



LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING
MEMBER
of the
IESNA

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LTL NUMBER: 15213

DATE: 03-24-2009

PREPARED FOR: SUNOVIA ENERGY TECHNOLOGIES, INC.

CATALOG NUMBER: CAN-12/RFK/45W/CW12X12 CANOPY RETRO-FIT KIT,
45 WATTS COOL WHITE

LUMINAIRE: CAST ALUMINUM HOUSING, CAST WHITE ENAMEL ALUMINUM REFLECTOR,
CLEAR PRISMATIC PLASTIC LENS.

LAMP: 20 WHITE LEDS

LAMP CATALOG NUMBER: CREE COOL WHITE 5700K-6350K, 350MA, 100LM, XRE-C09

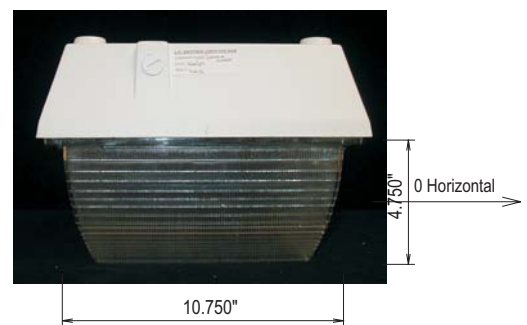
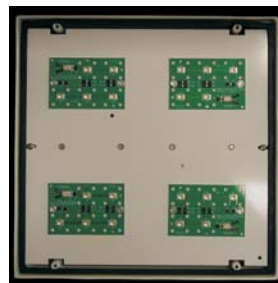
LED POWER SUPPLY: TWO EVOLUCIA LP1025-24-C1040

POWER FACTOR: 0.989

ELECTRICAL VALUES: 120.0VAC, 0.3053A, 36.22W

LUMINAIRE EFFICACY: 59.0 LUMENS/WATT

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



IES CLASSIFICATION: **AREA LIGHT**
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	987.76	80.16	1067.92
STREET SIDE	987.76	80.16	1067.92
TOTALS	1975.51	160.32	2135.84

