

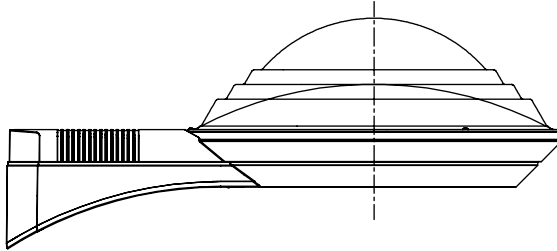
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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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 20 foot mounting height.



REPORT NUMBER: ITL64429
DATE: 03/19/10
PREPARED FOR: LSI INDUSTRIES, INC.
CATALOG NUMBER: XENM/XINM SA FT LED 63
CW F UE
LUMINAIRE: CAST BLACK PAINTED METAL HOUSING, FORMED BLACK PAINTED METAL TOP, FLAT METAL CIRCUIT BOARD MOUNTING PLATE, ONE CIRCUIT BOARD WITH 63 LEDS, FABRICATED PREMIUM SPECULAR METAL REFLECTOR WITH 2 "V" SHAPED INSERTS BELOW 18 LEDS, FLAT PREMIUM SPECULAR METAL REFLECTOR SURROUND, CLEAR FLAT GLASS LENS
LAMPS: SIXTY-THREE 1.15-WATT WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR SEMI-HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.
TOTAL INPUT WATTS = 77.3 AT 120.0 VOLTS
LED DRIVER: LED ELECTRONIC 350mA 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 SA FT 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.
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 25.25 FEET

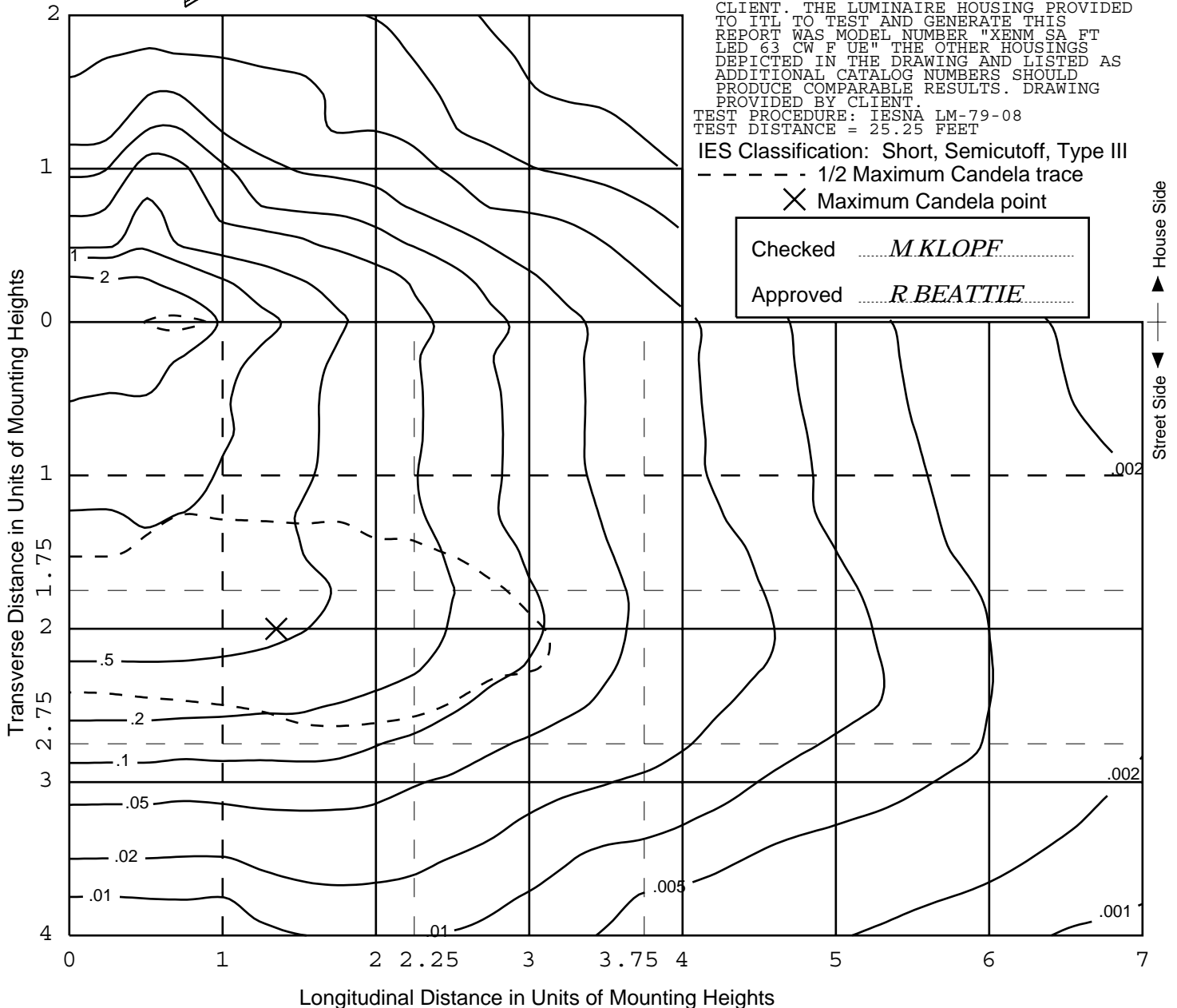
IES Classification: Short, Semicutoff, Type III

