



LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING
MEMBER
of the
IESNA

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LTL NUMBER: 15227

DATE: 03-31-2009

PREPARED FOR: FALA TECHNOLOGIES, INC.

CATALOG NUMBER: MAST GHS2 LED STREET LAMP

LUMINAIRE: CAST AND EXTRUDED ALUMINUM AND FORMED PLASTIC HOUSING,
CLEAR PLASTIC ENCLOSURE.

LAMP: 56 WHITE LEDS

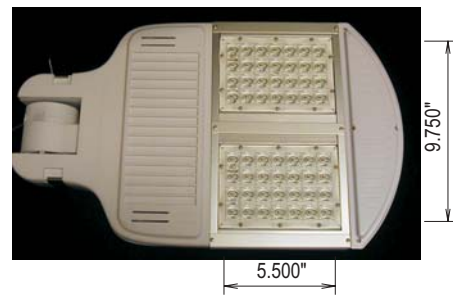
LED POWER SUPPLY: ONE UNMARKED LED POWER SUPPLY

POWER FACTOR: 0.979

ELECTRICAL VALUES: 120.0VAC, 0.3472A, 40.79W

LUMINAIRE EFFICACY: 55.9 LUMENS/WATT

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



IES CLASSIFICATION: **TYPE II**
LONGITUDINAL CLASSIFICATION: **SHORT**
CUTOFF CLASSIFICATION: **SEMI-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	965.04	1.73	966.77
STREET SIDE	1312.85	2.05	1314.90
TOTALS	2277.89	3.78	2281.67

Approved By: MG

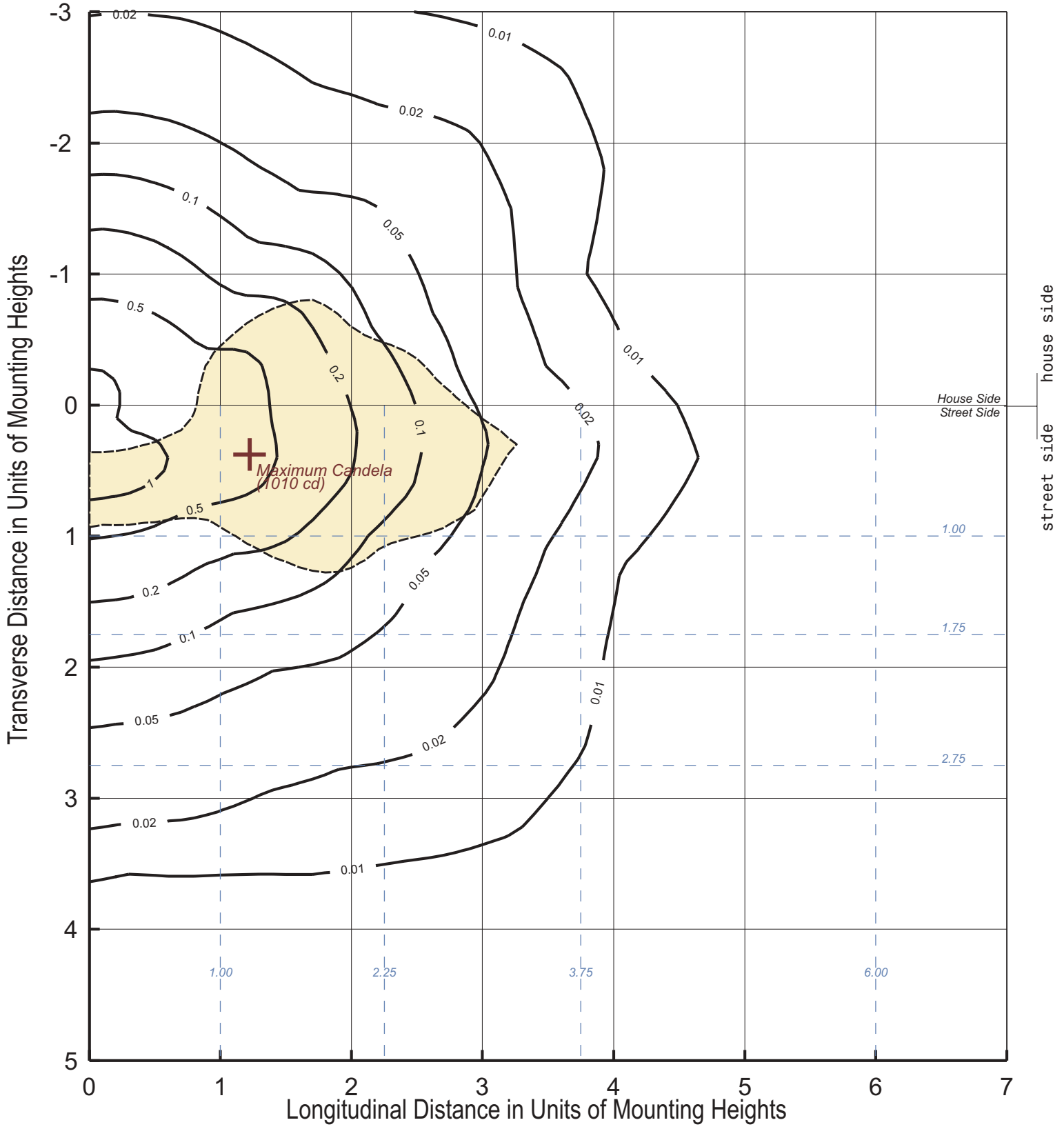
*DATA WAS ACQUIRED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. A UDT MODEL #211 PHOTODETECTOR AND UDT MODEL #S370 OPTOMETER COMBINATION WERE USED AS A STANDARD. A SPECTRAL MISMATCH CORRECTION FACTOR WAS EMPLOYED BASED ON THE SPECTRAL RESPONSIVITY OF THE PHOTODETECTOR AND THE SPECTRAL 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 18.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR



