



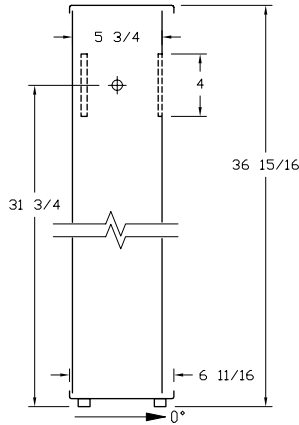
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 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

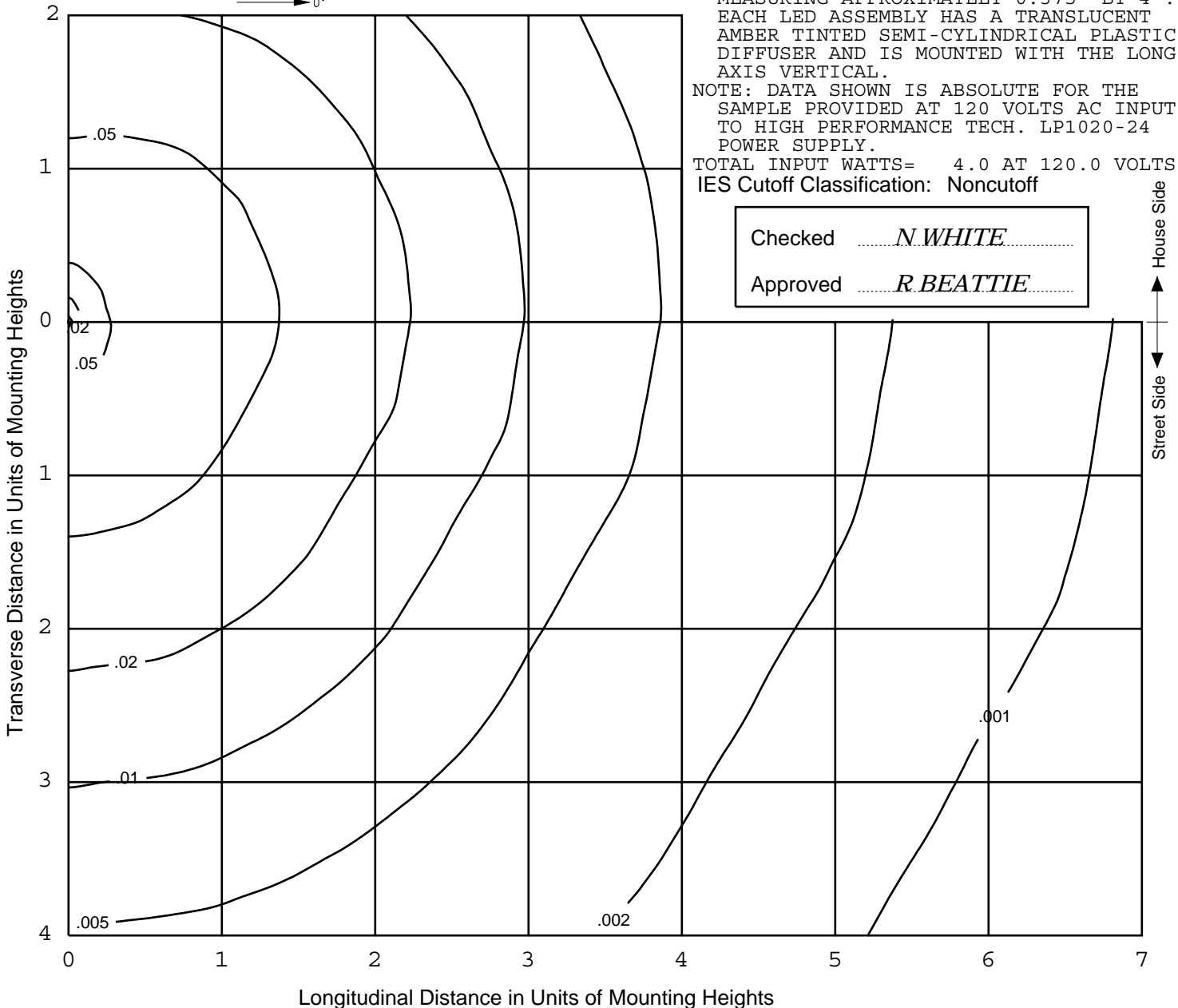
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

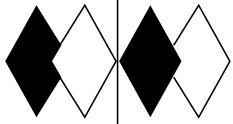
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 2.65 foot mounting height.



