



# 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: 20873

DATE: 10-06-2010

PREPARED FOR: SOL, INC.

CATALOG NUMBER: SBS-Q2-T5-A1-30

LUMINAIRE: CAST BROWN ENAMEL ALUMINUM HOUSING, MOLDED SPECULAR PLASTIC REFLECTORS, CLEAR GLASS ENCLOSURE.

LAMP: EIGHT WHITE LEDS

LED POWER SUPPLY: ONE SOL LED POWER SUPPLY

ELECTRICAL VALUES: 13.00VDC, 2.1158A, 27.51W

LUMINAIRE EFFICACY: 91.1 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	1252.92	0.00	1252.92
STREET SIDE	1252.92	0.00	1252.92
TOTALS	2505.84	0.00	2505.84

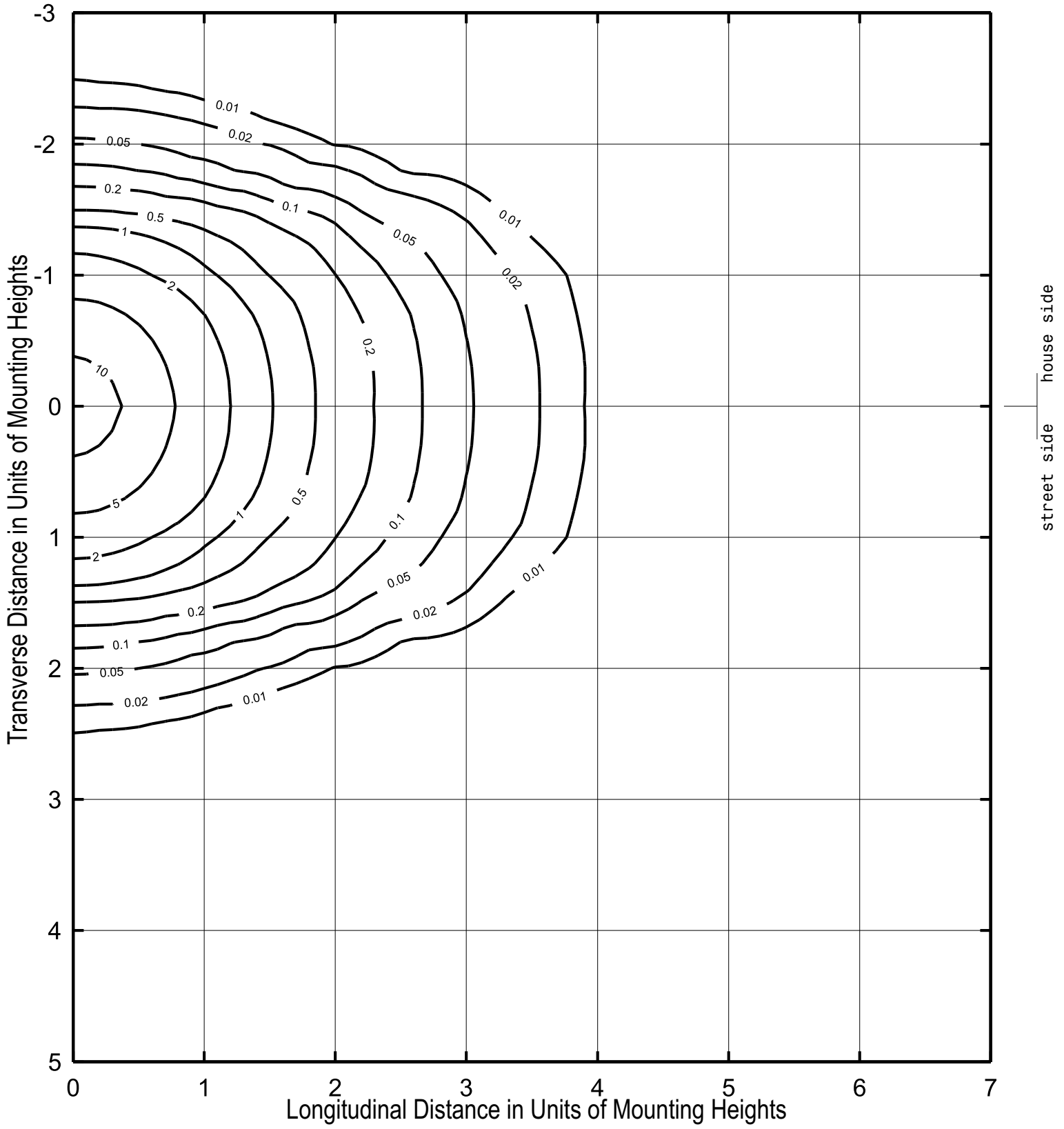
Approved By: MG

\*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 9.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR

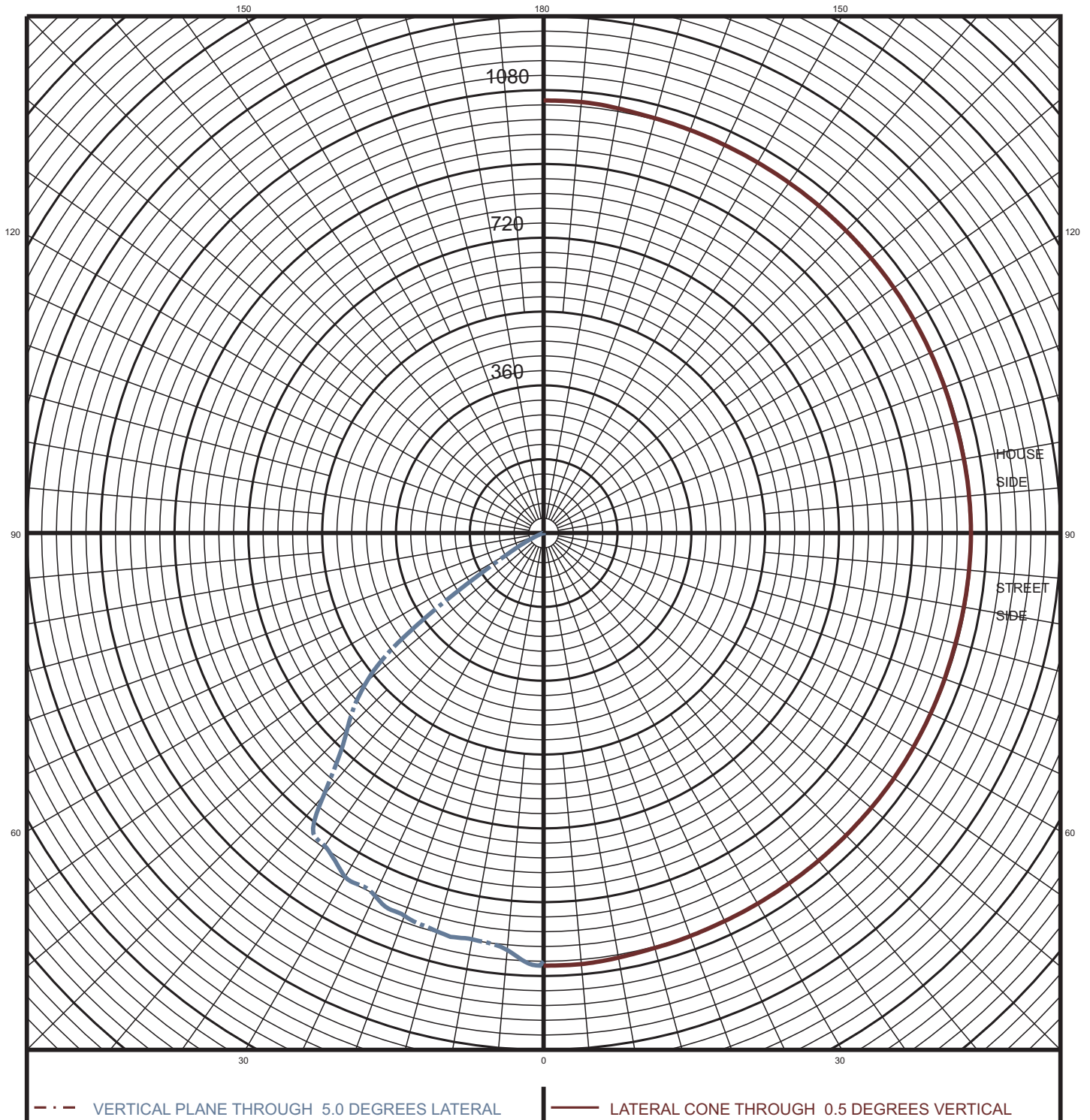


CANDELA DISTRIBUTION

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



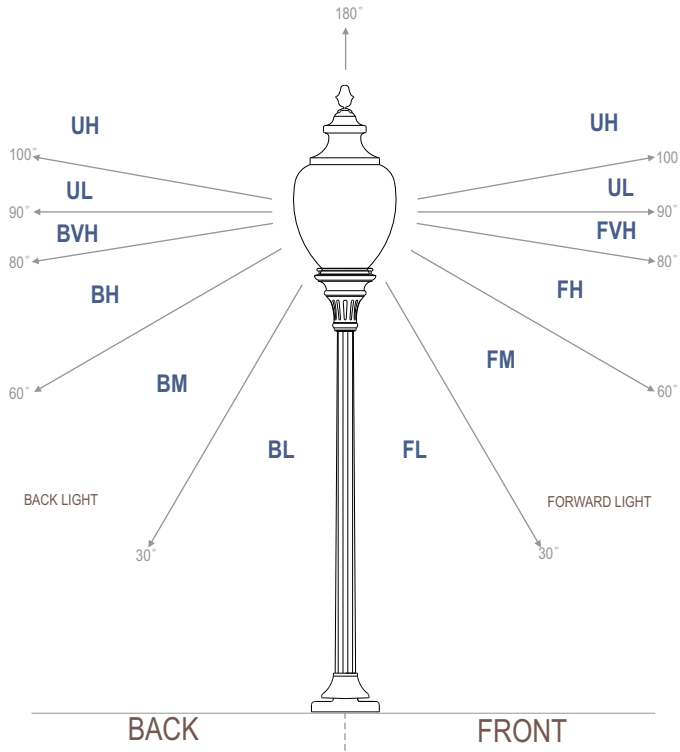
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
FORWARD LIGHT	1253	50.0
FL ( 0° -30° )	407	16.2
FM (30° -60°)	752	30.0
FH (60° -80°)	94	3.8
FVH (80° -90°)	0	0.0

BACK LIGHT	1253	50.0
BL ( 0° -30° )	407	16.2
BM (30° -60°)	752	30.0
BH (60° -80°)	94	3.8
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