



8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Report No: L091706905



Report No: L091706905

Issue Date: 10/16/2017

Report Prepared For: USTE, dba Vista Professional Outdoor Lighting
1625 Surveyor Ave., Simi Valley CA 93063

Model Number: 1470/1471-1Q-A

Test: Electrical and Photometric tests

Standards Used: Appropriate part or all test guidelines were used for test performed:
IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products
ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products
ANSI C82.77:2002: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 10/12/17

Date of Tests: 10/13/17 - 10/16/17

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	11/28/17
ITECH	IT6122	PS-DC03-S1	11/28/17
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/28/17
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

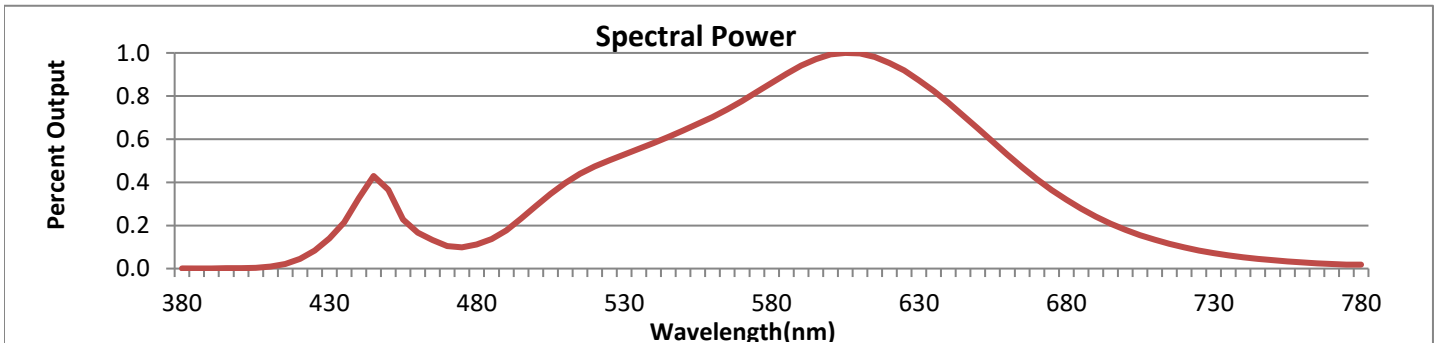
Test Summary

Manufacturer:	USTE, dba Vista Professional Outdoor Lighting
Model Number:	1470/1471-1Q-A
Driver Model Number:	ERP ESS010W-0350-24
Total Lumens:	383.10
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.055
Input Power (W):	6.48
Input Power Factor:	0.98
Current ATHD @ 120V(%):	14%
Current ATHD @ 277V(%):	N/A
Efficacy:	59
Color Rendering Index (CRI):	82
Correlated Color Temperature (K):	2895
Chromaticity Coordinate x:	0.4508
Chromaticity Coordinate y:	0.4187
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:20



FIG. 1 LUMINAIRE

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



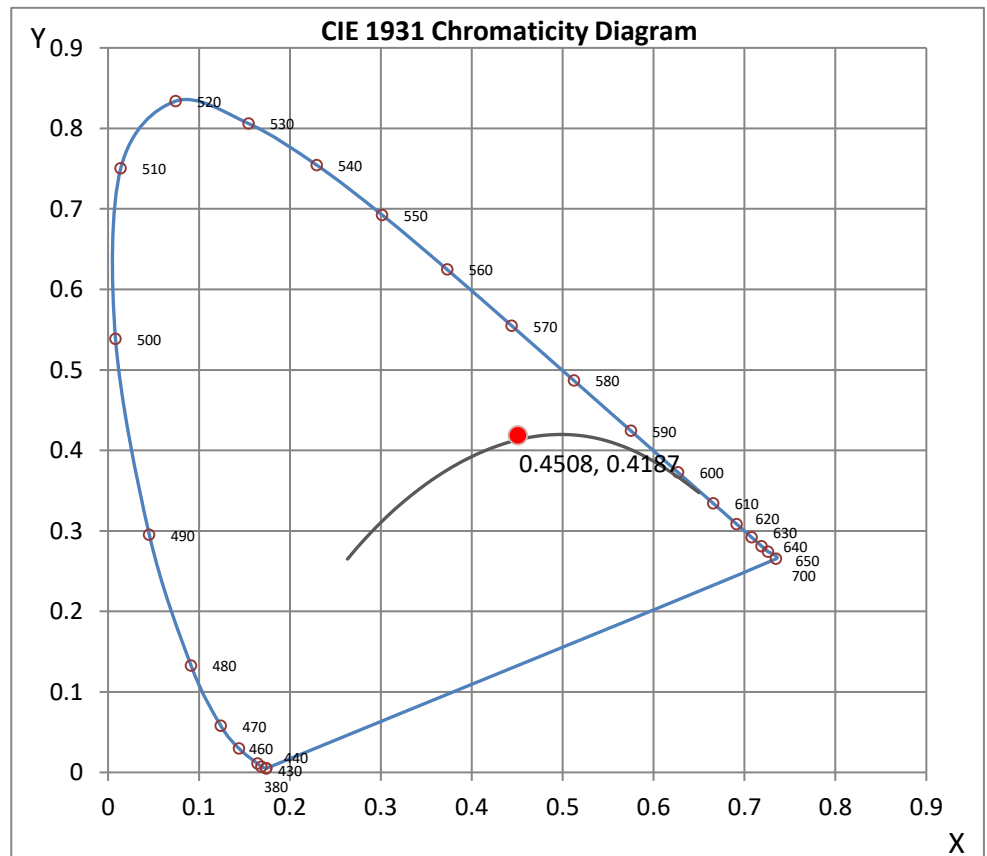
Wavelength	W/m ² nm	440	0.3271	510	0.3974	580	0.8608	650	0.6498	720	0.0977
380	0.0007	450	0.3663	520	0.4733	590	0.9410	660	0.5284	730	0.0719
390	0.0009	460	0.1673	530	0.5285	600	0.9933	670	0.4149	740	0.0526
400	0.0020	470	0.1037	540	0.5816	610	0.9976	680	0.3192	750	0.0386
410	0.0091	480	0.1112	550	0.6403	620	0.9536	690	0.2411	760	0.0285
420	0.0449	490	0.1772	560	0.7028	630	0.8737	700	0.1801	770	0.0210
430	0.1393	500	0.2903	570	0.7773	640	0.7691	710	0.1334	780	0.0182

