



# LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING  
MEMBER  
of the  
IESNA

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LTL NUMBER: 15409

DATE: 04-27-2009

PREPARED FOR: APPALACHIAN LIGHTING SYSTEMS

CATALOG NUMBER: LPR-S3-1200-1

LUMINAIRE: CAST ALUMINUM HOUSING, CLEAR PRISMATIC PLASTIC REFRACTOR.

LAMP: 12 WHITE LEDS

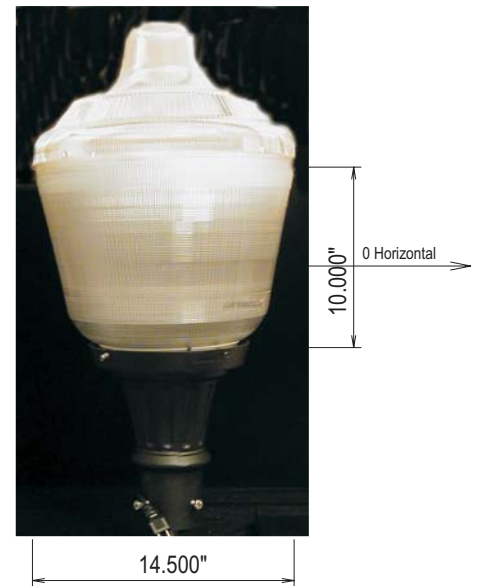
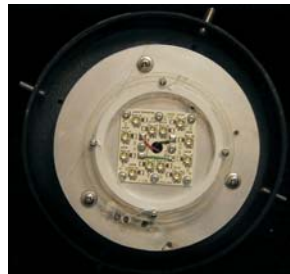
LED POWER SUPPLY: ONE MEAN WELL LPC-35-700

POWER FACTOR: 0.548

ELECTRICAL VALUES: 120.0VAC, 0.4677A, 30.77W

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

LUMINAIRE WAS OPERATED 3-1/2 HOURS PRIOR TO TESTING.



IES CLASSIFICATION: **TYPE IV**  
LONGITUDINAL CLASSIFICATION: **LONG**  
CUTOFF CLASSIFICATION: **NON-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	303.91	185.12	489.03
STREET SIDE	449.97	273.52	723.49
TOTALS	753.88	458.64	1212.52

