



# 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: 15615

DATE: 05-13-2009

PREPARED FOR: LEOTEK ELECTRONICS

CATALOG NUMBER: SLN-156-MV-CW-3M-XX (XX IS THE FINISH COLOR: NUMERICAL NO. FROM 1-9 AND ALPHA NO. FROM A-Z TO DEFINE DIFFERENT FINISH COLOR.

LUMINAIRE: CAST ALUMINUM HOUSING, GREY PLASTIC REFLECTORS, CLEAR PLASTIC ENCLOSURE.

LAMP: 156 WHITE LEDS WITH CLEAR PLASTIC OPTICS

LED POWER SUPPLIES: TWO LEOTEK ELECTRONICS CORP. LP1090-24-GG-170

POWER FACTOR: 0.990

ELECTRICAL VALUES: 120.0VAC, 1.2130A, 144.11W

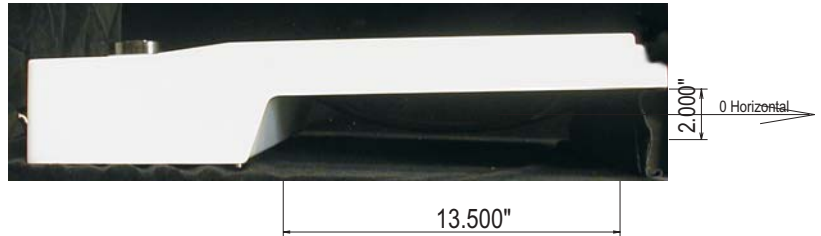
LUMINAIRE EFFICACY: 67.5 LUMENS/WATT

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



IES CLASSIFICATION: **TYPE III**  
LONGITUDINAL CLASSIFICATION: **MEDIUM**  
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	4006.52	4.13	4010.65
STREET SIDE	5711.30	9.57	5720.87
TOTALS	9717.82	13.70	9731.52