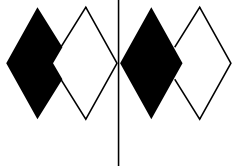
----- 1/2 Maximum Candela trace

X Maximum Candela point

Checked *M KLOPF*

Approved *R BEATTIE*





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PREPARED FOR: LSI INDUSTRIES, INC.

CATALOG NUMBER: XENM/XINM SA FT LED 63

CW F UE

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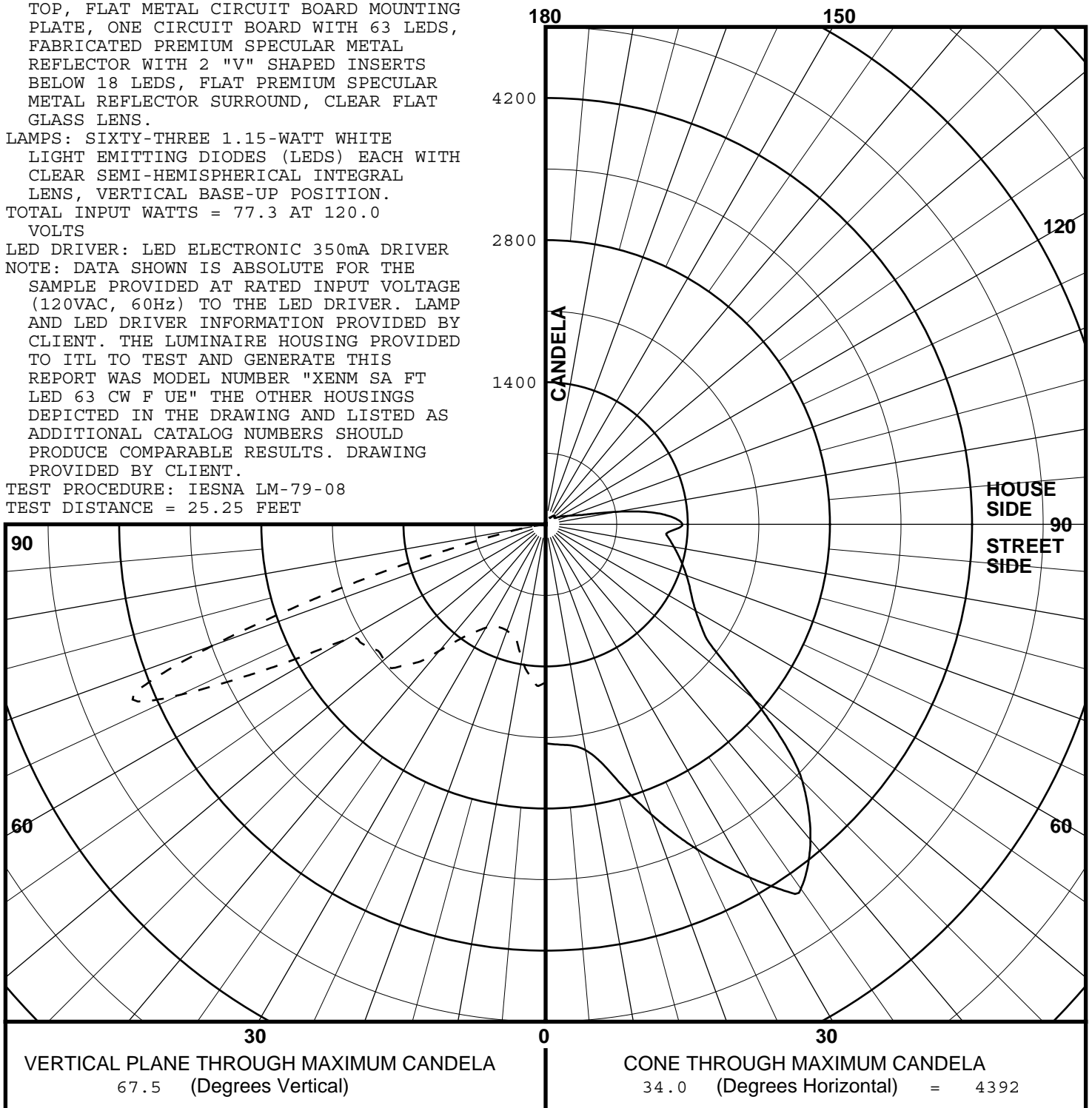
LED DRIVER: LED ELECTRONIC 350mA DRIVER

