



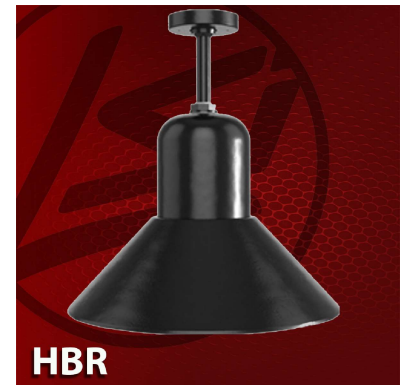
**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HBR-17L-50-GWT.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11927  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 4/19/2021  
[TEST DATE] 06/16/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] HBR-17L-50-GWT  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1563
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	12.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	654
Maximum Candela Angle	90H 2.5V
Maximum Candela (<90 Degrees Vertical)	654
Maximum Candela Angle (<90 Degrees Vertical)	90H 2.5V
Maximum Candela At 90 Degrees Vertical	1 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	14 (0.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	269.0	N.A.	17.2
FM - Front-Medium (30-60)	466.6	N.A.	29.9
FH - Front-High (60-80)	41.6	N.A.	2.7
FVH - Front-Very High (80-90)	4.2	N.A.	0.3
BL - Back-Low (0-30)	269.0	N.A.	17.2
BM - Back-Medium (30-60)	466.6	N.A.	29.9
BH - Back-High (60-80)	41.6	N.A.	2.7
BVH - Back-Very High (80-90)	4.2	N.A.	0.3
UL - Uplight-Low (90-100)	0.1	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	1562.9	N.A.	100.0
BUG Rating	B1-U1-G0		

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**CANDELA TABULATION**

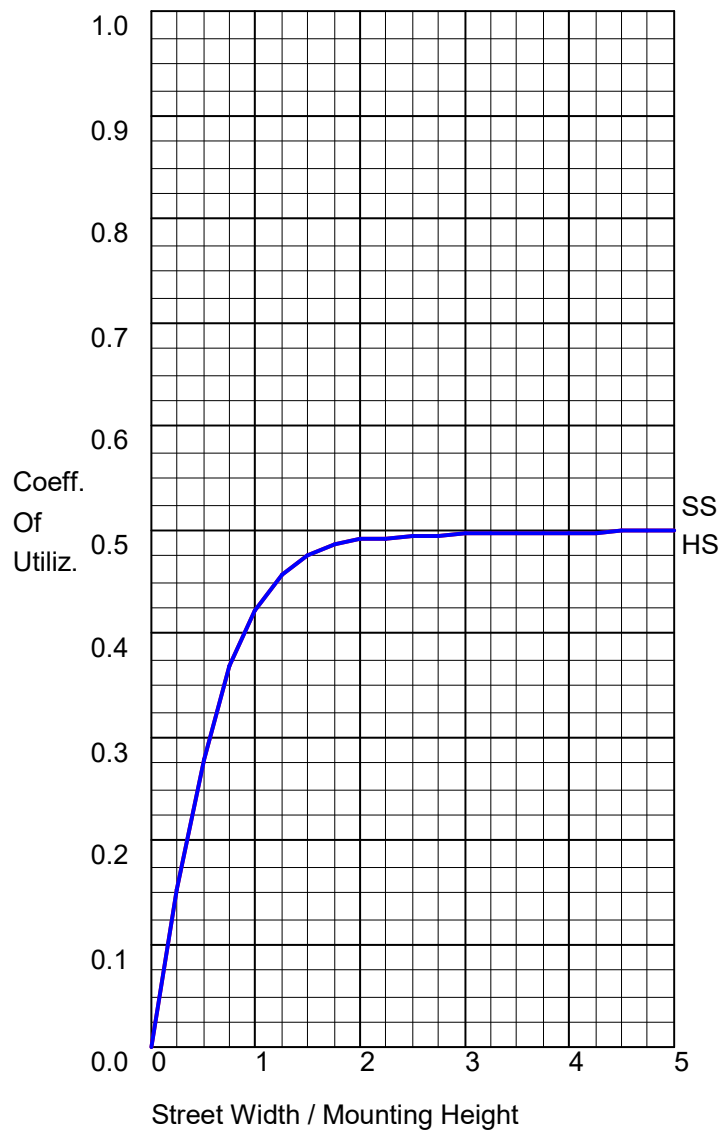
Vert. Angles	Horizontal Angles				
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	653	653	653	653	653
2.5	654	653	654	653	654
5.0	653	653	653	653	653
7.5	653	654	653	653	653
10.0	653	653	653	653	653
12.5	652	652	650	650	650
15.0	650	650	649	649	649
17.5	648	648	646	646	646
20.0	645	644	644	642	642
22.5	642	641	639	638	638
25.0	639	638	637	635	637
27.5	631	631	627	626	626
30.0	601	601	600	598	600
32.5	559	559	559	559	560
35.0	531	531	530	530	531
37.5	508	508	506	504	506
40.0	485	484	481	480	482
42.5	459	459	455	452	454
45.0	433	433	429	425	426
47.5	407	407	402	396	400
50.0	380	380	374	369	373
52.5	352	352	346	340	346
55.0	324	322	316	312	317
57.5	275	276	269	266	272
60.0	154	157	160	158	163
62.5	67	67	68	68	70
65.0	48	48	48	48	49
67.5	34	34	34	34	34
70.0	30	30	30	30	30
72.5	26	26	26	26	26
75.0	22	23	22	22	22
77.5	18	18	18	18	18
80.0	14	14	14	14	14
82.5	11	11	11	11	11
85.0	8	8	8	8	8
87.5	5	5	5	4	4
90.0	0	1	1	1	1
92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