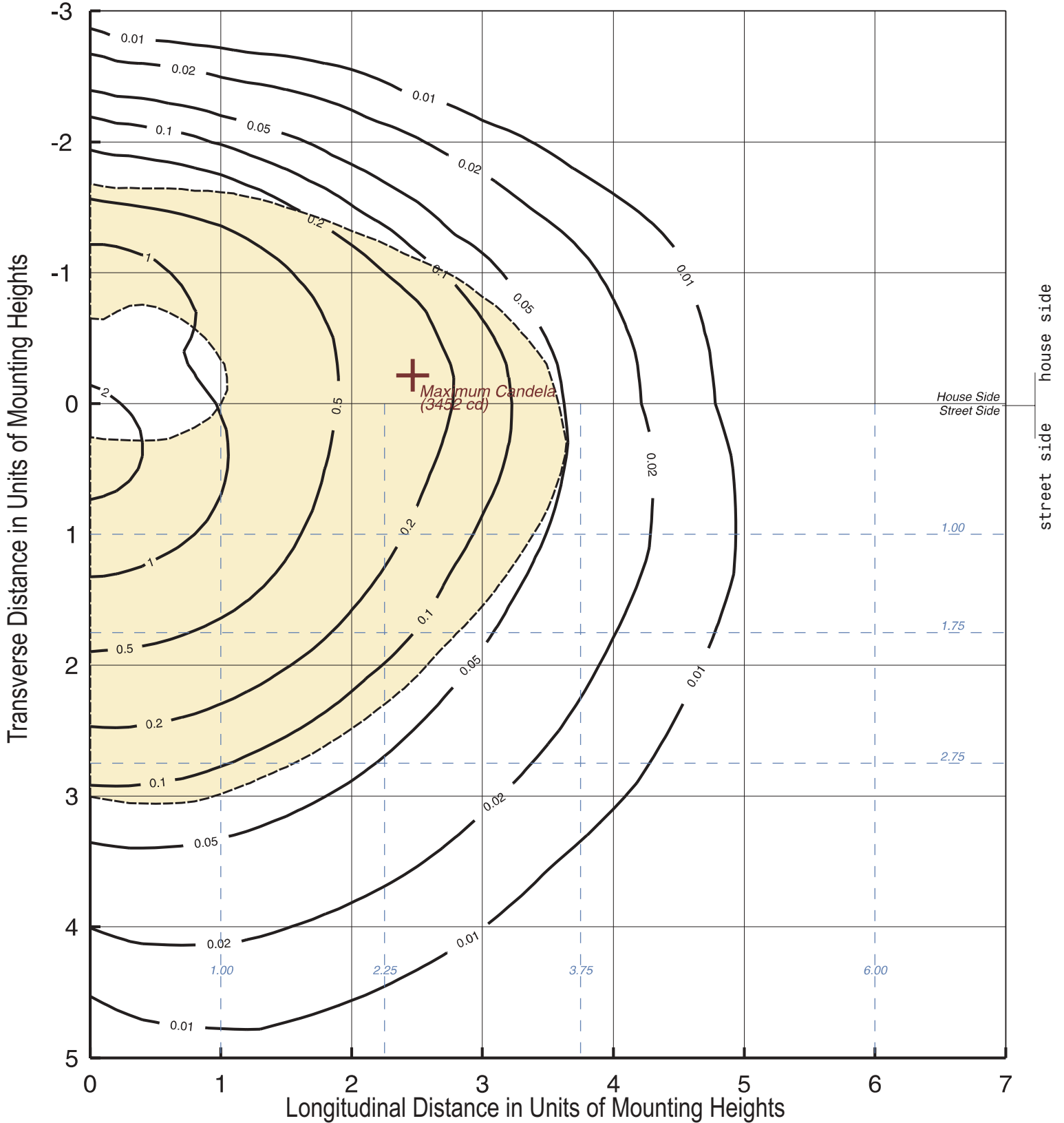
Approved By: MG

\*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 25.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR



CANDELA DISTRIBUTION

Table with 12 columns (0-90) and 21 rows (0-180) showing Candela Distribution values.



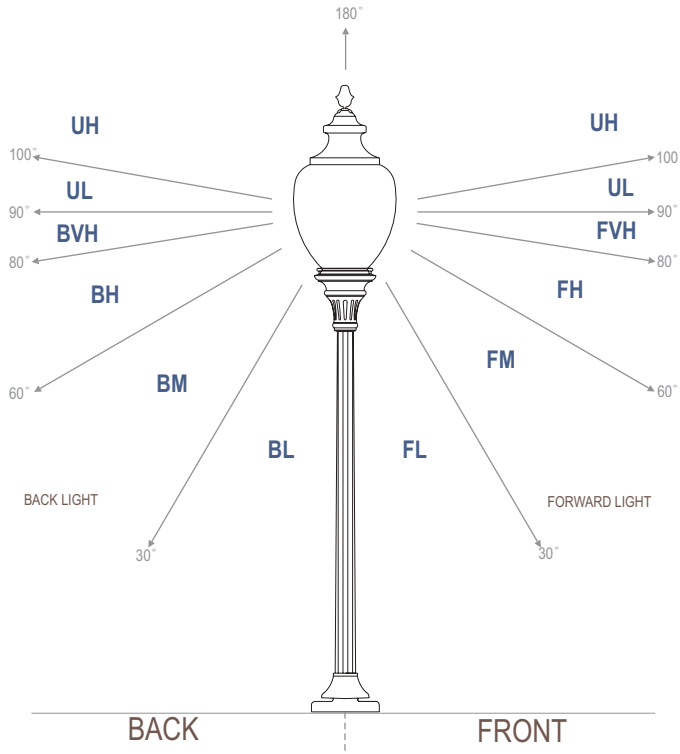
CANDELA DISTRIBUTION

Table with 11 columns (95, 105, 115, 125, 135, 145, 155, 165, 175, 180) and 19 rows (180, 175, 165, 155, 145, 135, 125, 115, 105, 95, 90, 87.5, 85, 82.5, 80, 77.5, 75, 72.5, 70, 68, 67.5, 65, 62.5, 60, 57.5, 55, 52.5, 50, 47.5, 45, 40, 35, 30, 25, 20, 15, 10, 5, 0). Values represent candela distribution for various beam angles.





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM  
FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
FORWARD LIGHT	5711	58.7	
FL ( 0° -30° )	705	7.2	
FM (30° -60°)	2711	27.9	
FH (60° -80°)	2199	22.6	
FVH (80° -90°)	96	1	

BACK LIGHT	4007	41.2	
BL ( 0° -30° )	538	5.5	
BM (30° -60°)	2257	23.2	
BH (60° -80°)	1191	12.2	
BVH (80° -90°)	21	0.2	

UPLIGHT	14	0.1	
UL (90° -100°)	8	0.1	
UH (100° -180°)	5	0.1	

TRAPPED LIGHT	NA	NA	
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