CRI & CCT

x	0.4508
y	0.4187
u'	0.2532
v'	0.5290
CRI	81.70
CCT	2895
Duv	0.00391

R Values

R1	79.80
R2	86.96
R3	94.44
R4	82.31
R5	79.05
R6	83.27
R7	85.95
R8	62.05
R9	10.27
R10	70.26
R11	81.56
R12	65.24
R13	80.86
R14	96.35



*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Joseph Shin

Test Report Released by:



Jeff Ahn
Engineering Manager

Test Report Reviewed by:



Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 14*



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Photometric Test Report

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091706905.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L091706905
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 10/16/2017
 [MANUFAC] USTE, DBA VISTA PROFESSIONAL OUTDOOR LIGHTING
 [LUMCAT] 1470/1471-1Q-A
 [LUMINAIRE] Bollard, 1 quadrant distribution, 350mA
 [BALLASTCAT] ERP ESS010W-0350-24
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 6.48W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	383
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	6.48
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	244.2
Maximum Candela Angle	5H 60V
Maximum Candela (<90 Degrees Vertical)	244.2
Maximum Candela Angle (<90 Degrees Vertical)	5H 60V
Maximum Candela At 90 Degrees Vertical	21.1 (5.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	68.3 (17.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091706905.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	62.5	N.A.	16.3
FM - Front-Medium (30-60)	150.7	N.A.	39.3
FH - Front-High (60-80)	104.6	N.A.	27.3
FVH - Front-Very High (80-90)	17.0	N.A.	4.4
BL - Back-Low (0-30)	6.9	N.A.	1.8
BM - Back-Medium (30-60)	15.3	N.A.	4.0
BH - Back-High (60-80)	6.5	N.A.	1.7
BVH - Back-Very High (80-90)	1.6	N.A.	0.4
UL - Uplight-Low (90-100)	7.9	N.A.	2.1
UH - Uplight-High (100-180)	10.0	N.A.	2.6
Total	383.0	N.A.	100.0
BUG Rating	B0-U1-G1		

ZONAL LUMEN SUMMARY

Zone	%
0-20	8.1
0-30	18.1
0-40	30.9
0-60	61.4
0-80	90.4
0-90	95.3
10-90	93.7
20-40	22.8
20-50	36.3
40-70	49.3
60-80	29
70-80	10.3
80-90	4.9
90-110	3.2
90-120	3.9
90-130	4.3
90-150	4.6
90-180	4.7
110-180	1.5
0-180	100

