



LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING
MEMBER
of the
IESNA

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LTL NUMBER: 18533

DATE: 03-17-2010

PREPARED FOR: SUNOVIA ENERGY TECHNOLOGIES, INC.

CATALOG NUMBER: SCHX5/120-43/PAL/T2/277/LG (SI-A003)

LUMINAIRE: CAST ALUMINUM HOUSING, MACHINED WHITE ENAMEL ALUMINUM REFLECTOR, CLEAR ACRYLIC ENCLOSURE.

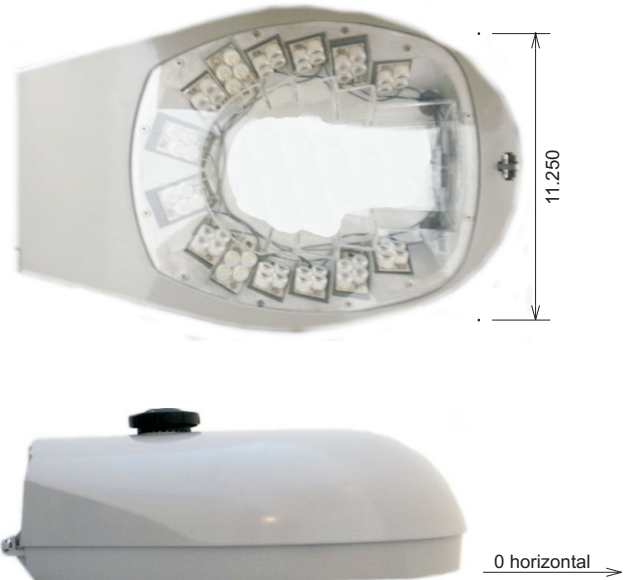
LAMP: 56 WHITE LEDS-24 WITH CLEAR PLASTIC OPTICS, 16 WITH CLEAR PRISMATIC PLASTIC OPTICS AND 16 WITH FROSTED PLASTIC OPTICS

LED POWER SUPPLY: TWO HIGH PERFECTION TECH LP1090-36-GG-170

ELECTRICAL VALUES: 120.0VAC, 1.006A, 119.05W, PF=0.993

LUMINAIRE EFFICACY: 72.2 LUMENS/WATT

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



IES CLASSIFICATION: **TYPE II**
LONGITUDINAL CLASSIFICATION: **MEDIUM**

**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	1463.80	0.00	1463.80
STREET SIDE	7126.67	0.00	7126.67
TOTALS	8590.47	0.00	8590.47