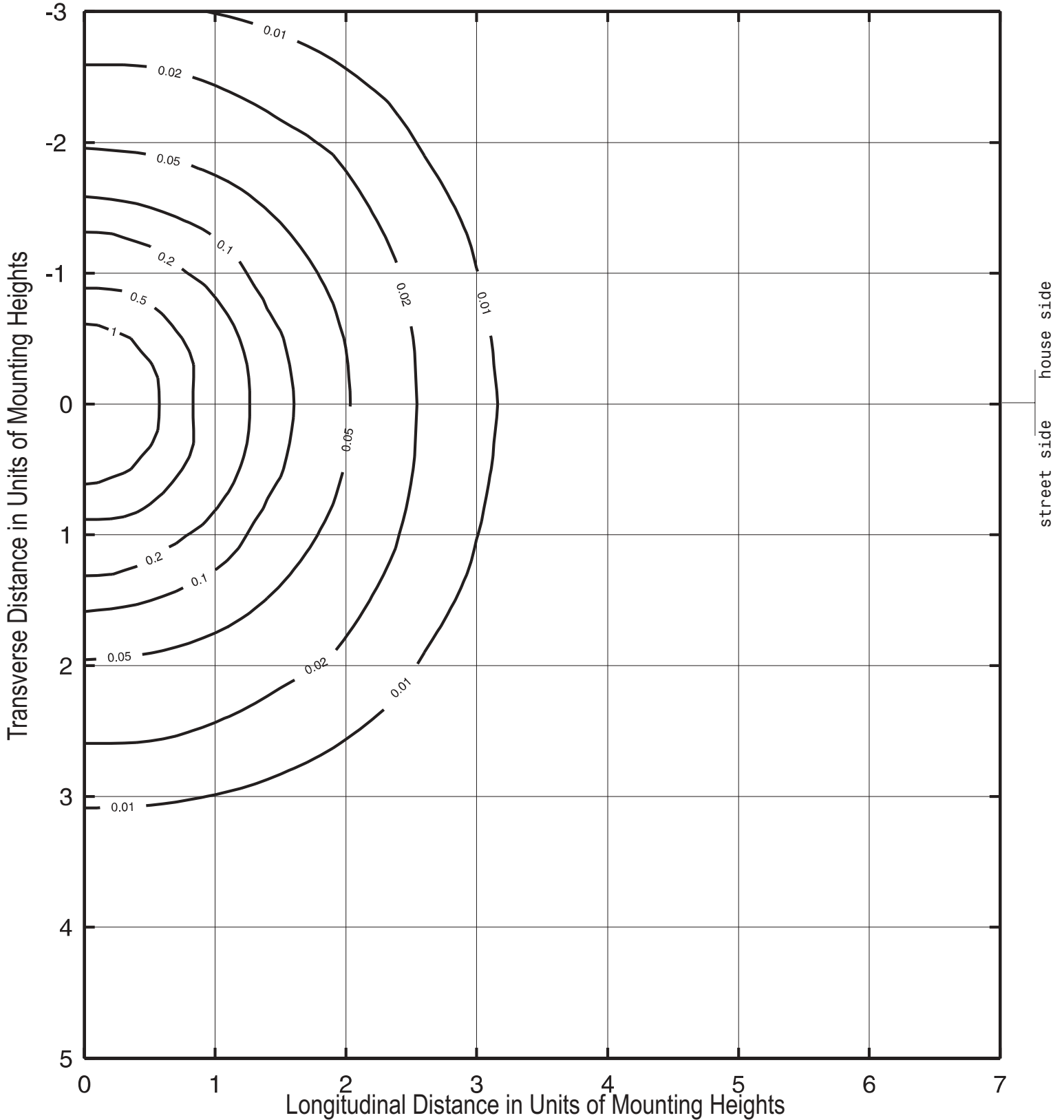
Approved By: MG

*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 20.00 FOOT MOUNTING HEIGHT



