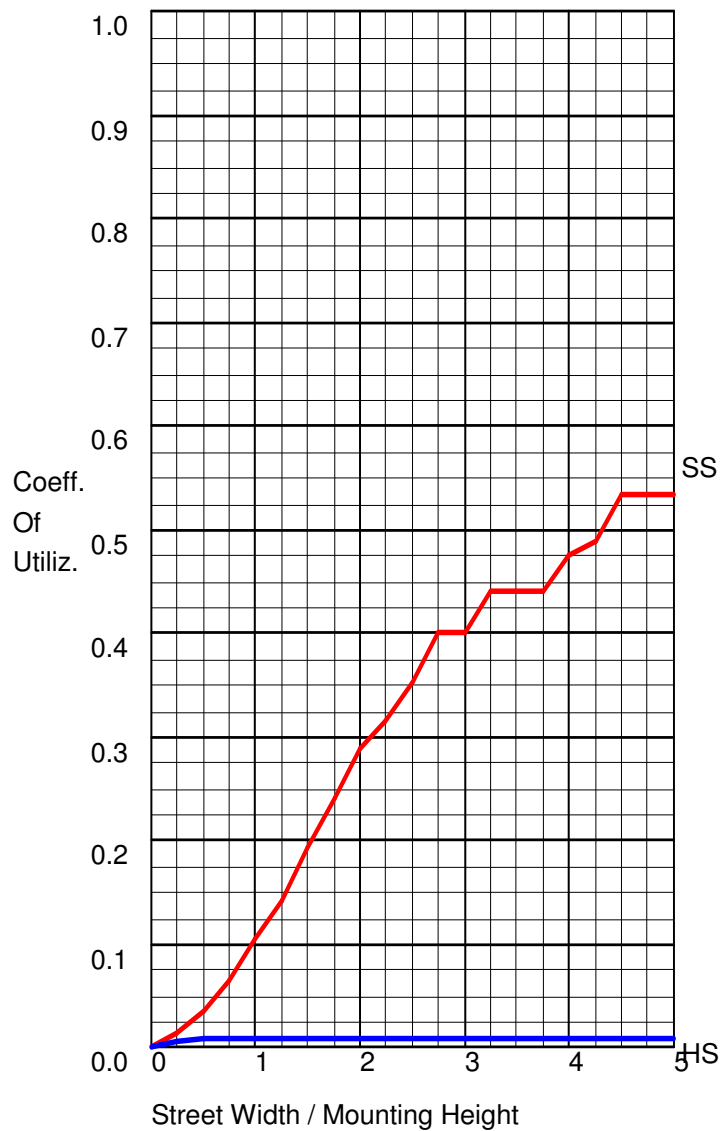
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	10.6	N.A.	2.0
FM - Front-Medium (30-60)	86.8	N.A.	16.4
FH - Front-High (60-80)	176.2	N.A.	33.2
FVH - Front-Very High (80-90)	96.8	N.A.	18.3
BL - Back-Low (0-30)	2.6	N.A.	0.5
BM - Back-Medium (30-60)	1.7	N.A.	0.3
BH - Back-High (60-80)	0.6	N.A.	0.1
BVH - Back-Very High (80-90)	0.3	N.A.	0.1
UL - Uplight-Low (90-100)	75.9	N.A.	14.3
UH - Uplight-High (100-180)	78.6	N.A.	14.8
Total	530.1	N.A.	100.0
BUG Rating	B0-U3-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>
0	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83
5	21.13	21.44	21.64	19.11	18.48	16.04	13.20	14.47	11.08
10	24.04	24.60	21.28	20.76	16.15	13.80	10.88	9.03	8.39
15	25.42	26.05	22.74	22.36	15.91	12.80	6.94	1.76	0.45
