



# 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: 18929

DATE: 05-10-2010

PREPARED FOR: SOL, INC.

CATALOG NUMBER: CH-2Q-22-DSC

LUMINAIRE: CAST GRAY ENAMEL ALUMINUM HOUSING, SPECULAR PLASTIC REFLECTOR, CLEAR GLASS ENCLOSURE.

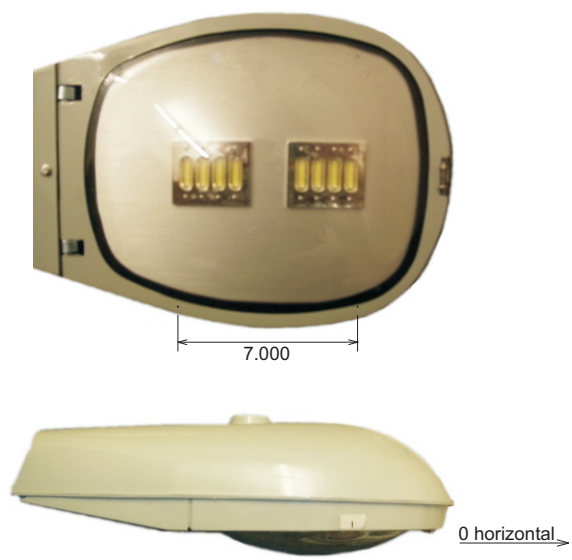
LAMP: EIGHT WHITE LEDS

LED POWER SUPPLY: SOL AISUN SC-300

ELECTRICAL VALUES: 13.00VDC, 1.4655A, 19.05W

LUMINAIRE EFFICACY: 89.1 LUMENS/WATT

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



IES CLASSIFICATION: **TYPE II**  
LONGITUDINAL CLASSIFICATION: **SHORT**  
CUTOFF CLASSIFICATION: **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	807.36	0.00	807.36
STREET SIDE	890.49	0.00	890.49
TOTALS	1697.85	0.00	1697.85

