



LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING
MEMBER
of the
IESNA

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LTL NUMBER: 15823

DATE: 06-10-2009

PREPARED FOR: LEOTEK ELECTRONICS CORPORATION

CATALOG NUMBER: SLN-102-MV-CW-3M-XX (FX4-102W1L3M-0) (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: 102 WHITE LEDS WITH CLEAR PLASTIC OPTICS BELOW

LED POWER SUPPLY: TWO LEOTEK ELECTRONICS LP1090-36-GG-170

POWER FACTOR: 0.982

ELECTRICAL VALUES: 120.0VAC, 0.8318A, 98.05W

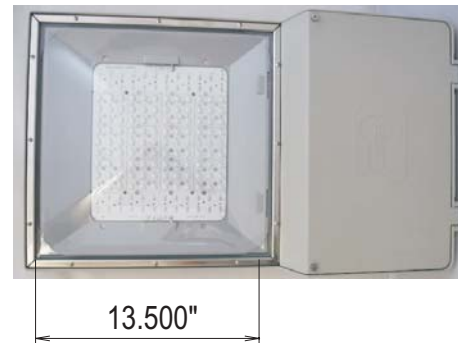
LUMINAIRE EFFICACY: 73.7 LUMENS/WATT

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	2972.96	2.73	2975.69
STREET SIDE	4241.36	6.55	4247.91
TOTALS	7214.32	9.28	7223.61