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091706905.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
5.0	176.1	174.7	172.0	169.2	162.5	154.8	147.4	138.3	127.6	117.6
10.0	200.5	200.2	199.2	198.9	196.5	193.1	190.1	183.6	175.1	169.0
15.0	197.4	196.7	195.7	195.7	193.8	192.2	192.1	190.5	185.9	182.1
20.0	178.6	178.0	177.6	179.2	179.2	178.8	179.4	179.6	177.7	177.5
25.0	163.6	164.0	164.3	165.5	166.0	166.3	167.3	167.4	166.0	165.3
30.0	163.1	162.9	163.1	164.0	163.1	163.6	163.8	161.9	159.1	158.2
35.0	161.3	161.0	159.8	160.5	159.5	159.4	158.9	155.8	154.1	152.8
37.5	159.1	158.2	157.6	157.8	156.2	156.4	155.1	150.9	149.9	148.7
40.0	155.8	154.7	154.4	153.9	151.8	152.6	151.0	146.4	145.9	144.3
42.5	150.7	148.8	149.0	149.3	146.5	146.7	146.0	141.6	140.0	138.6
45.0	141.8	140.6	142.2	142.0	139.2	139.1	138.9	134.0	133.8	131.7
47.5	133.9	133.8	134.8	133.8	131.5	131.9	131.3	127.4	127.2	125.4
50.0	135.5	135.6	136.2	135.5	134.0	133.1	131.1	126.4	125.1	121.4
52.5	164.3	163.9	162.9	161.5	158.1	153.9	147.4	139.5	132.9	125.0
55.0	211.9	209.9	205.3	201.3	195.9	188.0	176.8	164.8	152.6	137.9
57.5	244.1	242.3	234.6	228.5	220.5	211.3	199.6	185.7	170.9	152.1
60.0	242.3	244.2	236.8	231.1	223.9	212.6	202.8	189.3	175.9	158.0
62.5	232.1	236.9	232.1	226.2	221.7	211.1	201.6	188.5	174.5	157.4
65.0	214.1	220.7	216.0	208.8	208.0	196.9	189.2	179.2	166.7	153.3
67.5	183.9	187.0	183.1	178.1	176.0	168.3	162.5	157.2	146.1	136.5
70.0	148.2	149.0	144.7	139.7	139.1	133.4	128.2	125.3	119.2	112.0
72.5	110.1	112.3	111.3	108.3	105.6	101.6	99.0	95.6	91.6	86.9
75.0	88.1	89.3	89.2	89.1	88.1	83.0	78.7	76.5	72.3	68.0
77.5	77.6	78.5	78.1	77.2	77.7	74.4	68.9	65.5	62.4	57.1
80.0	68.2	68.3	67.1	65.7	65.4	64.2	61.0	56.8	53.4	49.7
85.0	37.8	37.3	36.7	36.0	35.4	35.1	35.0	35.5	34.6	33.1
90.0	17.0	17.2	17.9	18.8	19.6	19.6	19.7	19.8	19.9	20.6
95.0	11.0	11.0	11.1	11.5	11.8	12.4	13.3	13.5	13.4	13.3
100.0	8.9	8.8	8.9	8.9	8.8	8.9	9.0	9.2	9.4	9.5
105.0	7.7	7.5	7.5	7.5	7.5	7.3	7.2	7.1	6.9	6.8
110.0	6.6	6.5	6.5	6.5	6.4	6.3	6.1	5.9	5.7	5.4
115.0	5.7	5.5	5.5	5.5	5.5	5.3	5.2	4.9	4.7	4.5
120.0	4.7	4.8	4.7	4.6	4.5	4.4	4.2	4.0	3.9	3.8
125.0	4.0	3.9	4.0	3.8	3.7	3.6	3.4	3.4	3.2	3.0
130.0	3.1	3.0	3.0	2.9	2.9	2.6	2.6	2.5	2.2	2.2
135.0	2.0	1.9	2.0	1.8	1.8	1.7	1.9	1.5	1.6	1.4
140.0	1.2	1.2	1.1	1.2	1.1	1.1	1.1	1.2	1.1	1.0
145.0	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6
150.0	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.6
155.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.7
160.0	0.9	1.1	0.9	0.9	0.8	1.0	0.9	0.8	0.9	0.8
165.0	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.6	0.5	0.3
170.0	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3
175.0	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
5.0	106.8	94.9	83.8	73.3	62.8	51.3	42.8	34.1	26.7	21.5
10.0	162.0	150.8	137.0	125.7	113.5	99.5	87.6	75.2	64.3	53.9

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091706905.IES

CANDELA TABULATION - (Cont.)