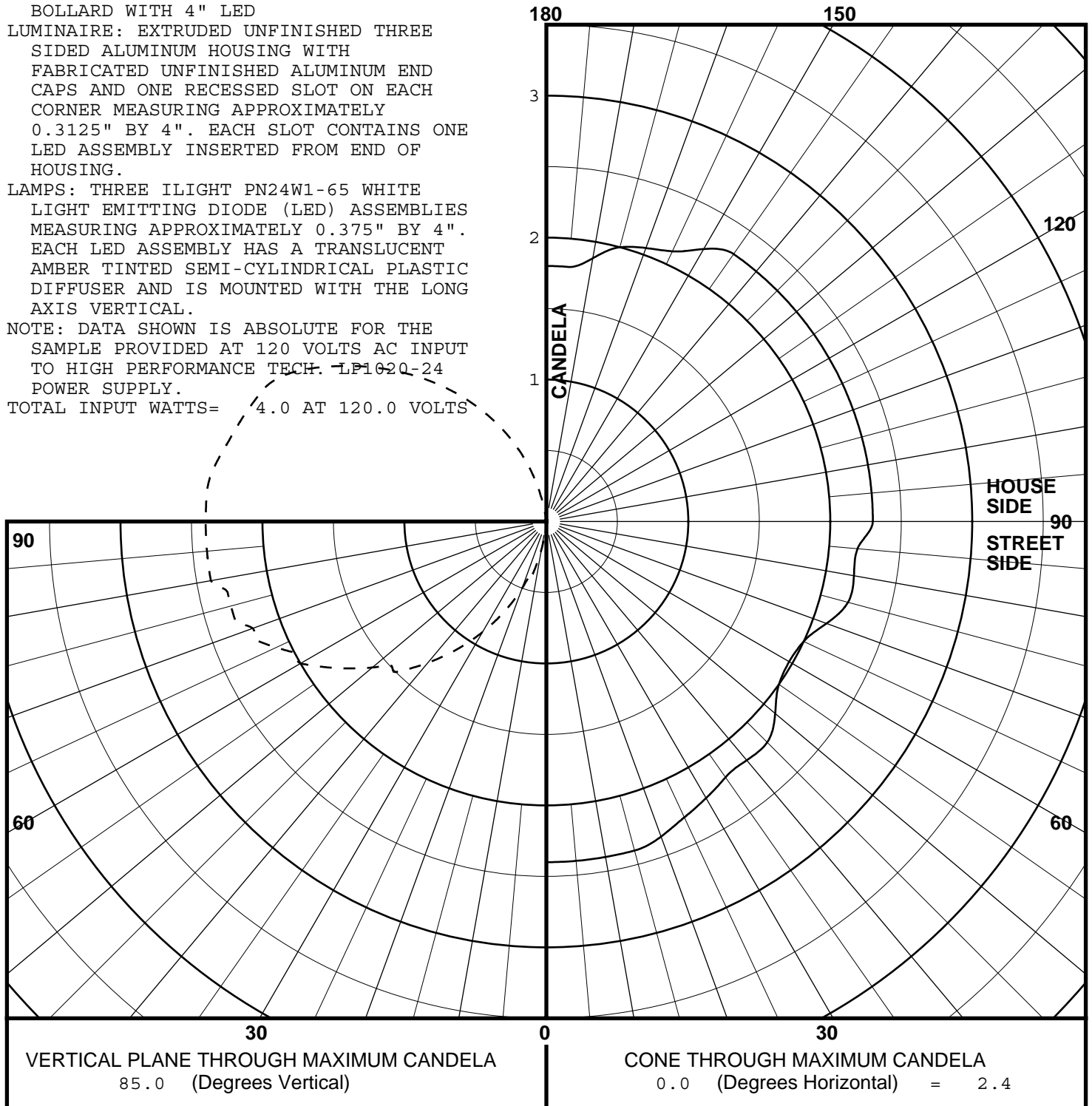
REPORT NUMBER: ITL56918
 DATE: 11/21/05
 PREPARED FOR: FAIRWEATHER SITE
 FURNISHINGS, A DIVISION OF LEADER
 MANUFACTURING, INC.
 CATALOG NUMBER: EA-1T-L ALUMINUM LED
 BOLLARD WITH 4" LED
 LUMINAIRE: EXTRUDED UNFINISHED THREE
 SIDED ALUMINUM HOUSING WITH
 FABRICATED UNFINISHED ALUMINUM END
 CAPS AND ONE RECESSED SLOT ON EACH
 CORNER MEASURING APPROXIMATELY
 0.3125" BY 4". EACH SLOT CONTAINS ONE
 LED ASSEMBLY INSERTED FROM END OF
 HOUSING.
 LAMPS: THREE ILLIGHT PN24W1-65 WHITE
 LIGHT EMITTING DIODE (LED) ASSEMBLIES
 MEASURING APPROXIMATELY 0.375" BY 4".
 EACH LED ASSEMBLY HAS A TRANSLUCENT
 AMBER TINTED SEMI-CYLINDRICAL PLASTIC
 DIFFUSER AND IS MOUNTED WITH THE LONG
 AXIS VERTICAL.
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED AT 120 VOLTS AC INPUT
 TO HIGH PERFORMANCE TECH. LP1020-24
 POWER SUPPLY.
 TOTAL INPUT WATTS= 4.0 AT 120.0 VOLTS
 IES Cutoff Classification: Noncutoff





