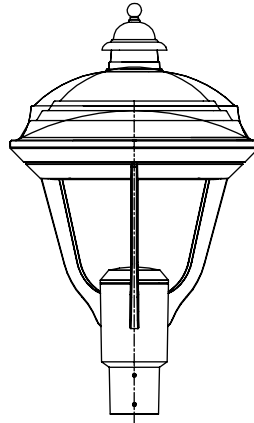


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 20 foot mounting height.



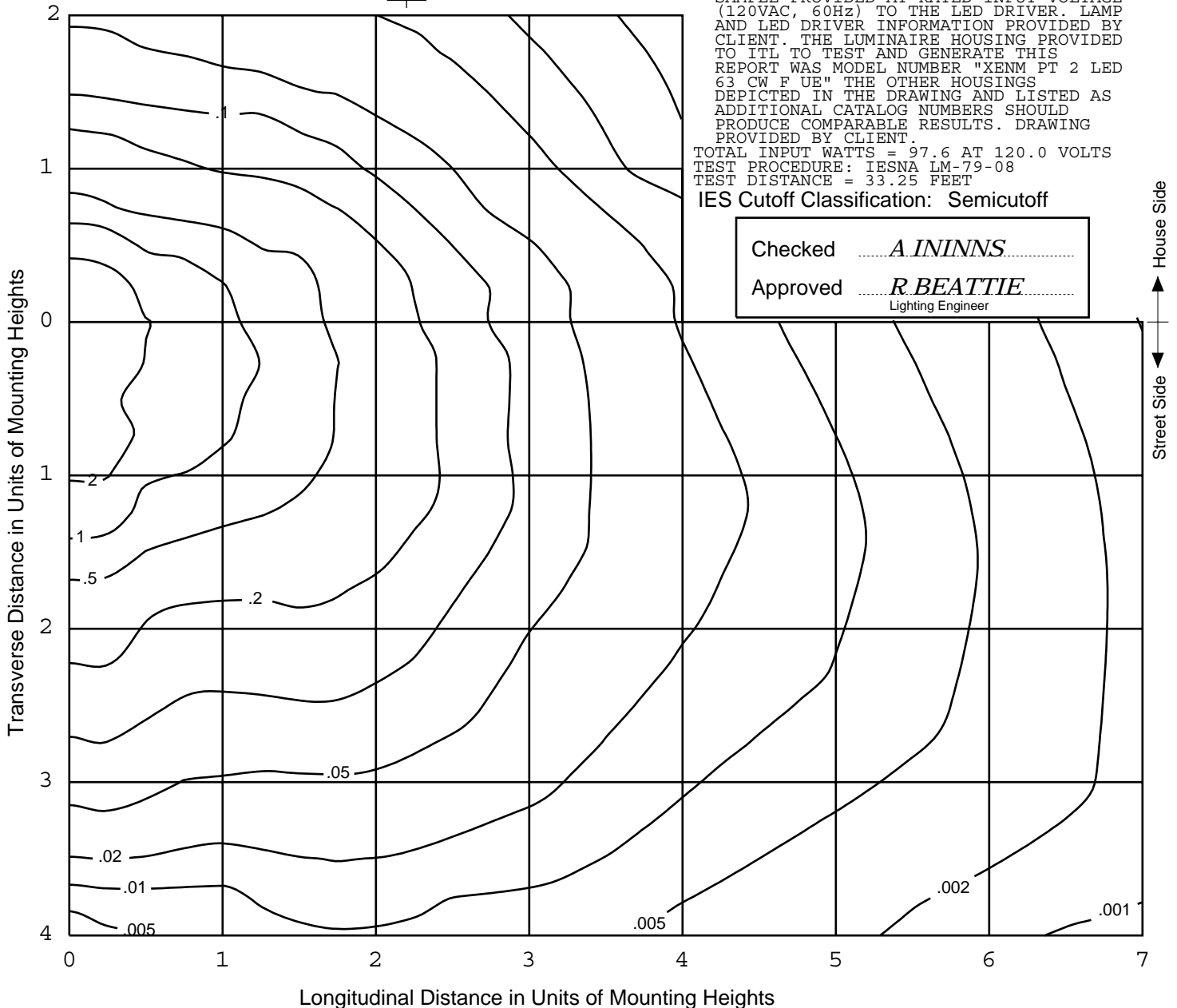
REPORT NUMBER: ITL68993
ISSUE DATE: 06/16/11 PAGE: 1 OF 7
PREPARED FOR: LSI INDUSTRIES, INC.
CATALOG NUMBER: XENM3/XINM3/XLXM3 PT 3
LED 63 450 CW UE
LUMINAIRE: CAST BROWN PAINTED METAL
POST TOP FITTER, CAST BROWN PAINTED
METAL POST TOP CAP, THREE FABRICATED
BROWN PAINTED METAL SUPPORT ARMS, FLAT
METAL CIRCUIT BOARD MOUNTING PLATE,
ONE CIRCUIT BOARD WITH 63 LEDS,
FABRICATED PREMIUM SPECULAR METAL
REFLECTOR, CAST BROWN PAINTED METAL
UPPER HOUSING WITH FORMED BLACK
PAINTED METAL TOP, CLEAR FLAT GLASS
LENS.