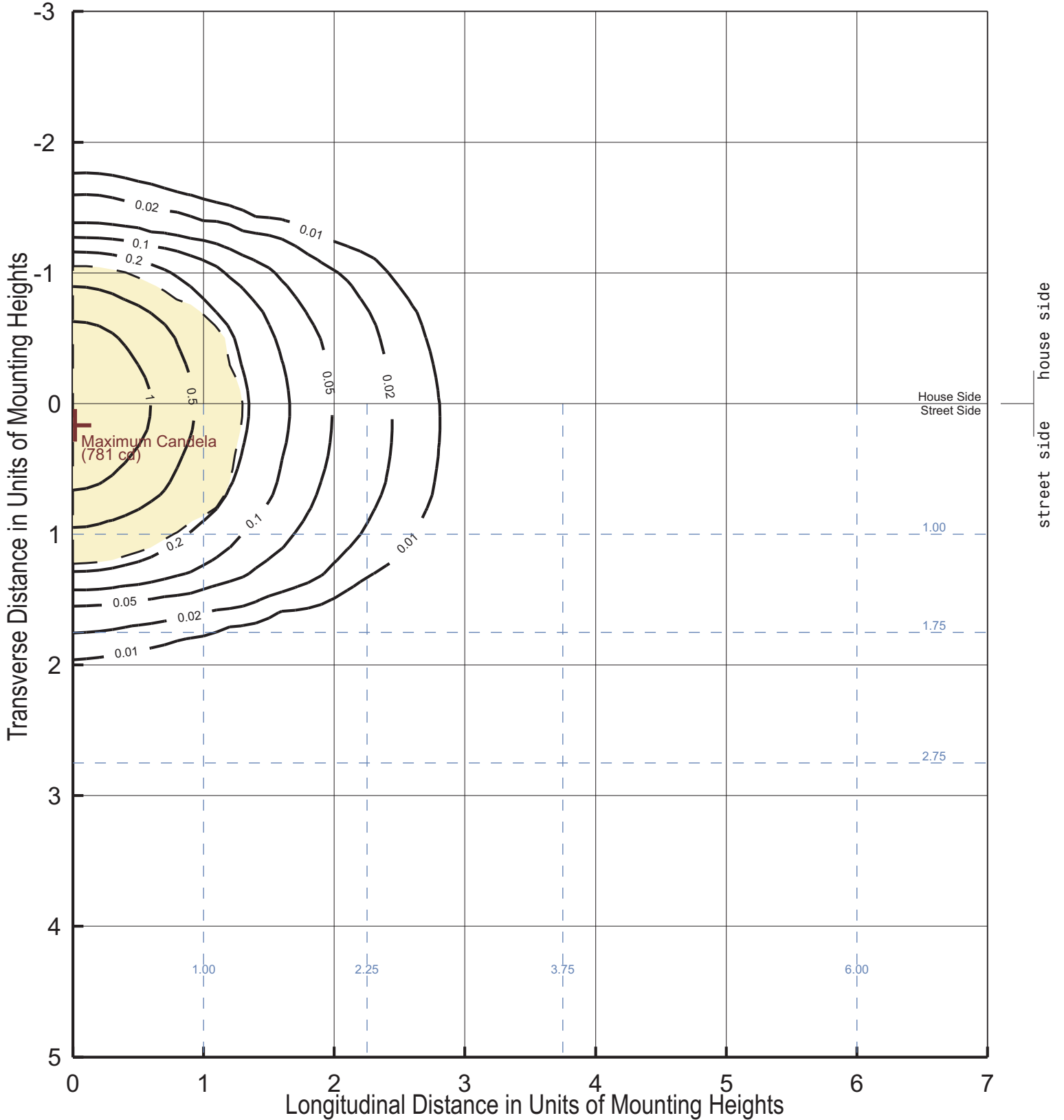
Approved By: MG

\*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



PROJECTION OF HALF-MAX CANDELA CONTOUR



CANDELA DISTRIBUTION

Table with 12 columns (0-90) and 24 rows (180-0) showing Candela Distribution values.

