



LTL Number: 14923

Date: 02-26-2009

Prepared For: Appalachian Lighting Systems

Catalog Number: CL1-01-1284-1 (Canopy)

Luminaire: Cast and extruded aluminum housing, clear prismatic plastic lens.

Lamp: 12 White LEDs

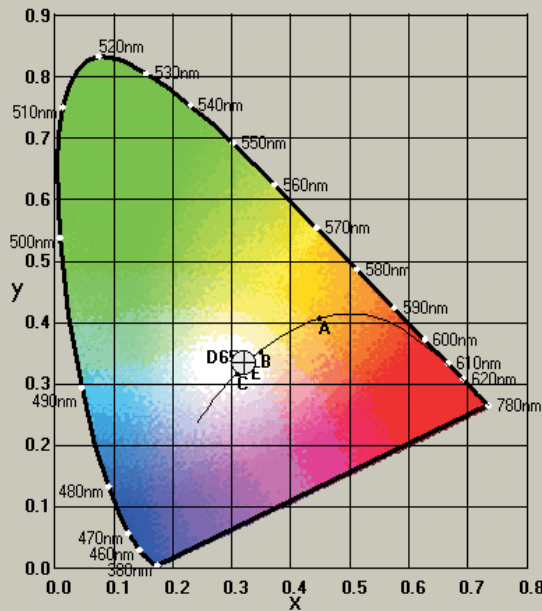
LED Power Supply: One unmarked LED Power Supply model CC-48500B

Power Factor: 0.546

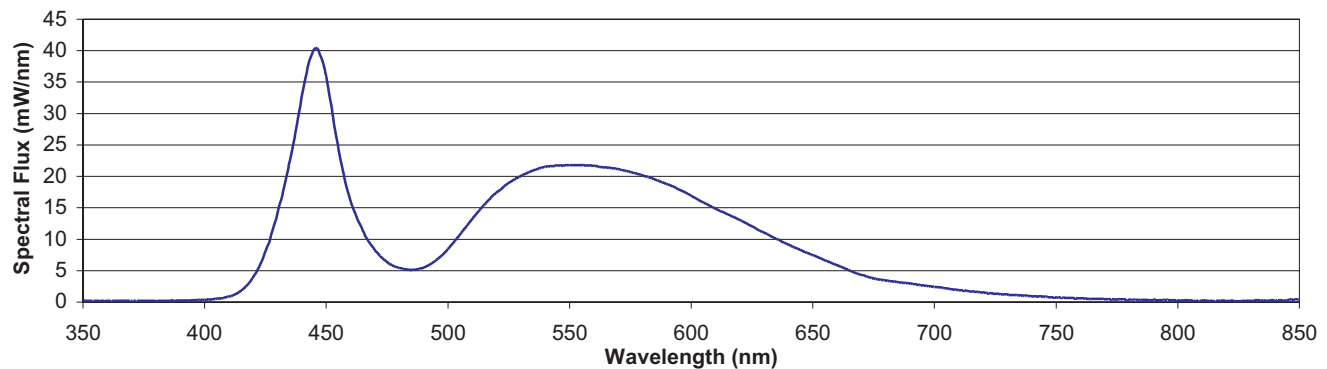
Luminaire Efficacy: 61.3 Lumens/Watt

Lamp Arc Voltage	Lamp Current	Lamp Watts	Frequency
120.0VAC	0.3217A	21.10W	60 Hz
Radiant Flux mW	Luminous Flux lumen	Corr.Color Temperature K	Color Rend. Index Ra
4087.307	1294.368	6089	72.1
Chroma x	Chroma y	Chroma u	Chroma v
0.32	0.3351	0.2006	0.3151

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.1963	610	14.8490
360	0.1804	620	13.0660
370	0.2035	630	11.0450
380	0.1648	640	9.1476
390	0.2716	650	7.4708
400	0.3424	660	5.8716
410	0.8592	670	4.2967
420	3.9927	680	3.4136
430	14.1920	690	2.9302
440	32.8250	700	2.4026
450	35.9520	710	1.8741
460	16.1160	720	1.5192
470	8.2688	730	1.1545
480	5.4055	740	0.9317
490	5.4753	750	0.7370
500	8.4270	760	0.5911
510	13.2100	770	0.4578
520	17.4570	780	0.3517
530	20.0790	790	0.3296
540	21.4910	800	0.2470
550	21.7850	810	0.2108
560	21.6750	820	0.1614
570	21.1510	830	0.1793
580	20.1260	840	0.2367
590	18.7900	850	0.4036
600	16.9230		



Chromaticity Diagram CIE 1931, 2 degree





# LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING  
MEMBER  
of the  
IESNA

905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

LTL NUMBER: 14921

DATE: 02-27-2009

PREPARED FOR: APPALACHIAN LIGHTING SYSTEMS

CATALOG NUMBER: CL1-01-1284-1 (CANOPY)

LUMINAIRE: CAST AND EXTRUDED ALUMINUM HOUSING, CLEAR PLASTIC PRISMATIC LENS.