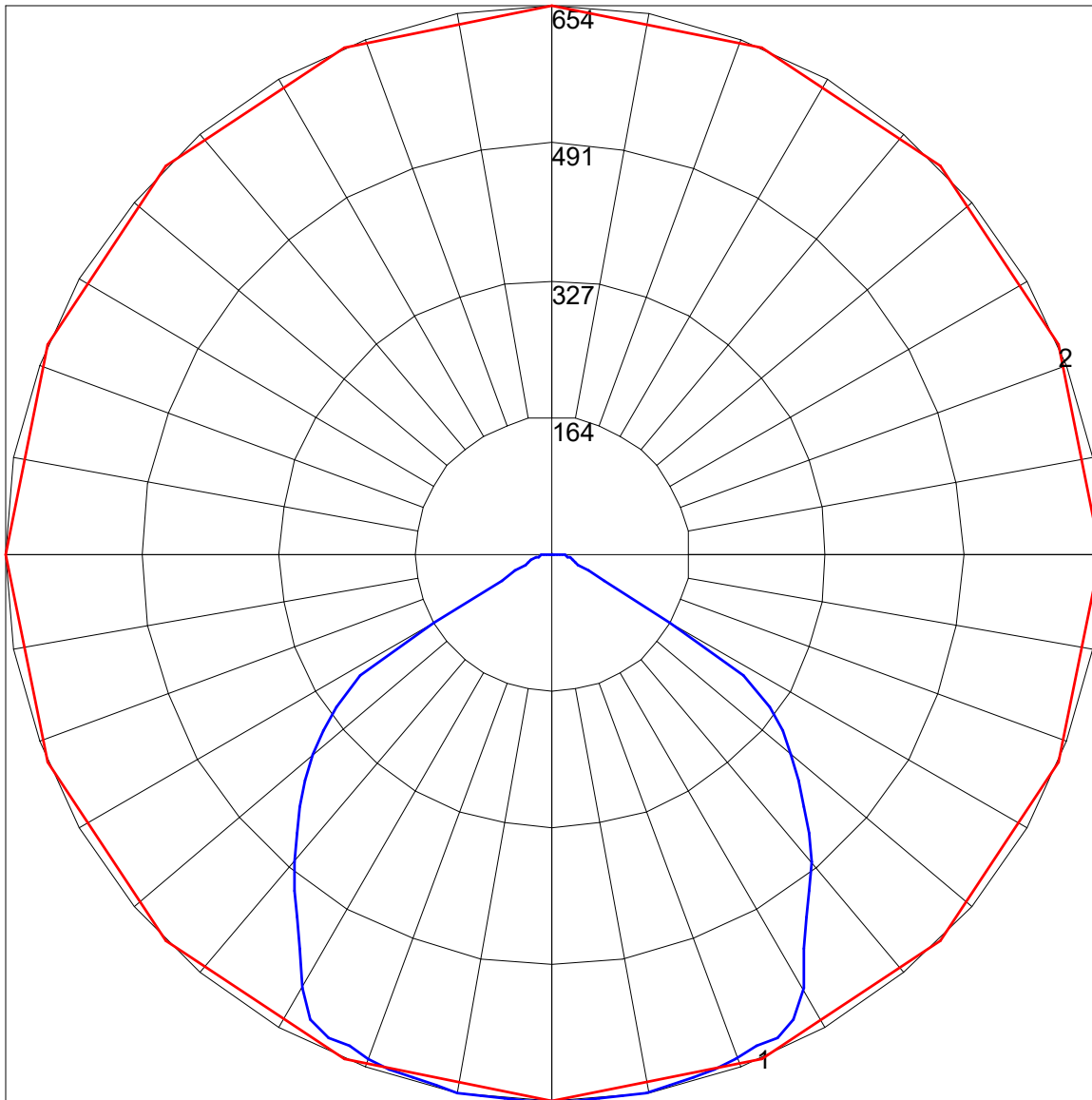
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

