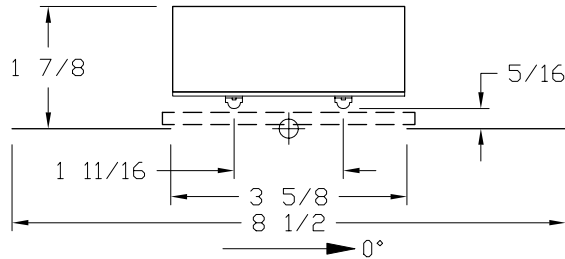


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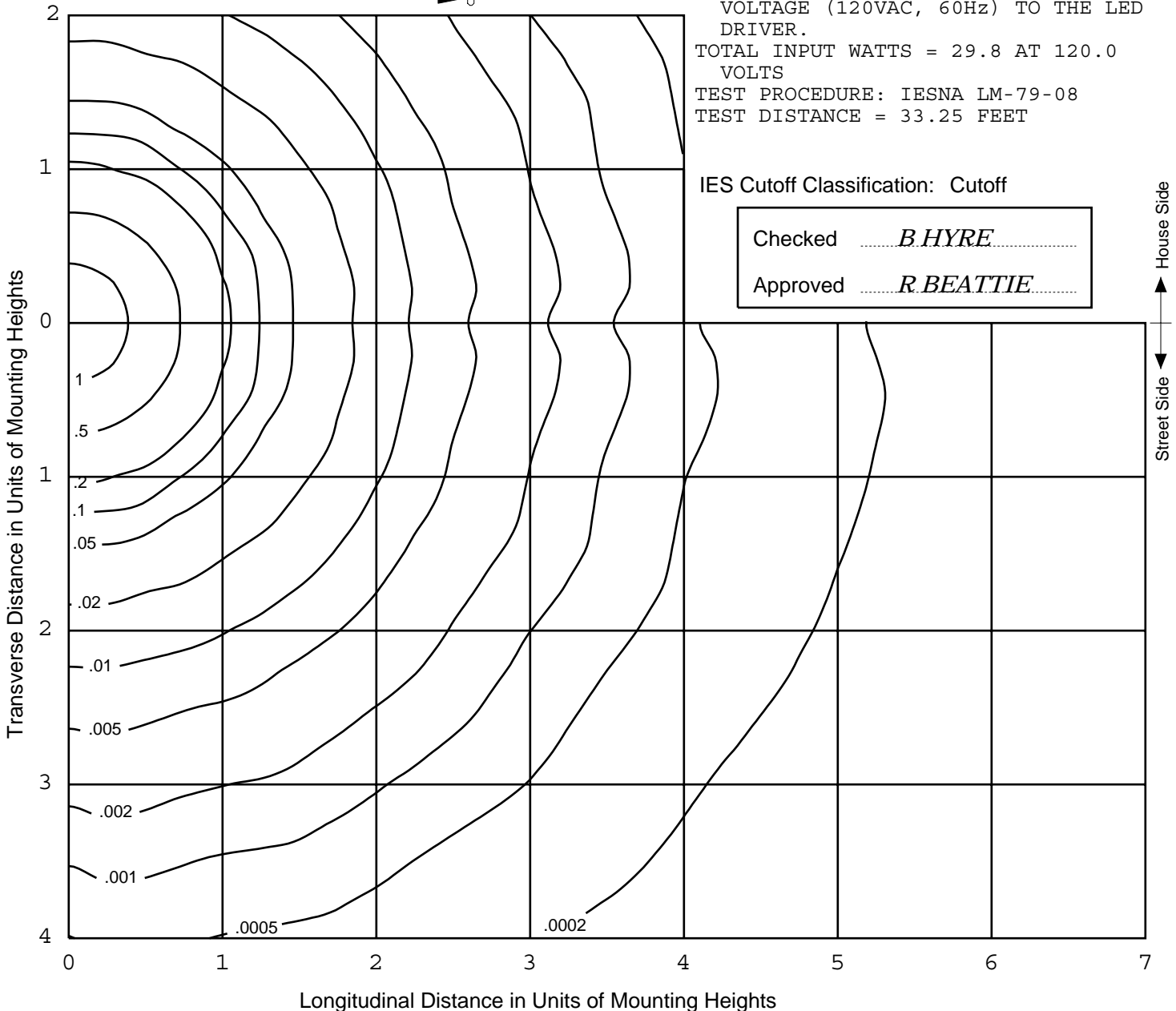
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
 Values based on 20 foot mounting height.

