



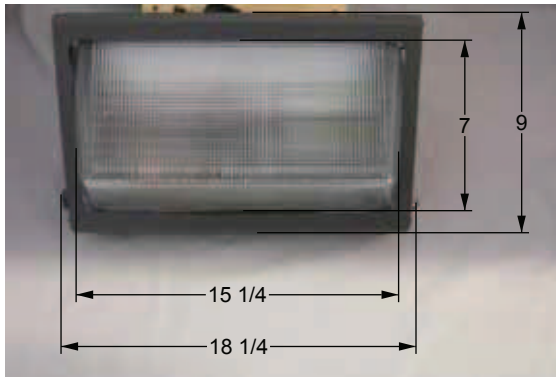
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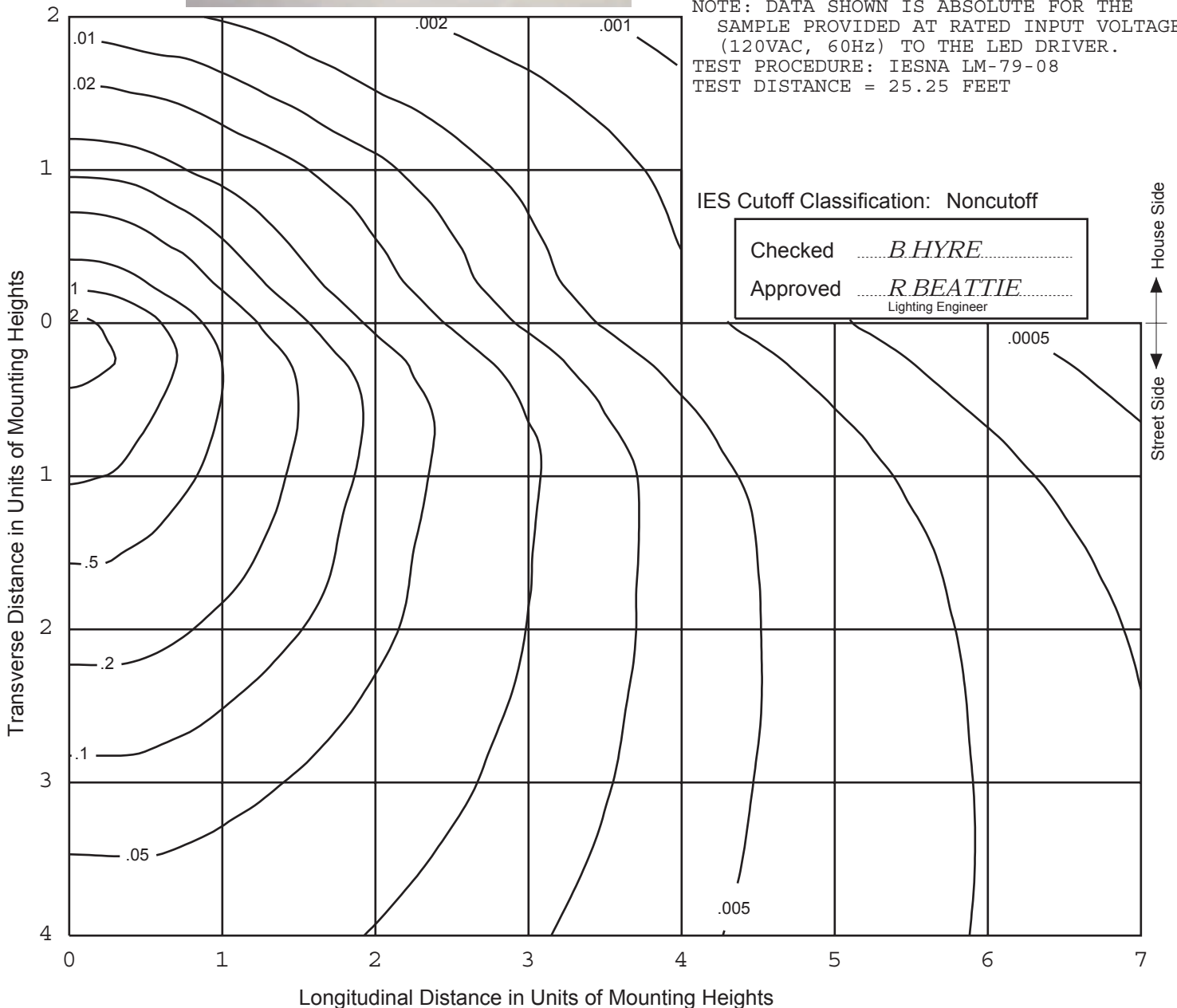
INDEPENDENT TESTING LABORATORIES, INC.  
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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