15.0	174.1	163.0	150.9	143.7	127.7	112.0	105.5	95.1	76.2	63.8
20.0	174.6	165.8	150.3	141.2	133.2	116.7	102.7	92.9	82.4	61.6
25.0	164.9	160.7	149.2	137.5	126.2	116.1	102.5	89.7	81.9	69.4
30.0	156.3	151.9	144.0	133.9	121.6	112.6	102.7	89.6	78.7	70.8
35.0	149.4	142.9	136.8	129.0	116.4	105.8	97.6	85.6	72.9	65.4
37.5	144.0	138.4	133.5	125.2	111.8	101.7	93.8	82.7	70.4	62.6
40.0	139.0	133.8	129.8	120.5	107.7	97.6	89.8	79.3	67.7	60.1
42.5	133.4	128.9	124.7	114.6	102.7	92.8	84.8	74.7	64.3	56.6
45.0	127.4	124.1	119.5	108.7	97.6	89.2	81.3	71.9	62.0	53.5
47.5	121.6	118.3	112.5	102.1	92.9	85.0	76.6	67.9	58.7	49.9
50.0	117.1	113.5	106.7	97.4	89.1	79.1	70.8	63.7	54.1	46.1
52.5	118.7	112.2	102.3	93.5	85.4	74.3	66.5	60.4	51.7	43.1
55.0	127.6	115.7	102.3	91.2	80.1	69.5	62.8	56.9	48.4	39.8
57.5	138.5	121.3	106.1	92.0	78.5	67.1	59.5	52.8	44.9	37.1
60.0	143.6	127.2	110.3	93.5	78.4	66.7	57.6	50.0	42.9	34.8
62.5	144.7	130.1	112.5	96.3	79.0	66.7	55.4	47.2	39.7	32.5
65.0	139.7	126.1	110.2	94.7	79.6	66.3	54.4	45.3	37.1	29.8
67.5	127.3	115.6	101.6	87.7	74.4	61.8	51.1	42.4	34.7	27.5
70.0	105.0	97.5	87.3	77.1	66.8	56.4	46.6	38.2	31.2	24.4
72.5	83.1	77.8	71.8	64.8	57.5	49.7	41.4	34.2	28.4	22.7
75.0	66.3	62.3	57.8	52.6	47.3	41.8	35.5	29.6	24.6	20.2
77.5	52.9	50.7	46.9	43.0	39.2	34.9	30.2	25.1	20.9	17.1
80.0	45.8	42.1	39.6	35.9	31.7	28.1	24.4	21.1	18.0	14.8
85.0	32.1	30.5	28.3	25.4	22.9	19.4	16.1	13.8	11.8	9.8
90.0	21.1	20.8	20.0	19.2	17.9	15.3	12.4	10.1	8.1	6.3
95.0	13.4	13.4	13.5	13.9	13.7	12.3	10.5	8.7	6.9	5.1
100.0	9.4	9.2	9.1	9.1	8.9	8.4	7.5	6.3	5.2	4.0
105.0	6.7	6.5	6.3	6.3	6.1	5.6	5.1	4.5	3.8	3.0
110.0	5.2	5.0	4.8	4.4	4.0	3.8	3.4	3.0	2.6	2.0
115.0	4.4	4.1	3.9	3.5	3.2	2.9	2.5	2.2	1.8	1.4
120.0	3.6	3.3	3.1	2.9	2.6	2.2	2.0	1.7	1.3	1.0
125.0	2.8	2.6	2.4	2.2	2.0	1.6	1.3	1.2	0.9	0.9
130.0	2.0	1.8	1.8	1.6	1.3	1.2	1.0	1.0	0.9	0.7
135.0	1.5	1.3	1.1	1.1	1.0	0.9	0.8	0.7	0.7	0.5
140.0	1.0	1.0	0.8	0.9	0.9	0.8	0.8	0.7	0.6	0.5
145.0	0.7	0.9	0.8	0.7	0.8	0.8	0.7	0.5	0.7	0.4
150.0	0.5	0.8	0.9	0.8	0.7	0.8	0.6	0.6	0.5	0.4
155.0	0.7	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.3
160.0	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.3	0.3
165.0	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
170.0	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.2
175.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles

Angles	100	105	110	115	120	125	130	135	140	145
0.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
5.0	17.8	14.5	12.1	10.5	9.2	8.1	7.4	6.7	6.3	5.9
10.0	42.8	32.7	24.6	16.7	10.4	6.9	5.2	4.0	3.2	2.6
15.0	58.1	45.5	32.0	24.6	16.6	8.9	4.8	3.2	2.2	1.5
20.0	53.2	45.7	34.6	22.4	15.5	10.1	5.0	3.2	1.9	1.2
25.0	56.9	45.4	39.7	30.1	16.8	10.2	5.5	3.2	2.0	1.1
30.0	59.8	45.1	38.1	30.5	20.3	11.1	5.6	3.0	1.7	0.9
35.0	56.4	44.3	34.8	28.1	19.4	10.7	5.4	2.8	1.6	0.9
37.5	54.9	42.7	33.4	27.0	19.4	11.2	5.3	2.6	1.5	0.7

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091706905.IES

CANDELA TABULATION - (Cont.)