LAMP: 12 WHITE LEDS

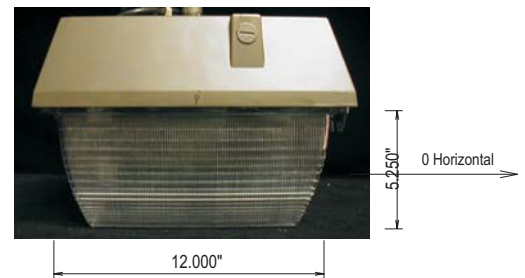
LED POWER SUPPLY: ONE UNMARKED LED POWER SUPPLY CC-48500B

ELECTRICAL VALUES: 120.0VAC, 0.3048A, 21.19W

LUMINAIRE EFFICACY: 60.5 LUMENS/WATT

LUMINAIRE WAS OPERATED 6 HOURS PRIOR TO TESTING

NOTE: THIS TEST WAS PERFORMED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY.\*



IES CLASSIFICATION: **AREA LIGHT**  
CUTOFF CLASSIFICATION: **CUTOFF**

\*\*CUTOFF DESIGNATION IS NOT DEFINED FOR ABSOLUTE PHOTOMETRIC TESTS. THIS CUTOFF RATING IS BASED ON THE MAXIMUM CANDELA READING PER LUMINAIRE RATED AT 1000 LUMENS.

## FLUX DISTRIBUTION

LUMENS	DOWNWARD	UPWARD	TOTALS
HOUSE SIDE	603.52	37.77	641.29
STREET SIDE	603.52	37.77	641.29
TOTALS	1207.05	75.54	1282.59

Approved By: MG

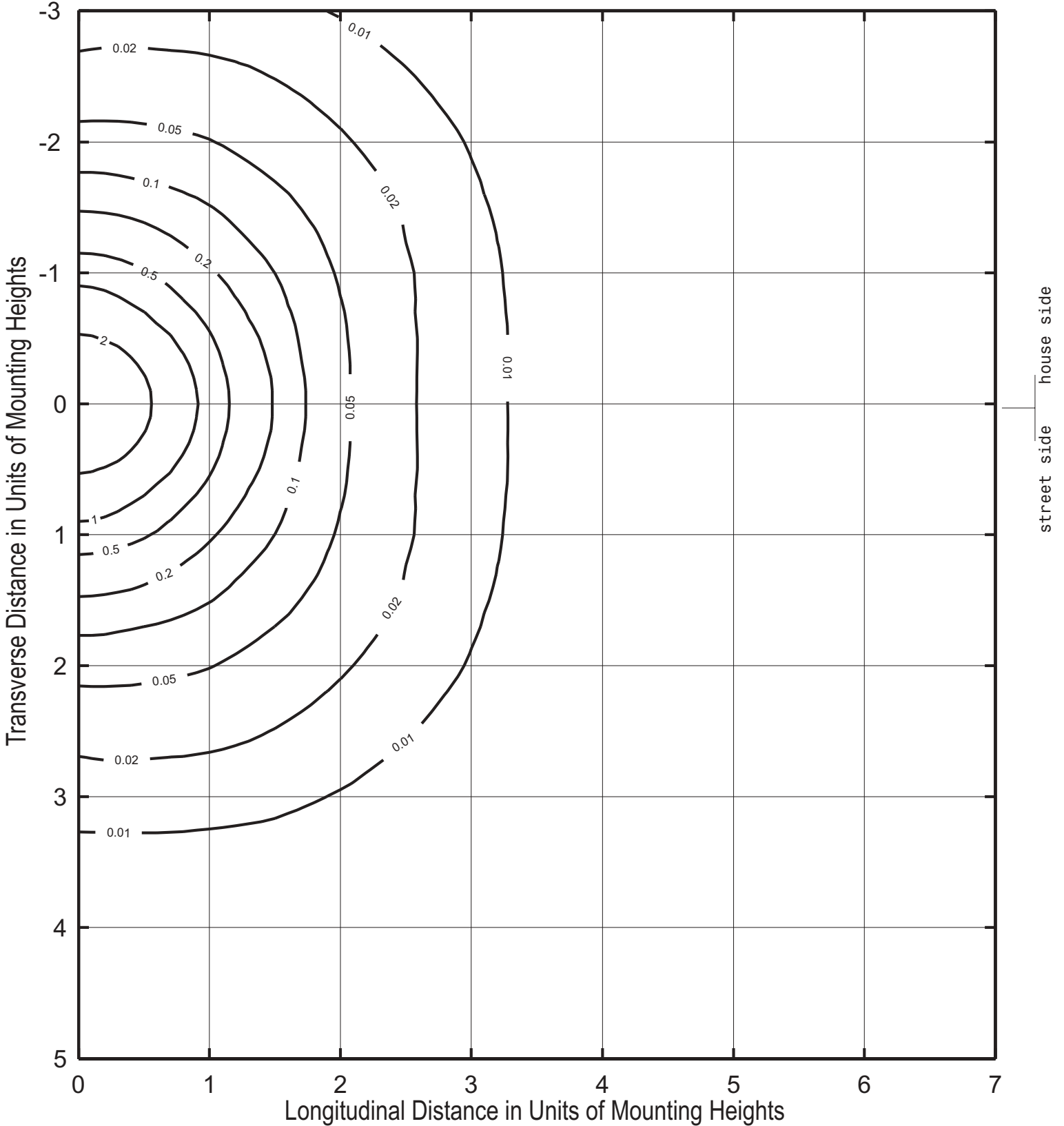
\*DATA WAS ACQUIRED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. A UDT MODEL #211 PHOTODETECTOR AND UDT MODEL #S370 OPTOMETER COMBINATION WERE USED AS A STANDARD. A SPECTRAL MISMATCH CORRECTION FACTOR WAS EMPLOYED BASED ON THE SPECTRAL RESPONSIVITY OF THE PHOTODETECTOR AND THE SPECTRAL POWER DISTRIBUTION OF THE TEST SUBJECT.