20	28.18	27.86	24.84	22.38	15.12	9.27	1.63	0.06	0.00
25	34.96	32.32	27.66	22.45	15.57	7.36	0.11	0.05	0.04
30	44.94	39.49	30.20	22.89	14.89	3.58	0.05	0.08	0.03
35	59.40	50.01	35.02	22.45	13.46	2.13	0.02	0.03	0.03
40	88.91	71.17	42.51	23.28	11.98	0.96	0.00	0.00	0.00
45	129.74	105.35	56.46	23.34	10.86	0.34	0.00	0.00	0.00
50	175.87	146.26	76.29	26.34	8.84	0.03	0.01	0.00	0.00
55	230.13	191.40	101.33	28.01	7.41	0.00	0.00	0.00	0.00
60	282.40	237.36	131.01	33.28	6.71	0.01	0.02	0.00	0.00
65	319.72	276.28	160.30	35.75	5.39	0.02	0.07	0.00	0.00
70	346.15	309.25	183.76	39.02	3.95	0.08	0.15	0.01	0.00
75	367.50	324.01	200.30	40.39	3.23	0.10	0.37	0.08	0.00
80	365.45	331.00	199.32	37.41	2.36	0.13	0.61	0.07	0.00
85	355.37	318.71	188.33	32.56	1.77	0.26	0.73	0.15	0.00
90	331.96	288.95	167.51	28.08	1.39	0.26	0.75	0.06	0.00
