



# LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING  
MEMBER  
of the  
IESNA

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LTL NUMBER: 17095

DATE: 11-06-2009

PREPARED FOR: GUTH LIGHTING

CATALOG NUMBER: TB-LED-FLAT LENS COMPLETE 32 LED COBRAHEAD

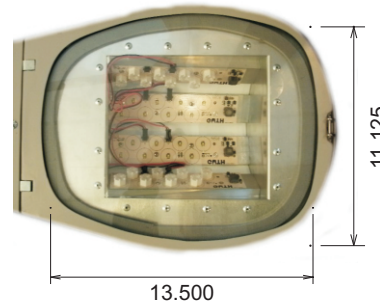
LUMINAIRE: CAST ALUMINUM HOUSING, EXTRUDED ALUMINUM HEATSINK, CLEAR ENCLOSURE.

LAMP: 32 WHITE LEDS-(16) WITH CLEAR PLASTIC OPTICS AND (16) WITHOUT OPTICS

LED POWER SUPPLY: ONE ADVANCE LED-INTA-0024V-28-F-0

ELECTRICAL VALUES: 120.0VAC, 0.5478A, 65.36W, PF=0.994

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



IES CLASSIFICATION: **TYPE I**  
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	640.22	0.00	640.22
STREET SIDE	1081.92	0.00	1081.92
TOTALS	1722.14	0.00	1722.14