40.0	52.8	41.9	32.2	25.0	18.2	11.0	5.6	2.6	1.5	0.8
42.5	49.5	39.4	29.4	23.5	17.5	11.0	5.4	2.4	1.3	0.7
45.0	46.4	36.8	27.6	21.7	16.3	10.5	5.2	2.3	1.1	0.6
47.5	42.8	34.2	25.2	19.6	14.7	9.7	5.0	2.4	1.2	0.6
50.0	39.4	31.2	22.8	17.4	13.1	8.6	4.5	2.2	1.1	0.6
52.5	36.7	29.1	21.2	15.5	11.3	7.5	4.2	2.2	1.0	0.6
55.0	33.2	25.7	19.0	13.8	9.8	6.6	3.6	1.8	1.1	0.5
57.5	30.5	24.2	17.8	12.6	8.7	5.6	3.2	1.8	0.9	0.6
60.0	28.3	21.9	16.0	11.4	7.9	5.2	3.0	1.7	0.9	0.6
62.5	26.3	20.2	14.8	10.3	7.1	4.7	3.0	1.5	0.9	0.7
65.0	24.3	19.2	13.9	9.4	6.5	4.2	2.6	1.5	1.1	0.8
67.5	21.7	17.1	12.6	8.8	5.9	3.8	2.6	1.6	1.0	0.9
70.0	19.2	15.4	11.6	8.1	5.2	3.5	2.4	1.5	1.1	1.0
72.5	17.6	13.6	10.2	7.1	4.7	3.1	2.2	1.5	1.2	1.2
75.0	15.2	11.6	8.7	6.2	4.2	2.8	2.0	1.5	1.1	1.1
77.5	13.7	10.4	7.7	5.5	3.7	2.5	1.7	1.4	1.3	1.2
80.0	11.4	8.7	6.5	4.4	3.2	2.2	1.5	1.2	1.1	1.1
85.0	7.6	5.7	4.2	3.1	2.2	1.4	1.1	1.1	1.2	1.1
90.0	4.8	3.5	2.6	1.7	1.5	1.1	1.0	1.0	1.1	1.3
95.0	3.6	2.6	1.8	1.3	1.1	0.9	0.9	1.0	1.1	1.1
100.0	3.0	2.2	1.5	1.1	0.9	0.9	0.9	0.9	1.0	1.0
105.0	2.2	1.7	1.3	0.9	0.8	0.9	0.9	0.9	0.9	0.9
110.0	1.5	1.2	0.9	0.7	0.7	0.7	0.7	0.7	0.9	0.8
115.0	1.1	0.9	0.7	0.6	0.5	0.7	0.7	0.6	0.7	0.8
120.0	0.9	0.5	0.5	0.4	0.5	0.5	0.7	0.7	0.5	0.7
125.0	0.7	0.5	0.5	0.5	0.5	0.5	0.7	0.5	0.6	0.5
130.0	0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.5	0.6	0.7
135.0	0.5	0.5	0.3	0.4	0.5	0.5	0.5	0.6	0.5	0.7
140.0	0.5	0.5	0.5	0.6	0.4	0.5	0.6	0.5	0.6	0.6
145.0	0.5	0.5	0.3	0.5	0.4	0.4	0.4	0.4	0.5	0.5
150.0	0.4	0.5	0.4	0.4	0.3	0.4	0.3	0.5	0.5	0.4
155.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.0	0.3	0.3	0.3	0.2	0.1	0.3	0.1	0.3	0.3	0.3
170.0	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
175.0	0.2	0.1	0.2	0.1	0.0	0.1	0.1	0.1	0.2	0.2
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles
Angles

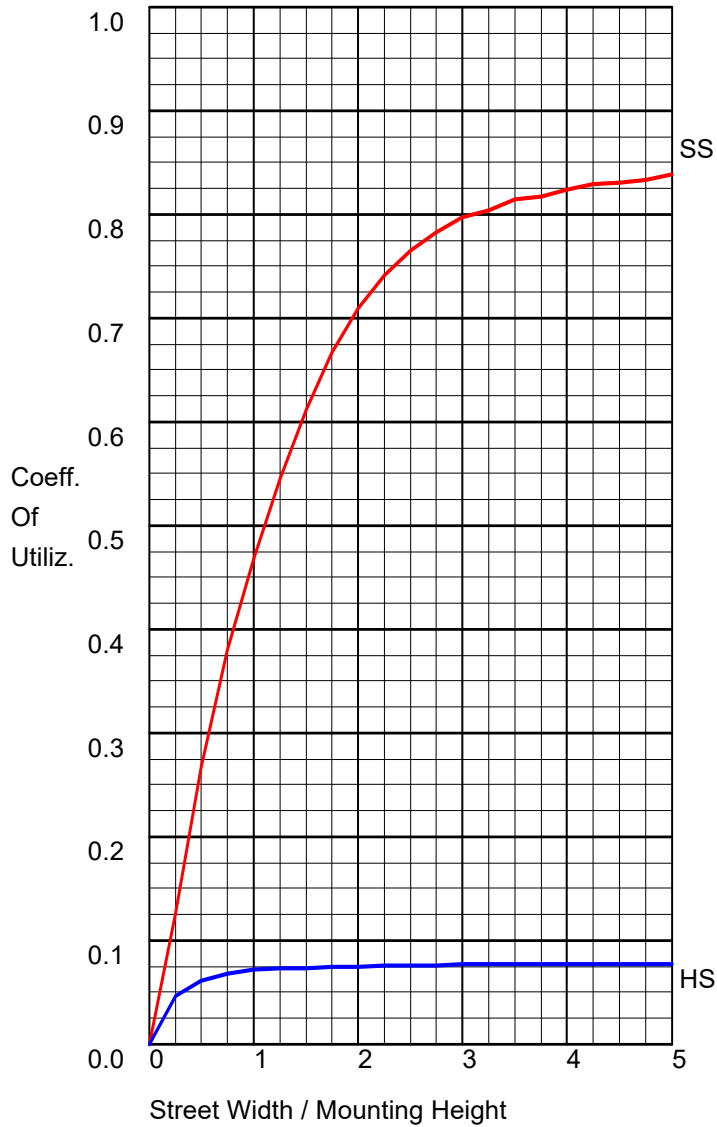
	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9
5.0	5.5	5.2	5.0	4.9	4.8	4.6	4.7
10.0	2.0	1.7	1.3	1.0	0.9	0.7	0.5
15.0	1.1	0.8	0.4	0.1	0.0	0.0	0.0
20.0	0.7	0.3	0.1	0.0	0.0	0.0	0.0
25.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0
30.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
35.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
37.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0
40.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
42.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
47.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0
50.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
52.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091706905.IES

CANDELA TABULATION - (Cont.)