95	286.35	250.28	140.35	23.35	0.99	0.11	0.67	0.12	0.00
100	239.45	208.69	106.42	17.46	0.79	0.06	0.25	0.06	0.00
105	187.05	155.45	76.39	13.49	0.49	0.02	0.35	0.03	0.00
110	133.65	108.18	50.14	10.43	0.31	0.03	0.51	0.04	0.00
115	89.42	71.57	33.00	8.61	0.23	0.06	0.25	0.02	0.00
120	54.01	42.77	21.48	6.29	0.01	0.11	0.20	0.02	0.00
125	31.59	25.62	14.57	5.22	0.00	0.10	0.21	0.00	0.00
130	21.27	17.15	10.92	3.75	0.00	0.04	0.10	0.03	0.00
135	15.55	13.23	9.00	2.90	0.01	0.02	0.13	0.03	0.00
140	12.29	10.14	6.77	1.63	0.00	0.01	0.03	0.00	0.00
145	8.52	7.76	6.17	0.82	0.00	0.01	0.01	0.01	0.01
150	7.04	6.78	4.82	0.09	0.00	0.01	0.03	0.00	0.00
155	6.11	6.01	1.76	0.11	0.01	0.01	0.06	0.00	0.00
160	3.77	2.67	0.13	0.14	0.02	0.02	0.03	0.12	0.15
165	0.23	0.11	0.02	0.00	0.01	0.03	0.02	0.01	0.08
170	0.00	0.01	0.00	0.01	0.01	0.01	0.03	0.02	0.02