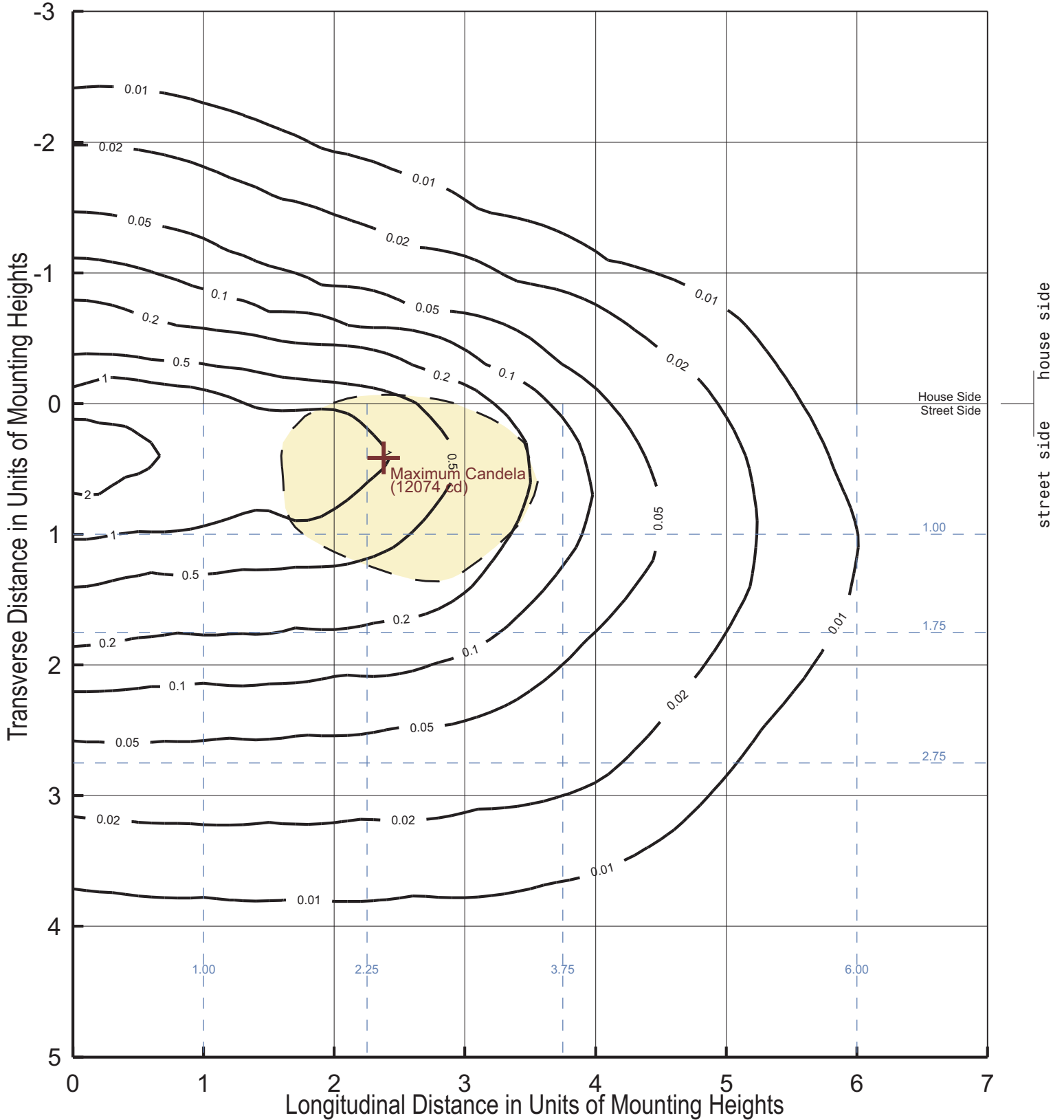
Approved By: MG

*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, 5, 15, 25, 35, 45, 55, 65, 75, 80.1, 85) and 25 rows (180, 175, 165, 155, 145, 135, 125, 115, 105, 95, 90, 87.5, 85, 82.5, 80, 77.5, 75, 72.5, 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.