55.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
57.5	0.3	0.2	0.1	0.1	0.1	0.1	0.0
60.0	0.5	0.3	0.3	0.1	0.2	0.1	0.0
62.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
65.0	0.7	0.6	0.5	0.5	0.6	0.5	0.3
67.5	0.8	0.8	0.6	0.7	0.7	0.8	0.8
70.0	1.1	0.9	0.9	0.9	0.9	0.9	0.8
72.5	1.1	1.1	0.9	0.9	1.0	1.0	1.2
75.0	1.1	1.1	1.1	1.0	1.1	1.2	1.2
77.5	1.1	1.1	1.1	1.1	1.3	1.3	1.2
80.0	1.2	1.3	1.3	1.2	1.3	1.3	1.3
85.0	1.2	1.3	1.3	1.3	1.3	1.5	1.3
90.0	1.1	1.3	1.3	1.3	1.3	1.3	1.3
95.0	1.1	1.2	1.1	1.2	1.3	1.2	1.3
100.0	1.1	1.1	1.1	1.1	1.1	1.2	1.1
105.0	1.1	1.0	1.1	1.1	1.1	1.1	1.3
110.0	1.0	1.0	1.1	1.1	1.0	1.1	0.9
115.0	0.9	0.9	0.8	0.9	0.9	0.9	0.8
120.0	0.7	0.7	0.7	0.9	0.9	0.8	0.8
125.0	0.7	0.7	0.7	0.7	0.8	0.9	0.7
130.0	0.7	0.7	0.7	0.7	0.8	0.7	0.7
135.0	0.6	0.7	0.7	0.7	0.7	0.7	0.7
140.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145.0	0.5	0.6	0.5	0.6	0.7	0.7	0.8
150.0	0.5	0.5	0.6	0.6	0.5	0.6	0.5
155.0	0.3	0.5	0.3	0.4	0.3	0.4	0.3
160.0	0.3	0.4	0.4	0.3	0.3	0.4	0.3
165.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170.0	0.1	0.2	0.2	0.1	0.2	0.1	0.1
175.0	0.2	0.2	0.2	0.1	0.1	0.3	0.1
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

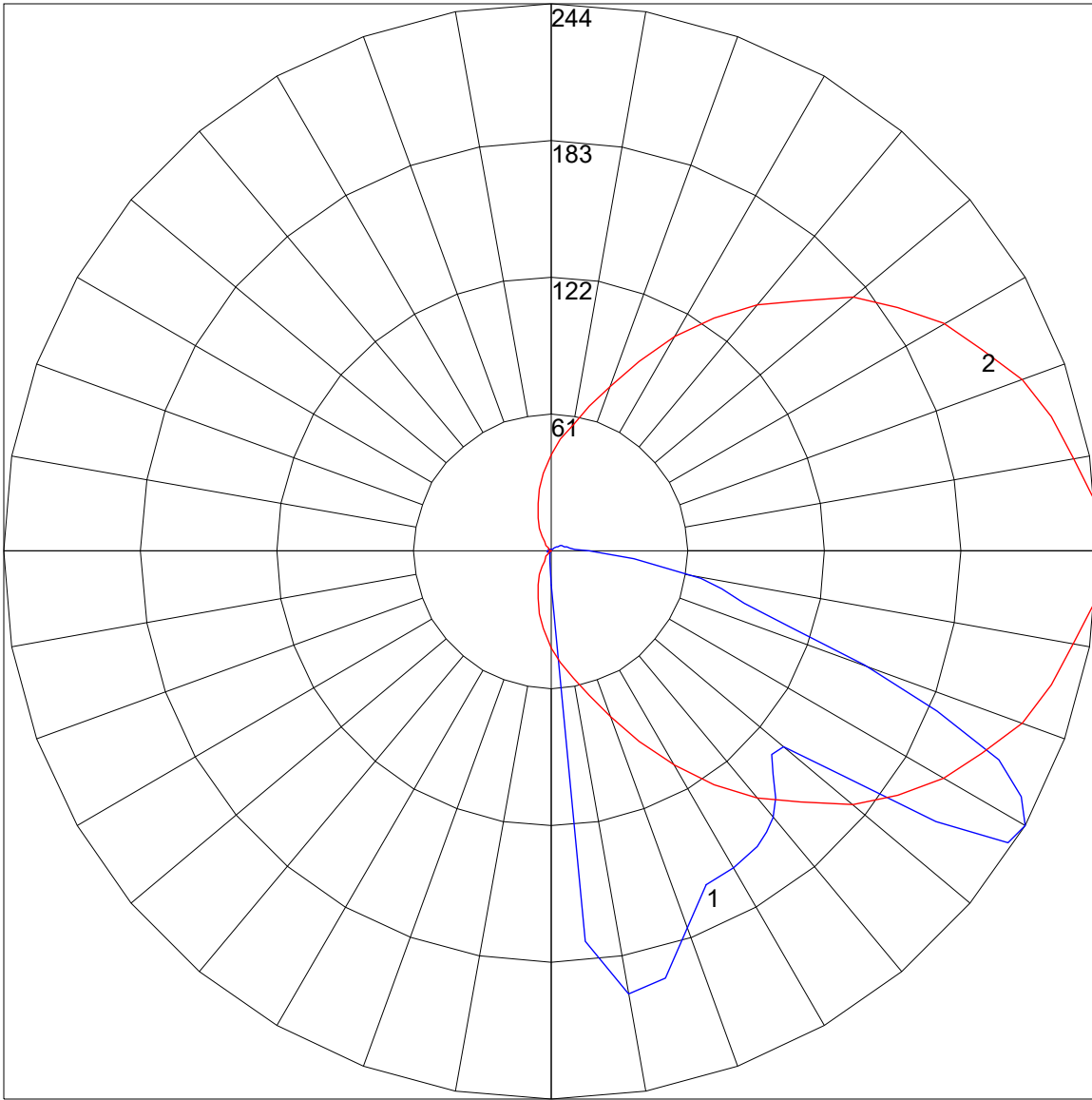
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