175	0.00	0.00	0.03	0.00	0.01	0.01	0.01	0.00	0.00
180	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

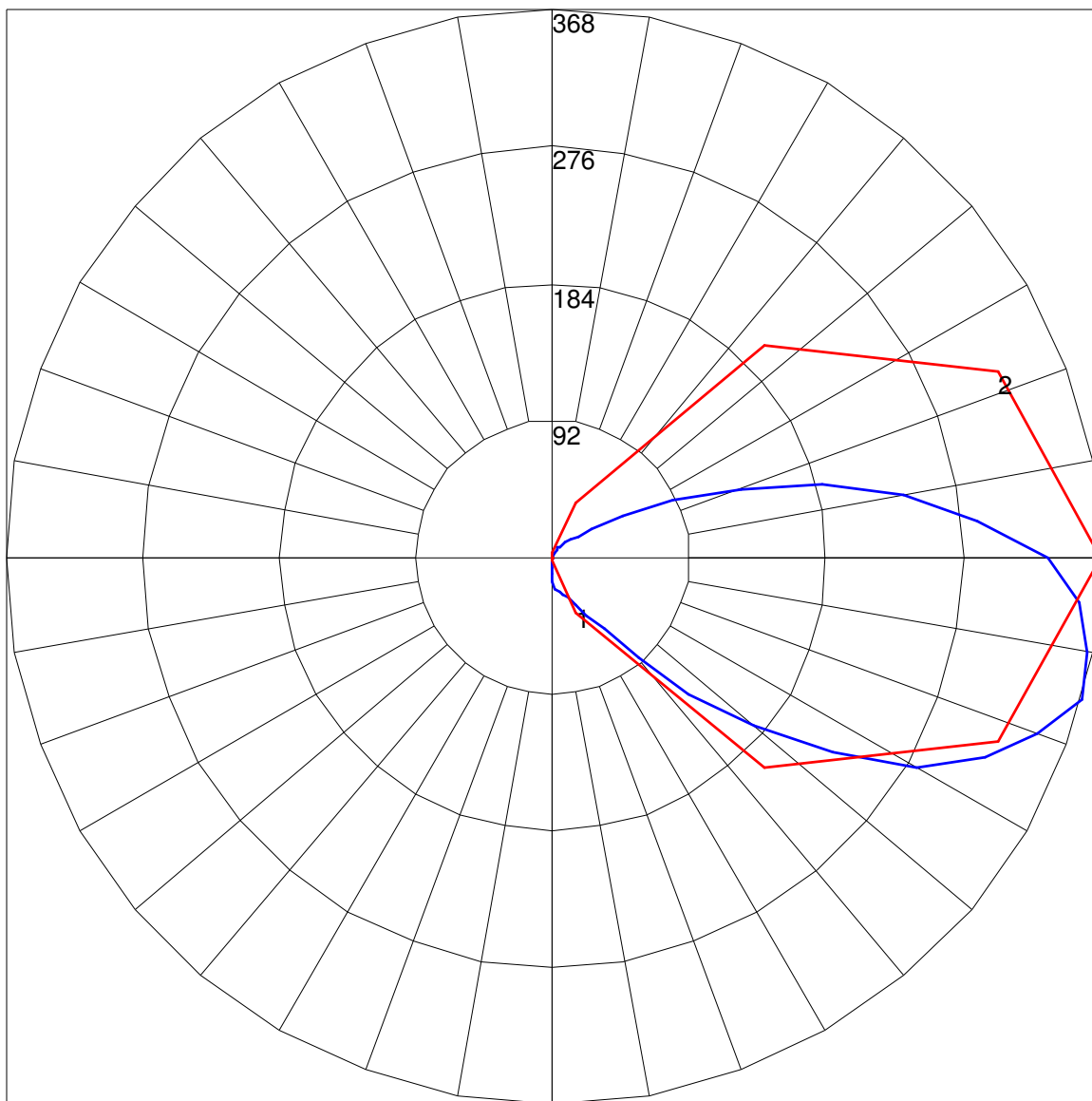
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FLUX DISTRIBUTION

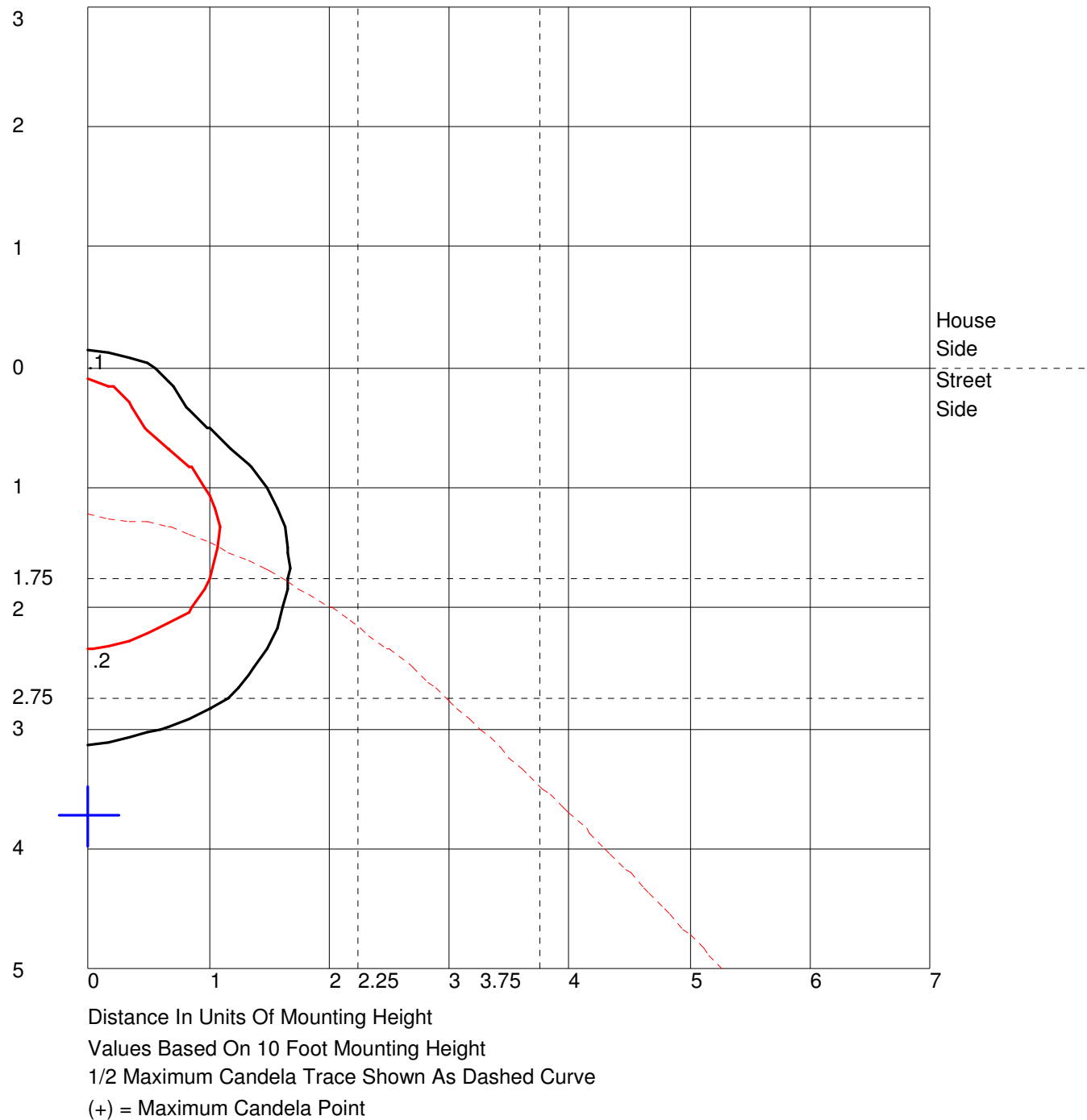
	Lumens	Percent Of Luminaire
Downward Street Side	370.4	69.9
Downward House Side	5.1	1.0
Downward Total	375.5	70.9
Upward Street Side	154.0	29.1
Upward House Side	0.4	0.1
Upward Total	154.4	29.1
Total Flux	529.9	100.0

POLAR GRAPH

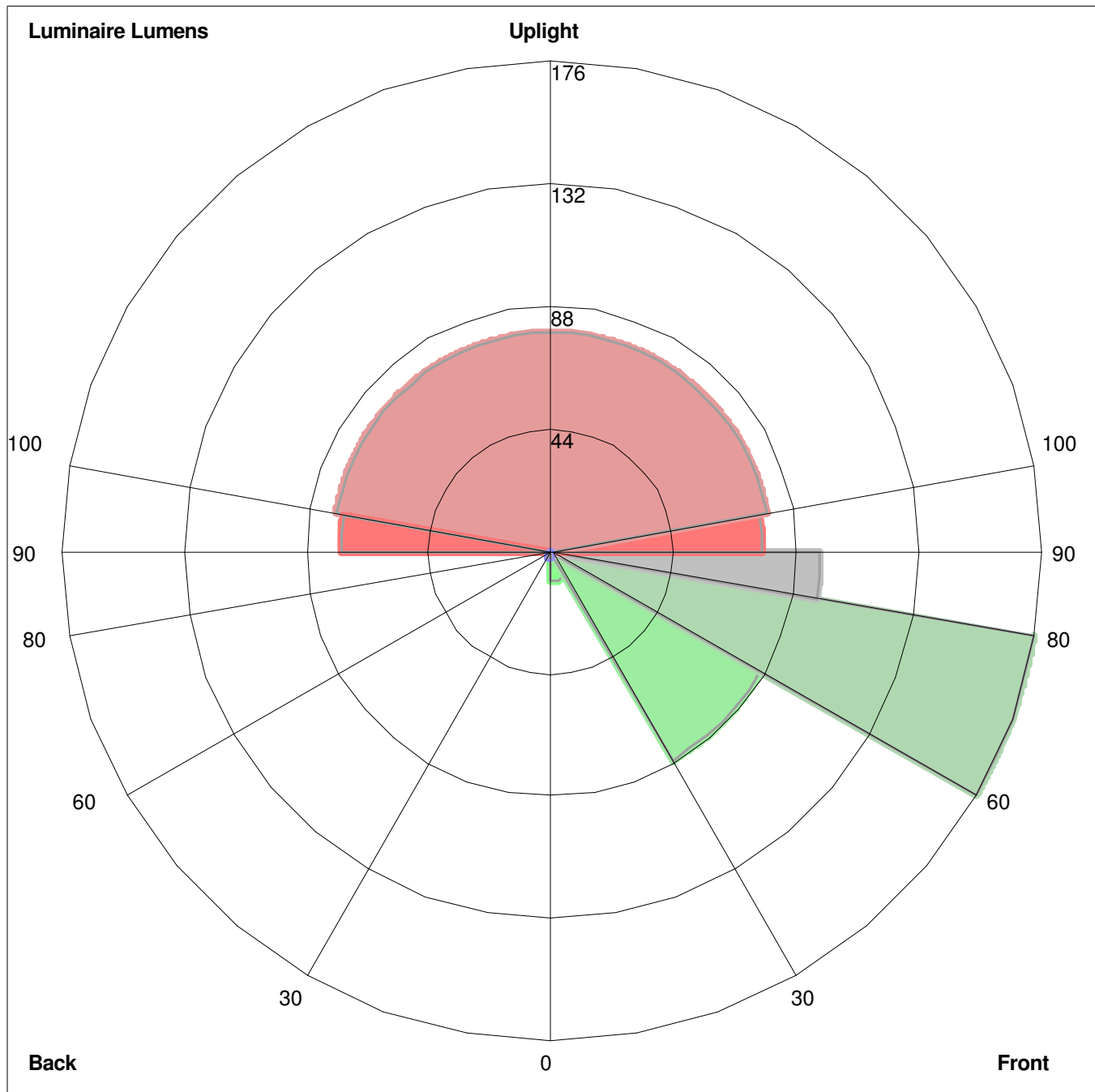


Maximum Candela = 367.5 Located At Horizontal Angle = 0, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=10.6, Medium=86.8, High=176.2, Very High=96.8
Back: Low=2.6, Medium=1.7, High=0.6, Very High=0.3
Uplight: Low=75.9, High=78.6

BUG Rating : B0-U3-G1