

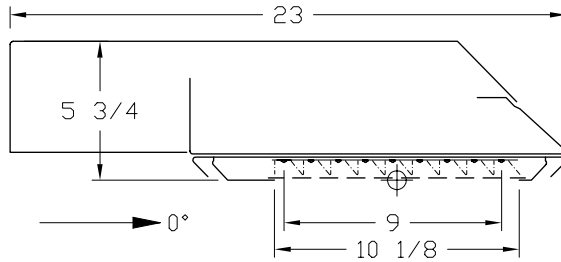
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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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: ITL65476
ISSUE DATE: 03/25/11 PAGE: 1 OF 6
DATE SAMPLE TESTED: 07/21/10
PREPARED FOR: LSI INDUSTRIES, INC.
CATALOG NUMBER: XAS3/XRS3/XAWS3/XENM3
SA/XINM3 SA FT LED 63 450 CW UE
LUMINAIRE: FABRICATED BROWN PAINTED METAL HOUSING, 7 ROWS OF 9 LEDS, FABRICATED PREMIUM SPECULAR METAL REFLECTOR WITH 2 "V" SHAPED INSERTS BELOW 18 LEDS, CLEAR FLAT GLASS LENS IN FABRICATED BROWN PAINTED METAL LENS FRAME.
LAMPS: SIXTY-THREE 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. LED DRIVER INFORMATION PROVIDED BY CLIENT.
TOTAL INPUT WATTS = 99.7 AT 120.0 VOLTS
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 33.25 FEET

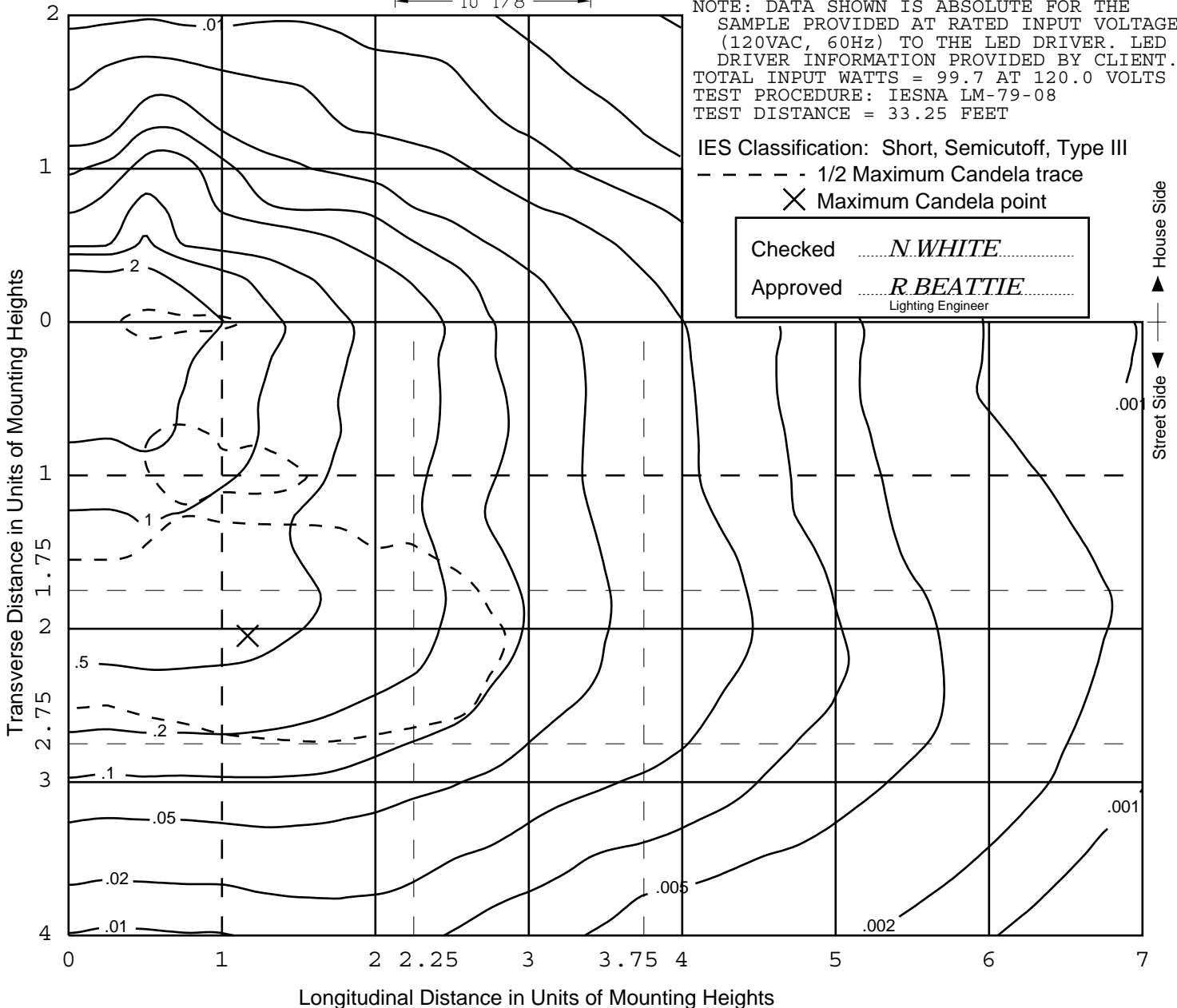
IES Classification: Short, Semicutoff, Type III

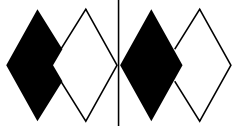
--- 1/2 Maximum Candela trace

X Maximum Candela point

Checked N. WHITE

Approved R. BEATTIE
Lighting Engineer





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PREPARED FOR: LSI INDUSTRIES, INC.