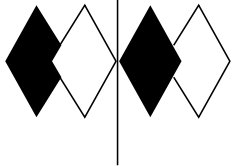


REPORT NUMBER: ITL61914
 DATE: 03/12/09
 PREPARED FOR: BARE DEVELOPMENT, INC.
 CATALOG NUMBER: HTS-9A
 LUMINAIRE: FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED FINNED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 12 LEDs, OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/4".
 LAMP: TWELVE WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.
 LED DRIVER: MEAN WELL LPV-35-24
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.
 TOTAL INPUT WATTS = 29.8 AT 120.0 VOLTS
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 33.25 FEET

IES Cutoff Classification: Cutoff

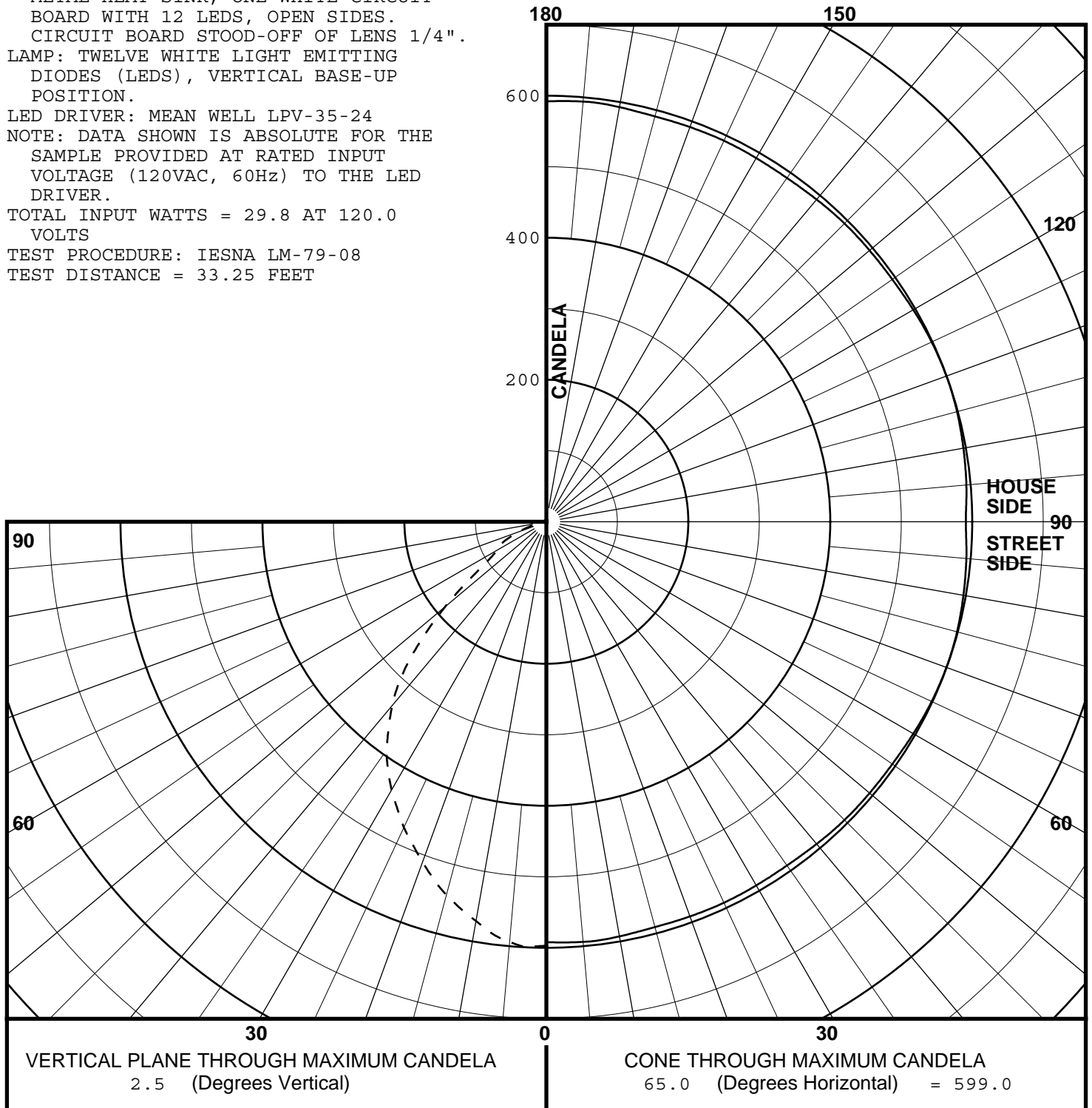
Checked *B.HYRE*
 Approved *R.BEATTIE*

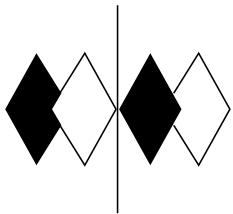




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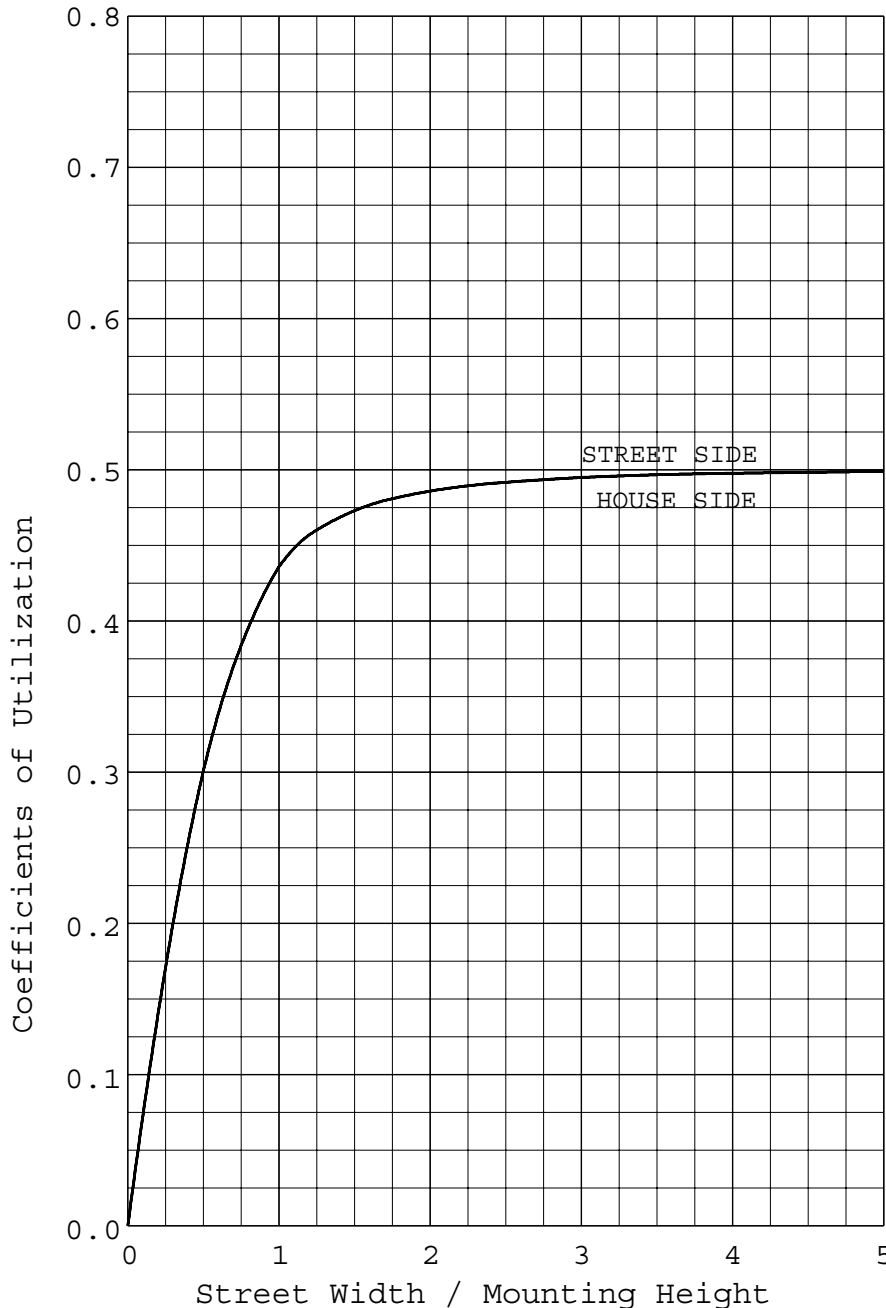
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





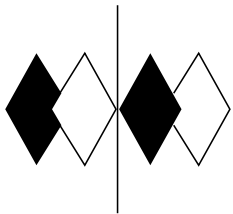
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	528.	50.0
DOWNWARD HOUSE SIDE	528.	50.0
DOWNWARD TOTAL	1056.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	1056.	100.0
EFFICACY = 35.4 Lm/W		

ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.