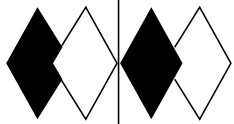
LAMPS: SIXTY-THREE 1.5-WATT WHITE LIGHT
EMITTING DIODES (LEDs) EACH WITH CLEAR
SEMI-HEMISPHERICAL INTEGRAL LENS,
VERTICAL BASE-UP POSITION.

LED DRIVER: LED ELECTRONIC 450mA DRIVER
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE LED DRIVER. LAMP
AND LED DRIVER INFORMATION PROVIDED BY
CLIENT. THE LUMINAIRE HOUSING PROVIDED
TO ITL TO TEST AND GENERATE THIS
REPORT WAS MODEL NUMBER "XENM PT 2 LED
63 CW F UE" THE OTHER HOUSINGS
DEPICTED IN THE DRAWING AND LISTED AS
ADDITIONAL CATALOG NUMBERS SHOULD
PRODUCE COMPARABLE RESULTS. DRAWING
PROVIDED BY CLIENT.

TOTAL INPUT WATTS = 97.6 AT 120.0 VOLTS
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 33.25 FEET

IES Cutoff Classification: Semicutoff





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NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.

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REPORT NUMBER: ITL68993

ISSUE DATE: 06/16/11 PAGE: 2 OF 7

PREPARED FOR: LSI INDUSTRIES, INC.

CATALOG NUMBER: XENM3/XINM3/XLXM3 PT 3

LED 63 450 CW UE

LUMINAIRE: CAST BROWN PAINTED METAL
POST TOP FITTER, CAST BROWN PAINTED
METAL POST TOP CAP, THREE FABRICATED
BROWN PAINTED METAL SUPPORT ARMS, FLAT
METAL CIRCUIT BOARD MOUNTING PLATE,
ONE CIRCUIT BOARD WITH 63 LEDS,
FABRICATED PREMIUM SPECULAR METAL
REFLECTOR, CAST BROWN PAINTED METAL
UPPER HOUSING WITH FORMED BLACK
PAINTED METAL TOP, CLEAR FLAT GLASS
LENS.

LAMPS: SIXTY-THREE 1.5-WATT WHITE LIGHT
EMITTING DIODES (LEDs) EACH WITH CLEAR
SEMI-HEMISPHERICAL INTEGRAL LENS,
VERTICAL BASE-UP POSITION.

