



# 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](http://www.LuminaireTesting.com)

LTL NUMBER: 16606

DATE: 10-06-2009

PREPARED FOR: LEOTEK ELECTRONICS CORPORATION

CATALOG NUMBER: LWS1-036-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 HEATSINK HOUSING, CLEAR PLASTIC ENCLOSURE.

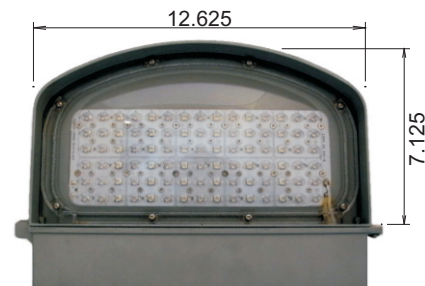
LAMP: (36) WHITE LEDS WITH CLEAR PLASTIC OPTICS BELOW

BALLAST: ONE LEOTEK ELECTRONICS CORP LP1090-24-GG-170

ELECTRICAL VALUES: 120.0VAC, 0.3094A, 36.61W, PF=0.986

LUMINAIRE EFFICACY: 68.5 LUMENS/WATT

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



IES CLASSIFICATION: **TYPE III**  
LONGITUDINAL CLASSIFICATION: **MEDIUM**  
CUTOFF CLASSIFICATION: **FULL-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	1065.08	0.00	1065.08
STREET SIDE	1442.26	0.00	1442.26
TOTALS	2507.34	0.00	2507.34