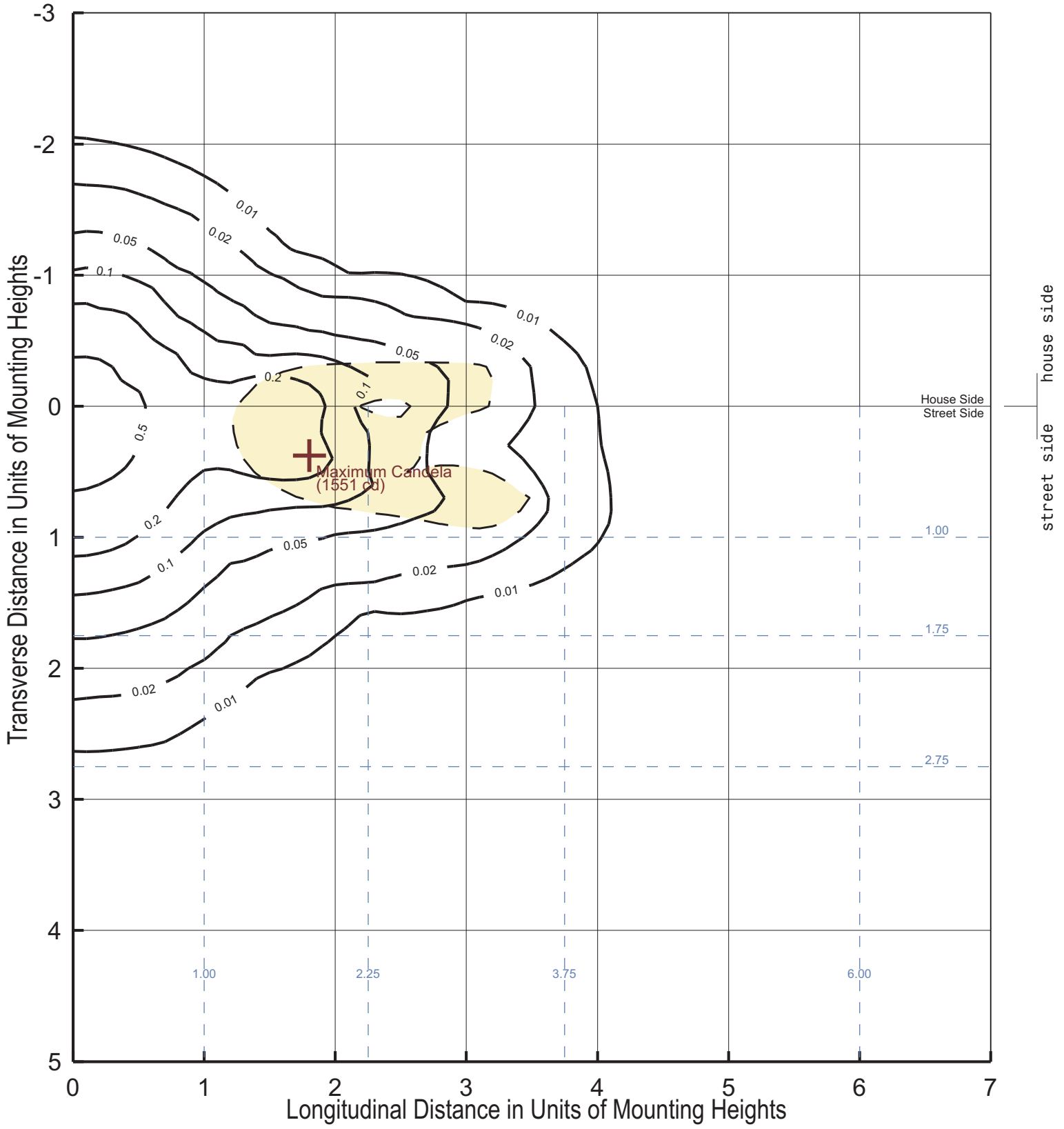
Approved By: MG

\*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 25.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR



CANDELA DISTRIBUTION

Table with 12 columns (0, 5, 15, 25, 35, 45, 55, 65, 75, 78.2, 85) 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, 61.5, 60, 57.5, 55, 52.5, 50, 47.5, 45, 40, 35, 30, 25, 20, 15, 10, 5, 0). Values represent candela distribution for various beam angles.