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



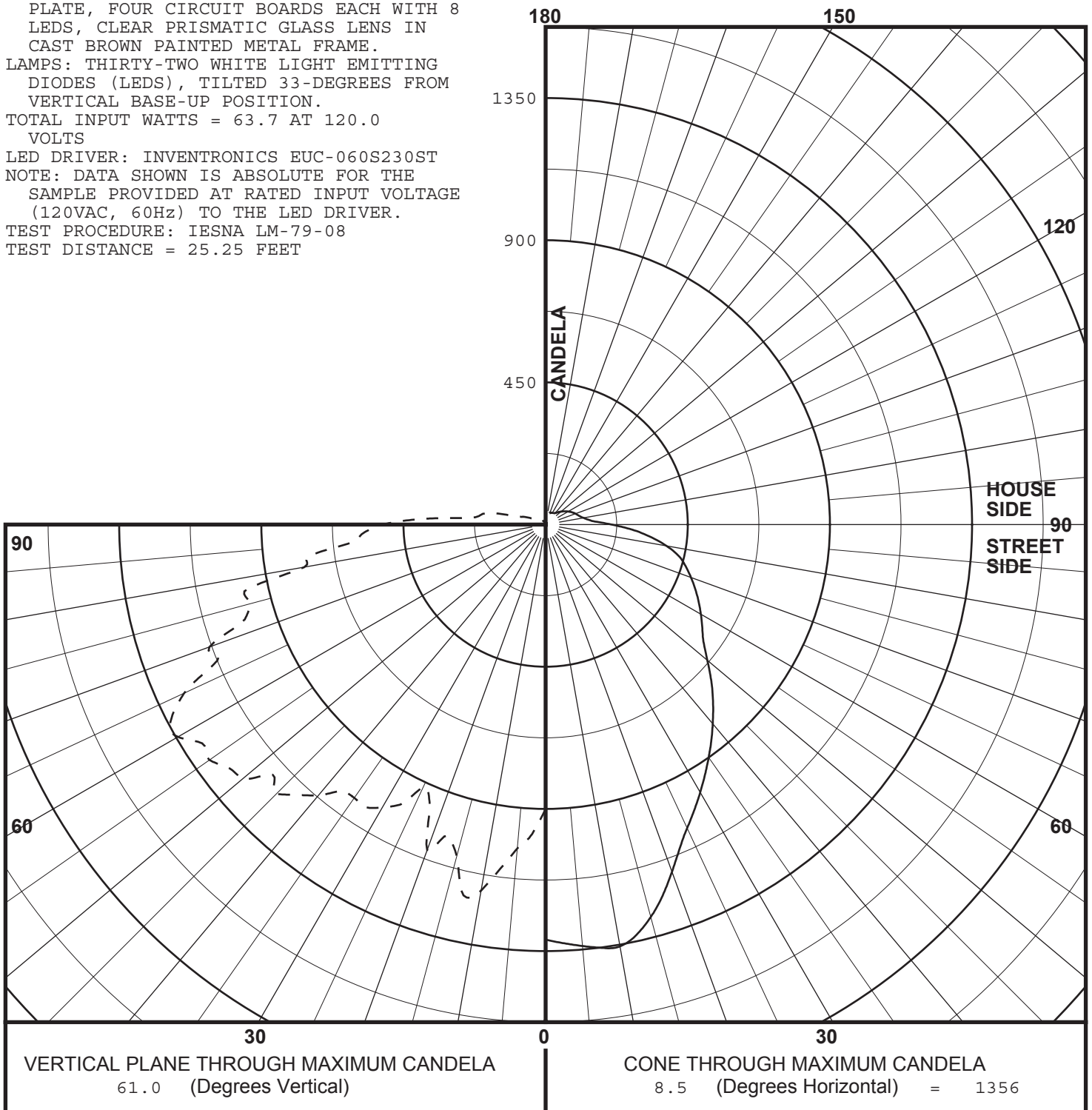
REPORT NUMBER: ITL69678  
 ISSUE DATE: 08/22/11 PAGE: 1 OF 7  
 PREPARED FOR: MAXLITE  
 CATALOG NUMBER: MLLWP60LED50  
 LUMINAIRE: CAST METAL HOUSING WITH UNFINISHED INTERIOR, FORMED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNTING PLATE, FOUR CIRCUIT BOARDS EACH WITH 8 LEDS, CLEAR PRISMATIC GLASS LENS IN CAST BROWN PAINTED METAL FRAME.  
 LAMPS: THIRTY-TWO WHITE LIGHT EMITTING DIODES (LEDS), TILTED 33-DEGREES FROM VERTICAL BASE-UP POSITION.  
 TOTAL INPUT WATTS = 63.7 AT 120.0 VOLTS  
 LED DRIVER: INVENTRONICS EUC-060S230ST  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.  
 TEST PROCEDURE: IESNA LM-79-08  
 TEST DISTANCE = 25.25 FEET