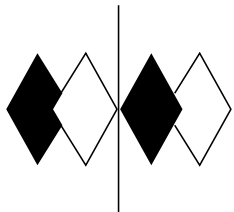
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TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





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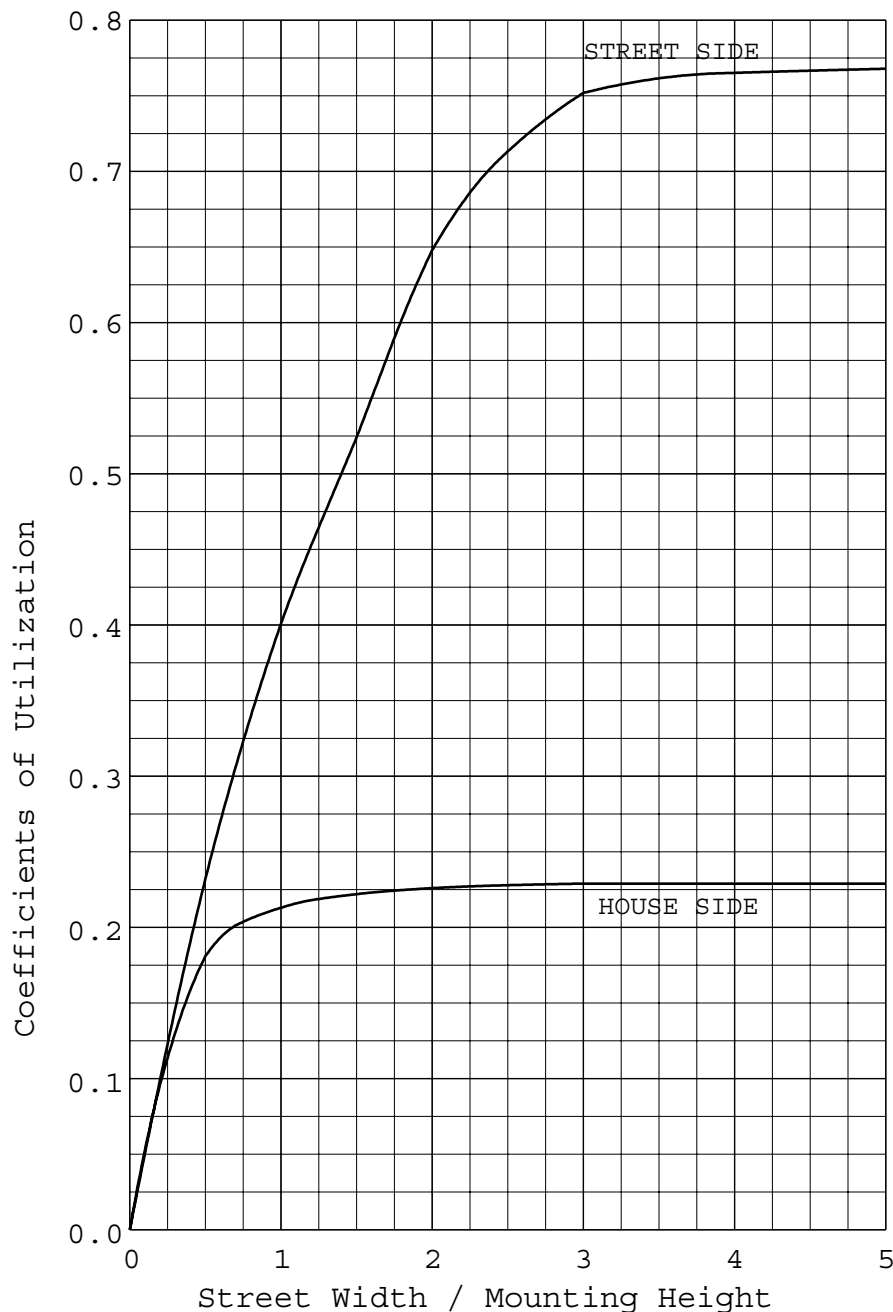
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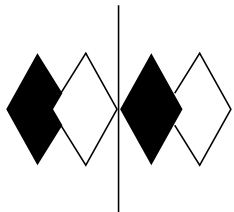
PREPARED FOR: LSI INDUSTRIES, INC.

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	4397.	77.0
DOWNWARD HOUSE SIDE	1315.	23.0
DOWNWARD TOTAL	5712.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	5712.	100.0
EFFICACY = 73.9 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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REPORT NUMBER: ITL64429

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PREPARED FOR: LSI INDUSTRIES, INC.