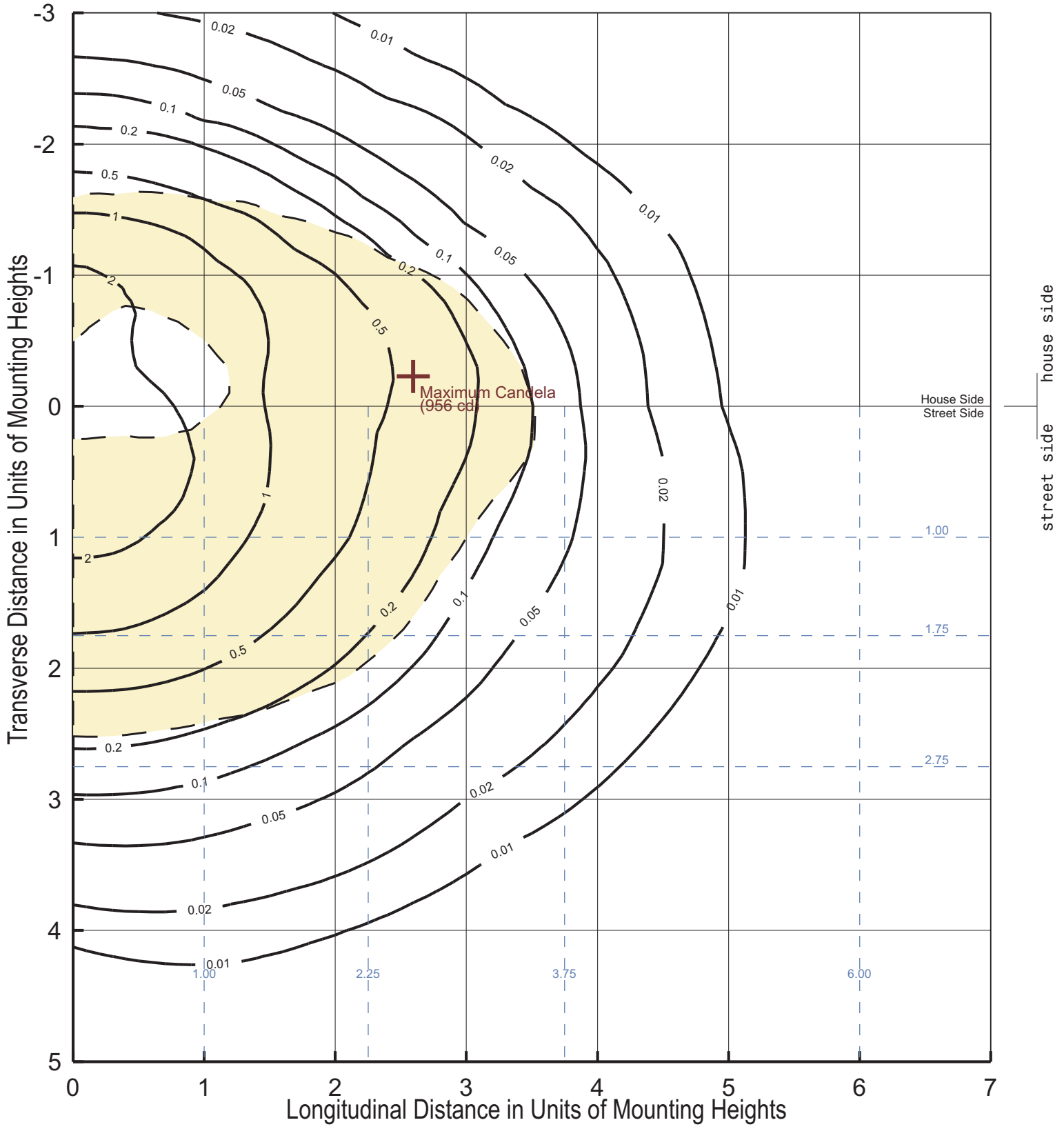
Approved By: MG

\*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 10.00 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.