CANDELA DISTRIBUTION

Table with 12 columns (0, 5, 15, 25, 35, 45, 55, 65, 72.9, 75, 85) and 21 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, 52, 50, 47.5, 45, 40, 35, 30, 25, 20, 15, 10, 5, 0). Values represent candela distribution for various beam angles.

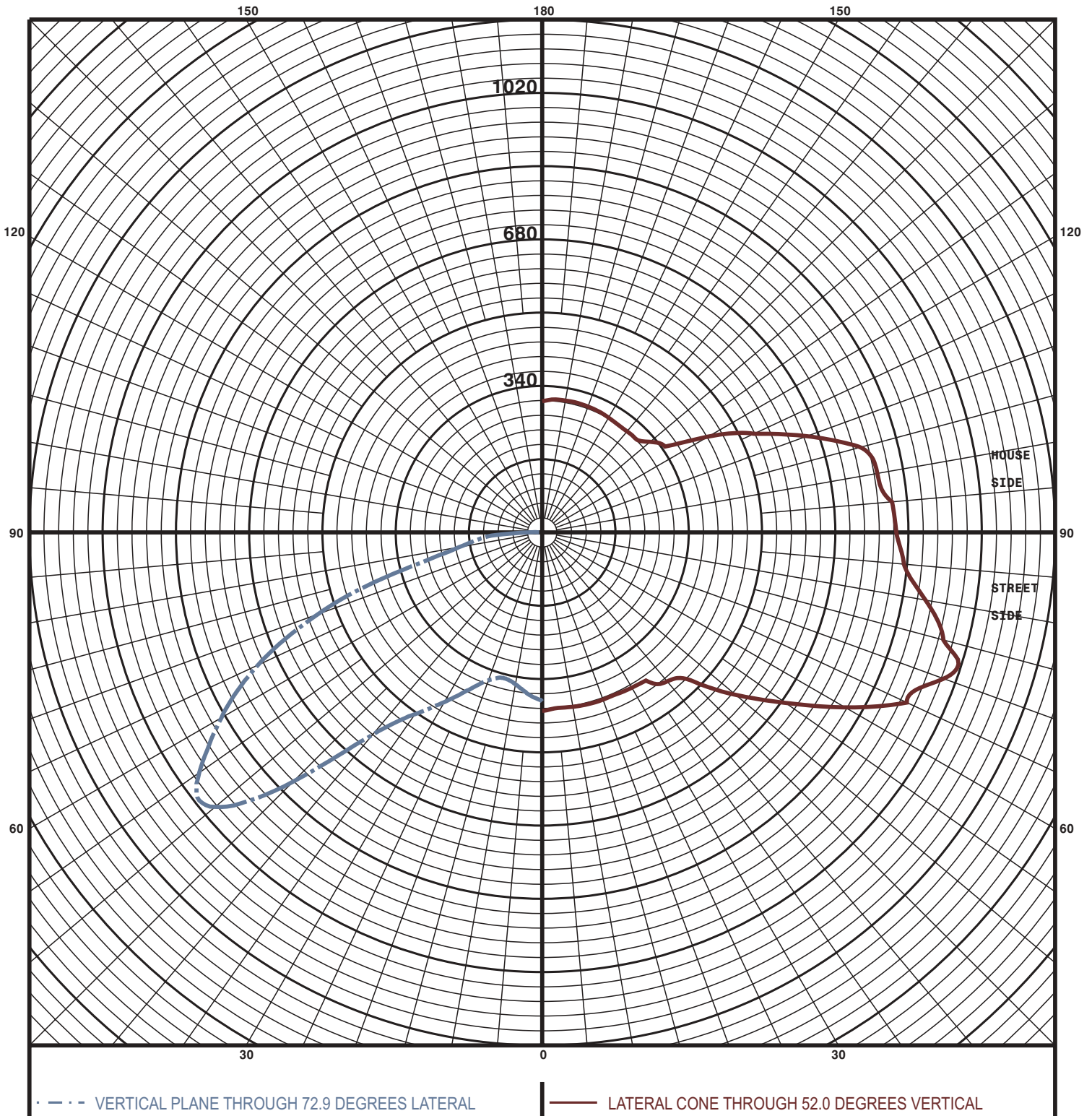


CANDELA DISTRIBUTION

Table with 12 columns (90-180) and 12 rows (180-0) showing candela distribution values. The table is symmetric around the 52 candela row.