FLUX DISTRIBUTION BY SOLID ANGLE

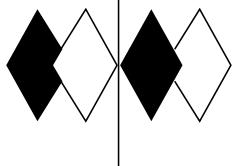
(PER IESNA TM-15-07, LUMINAIRE CLASSIFICATION
SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE
FORWARD LIGHT	4397.	77.0
FL (0- 30)		10.0
FM (30- 60)		34.4
FH (60- 80)		31.8
FVH(80- 90)		0.8
BACK LIGHT	1315.	23.0
BL (0- 30)		7.8
BM (30- 60)		11.7
BH (60- 80)		3.5
BVH(80- 90)		0.1
UPLIGHT	0.	0.0
UL (90-100)		0.0
UH (100-180)		0.0
TRAPPED LIGHT	0.	0.0
TOTAL FLUX	5712.	100.0

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

BUG RATING: B1 U1 G2	FIRST DETERMINING SECONDARY SOLID ANGLE*	LUMENS
BACKLIGHT RATING: B1	BH	197.7
UPLIGHT RATING : U1	FVH	44.0
GLARE RATING : G2	FH	1815.4

* NOTE: OTHER DETERMINING SOLID ANGLES MAY FALL INTO THIS SAME CATEGORY. ONLY THE FIRST DETERMINING ANGLES FROM THE TABLES A1-A3 IN THE ADDENDUM ARE SHOWN.