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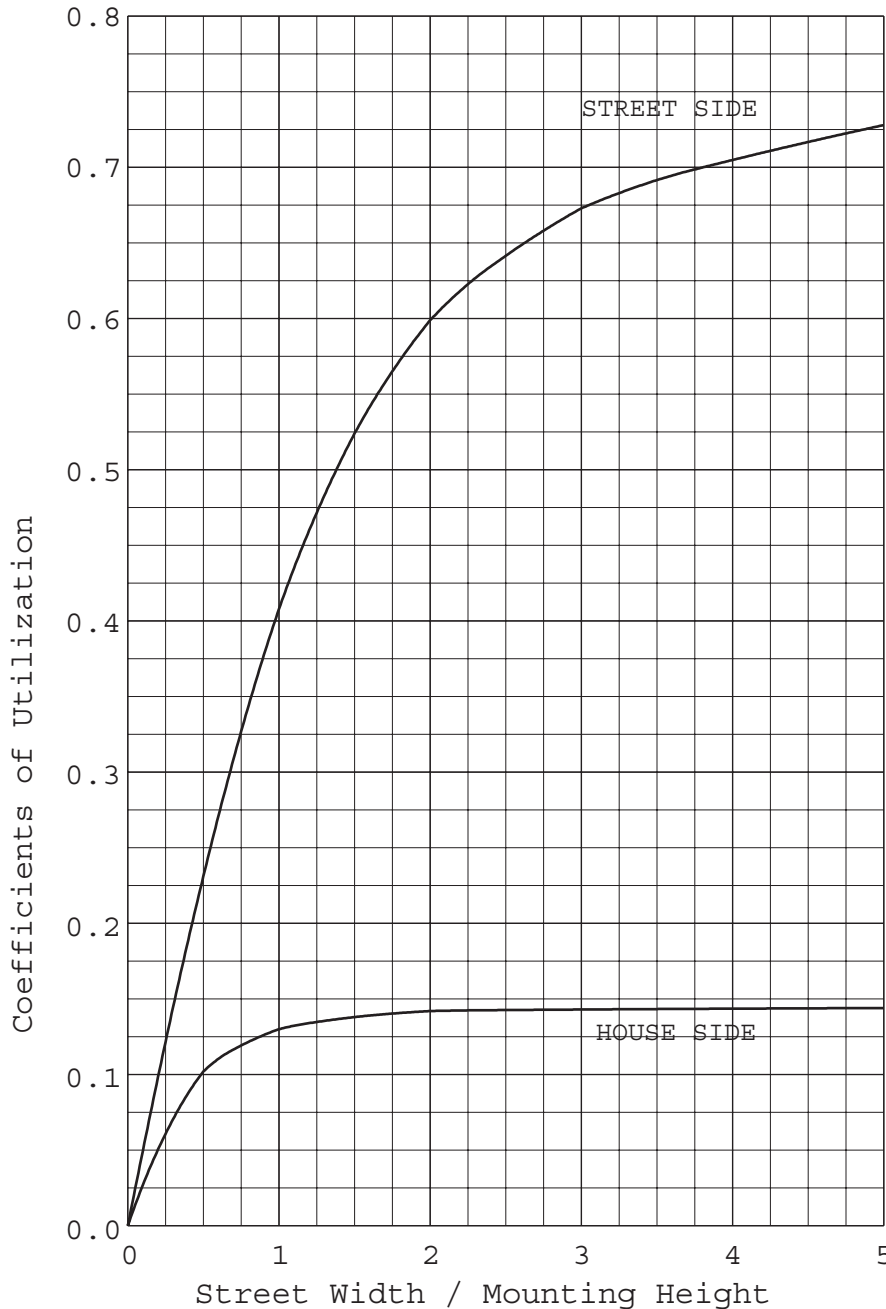
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	2233	79.0
DOWNWARD HOUSE SIDE	411	14.5
DOWNWARD TOTAL	2644	93.6
UPWARD STREET SIDE	174	6.2
UPWARD HOUSE SIDE	7	0.2
UPWARD TOTAL	181	6.4
TOTAL FLUX	2825	100.0
EFFICACY = 44.3 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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FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	2233.	79.0	
FL ( 0- 30)	408.1	14.4	
FM ( 30- 60)	970.9	34.4	
FH ( 60- 80)	661.5	23.4	G1
FVH( 80- 90)	192.4	6.8	G2
BACK LIGHT	411.	14.5	
BL ( 0- 30)	187.6	6.6	B1
BM ( 30- 60)	177.4	6.3	B0
BH ( 60- 80)	41.0	1.5	B0 G0
BVH( 80- 90)	4.9	0.2	G0
UPLIGHT	181.	6.4	
UL ( 90-100)	97.0	3.4	U3
UH (100-180)	84.0	3.0	U3
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	2825.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS  
 (PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B1 U3 G2