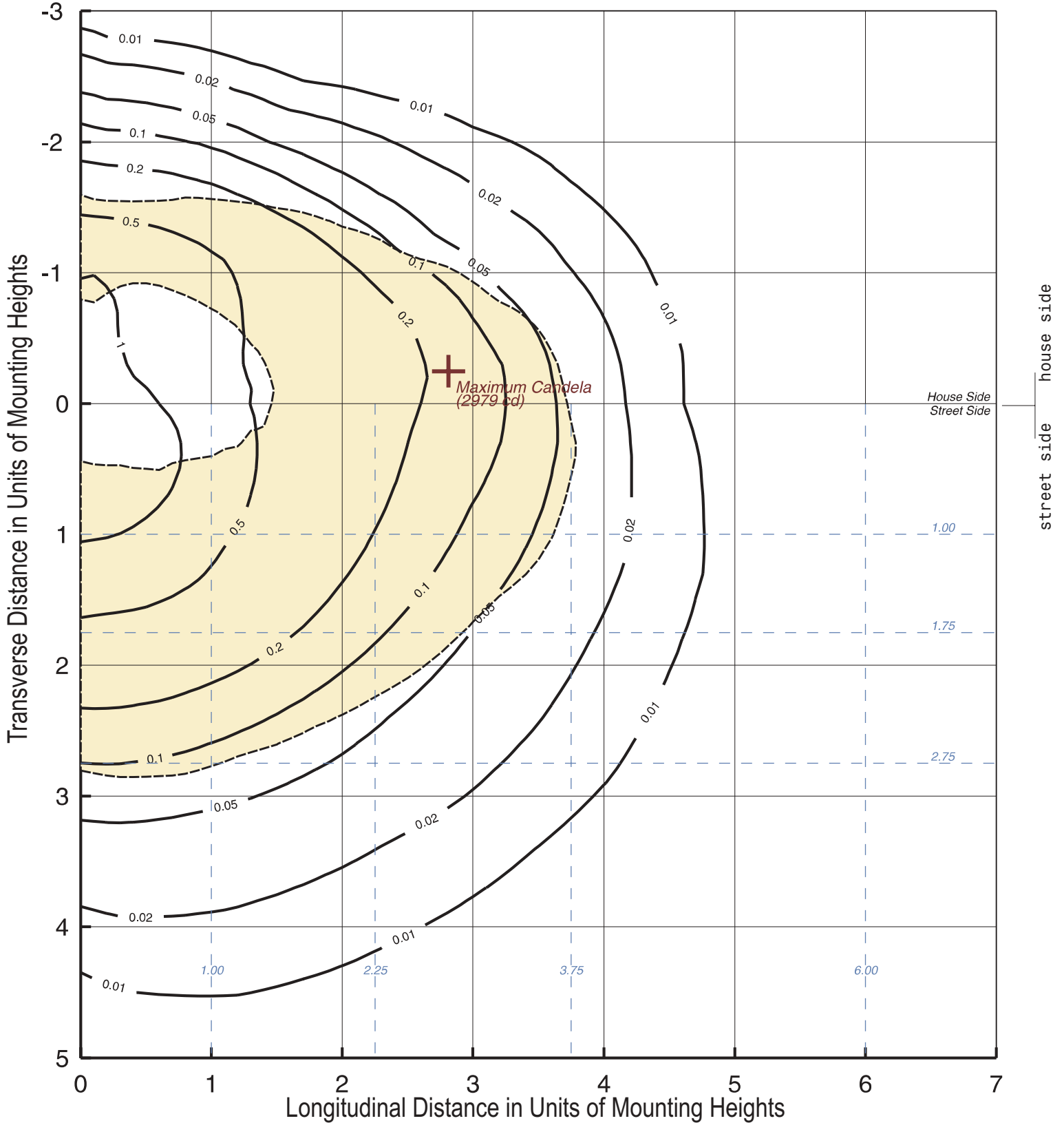
Approved By: MG

*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 (180-0) showing Candela Distribution values.