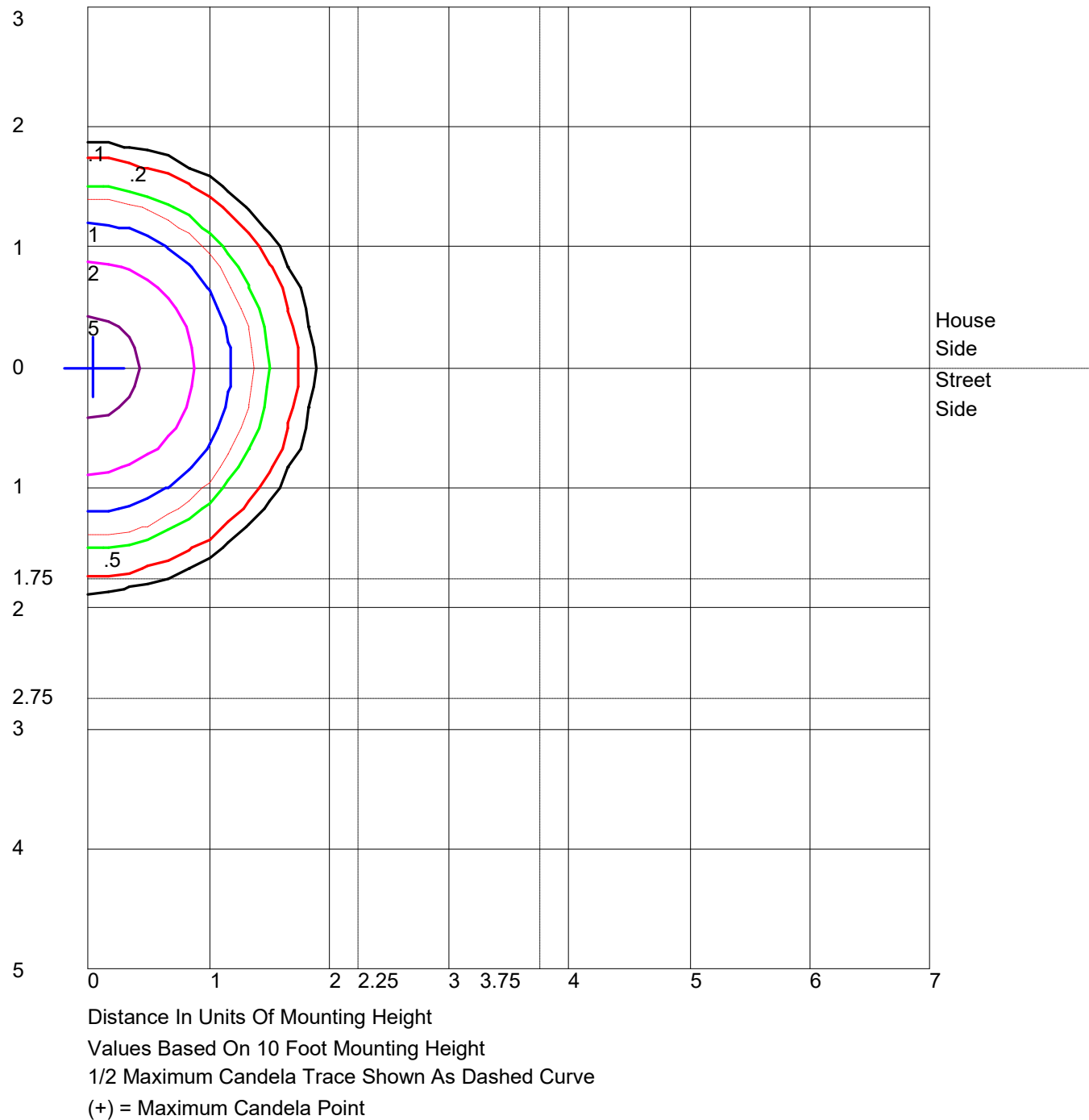
	Lumens	Percent Of Luminaire
Downward Street Side	781.4	50.0
Downward House Side	781.4	50.0
Downward Total	1562.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1563.0	100.0