LED DRIVER: LED ELECTRONIC 450mA DRIVER

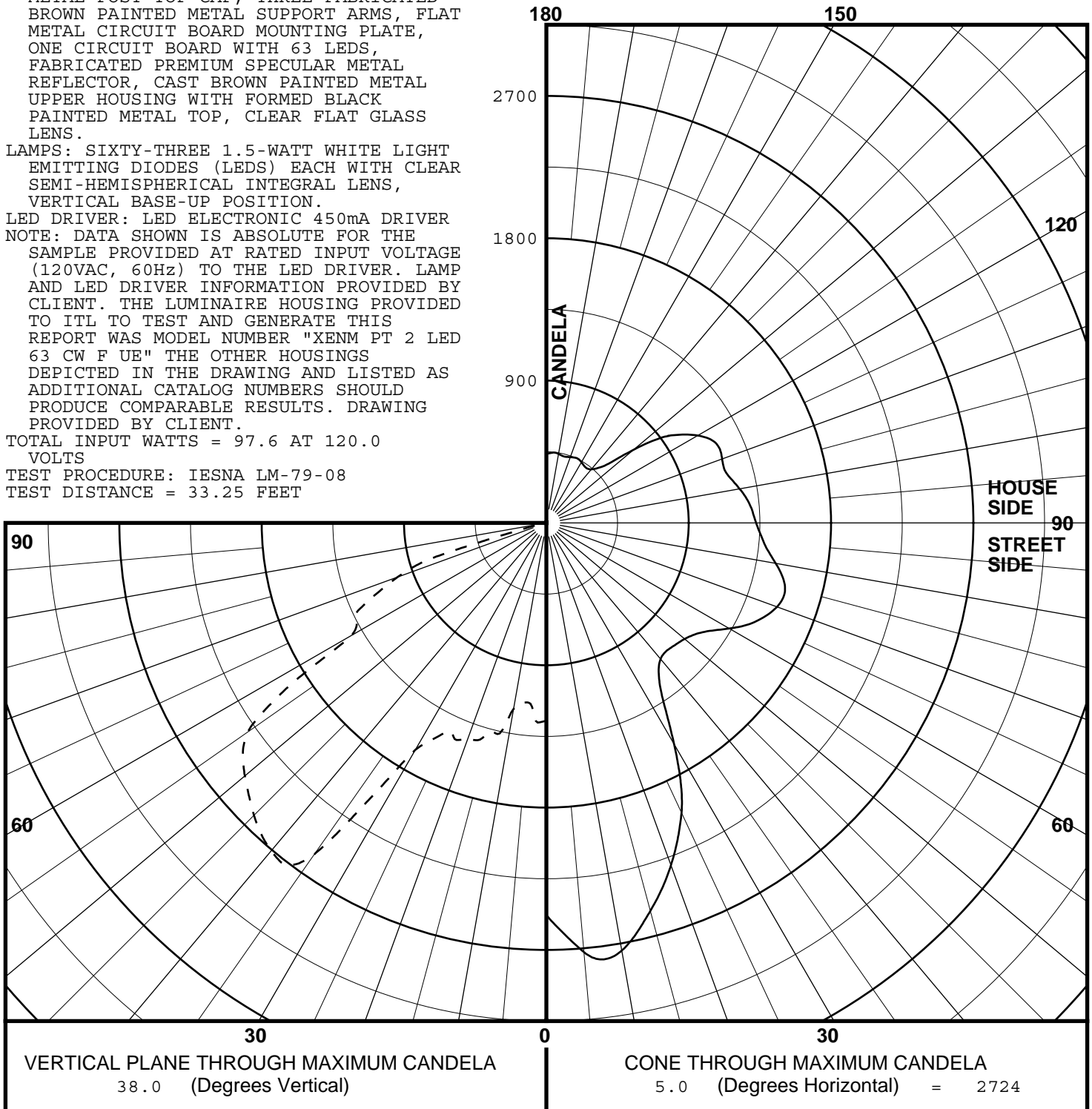
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE LED DRIVER. LAMP
AND LED DRIVER INFORMATION PROVIDED BY
CLIENT. THE LUMINAIRE HOUSING PROVIDED
TO ITL TO TEST AND GENERATE THIS
REPORT WAS MODEL NUMBER "XENM PT 2 LED
63 CW F UE" THE OTHER HOUSINGS
DEPICTED IN THE DRAWING AND LISTED AS
ADDITIONAL CATALOG NUMBERS SHOULD
PRODUCE COMPARABLE RESULTS. DRAWING
PROVIDED BY CLIENT.