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CANDELA TABULATION

	STREET SIDE			LATERAL ANGLE							
	0.0	5.0	8.5	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	2.	2.	2.	2.	1.	1.	1.	1.	0.	0.
	155.0	8.	8.	8.	7.	7.	6.	4.	2.	2.	1.
	145.0	15.	15.	15.	15.	14.	13.	10.	7.	4.	2.
	135.0	25.	25.	25.	25.	24.	23.	20.	15.	10.	6.
	125.0	32.	33.	33.	32.	32.	31.	28.	23.	18.	13.
	115.0	42.	42.	42.	42.	43.	42.	40.	35.	27.	20.
	105.0	102.	103.	106.	106.	101.	98.	87.	66.	46.	30.
	95.0	235.	243.	245.	256.	256.	228.	185.	128.	86.	49.
	92.5	399.	402.	398.	393.	353.	281.	209.	149.	104.	58.
	90.0	504.	514.	516.	481.	411.	319.	242.	178.	126.	69.
	87.5	566.	576.	575.	546.	450.	373.	294.	218.	149.	87.
	85.0	585.	595.	608.	592.	530.	445.	342.	258.	174.	110.
V	82.5	733.	745.	752.	711.	598.	499.	412.	296.	206.	137.
E	80.0	723.	747.	776.	765.	690.	587.	443.	329.	244.	172.
R	77.5	940.	962.	977.	932.	761.	615.	499.	367.	278.	213.
T	75.0	928.	947.	970.	916.	786.	679.	530.	417.	314.	256.
I	72.5	953.	973.	999.	957.	841.	717.	591.	453.	348.	299.
C	70.0	1091.	1104.	1133.	1064.	908.	772.	651.	486.	390.	342.
A	67.5	1065.	1079.	1125.	1080.	950.	846.	687.	514.	434.	383.
L	65.0	1215.	1242.	1263.	1198.	1025.	888.	715.	551.	469.	416.
	62.5	1280.	1305.	1337.	1265.	1070.	906.	742.	590.	514.	440.
A	61.0<<	1314.	1339.	1356.	1286.	1060.	900.	747.	607.	529.	450.
N	60.0	1305.	1330.	1344.	1269.	1065.	919.	769.	627.	548.	464.
G	57.5	1263.	1280.	1289.	1233.	1053.	920.	783.	644.	582.	490.
L	55.0	1261.	1306.	1299.	1266.	1059.	931.	799.	662.	614.	505.
E	52.5	1235.	1272.	1265.	1228.	1042.	942.	813.	688.	621.	526.
	50.0	1249.	1278.	1251.	1230.	1044.	929.	813.	706.	636.	549.
	47.5	1169.	1178.	1172.	1165.	1026.	916.	823.	738.	653.	572.
	45.0	1204.	1214.	1206.	1175.	1029.	920.	823.	766.	681.	615.
	42.5	1151.	1179.	1161.	1133.	1014.	920.	835.	773.	715.	667.
	40.0	1113.	1127.	1119.	1099.	983.	904.	872.	774.	736.	707.
	37.5	1064.	1071.	1064.	1051.	968.	907.	876.	787.	751.	733.
	35.0	1061.	1067.	1056.	1028.	985.	960.	845.	811.	773.	760.
	30.0	1020.	1039.	1034.	1059.	956.	835.	839.	848.	882.	799.
	25.0	907.	914.	917.	887.	892.	943.	939.	926.	1017.	852.
	20.0	1081.	1093.	1096.	1072.	1028.	983.	995.	1106.	985.	892.
	15.0	1071.	1076.	1087.	1089.	1101.	1155.	1171.	1038.	974.	923.
	10.0	1185.	1180.	1176.	1174.	1139.	1107.	1090.	1033.	1000.	962.
	5.0	1035.	1033.	1029.	1027.	1032.	1040.	1036.	1010.	995.	965.
	0.0	901.	901.	901.	901.	901.	901.	901.	901.	901.	901.