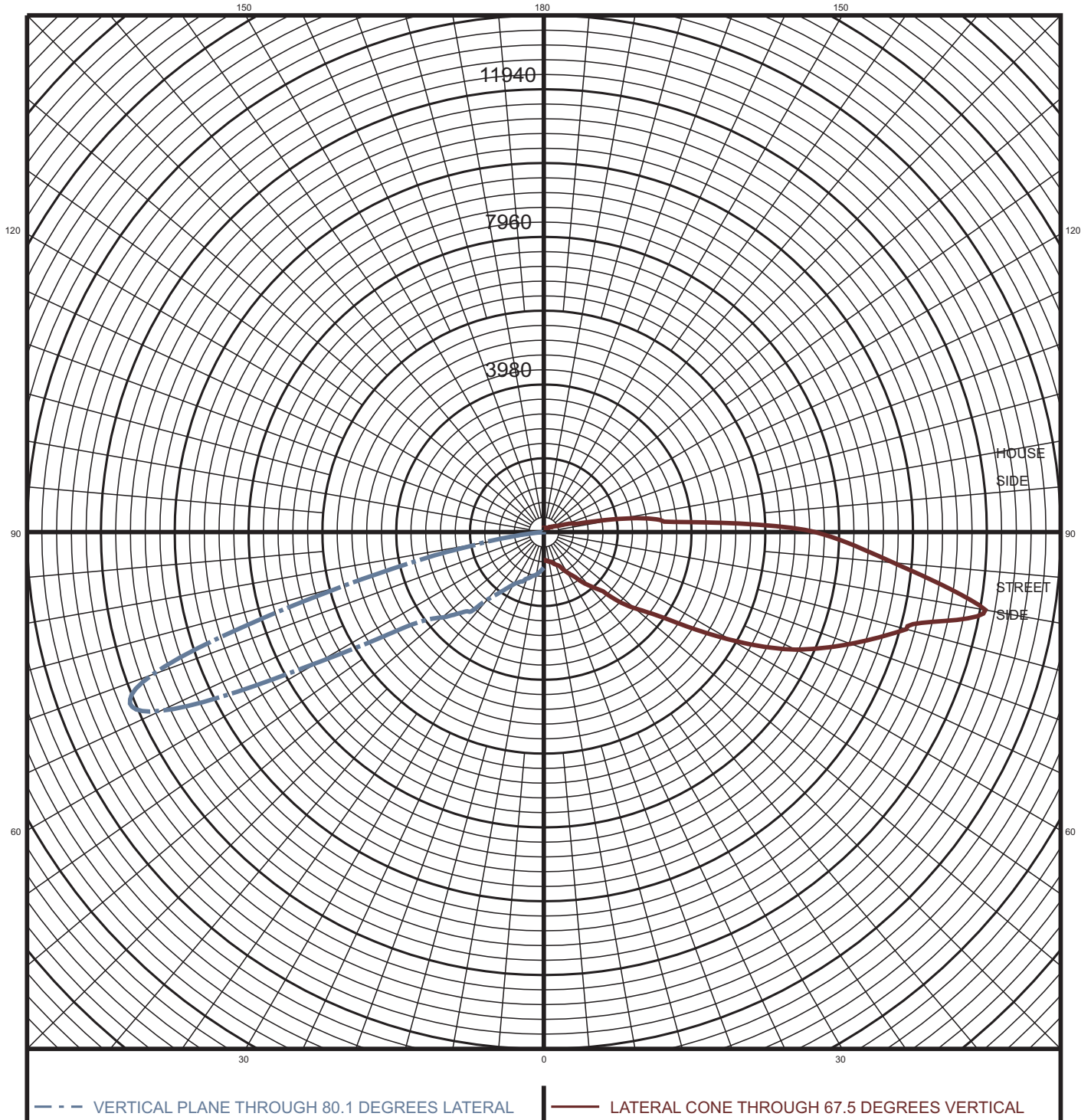


CANDELA DISTRIBUTION

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



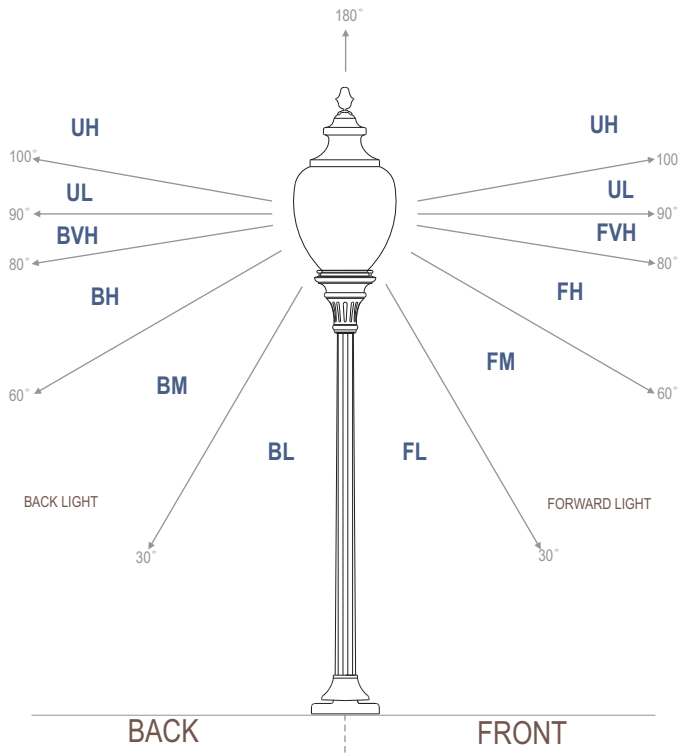
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
FORWARD LIGHT	7127	83.0
FL (0°-30°)	702	8.2
FM (30°-60°)	3033	35.3
FH (60°-80°)	3255	37.9
FVH (80°-90°)	137	1.6

BACK LIGHT	1464	17.0
BL (0°-30°)	285	3.3
BM (30°-60°)	650	7.6
BH (60°-80°)	493	5.7
BVH (80°-90°)	36	0.4

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 U2 G2
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B1 U2 G2