TOTAL INPUT WATTS = 97.6 AT 120.0
VOLTS

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 33.25 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

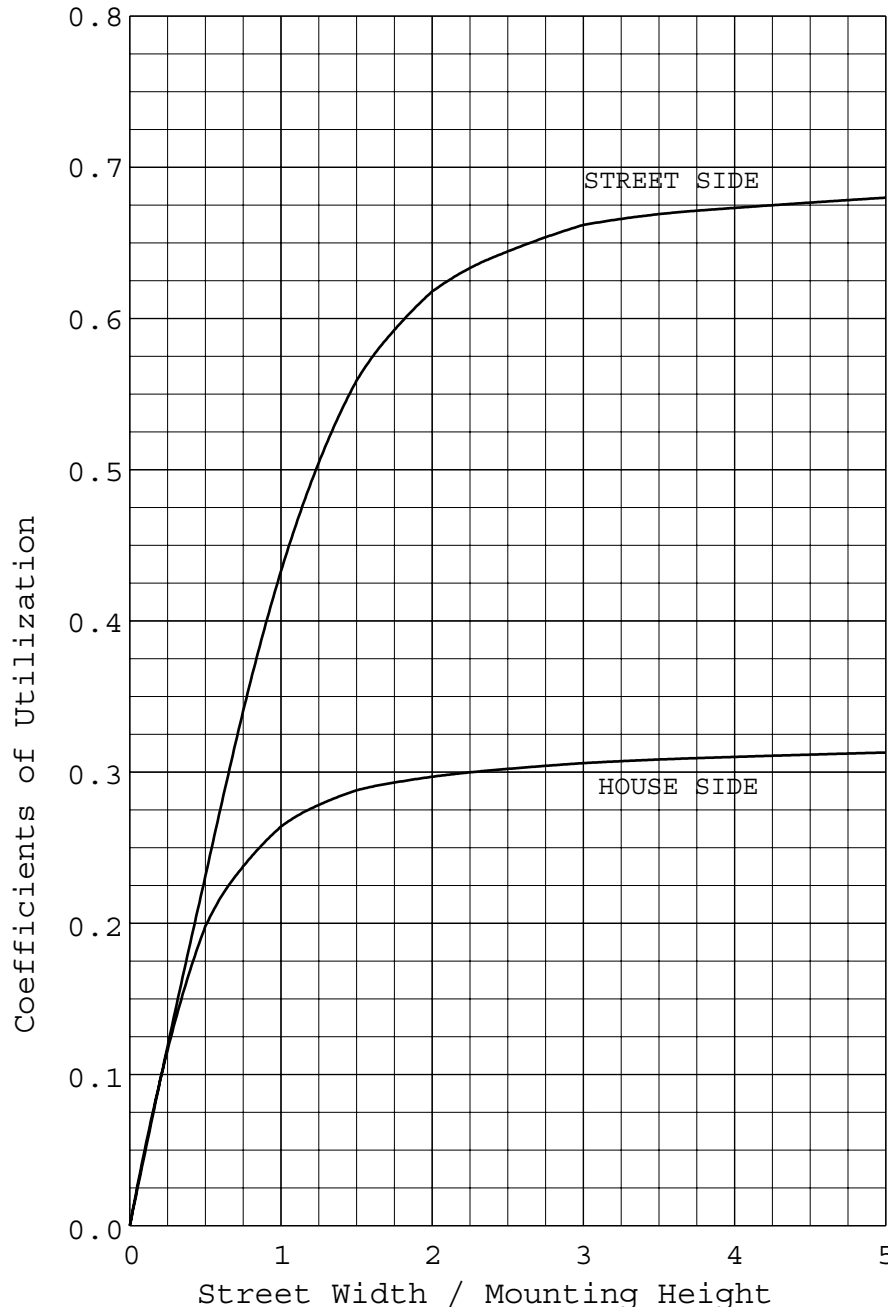




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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	3594	68.5
DOWNWARD HOUSE SIDE	1647	31.4
DOWNWARD TOTAL	5241	99.9
UPWARD STREET SIDE	1	0.0
UPWARD HOUSE SIDE	6	0.1
UPWARD TOTAL	7	0.1
TOTAL FLUX	5248	100.0
EFFICACY = 53.8 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-15-07, LUMINAIRE CLASSIFICATION
SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	3594.	68.5	
FL (0- 30)	532.5	10.1	
FM (30- 60)	1909.8	36.4	
FH (60- 80)	1107.6	21.1	G1
FVH(80- 90)	44.2	0.8	U1 G1
BACK LIGHT	1647.	31.4	
BL (0- 30)	478.8	9.1	B1
BM (30- 60)	789.1	15.0	B1
BH (60- 80)	359.3	6.8	B1 G1
BVH(80- 90)	20.1	0.4	U1 G1
UPLIGHT	7.	0.1	
UL (90-100)	0.5	0.0	U1
UH (100-180)	6.5	0.1	U1
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	5248.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(PER ADDENDUM A FOR IESNA TM-15-07)

BUG RATING: B1 U1 G1



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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
	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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	1.	0.	1.	2.	2.	3.	3.	3.
	125.0	0.	0.	0.	0.	1.	1.	2.	2.	3.	3.
	115.0	0.	0.	0.	0.	0.	0.	0.	1.	1.	2.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	3.	6.	3.	13.	8.	6.	3.	5.	3.	6.
	85.0	86.	72.	41.	61.	32.	22.	22.	57.	62.	45.
V	82.5	51.	37.	35.	53.	53.	148.	110.	293.	177.	119.
E	80.0	32.	35.	68.	197.	258.	280.	438.	661.	608.	371.
R	77.5	51.	61.	139.	322.	403.	677.	736.	812.	858.	545.