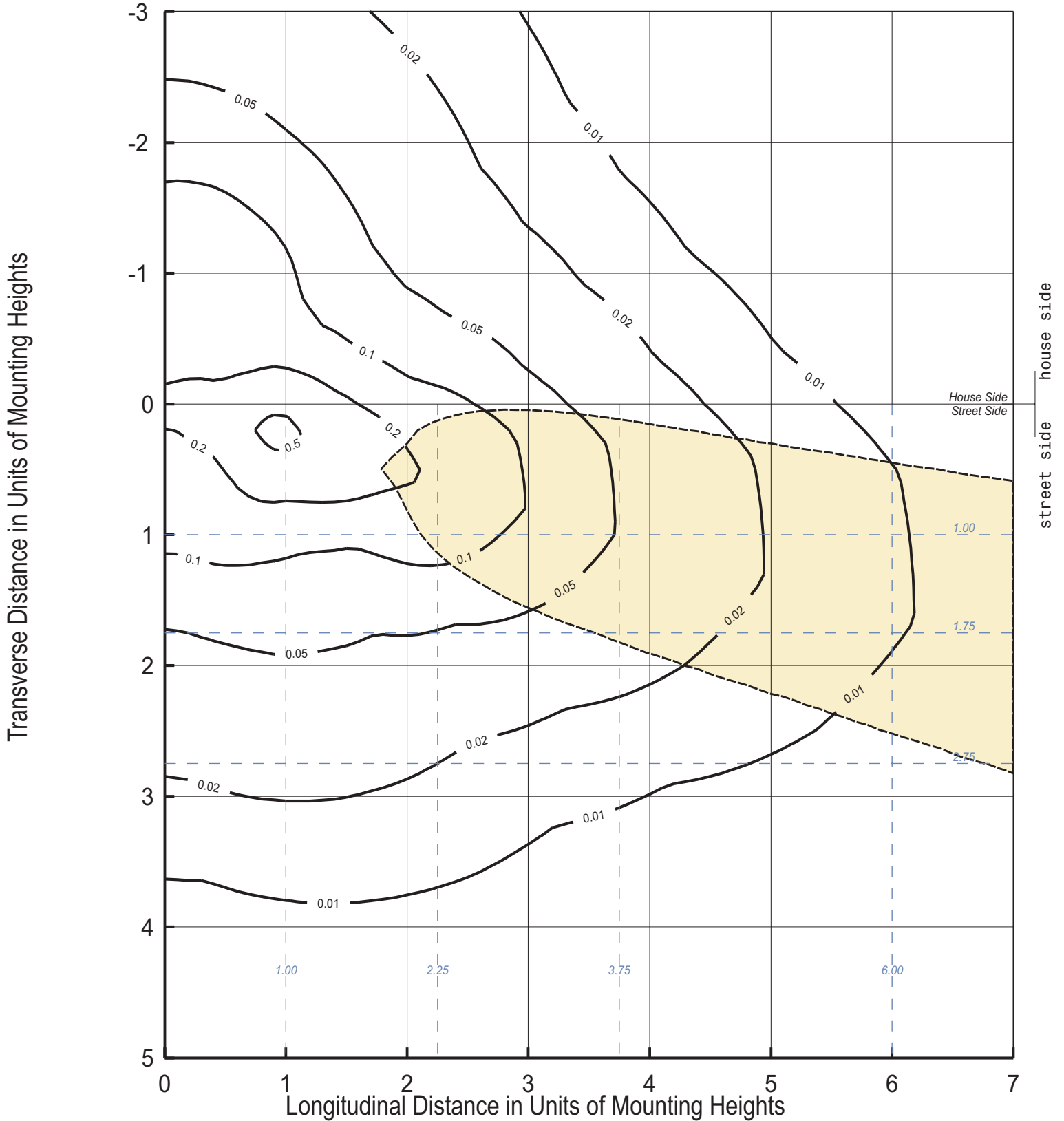
Approved By: MG

\*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 12.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR



CANDELA DISTRIBUTION

Table with 12 columns (0-90) and 20 rows (0-180) showing Candela Distribution values.