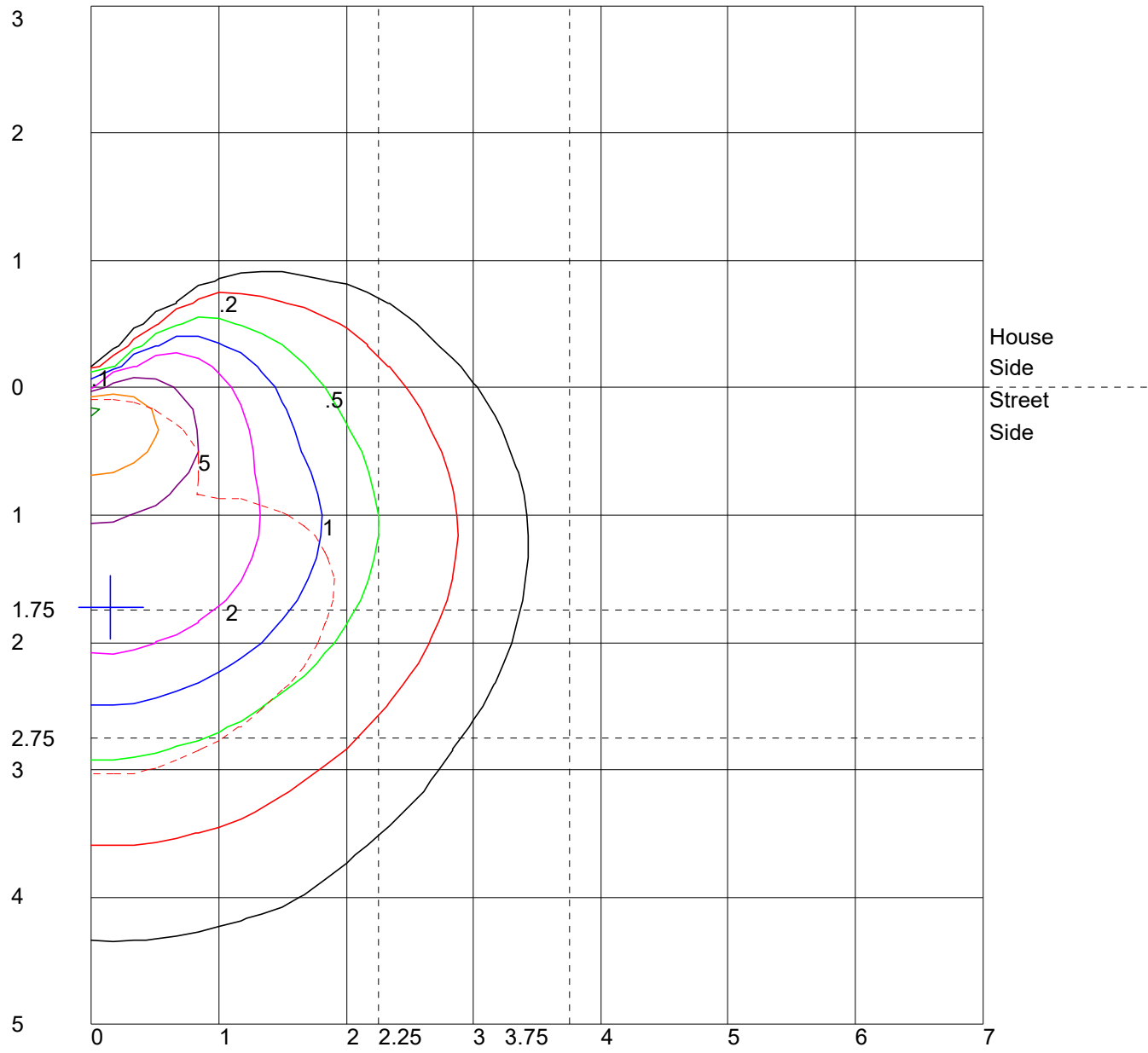
	Lumens	Percent Of Luminaire
Downward Street Side	334.9	87.4
Downward House Side	30.3	7.9
Downward Total	365.2	95.3
Upward Street Side	15.0	3.9
Upward House Side	2.9	0.8
Upward Total	17.9	4.7
Total Flux	383.1	100.0