CATALOG NUMBER: XAS3/XRS3/XAWS3/XENM3

SA/XINM3 SA FT LED 63 450 CW UE

LUMINAIRE: FABRICATED BROWN PAINTED
METAL HOUSING, 7 ROWS OF 9 LEDS,
FABRICATED PREMIUM SPECULAR METAL
REFLECTOR WITH 2 "V" SHAPED INSERTS
BELOW 18 LEDS, CLEAR FLAT GLASS LENS
IN FABRICATED BROWN PAINTED METAL LENS
FRAME.

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

LED DRIVER: LED ELECTRONIC 450mA DRIVER

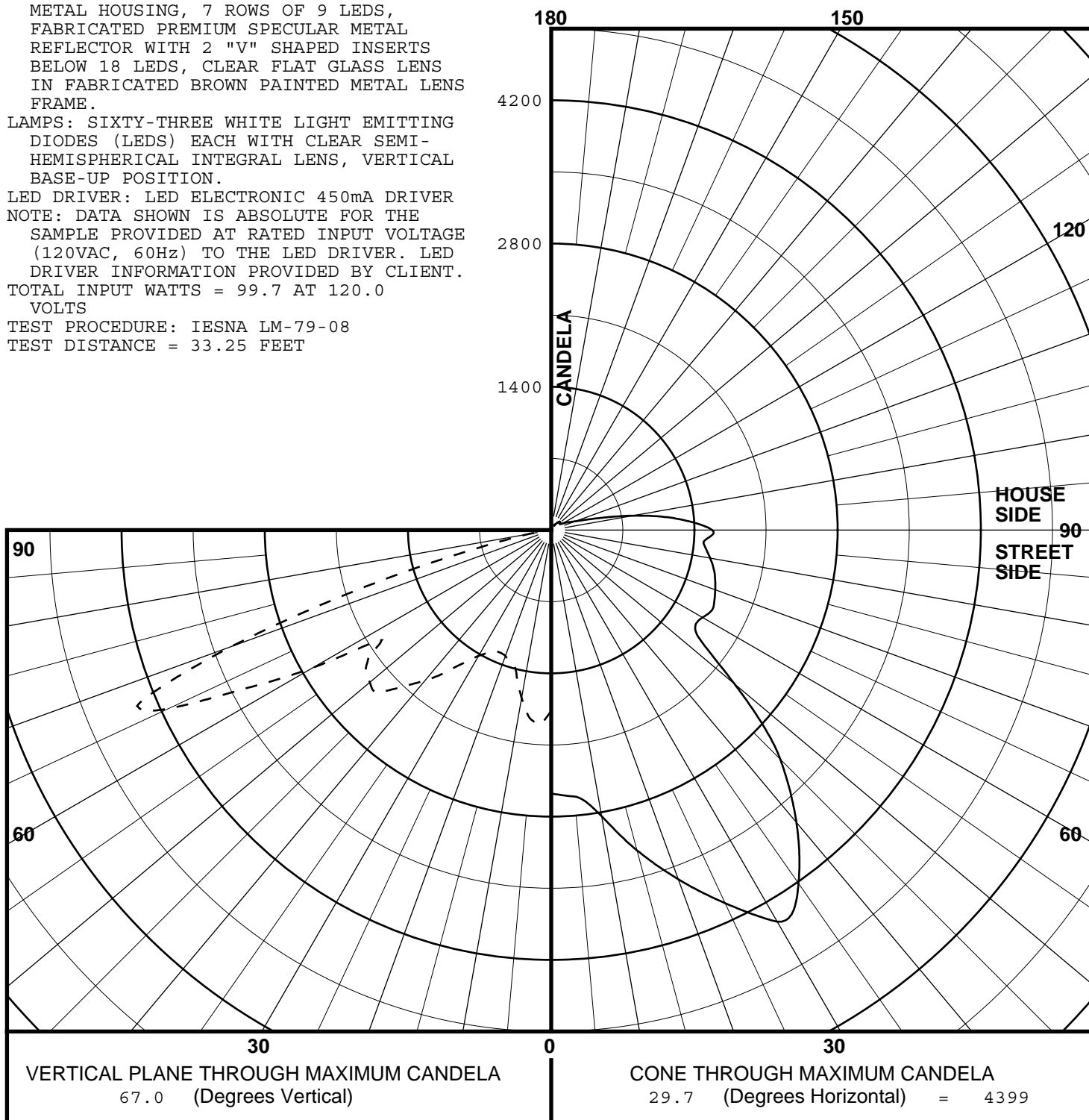
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE LED DRIVER. LED
DRIVER INFORMATION PROVIDED BY CLIENT.