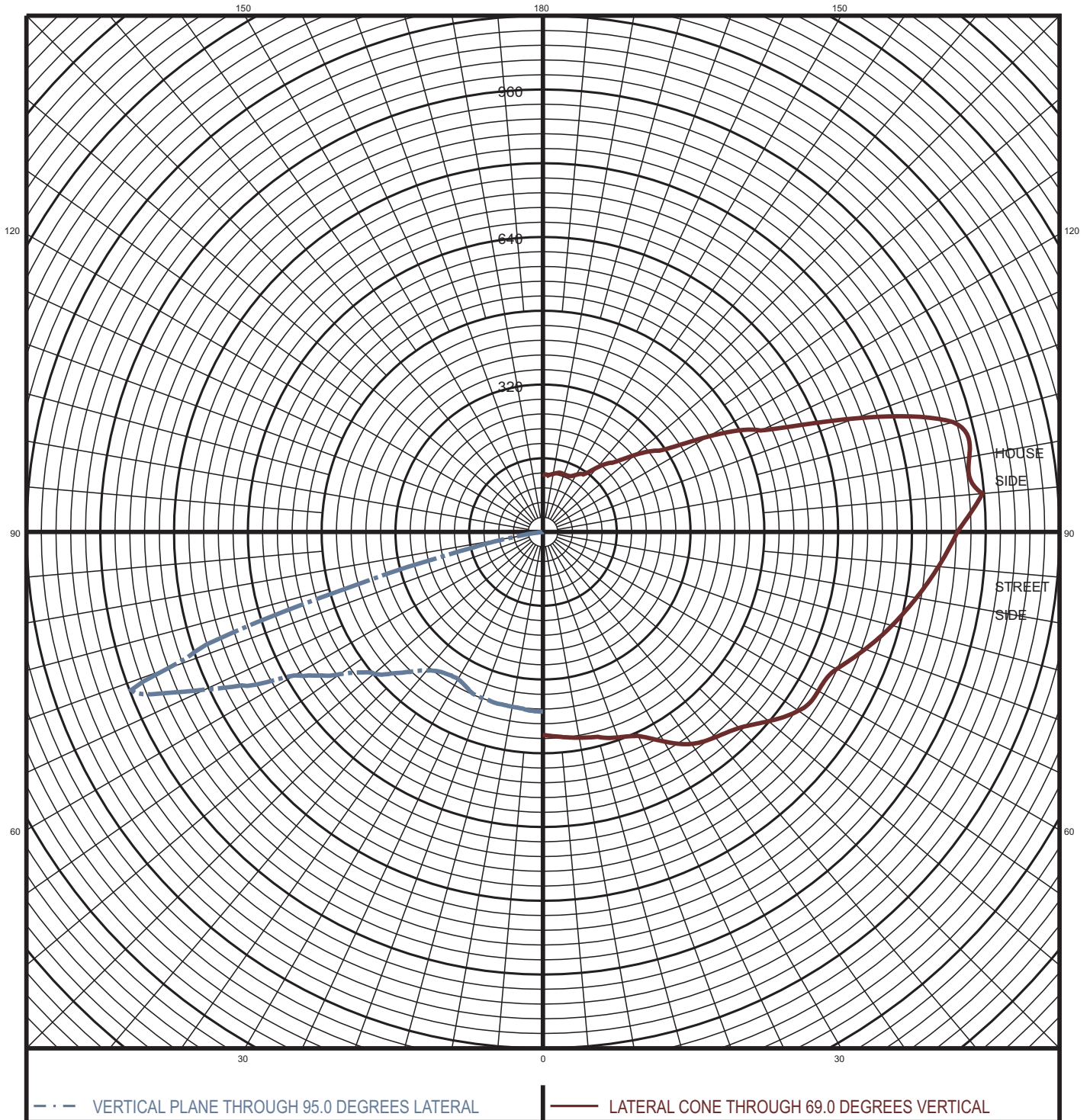


CANDELA DISTRIBUTION

Table with 10 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, 69, 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.



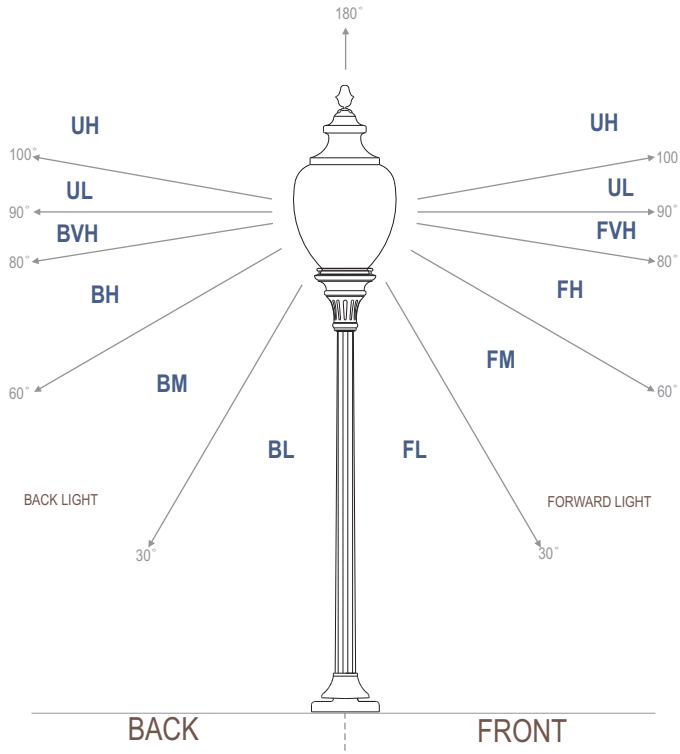
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
FORWARD LIGHT	1442	57.5
FL ( 0° -30° )	201	8.0
FM (30° -60° )	728	29.0
FH (60° -80° )	506	20.2
FVH (80° -90° )	8	0.3

BACK LIGHT	1065	42.5
BL ( 0° -30° )	153	6.1
BM (30° -60° )	583	23.2
BH (60° -80° )	322	12.9
BVH (80° -90° )	7	0.3

UPLIGHT	0	0.0
UL (90° -100° )	0	0.0
UH (100° -180° )	0	0.0

TRAPPED LIGHT	NA	NA
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BUG (Backlight, Uplight, Glare) Rating	
Asymmetrical Luminaire Types (Type I, II, III, IV)	B1 U0 G1
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B1 U0 G0