T	75.0	137.	177.	228.	559.	895.	1103.	979.	1092.	874.	675.
I	72.5	736.	815.	626.	785.	1251.	1420.	1334.	1380.	1151.	971.
C	70.0	927.	1001.	785.	898.	1328.	1570.	1629.	1856.	1255.	1193.
A	67.5	1089.	1156.	810.	877.	1204.	1586.	1939.	1879.	1570.	1396.
L	65.0	1185.	1314.	868.	865.	1095.	1761.	2014.	1898.	1573.	1497.
	62.5	1213.	1349.	849.	861.	1150.	1774.	1997.	1987.	1613.	1541.
A	60.0	1261.	1420.	909.	1118.	1398.	1694.	1877.	1954.	1785.	1702.
N	57.5	1675.	1950.	1293.	1333.	1478.	1651.	1877.	1809.	1893.	1696.
G	55.0	2108.	2305.	1648.	1347.	1548.	1686.	1877.	1677.	1829.	1608.
L	52.5	2194.	2419.	1995.	1361.	1564.	1731.	1813.	1624.	1791.	1481.
E	50.0	2264.	2489.	2221.	1396.	1564.	1750.	1661.	1536.	1764.	1463.
	47.5	2328.	2551.	2360.	1427.	1551.	1716.	1516.	1493.	1723.	1438.
	45.0	2379.	2614.	2431.	1462.	1556.	1586.	1407.	1506.	1646.	1390.
	42.5	2436.	2669.	2482.	1646.	1540.	1407.	1365.	1508.	1557.	1345.
	40.0	2468.	2707.	2527.	1914.	1423.	1216.	1288.	1500.	1567.	1357.
	38.0<<	2481.	2724.	2540.	2022.	1251.	1115.	1205.	1468.	1562.	1379.
	37.5	2481.	2719.	2533.	2006.	1208.	1099.	1197.	1460.	1559.	1388.
	35.0	2328.	2557.	2269.	1761.	1044.	1030.	1159.	1372.	1522.	1371.
	30.0	1557.	1657.	1559.	1455.	1154.	957.	1086.	1205.	1299.	1240.
	25.0	1385.	1452.	1363.	1419.	1376.	1212.	1022.	1070.	1076.	1068.
	20.0	1407.	1455.	1446.	1452.	1422.	1371.	1256.	1057.	1033.	1029.
	15.0	1331.	1369.	1484.	1395.	1441.	1400.	1229.	1207.	1236.	1218.
	10.0	1204.	1194.	1334.	1279.	1178.	1154.	1210.	1197.	1223.	1247.
	5.0	1169.	1148.	1115.	1175.	1220.	1251.	1229.	1286.	1255.	1220.
	0.0	1252.	1252.	1252.	1252.	1252.	1252.	1252.	1252.	1252.	1252.
		PLANE OF MAXIMUM CANDELA									
		CONE OF MAXIMUM CANDELA									