POLAR GRAPH

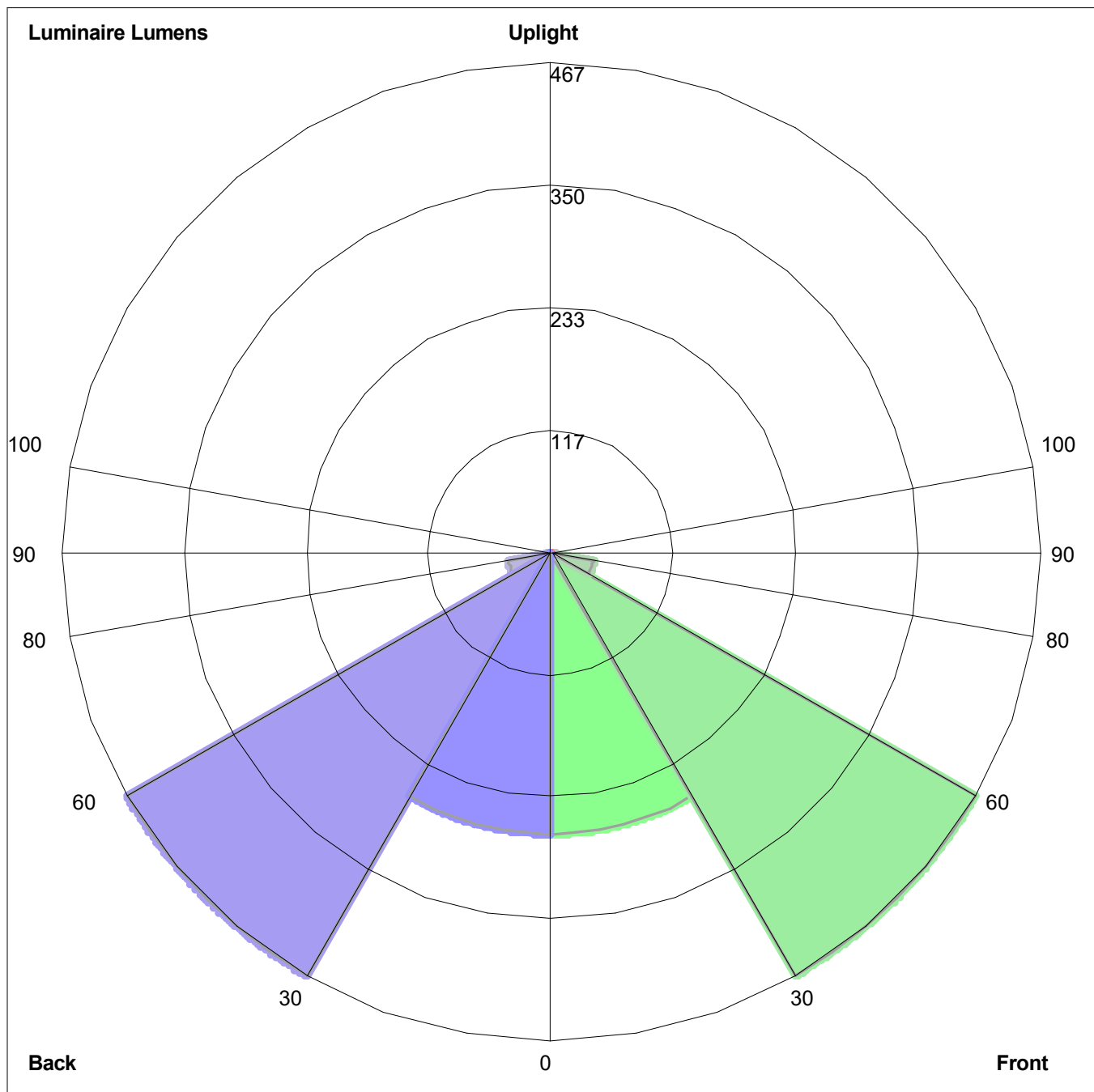


Maximum Candela = 654 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=269.0, Medium=466.6, High=41.6, Very High=4.2  
Back: Low=269.0, Medium=466.6, High=41.6, Very High=4.2  
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0