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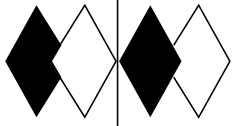
INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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FLUX DISTRIBUTION BY SOLID ANGLE
(PER IESNA TM-15-07, LUMINAIRE CLASSIFICATION
SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE
FORWARD LIGHT	528.	50.0
FL (0- 30)		20.0
FM (30- 60)		25.7
FH (60- 80)		4.0
FVH(80- 90)		0.3
BACK LIGHT	528.	50.0
BL (0- 30)		20.0
BM (30- 60)		25.7
BH (60- 80)		4.0
BVH(80- 90)		0.3
UPLIGHT	0.	0.0
UL (90-100)		0.0
UH (100-180)		0.0
TRAPPED LIGHT	0.	0.0
TOTAL FLUX	1056.	100.0



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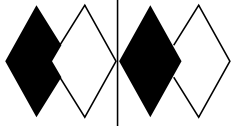
DATE: 03/12/09

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		
				LATERAL ANGLE									
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	
	87.5	0.	1.	1.	1.	1.	1.	1.	2.	1.	3.	1.	
	85.0	3.	5.	4.	5.	3.	5.	4.	7.	6.	9.	6.	
	82.5	8.	8.	8.	8.	8.	9.	11.	11.	12.	12.	11.	
	80.0	8.	8.	8.	9.	9.	10.	10.	11.	12.	12.	11.	
	77.5	10.	12.	12.	13.	12.	14.	13.	14.	13.	15.	13.	
	75.0	16.	20.	18.	21.	20.	21.	19.	21.	18.	21.	17.	
	72.5	27.	32.	28.	32.	30.	31.	28.	30.	27.	31.	26.	
	70.0	40.	45.	40.	43.	41.	44.	40.	41.	39.	42.	37.	
V	67.5	52.	55.	52.	55.	54.	58.	54.	54.	50.	54.	49.	
E	65.0	62.	64.	62.	64.	65.	67.	66.	66.	61.	62.	59.	
R	62.5	69.	71.	69.	71.	70.	73.	73.	74.	71.	72.	67.	
T	60.0	74.	77.	74.	76.	75.	78.	77.	80.	79.	82.	78.	
I	57.5	82.	87.	83.	86.	84.	89.	86.	91.	87.	94.	88.	
C	55.0	100.	109.	103.	110.	103.	111.	105.	112.	105.	116.	106.	
A	52.5	129.	142.	135.	143.	135.	145.	136.	145.	137.	151.	138.	
L	50.0	170.	184.	173.	183.	172.	185.	175.	186.	177.	192.	176.	
	47.5	214.	227.	217.	229.	218.	228.	218.	228.	221.	236.	219.	
A	45.0	256.	267.	259.	267.	260.	269.	261.	270.	262.	274.	260.	
N	42.5	292.	303.	295.	302.	296.	304.	298.	307.	301.	310.	299.	
G	40.0	322.	330.	324.	332.	327.	335.	331.	338.	334.	341.	328.	
L	37.5	348.	356.	351.	357.	353.	362.	358.	365.	361.	365.	357.	
E	35.0	377.	383.	377.	383.	381.	388.	384.	392.	386.	390.	381.	
	32.5	401.	408.	402.	407.	404.	411.	408.	415.	411.	413.	404.	
	30.0	423.	430.	425.	429.	425.	432.	430.	436.	433.	433.	426.	
	27.5	443.	451.	446.	450.	447.	451.	450.	455.	452.	452.	445.	
	25.0	464.	470.	465.	470.	465.	471.	467.	475.	471.	470.	463.	
	22.5	482.	488.	483.	487.	484.	489.	486.	492.	488.	488.	481.	
	20.0	501.	507.	502.	505.	502.	506.	504.	510.	505.	505.	498.	
	17.5	518.	524.	519.	522.	520.	523.	522.	528.	523.	523.	516.	
	15.0	535.	541.	536.	538.	535.	538.	537.	544.	541.	540.	534.	
	12.5	551.	555.	551.	552.	550.	553.	552.	558.	556.	554.	548.	
	10.0	563.	567.	564.	565.	563.	566.	565.	571.	569.	566.	560.	
	7.5	574.	578.	574.	576.	574.	578.	578.	585.	582.	578.	573.	
	5.0	583.	587.	584.	585.	584.	588.	588.	594.	592.	588.	583.	
	2.5<<	592.	594.	591.	592.	591.	594.	595.	599.	599.	594.	591.	
	0.0	597.	597.	597.	597.	597.	597.	597.	597.	597.	597.	597.	