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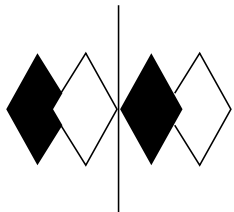
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CANDELA TABULATION

	HOUSE SIDE					LATERAL ANGLE				
	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
135.0	4.	4.	3.	4.	4.	5.	5.	5.	4.	5.
125.0	3.	3.	4.	4.	5.	5.	5.	5.	4.	5.
115.0	2.	2.	2.	2.	3.	3.	4.	3.	3.	3.
105.0	0.	1.	1.	1.	2.	1.	2.	2.	2.	2.
95.0	0.	0.	0.	0.	0.	0.	2.	2.	2.	3.
92.5	0.	0.	0.	0.	0.	0.	2.	3.	3.	3.
90.0	0.	0.	0.	0.	0.	2.	2.	3.	3.	3.
87.5	2.	3.	2.	2.	3.	3.	6.	6.	8.	6.
85.0	29.	10.	11.	10.	14.	16.	27.	33.	46.	29.
V 82.5	65.	30.	45.	25.	40.	56.	84.	110.	132.	115.
E 80.0	253.	83.	68.	67.	108.	86.	107.	116.	129.	156.
R 77.5	417.	129.	127.	110.	158.	199.	170.	108.	94.	99.
T 75.0	572.	236.	199.	156.	188.	194.	228.	177.	158.	166.
I 72.5	841.	425.	285.	236.	213.	194.	196.	189.	159.	159.
C 70.0	982.	538.	422.	283.	218.	220.	231.	220.	186.	185.
A 67.5	1196.	737.	482.	315.	245.	186.	215.	220.	231.	236.
L 65.0	1259.	912.	586.	451.	261.	194.	193.	178.	194.	204.
62.5	1259.	1121.	689.	487.	352.	210.	199.	178.	199.	188.
A 60.0	1377.	1320.	777.	497.	441.	232.	193.	193.	218.	217.
N 57.5	1466.	1425.	826.	519.	398.	312.	193.	194.	201.	226.
G 55.0	1420.	1377.	745.	517.	390.	328.	279.	205.	193.	207.
L 52.5	1336.	1247.	712.	527.	401.	339.	299.	312.	330.	325.
E 50.0	1280.	1191.	831.	546.	424.	347.	317.	323.	339.	344.
47.5	1269.	1173.	982.	552.	430.	353.	342.	347.	355.	360.
45.0	1275.	1205.	1122.	594.	454.	361.	360.	371.	382.	388.
42.5	1243.	1207.	1188.	646.	479.	384.	381.	395.	409.	414.
40.0	1243.	1199.	1202.	799.	482.	420.	400.	406.	431.	439.
38.0<<	1293.	1185.	1186.	965.	505.	430.	452.	435.	446.	436.
37.5	1298.	1183.	1183.	1009.	514.	433.	457.	455.	457.	443.
35.0	1294.	1194.	1111.	1091.	675.	465.	482.	505.	519.	522.
30.0	1201.	1113.	970.	994.	1056.	818.	685.	565.	597.	580.
25.0	1068.	968.	877.	963.	1185.	1371.	1376.	1216.	1213.	1105.
20.0	1035.	1025.	1052.	1097.	1212.	1328.	1331.	1395.	1403.	1427.
15.0	1237.	1188.	1248.	1199.	1169.	1172.	1210.	1237.	1286.	1302.
10.0	1282.	1236.	1226.	1197.	1197.	1145.	1140.	1084.	1137.	1137.
5.0	1236.	1261.	1232.	1161.	1154.	1146.	1153.	1162.	1205.	1194.
0.0	1252.	1252.	1252.	1252.	1252.	1252.	1252.	1252.	1252.	1252.

CONE OF MAXIMUM CANDELA



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