



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: 18077

DATE: 02-23-2010

PREPARED FOR: APPALACHIAN LIGHTING SYSTEMS, INC.

CATALOG NUMBER: PL1-02-5200-1-3

LUMINAIRE: FORMED AND EXTRUDED ALUMINUM HEATSINK HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, CLEAR PLASTIC ENCLOSURE.

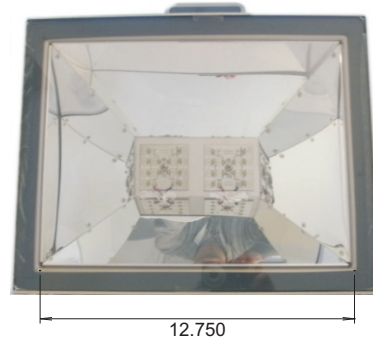
LAMP: 24 WHITE LEDS

LED POWER SUPPLIES: TWO MEAN WELL LPC-35-700

ELECTRICAL VALUES: 120.0VAC, 0.9219A, 59.31W, PF=0.536

LUMINAIRE EFFICACY: 72.8 LUMENS/WATT

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



IES CLASSIFICATION: **AREA LIGHT**
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	2159.82	0.00	2159.82
STREET SIDE	2159.82	0.00	2159.82
TOTALS	4319.65	0.00	4319.65

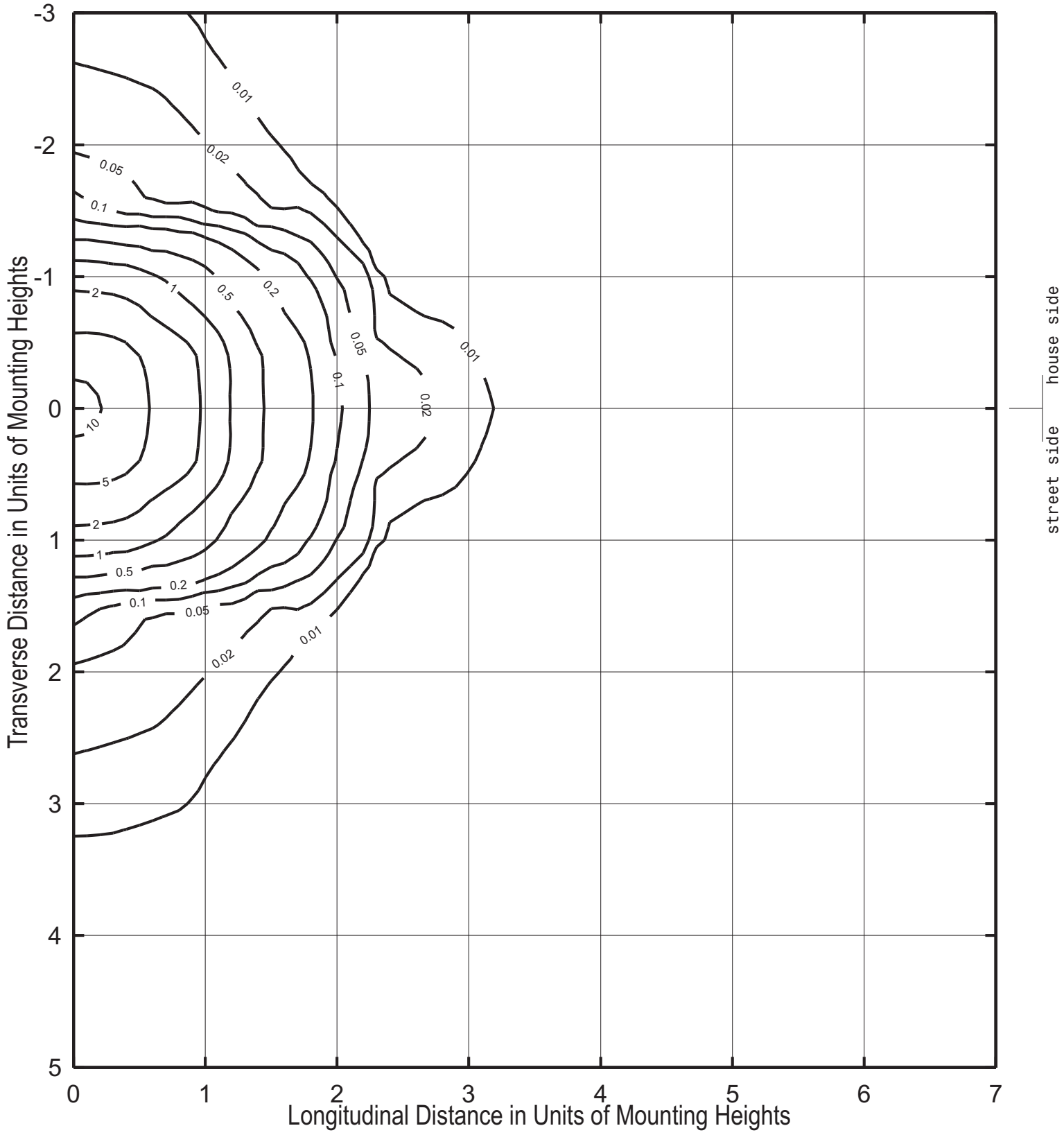
Approved By: MG

*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 15.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR