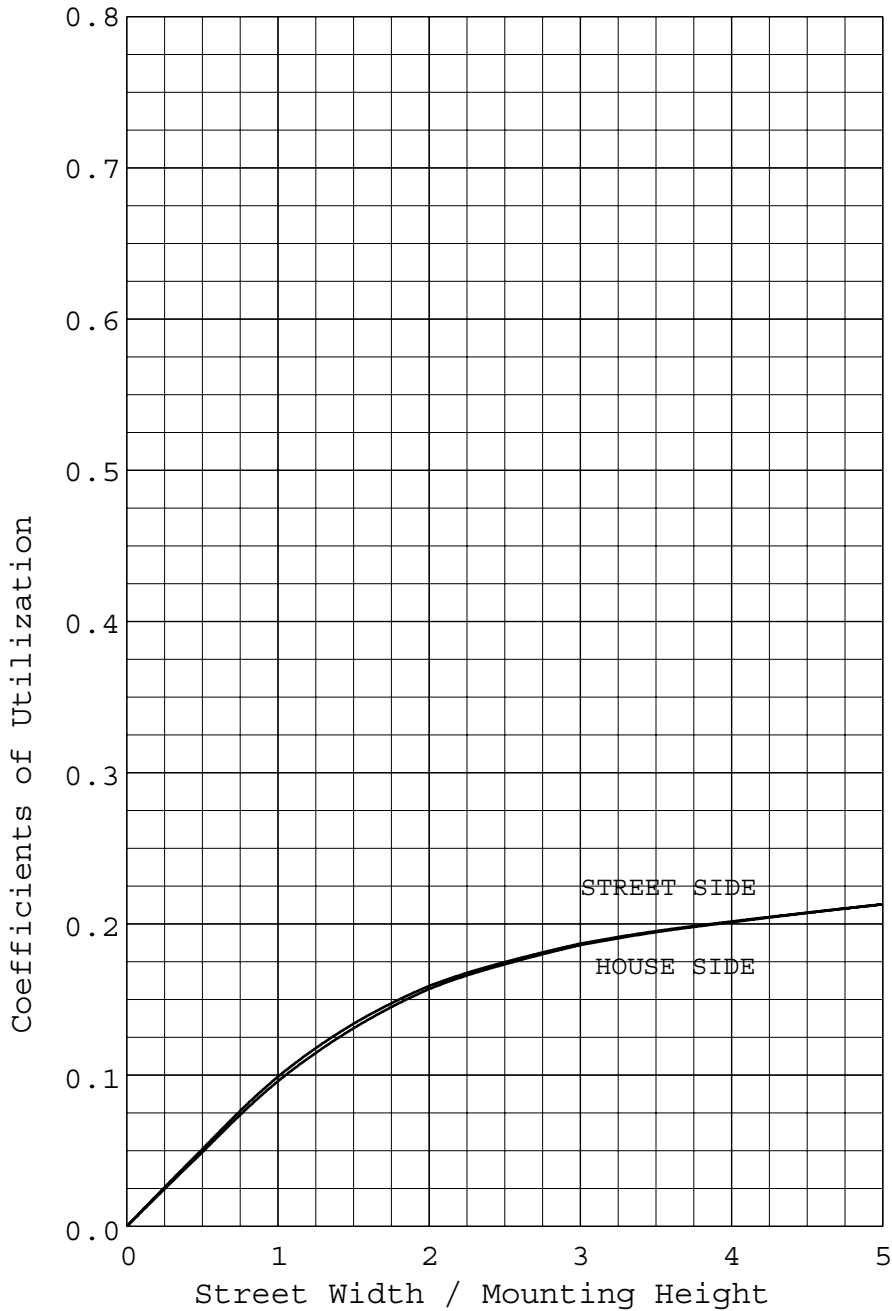
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 AXIS VERTICAL.
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED AT 120 VOLTS AC INPUT
 TO HIGH PERFORMANCE TECH. LP102Q-24
 POWER SUPPLY.
 TOTAL INPUT WATTS= 4.0 AT 120.0 VOLTS