||
 PLANE OF MAXIMUM CANDELA

||
 CONE OF MAXIMUM CANDELA



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CANDELA TABULATION

	HOUSE SIDE	LATERAL ANGLE									
		95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
	90.0	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	3.	1.	2.	1.	1.	1.	1.	1.	1.	0.
	85.0	9.	6.	7.	4.	5.	3.	5.	4.	5.	3.
	82.5	12.	12.	11.	11.	9.	8.	8.	8.	8.	8.
	80.0	12.	12.	11.	10.	10.	9.	9.	8.	8.	8.
	77.5	15.	13.	14.	13.	14.	12.	13.	12.	12.	10.
	75.0	21.	18.	21.	19.	21.	20.	21.	18.	20.	16.
	72.5	31.	27.	30.	28.	31.	30.	32.	28.	32.	27.
	70.0	42.	39.	41.	40.	44.	41.	43.	40.	45.	40.
V	67.5	54.	50.	54.	54.	58.	54.	55.	52.	55.	52.
E	65.0	62.	61.	66.	66.	67.	65.	64.	62.	64.	62.
R	62.5	72.	71.	74.	73.	73.	70.	71.	69.	71.	69.
T	60.0	82.	79.	80.	77.	78.	75.	76.	74.	77.	74.
I	57.5	94.	87.	91.	86.	89.	84.	86.	83.	87.	82.
C	55.0	116.	105.	112.	105.	111.	103.	110.	103.	109.	100.
A	52.5	151.	137.	145.	136.	145.	135.	143.	135.	142.	129.
L	50.0	192.	177.	186.	175.	185.	172.	183.	173.	184.	170.
	47.5	236.	221.	228.	218.	228.	218.	229.	217.	227.	214.
A	45.0	274.	262.	270.	261.	269.	260.	267.	259.	267.	256.
N	42.5	310.	301.	307.	298.	304.	296.	302.	295.	303.	292.
G	40.0	341.	334.	338.	331.	335.	327.	332.	324.	330.	322.
L	37.5	365.	361.	365.	358.	362.	353.	357.	351.	356.	348.
E	35.0	390.	386.	392.	384.	388.	381.	383.	377.	383.	377.
	32.5	413.	411.	415.	408.	411.	404.	407.	402.	408.	401.
	30.0	433.	433.	436.	430.	432.	425.	429.	425.	430.	423.
	27.5	452.	452.	455.	450.	451.	447.	450.	446.	451.	443.
	25.0	470.	471.	475.	467.	471.	465.	470.	465.	470.	464.
	22.5	488.	488.	492.	486.	489.	484.	487.	483.	488.	482.
	20.0	505.	505.	510.	504.	506.	502.	505.	502.	507.	501.
	17.5	523.	523.	528.	522.	523.	520.	522.	519.	524.	518.
	15.0	540.	541.	544.	537.	538.	535.	538.	536.	541.	535.
	12.5	554.	556.	558.	552.	553.	550.	552.	551.	555.	551.
	10.0	566.	569.	571.	565.	566.	563.	565.	564.	567.	563.
	7.5	578.	582.	585.	578.	578.	574.	576.	574.	578.	574.
	5.0	588.	592.	594.	588.	588.	584.	585.	584.	587.	583.
	2.5<<	594.	599.	599.	595.	594.	591.	592.	591.	594.	592.
	0.0	597.	597.	597.	597.	597.	597.	597.	597.	597.	597.

CONE OF MAXIMUM CANDELA