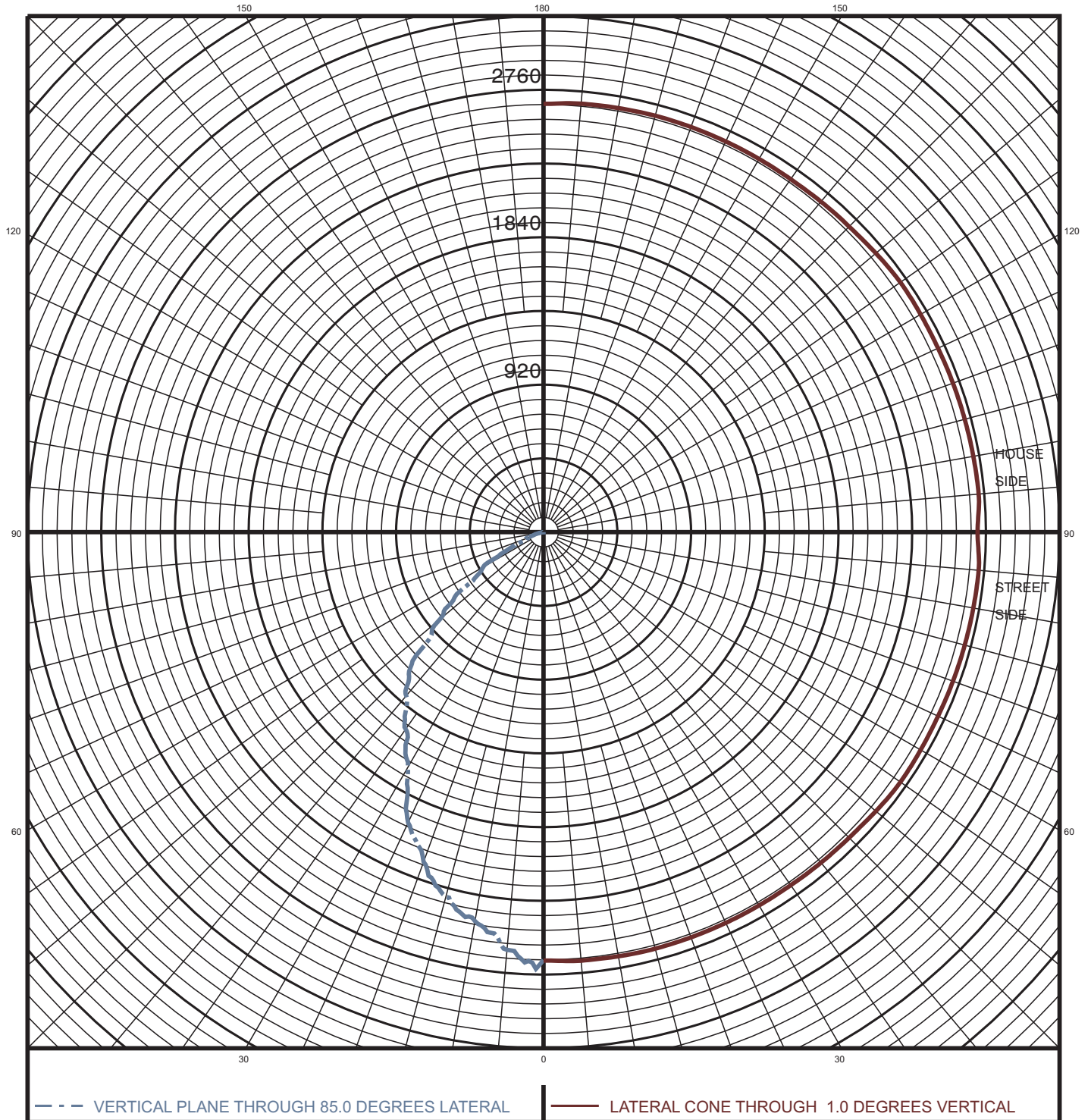


CANDELA DISTRIBUTION

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



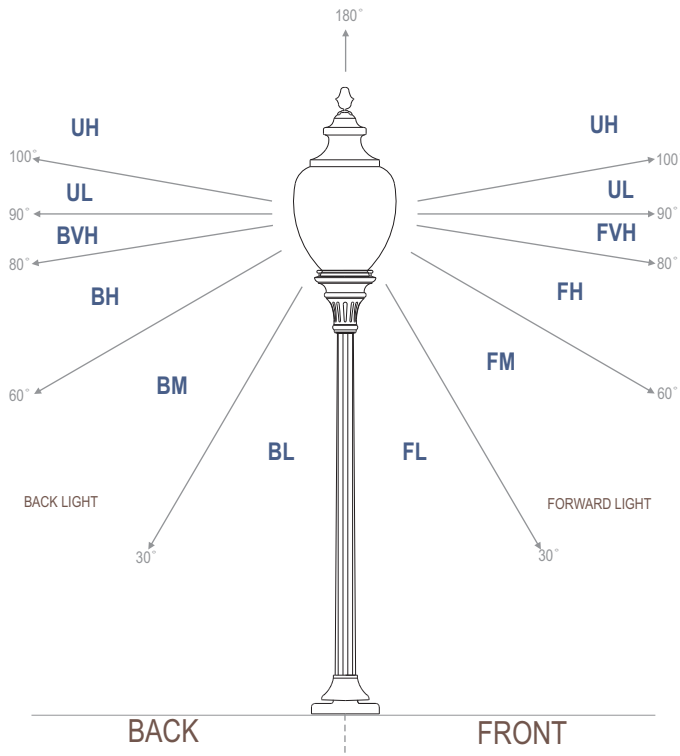
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
FORWARD LIGHT	2160	50.0
FL (0° -30°)	931	21.6
FM (30° -60°)	1139	26.4
FH (60° -80°)	89	2.0
FVH (80° -90°)	1	0.0

BACK LIGHT	2160	50.0
BL (0° -30°)	931	21.6
BM (30° -60°)	1139	26.4
BH (60° -80°)	89	2.0
BVH (80° -90°)	1	0.0

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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B2 U0 G0