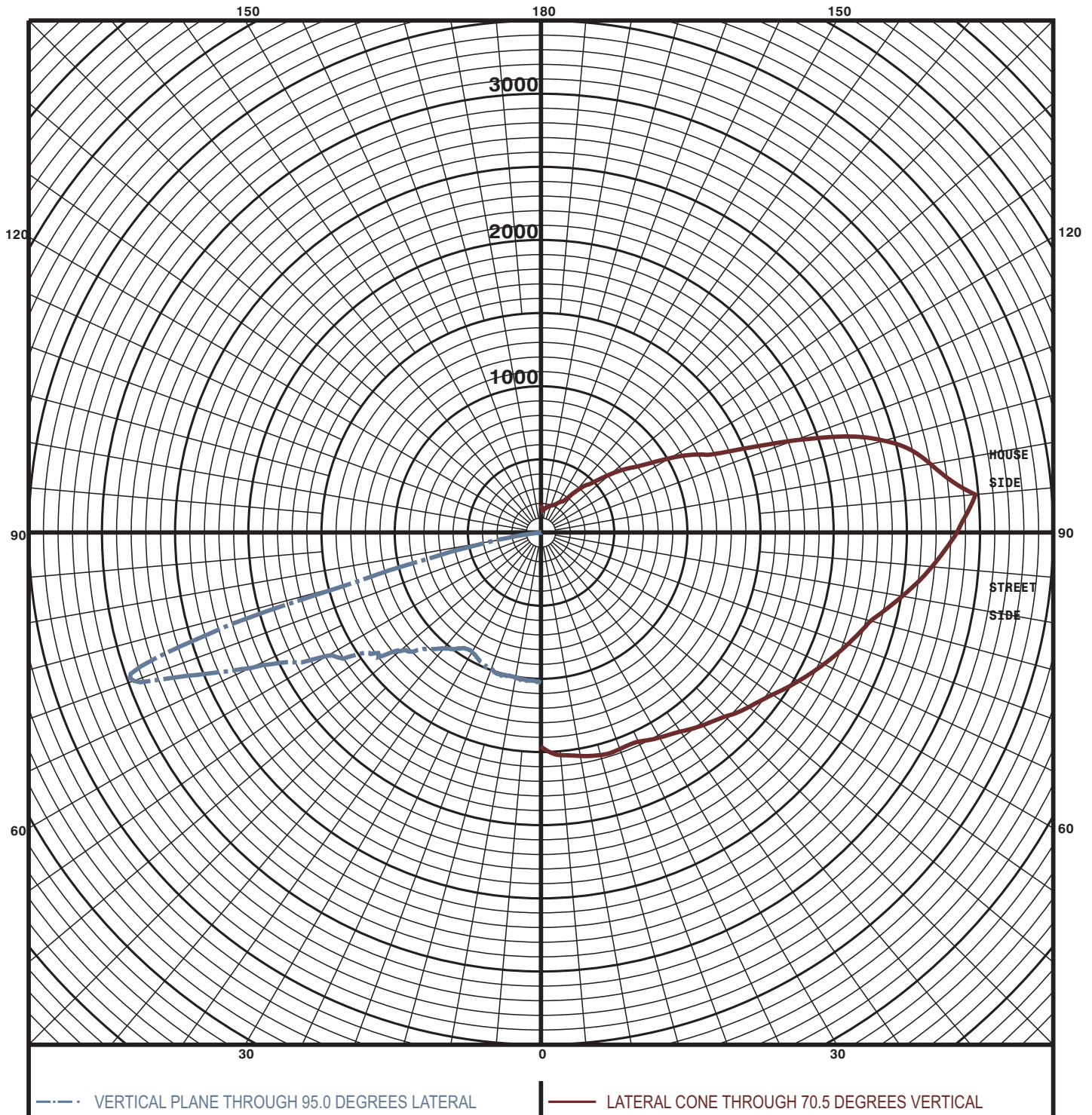


CANDELA DISTRIBUTION

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, 70.5, 70, 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.



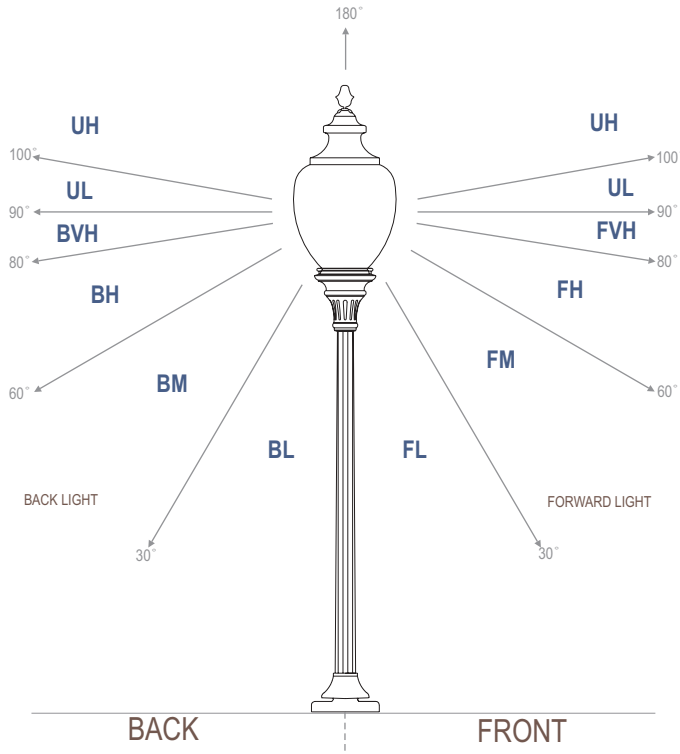
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
FORWARD LIGHT	4241	58.7	
FL (0°-30°)	525	7.3	
FM (30°-60°)	1933	26.8	
FH (60°-80°)	1714	23.7	
FVH (80°-90°)	70	1	

ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
BACK LIGHT	2973	41.2	
BL (0°-30°)	403	5.6	
BM (30°-60°)	1589	22	
BH (60°-80°)	966	13.4	
BVH (80°-90°)	15	0.2	

ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
UPLIGHT	9	0.1	
UL (90°-100°)	6	0.1	
UH (100°-180°)	3	0	

ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
TRAPPED LIGHT	NA	NA	