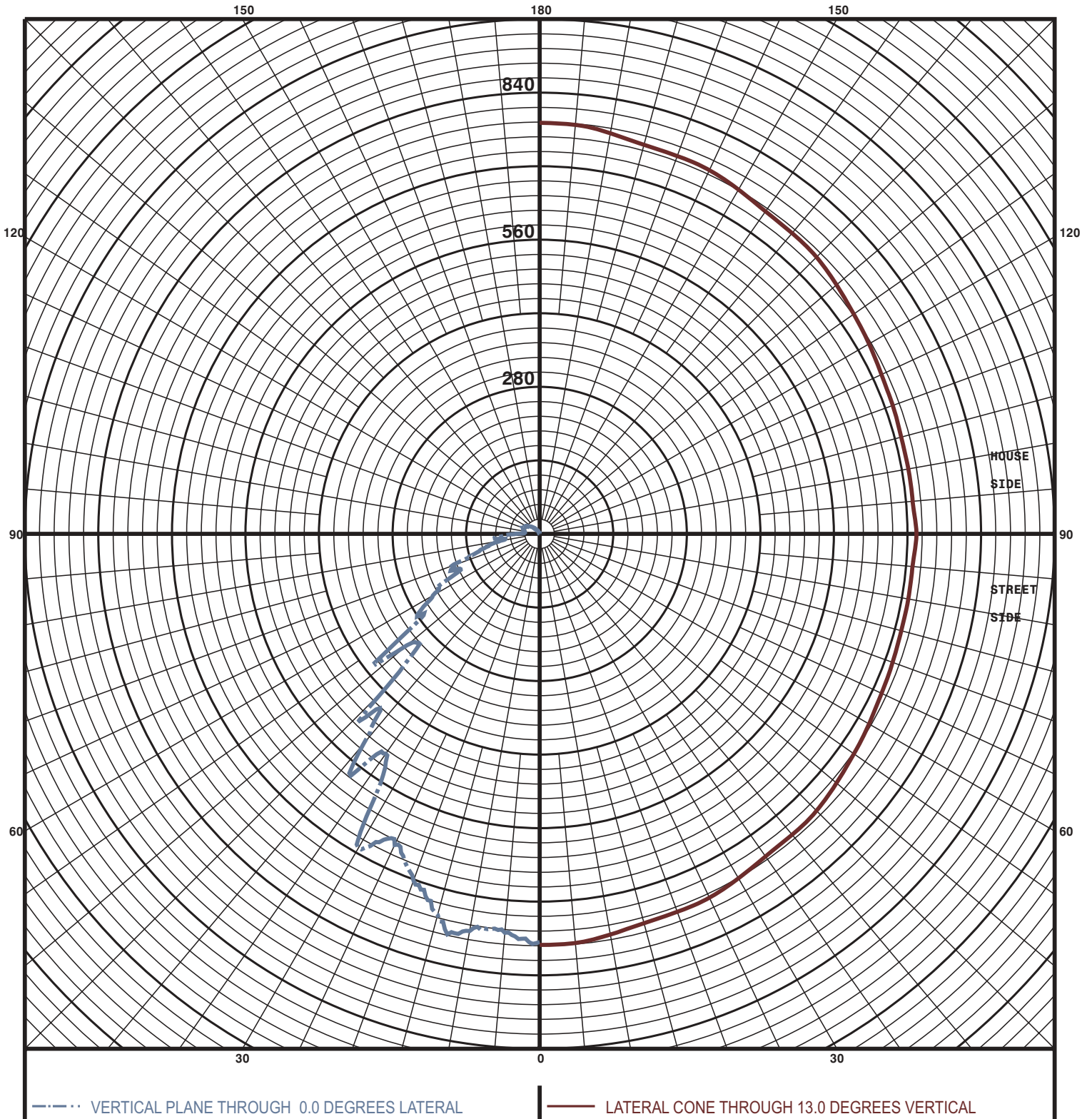


CANDELA DISTRIBUTION

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

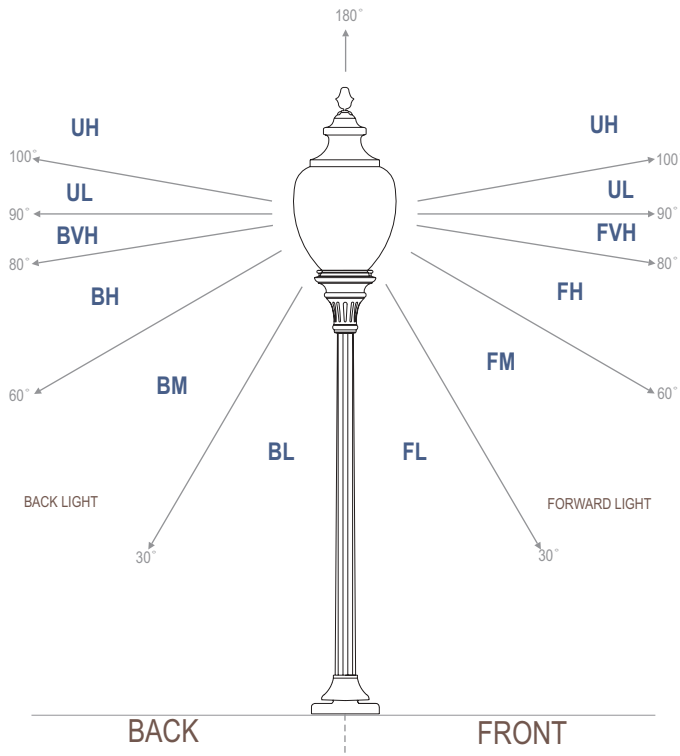


MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM
FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
FORWARD LIGHT	988	46.2	
FL (0°-30°)	292	13.7	
FM (30°-60°)	481	22.5	
FH (60°-80°)	171	8	
FVH (80°-90°)	44	2.1	

BACK LIGHT	988	46.2	
BL (0°-30°)	292	13.7	
BM (30°-60°)	481	22.5	
BH (60°-80°)	171	8	
BVH (80°-90°)	44	2.1	

UPLIGHT	160	7.5	
UL (90°-100°)	43	2	
UH (100°-180°)	117	5.5	

TRAPPED LIGHT	NA	NA	
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