**TESTING WAS PERFORMED IN ACCORDANCE WITH IES LM-79-08.**

TEST ANGULAR INCREMENTS AND REPORT FORMATTING WAS BASED ON IES LM-31-95.



### ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION VALUES BASED ON 12.00 FOOT MOUNTING HEIGHT



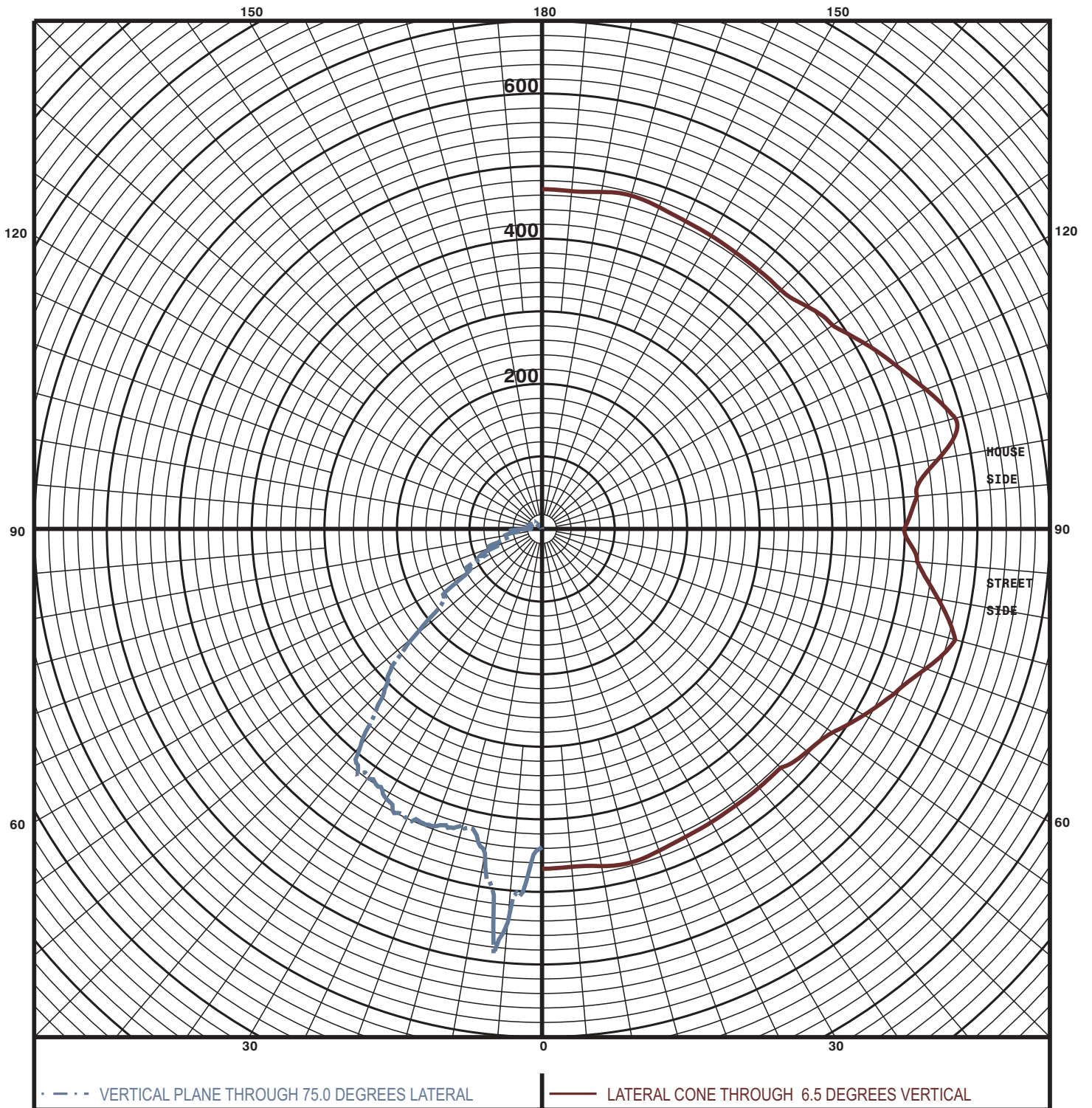


CANDELA DISTRIBUTION

Table with 12 columns (0-90) and 20 rows (180-0) showing Candela Distribution values.