||  
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE								
	90.0	95.0	105.0	115.0	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.
175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
145.0	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
135.0	3.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.
125.0	8.	6.	3.	1.	0.	0.	0.	0.	0.	0.	0.
115.0	13.	11.	7.	3.	1.	0.	0.	0.	0.	0.	0.
105.0	15.	14.	11.	6.	2.	0.	0.	0.	0.	0.	0.
95.0	16.	14.	14.	10.	4.	1.	0.	0.	0.	0.	0.
92.5	16.	15.	15.	11.	5.	2.	0.	0.	0.	0.	0.
90.0	17.	17.	17.	12.	5.	2.	0.	0.	0.	0.	0.
87.5	22.	20.	19.	13.	7.	3.	0.	0.	0.	0.	0.
85.0	29.	25.	23.	16.	8.	3.	1.	0.	0.	0.	0.
V 82.5	39.	32.	28.	19.	10.	4.	1.	0.	0.	0.	0.
E 80.0	50.	41.	35.	24.	12.	5.	2.	0.	0.	0.	0.
R 77.5	65.	52.	44.	30.	18.	7.	2.	0.	0.	0.	0.
T 75.0	82.	63.	54.	38.	23.	14.	5.	1.	0.	0.	0.
I 72.5	102.	76.	64.	46.	30.	20.	13.	6.	4.	1.	1.
C 70.0	124.	91.	75.	55.	37.	26.	20.	15.	13.	11.	12.
A 67.5	149.	106.	85.	66.	44.	33.	27.	22.	21.	20.	20.
L 65.0	172.	121.	95.	76.	53.	40.	34.	29.	27.	27.	28.
62.5	199.	136.	105.	87.	62.	48.	41.	38.	34.	33.	34.
A 61.0<<	209.	144.	109.	92.	73.	55.	44.	42.	37.	37.	37.
N 60.0	227.	154.	114.	98.	73.	56.	49.	45.	42.	40.	40.
G 57.5	249.	174.	125.	108.	84.	65.	57.	52.	51.	48.	47.
L 55.0	277.	195.	137.	118.	96.	76.	66.	60.	59.	57.	57.
E 52.5	300.	218.	151.	129.	109.	88.	76.	69.	66.	67.	67.
50.0	327.	245.	167.	140.	121.	102.	87.	80.	74.	73.	74.
47.5	356.	276.	184.	153.	133.	115.	100.	91.	85.	80.	81.
45.0	385.	307.	207.	168.	146.	128.	114.	103.	98.	93.	92.
42.5	420.	342.	233.	183.	162.	142.	129.	117.	111.	105.	105.
40.0	460.	383.	263.	202.	180.	155.	144.	133.	127.	122.	122.
37.5	498.	422.	293.	224.	198.	170.	159.	150.	143.	139.	139.
35.0	541.	460.	333.	249.	216.	184.	171.	166.	160.	155.	154.
30.0	634.	558.	427.	312.	255.	225.	197.	190.	185.	180.	178.
25.0	712.	647.	530.	402.	306.	269.	241.	220.	211.	202.	200.
20.0	771.	715.	637.	515.	397.	332.	301.	282.	266.	246.	242.
15.0	813.	766.	724.	652.	560.	471.	403.	369.	346.	327.	325.
10.0	878.	849.	797.	776.	725.	673.	623.	577.	532.	507.	503.
5.0	908.	895.	875.	852.	837.	824.	805.	785.	768.	762.	763.
0.0	901.	901.	901.	901.	901.	901.	901.	901.	901.	901.	901.

CONE OF MAXIMUM CANDELA



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