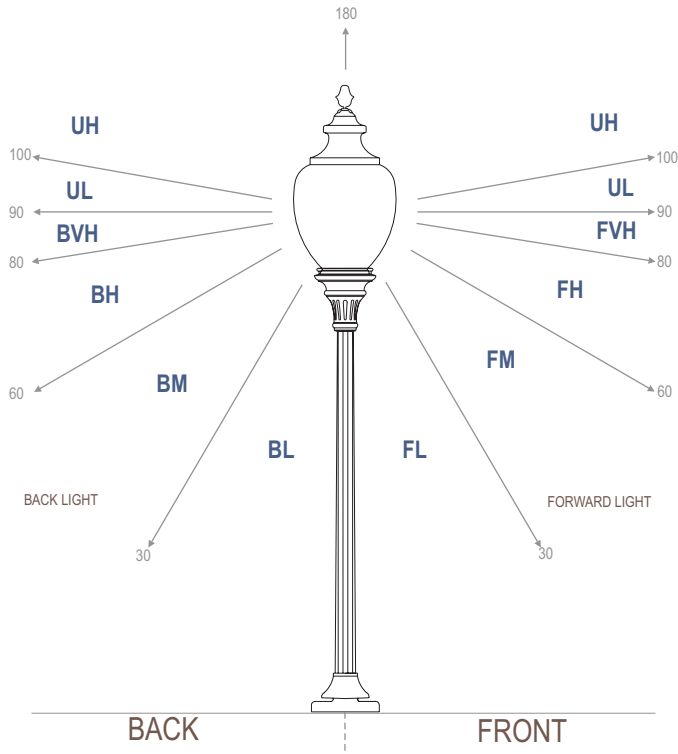


MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM
FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
FORWARD LIGHT	1313	57.5
FL (0°-30°)	186	8.2
FM (30°-60°)	684	30
FH (60°-80°)	395	17.3
FVH (80°-90°)	47	2.1

BACK LIGHT	965	42.3
BL (0°-30°)	153	6.7
BM (30°-60°)	481	21.1
BH (60°-80°)	294	12.9
BVH (80°-90°)	37	1.6

UPLIGHT	4	0.2
UL (90°-100°)	4	0.2
UH (100°-180°)	0	0

TRAPPED LIGHT	NA	NA
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