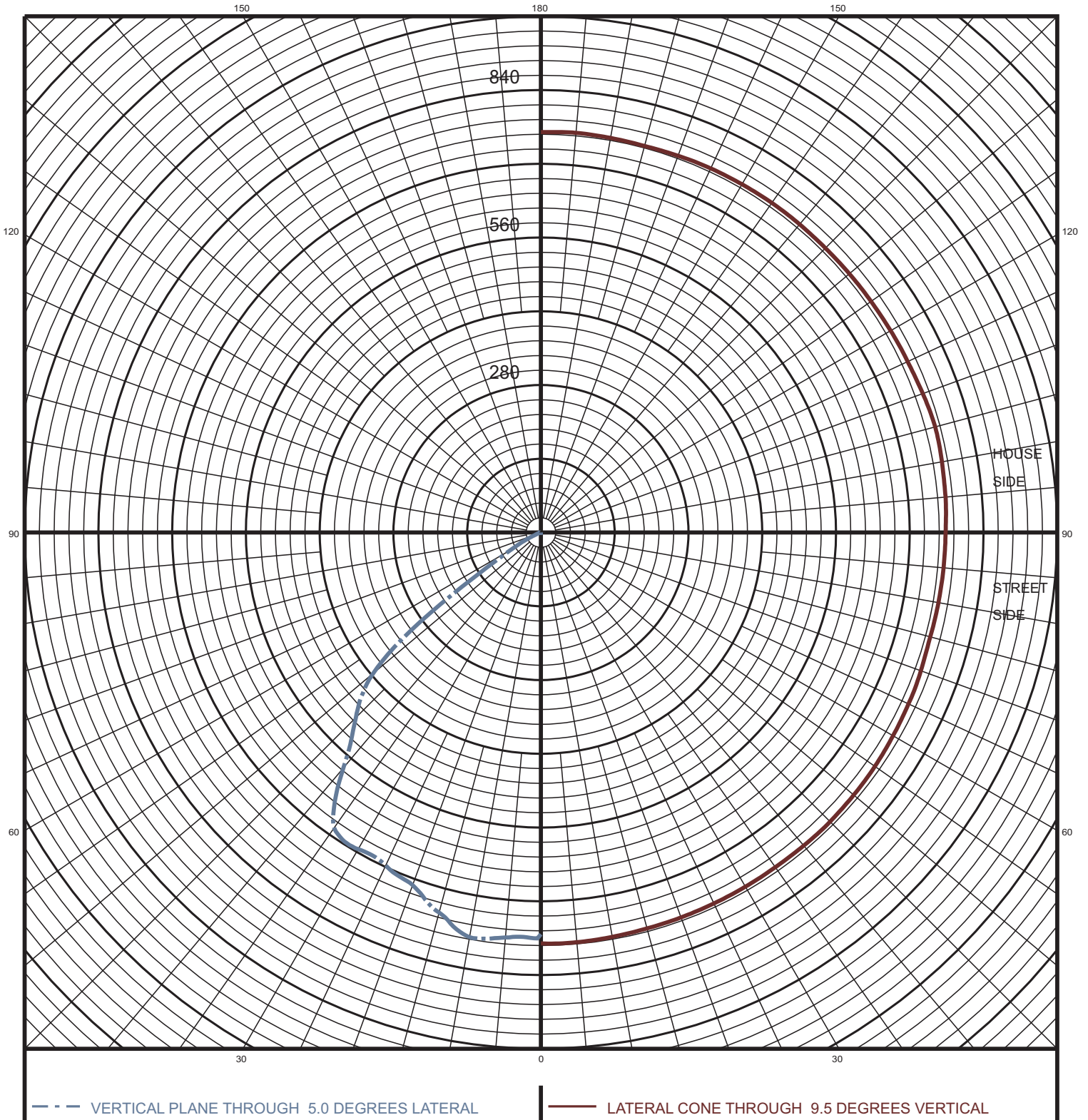


CANDELA DISTRIBUTION

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, 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, 9.5, 5, 0). Values represent candela distribution for various beam angles.



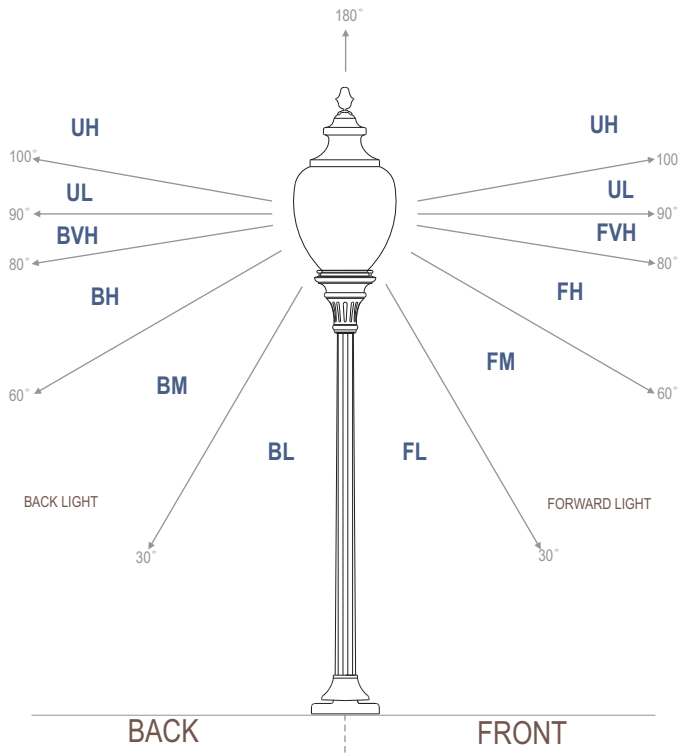
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
FORWARD LIGHT	890	52.4
FL ( 0° -30° )	302	17.8
FM (30° -60°)	524	30.9
FH (60° -80°)	64	3.8
FVH (80° -90°)	0	0.0

BACK LIGHT	807	47.6
BL ( 0° -30° )	298	17.5
BM (30° -60°)	464	27.4
BH (60° -80°)	45	2.7
BVH (80° -90°)	0	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)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B1 U0 G0