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



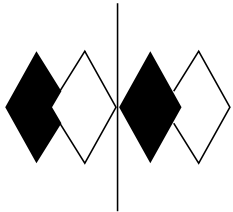


REPORT NUMBER: ITL56918 DATE: 11/21/05
 PREPARED FOR: FAIRWEATHER SITE FURNISHINGS, A DIVISION OF LEADER
 MANUFACTURING, INC.
 COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS
DOWNWARD STREET SIDE	5
DOWNWARD HOUSE SIDE	5
DOWNWARD TOTAL	10
UPWARD STREET SIDE	5
UPWARD HOUSE SIDE	5
UPWARD TOTAL	10
TOTAL FLUX	20

ALL CANDELA, LUMENS AND COEFFICIENT OF UTILIZATION VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.00. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.



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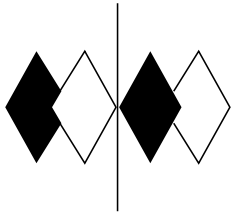
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CANDELA TABULATION

	STREET SIDE											
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.0	0.1	0.2	0.3	0.3
	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.4	0.5	0.7	0.7	0.7
	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.7	1.0	1.1	1.1	1.1
	1.5	1.5	1.5	1.5	1.5	1.4	1.4	0.8	1.4	1.4	1.5	1.5
	1.9	1.8	1.9	1.8	1.8	1.8	1.5	0.8	1.7	1.8	1.8	1.8
	2.2	2.1	2.1	2.1	2.0	2.0	1.8	0.9	1.9	2.0	2.0	2.0
	2.3	2.3	2.3	2.3	2.2	2.1	1.9	1.9	2.1	2.1	2.2	2.2
	2.4	2.4	2.4	2.4	2.2	2.2	2.0	2.0	2.2	2.2	2.3	2.3
	2.4	2.4	2.4	2.4	2.3	2.2	2.0	2.0	2.2	2.2	2.3	2.3
	2.4	2.4	2.4	2.3	2.2	2.2	2.0	2.0	2.2	2.2	2.3	2.3
	2.4	2.4	2.4	2.3	2.2	2.2	2.0	2.0	2.2	2.2	2.3	2.3
	2.4	2.4	2.4	2.3	2.2	2.2	2.0	2.0	2.2	2.2	2.3	2.3
	2.4	2.4	2.4	2.3	2.2	2.2	2.0	2.0	2.2	2.2	2.3	2.3
	2.4	2.3	2.4	2.3	2.2	2.1	2.0	2.0	2.1	2.2	2.3	2.3
	2.3	2.3	2.3	2.3	2.2	2.1	2.0	2.0	2.1	2.2	2.2	2.2
	2.3	2.3	2.3	2.2	2.1	2.1	1.9	1.9	2.1	2.1	2.2	2.2
	2.3	2.2	2.3	2.2	2.1	2.0	1.9	1.9	2.1	2.1	2.2	2.2
	2.2	2.2	2.2	2.1	2.1	2.0	1.9	1.9	2.0	2.1	2.1	2.1
	2.2	2.1	2.2	2.1	2.0	2.0	1.9	1.8	2.0	2.0	2.1	2.1
	2.1	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.9	2.0	2.0	2.0
	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.8	1.9	1.9	2.0	2.0
	2.0	1.9	1.9	1.9	1.9	1.8	1.7	1.7	1.8	1.8	1.9	1.9
	1.9	1.8	1.9	1.8	1.8	1.7	1.7	1.6	1.8	1.8	1.8	1.8
	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.7	1.7	1.8	1.8
	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.6	1.7	1.7
	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.6	1.6	1.6	1.6
	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.5	1.5
	1.5	1.4	1.5	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.5	1.5
	1.4	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4
	1.3	1.2	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3
	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.2	1.2
	1.1	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1
	1.0	0.9	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	1.0
	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.9
	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.8	0.8