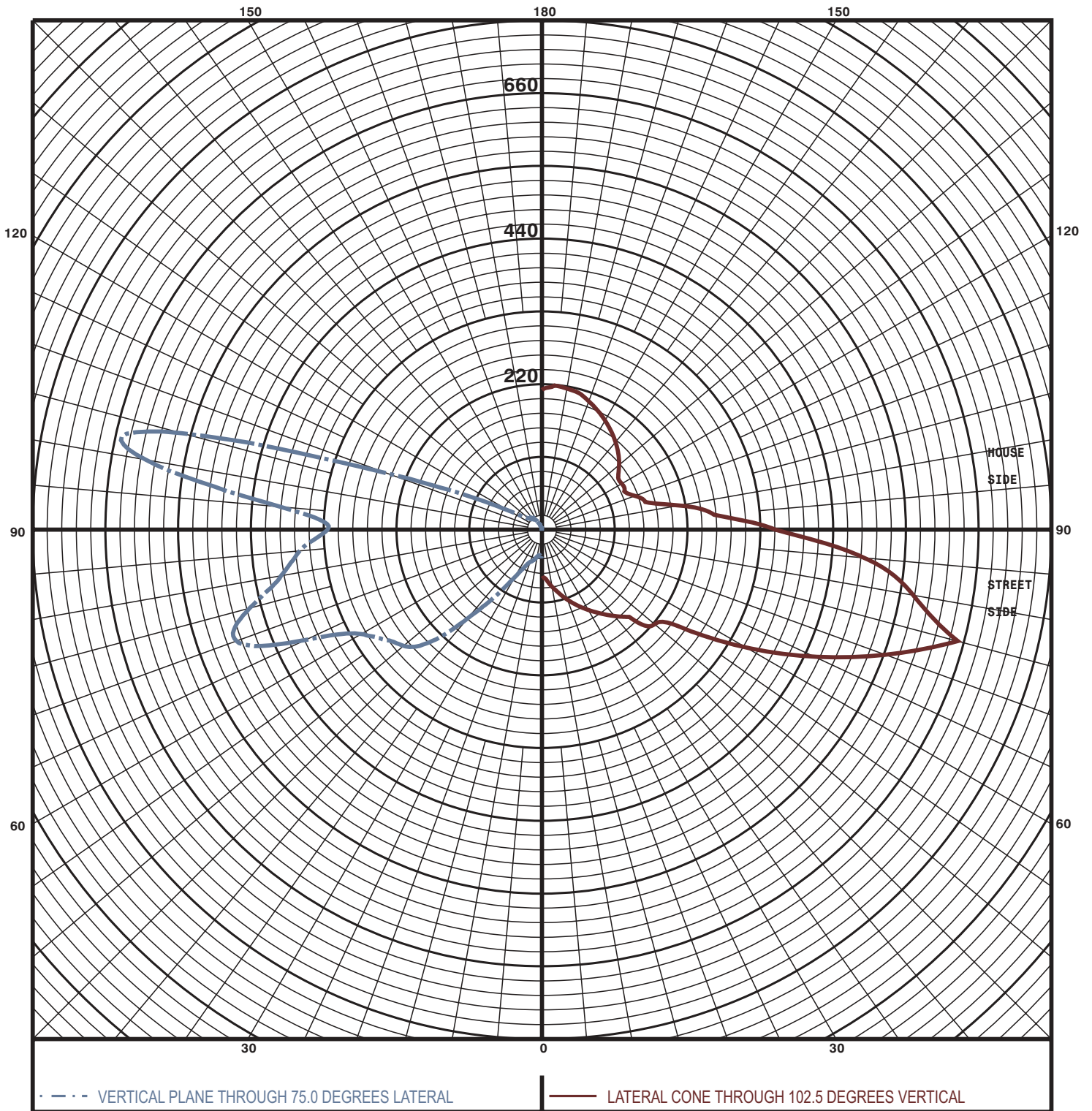


CANDELA DISTRIBUTION

Table with 11 columns (95, 105, 115, 125, 135, 145, 155, 165, 175, 180) and 21 rows (180, 175, 165, 155, 145, 135, 125, 115, 105, 102.5, 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 measurements for various beam angles.

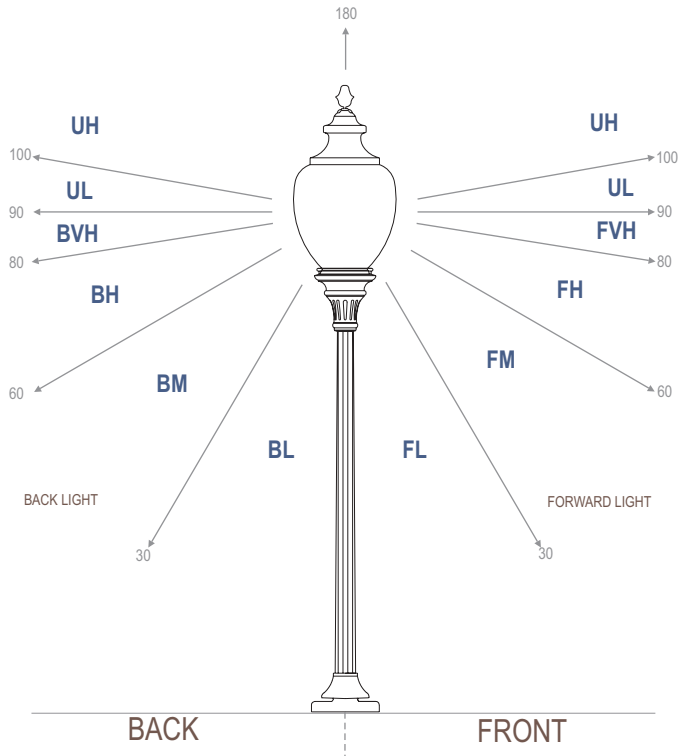


MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM  
FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
FORWARD LIGHT	450	37.1	
FL ( 0°-30°)	17	1.4	
FM (30°-60°)	128	10.5	
FH (60°-80°)	209	17.2	
FVH (80°-90°)	97	8	

BACK LIGHT	304	25.1	
BL ( 0°-30°)	15	1.2	
BM (30°-60°)	88	7.3	
BH (60°-80°)	133	11	
BVH (80°-90°)	67	5.6	

UPLIGHT	459	37.8	
UL (90°-100°)	175	14.4	
UH (100°-180°)	284	23.4	

TRAPPED LIGHT	NA	NA	
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