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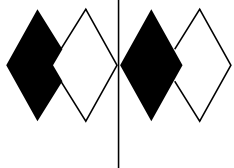
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CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE										
		0.0	5.0	15.0	25.0	34.0	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.
	87.5	1.	1.	2.	2.	2.	2.	2.	5.	5.	3.	6.
	85.0	4.	5.	9.	13.	13.	13.	19.	39.	50.	92.	47.
	82.5	12.	14.	22.	35.	68.	69.	58.	112.	295.	467.	166.
	80.0	35.	36.	51.	140.	241.	238.	171.	436.	921.	438.	317.
	77.5	87.	90.	113.	367.	518.	512.	613.	1322.	1370.	646.	509.
	75.0	236.	240.	299.	736.	1139.	1140.	1661.	2427.	1365.	820.	712.
	72.5	632.	643.	764.	1324.	2206.	2228.	3210.	2740.	1319.	1066.	942.
	70.0	1310.	1335.	1562.	2207.	3483.	3544.	4118.	2555.	1471.	1253.	1030.
	67.5<<	2157.	2182.	2557.	3535.	4392.	4384.	3574.	1918.	1577.	1378.	1195.
	65.0	3143.	3164.	3754.	4279.	3980.	3927.	2685.	2038.	1633.	1436.	1294.
	62.5	3418.	3401.	3672.	3994.	3093.	3024.	1971.	2023.	1744.	1500.	1415.
	60.0	3043.	3012.	2995.	3244.	2281.	2218.	2122.	1975.	1690.	1478.	1556.
	57.5	2375.	2346.	2207.	2433.	2164.	2170.	1982.	1927.	1646.	1476.	1667.
V	55.0	1748.	1717.	1603.	2258.	2120.	2103.	1921.	1812.	1575.	1449.	1703.
E	52.5	1609.	1620.	1698.	2104.	2065.	2060.	1971.	1723.	1477.	1393.	1723.
R	50.0	1580.	1576.	1565.	1931.	2077.	2080.	1991.	1699.	1409.	1350.	1718.
T	47.5	1511.	1507.	1510.	1775.	2088.	2098.	2019.	1666.	1378.	1348.	1792.
I	45.0	1464.	1464.	1477.	1703.	1964.	1980.	1964.	1629.	1372.	1378.	1920.
C	42.5	1465.	1464.	1465.	1584.	1835.	1847.	1822.	1584.	1391.	1423.	1984.
A	40.0	1415.	1414.	1410.	1469.	1624.	1633.	1677.	1525.	1440.	1497.	2046.
L	37.5	1365.	1363.	1351.	1362.	1453.	1456.	1524.	1486.	1495.	1606.	2246.
	35.0	1306.	1304.	1292.	1282.	1329.	1327.	1420.	1442.	1580.	1723.	2375.
A	32.5	1247.	1243.	1227.	1237.	1245.	1248.	1265.	1380.	1621.	1830.	2400.
N	30.0	1183.	1180.	1175.	1177.	1176.	1176.	1194.	1298.	1583.	1885.	2388.
G	27.5	1150.	1146.	1139.	1122.	1141.	1144.	1157.	1230.	1476.	1826.	2286.
L	25.0	1097.	1096.	1094.	1093.	1115.	1117.	1147.	1206.	1393.	1710.	2098.
E	22.5	1077.	1078.	1082.	1089.	1110.	1112.	1149.	1192.	1348.	1636.	1951.
	20.0	1078.	1081.	1088.	1098.	1114.	1116.	1156.	1202.	1382.	1622.	1870.
	17.5	1095.	1099.	1103.	1115.	1133.	1134.	1165.	1266.	1438.	1610.	1810.
	15.0	1124.	1128.	1129.	1136.	1155.	1156.	1226.	1342.	1483.	1602.	1750.
	12.5	1151.	1154.	1162.	1187.	1238.	1240.	1315.	1420.	1504.	1590.	1654.
	10.0	1256.	1259.	1273.	1302.	1348.	1350.	1413.	1466.	1519.	1578.	1590.