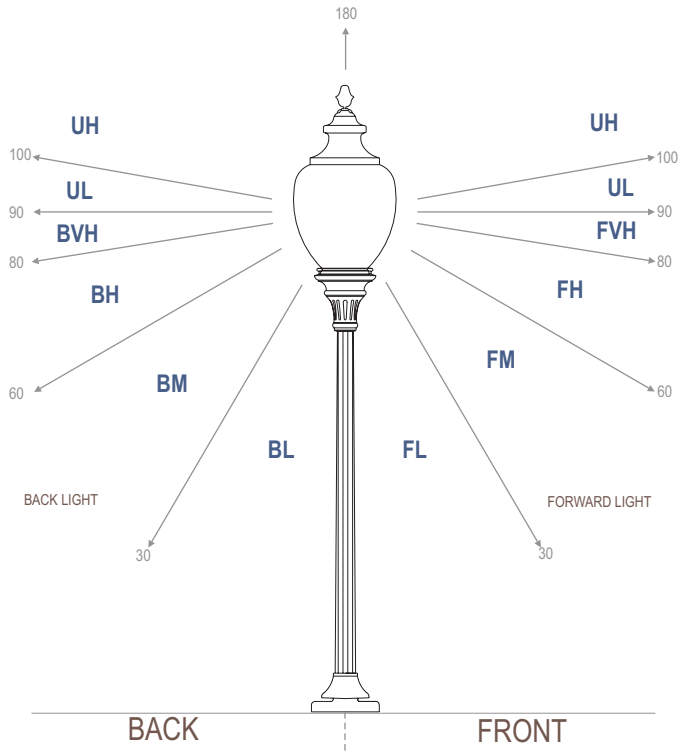
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
FORWARD LIGHT	604	47.1	
FL ( 0°-30°)	186	14.5	
FM (30°-60°)	313	24.4	
FH (60°-80°)	83	6.5	
FVH (80°-90°)	21	1.7	

BACK LIGHT	604	47.1	
BL ( 0°-30°)	186	14.5	
BM (30°-60°)	313	24.4	
BH (60°-80°)	83	6.5	
BVH (80°-90°)	21	1.7	

UPLIGHT	76	5.9	
UL (90°-100°)	18	1.4	
UH (100°-180°)	57	4.4	

TRAPPED LIGHT	NA	NA	
---------------	----	----	--