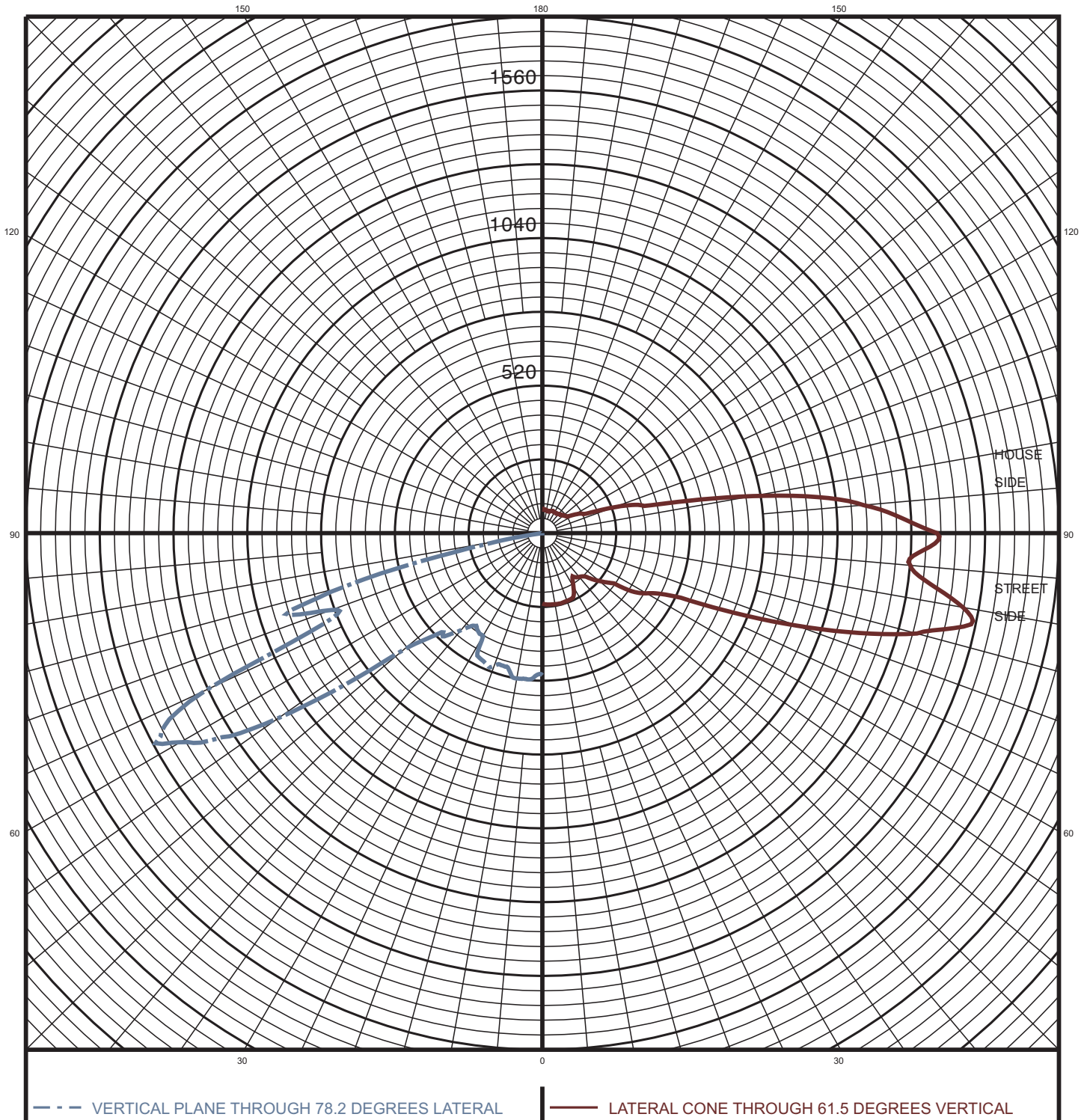


CANDELA DISTRIBUTION

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



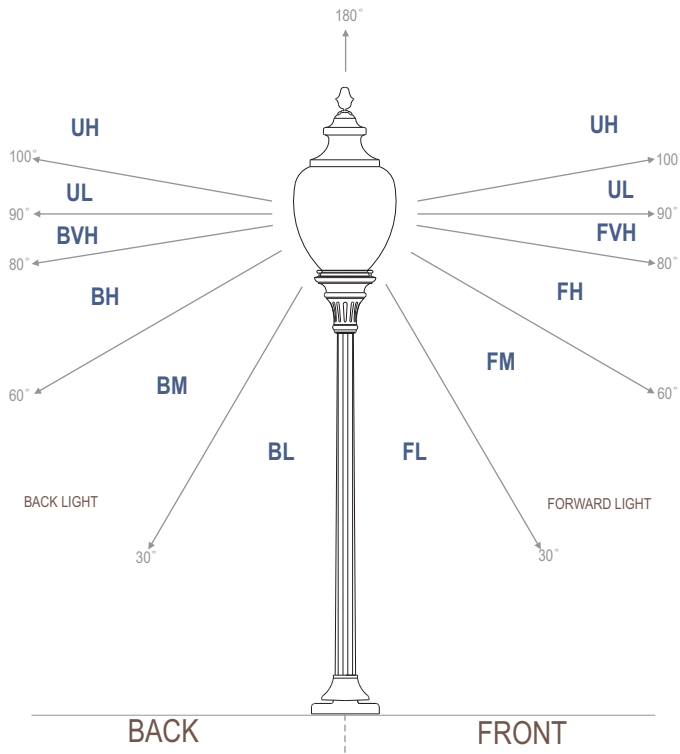
MAXIMUM PLANE AND CONE PLOTS OF CANDELA





FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

FLUX



ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
<b>FORWARD LIGHT</b>	1082	62.8
FL ( 0° -30° )	217	12.6
FM (30° -60° )	550	32.0
FH (60° -80° )	311	18.0
FVH (80° -90° )	4	0.3

<b>BACK LIGHT</b>	640	37.2
BL ( 0° -30° )	176	10.2
BM (30° -60° )	311	18.0
BH (60° -80° )	153	8.9
BVH (80° -90° )	1	0.1

<b>UPLIGHT</b>	0	0.0
UL (90° -100° )	0	0.0
UH (100° -180° )	0	0.0

<b>TRAPPED LIGHT</b>	NA	NA
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<b>BUG (Backlight, Uplight, Glare) Rating</b>	
Asymmetrical Luminaire Types (Type I, II, III, IV)	B1 U0 G1
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B1 U0 G0