	7.5	1395.	1396.	1406.	1427.	1451.	1451.	1477.	1508.	1552.	1589.	1575.
	5.0	1493.	1494.	1496.	1506.	1520.	1521.	1541.	1564.	1586.	1587.	1565.
	2.5	1591.	1594.	1591.	1592.	1594.	1593.	1594.	1588.	1580.	1571.	1560.
	0.0	1557.	1557.	1557.	1557.	1557.	1557.	1557.	1557.	1557.	1557.	1557.
						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
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	5.	2.	2.	1.	1.	1.	0.	0.	0.	0.
	85.0	36.	12.	8.	14.	8.	8.	3.	2.	0.	0.
	82.5	138.	48.	32.	33.	15.	17.	14.	10.	5.	2.
	80.0	277.	134.	53.	53.	29.	26.	18.	15.	13.	8.
	77.5	480.	269.	96.	88.	40.	36.	29.	18.	16.	13.
	75.0	721.	446.	172.	90.	68.	58.	43.	24.	19.	16.
	72.5	932.	644.	180.	91.	94.	85.	63.	34.	25.	21.
	70.0	1162.	853.	228.	111.	112.	110.	74.	45.	35.	28.
	67.5<<	1347.	1152.	352.	187.	107.	124.	83.	59.	49.	36.
	65.0	1418.	1342.	503.	234.	98.	120.	96.	74.	58.	46.
	62.5	1608.	1476.	605.	257.	127.	96.	100.	78.	70.	56.
	60.0	1846.	1625.	695.	254.	165.	103.	99.	102.	78.	59.
	57.5	1975.	1695.	781.	277.	180.	152.	124.	176.	82.	58.
V	55.0	1953.	1688.	884.	298.	176.	220.	244.	219.	77.	53.
E	52.5	1934.	1660.	984.	285.	196.	287.	351.	253.	65.	46.
R	50.0	1935.	1626.	1073.	324.	248.	338.	367.	321.	74.	51.
T	47.5	1981.	1640.	1187.	429.	301.	384.	373.	333.	121.	84.
I	45.0	2086.	1704.	1307.	530.	322.	479.	436.	211.	119.	106.
C	42.5	2122.	1736.	1408.	662.	371.	606.	612.	216.	117.	113.
A	40.0	2158.	1788.	1479.	837.	499.	648.	595.	289.	122.	115.
L	37.5	2320.	1927.	1509.	1019.	623.	658.	431.	228.	121.	116.
	35.0	2400.	1984.	1532.	1173.	709.	631.	375.	174.	128.	119.
A	32.5	2420.	2012.	1558.	1305.	857.	550.	345.	163.	149.	130.
N	30.0	2345.	2019.	1573.	1379.	961.	555.	337.	200.	166.	151.
G	27.5	2295.	2001.	1542.	1346.	1025.	657.	409.	278.	215.	189.
L	25.0	2106.	1894.	1468.	1278.	1075.	810.	537.	384.	313.	274.
E	22.5	1939.	1793.	1430.	1247.	1135.	947.	713.	544.	440.	395.
	20.0	1851.	1751.	1449.	1269.	1172.	1037.	885.	747.	640.	588.
	17.5	1784.	1720.	1468.	1283.	1175.	1107.	1017.	928.	856.	818.
	15.0	1719.	1664.	1449.	1286.	1191.	1141.	1103.	1060.	1017.	991.
	12.5	1616.	1571.	1429.	1306.	1230.	1178.	1147.	1132.	1115.	1106.
	10.0	1565.	1537.	1451.	1352.	1281.	1234.	1197.	1177.	1165.	1160.
	7.5	1555.	1537.	1483.	1412.	1346.	1301.	1267.	1249.	1234.	1228.
	5.0	1553.	1542.	1513.	1475.	1433.	1394.	1365.	1347.	1331.	1328.
	2.5	1554.	1550.	1537.	1524.	1511.	1498.	1489.	1482.	1475.	1474.
	0.0	1557.	1557.	1557.	1557.	1557.	1557.	1557.	1557.	1557.	1557.

CONE OF MAXIMUM CANDELA