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6
	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4
	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.3
	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE								
	95.0	105.0	115.0	120.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.2
155.0	0.7	0.4	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6	0.6
145.0	1.1	1.1	1.0	0.6	1.1	1.1	1.1	1.1	1.0	1.0	1.0
135.0	1.5	1.5	1.4	1.3	1.4	1.5	1.5	1.4	1.4	1.3	1.3
125.0	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.7	1.6	1.5	1.5
115.0	2.1	2.1	2.0	2.1	2.0	2.0	2.0	1.9	1.8	1.7	1.7
105.0	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.0	1.9	1.8	1.7
95.0	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.1	2.0	1.8	1.8
90.0	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.1	2.0	1.8	1.8
89.0	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.1	2.0	1.8	1.8
87.5	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.1	2.0	1.8	1.8
85.0<<	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.1	2.0	1.8	1.8
82.5	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.0	1.8	1.8
80.0	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.0	2.0	1.8	1.7
77.5	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.0	1.9	1.8	1.7
75.0	2.2	2.3	2.2	2.3	2.2	2.2	2.2	2.0	1.9	1.8	1.7
72.5	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	1.9	1.7	1.7
70.0	2.1	2.2	2.1	2.2	2.1	2.1	2.1	1.9	1.9	1.7	1.7
V 67.5	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.9	1.8	1.7	1.6
E 65.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	1.9	1.8	1.6	1.6
R 62.5	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.8	1.7	1.6	1.6
T 60.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.5	1.5
I 57.5	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.5	1.5
C 55.0	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.4
A 52.5	1.7	1.7	1.6	1.7	1.7	1.6	1.7	1.5	1.5	1.4	1.4
L 50.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.4	1.4	1.4
47.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.3
A 45.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.2
N 42.5	1.4	1.4	1.3	1.4	1.4	1.3	1.4	1.3	1.2	1.2	1.2
G 40.0	1.3	1.3	1.2	1.3	1.3	1.2	1.3	1.2	1.2	1.1	1.1
L 37.5	1.2	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.1	1.0	1.0
E 35.0	1.1	1.1	1.0	1.1	1.1	1.0	1.1	1.0	1.0	0.9	0.9
32.5	1.0	1.0	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.9
30.0	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8
25.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6
20.0	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5
15.0	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
10.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
5.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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