POLAR GRAPH



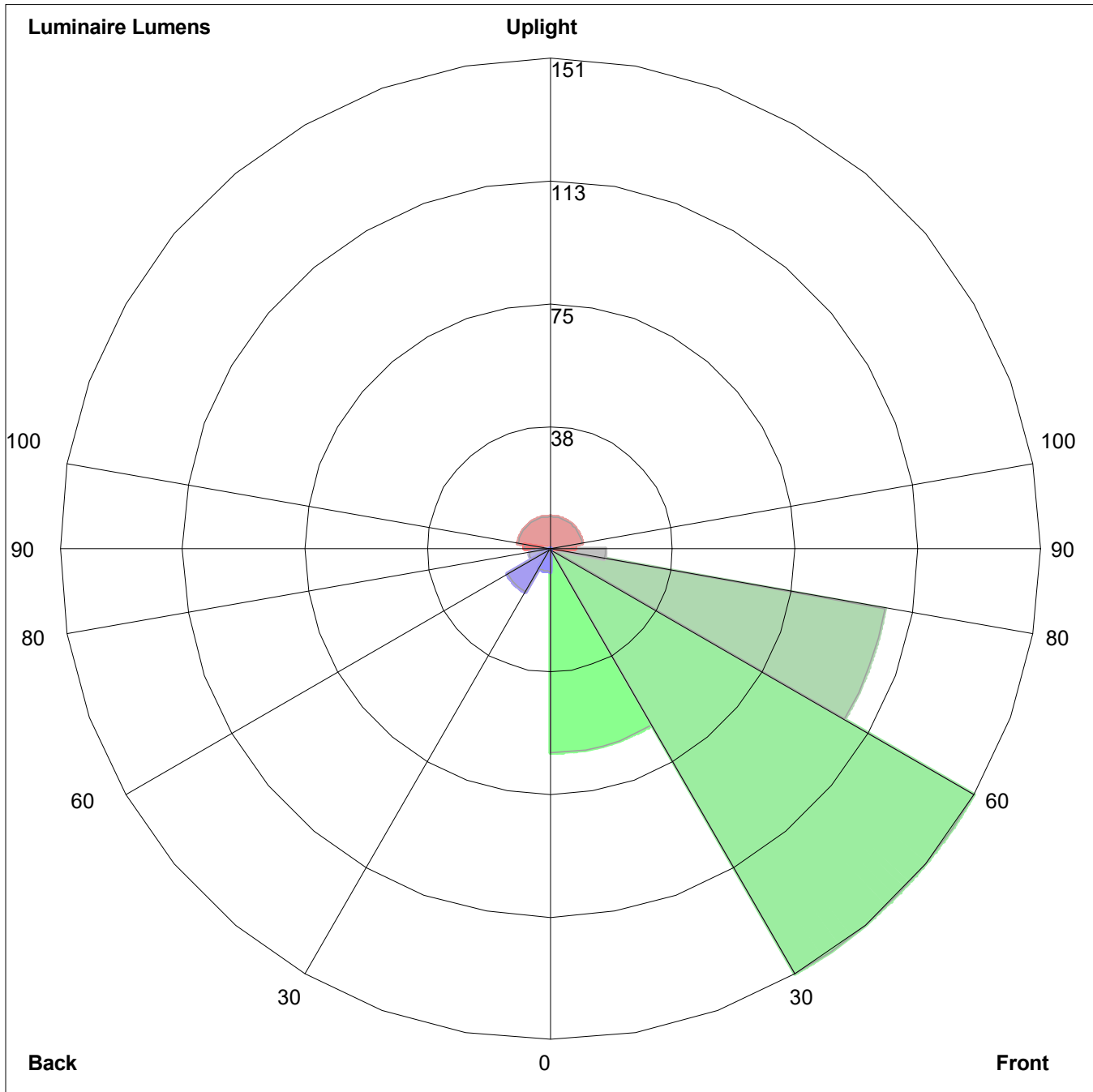
Maximum Candela = 244.2 Located At Horizontal Angle = 5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 3 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=62.5, Medium=150.7, High=104.6, Very High=17.0
Back: Low=6.9, Medium=15.3, High=6.5, Very High=1.6
Uplight: Low=7.9, High=10.0

BUG Rating : B0-U1-G1