TOTAL INPUT WATTS = 99.7 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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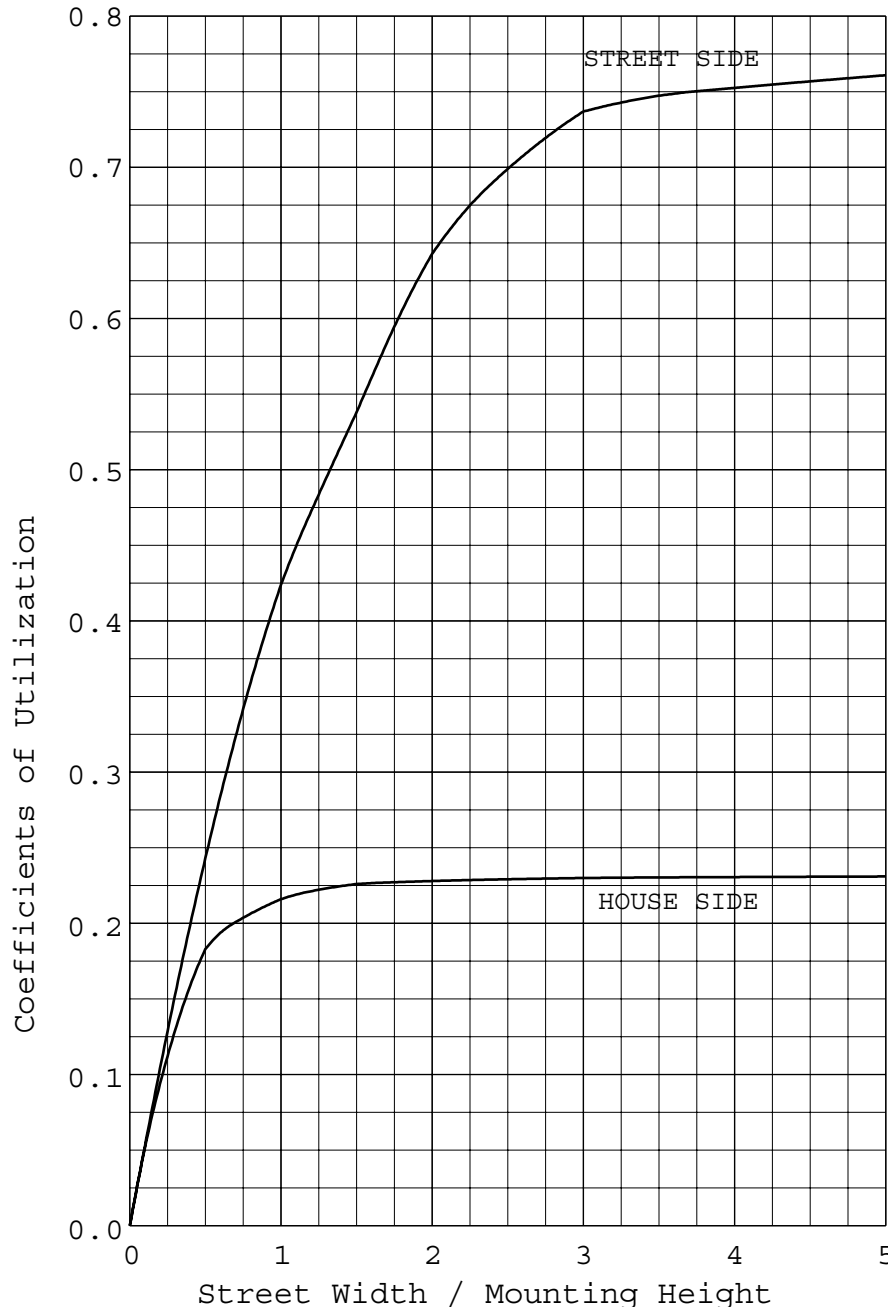
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PAGE: 3 OF 6
DATE SAMPLE TESTED: 07/21/10

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	4881	76.5
DOWNWARD HOUSE SIDE	1503	23.5
DOWNWARD TOTAL	6384	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	6384	100.0
EFFICACY = 64.0 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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PAGE: 4 OF 6
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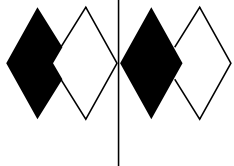
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	4881.	76.5	
FL (0- 30)	701.6	11.0	
FM (30- 60)	2257.9	35.4	
FH (60- 80)	1889.5	29.6	G2
FVH(80- 90)	32.2	0.5	U1 G1
BACK LIGHT	1503.	23.5	
BL (0- 30)	521.0	8.2	B2
BM (30- 60)	770.0	12.1	B1
BH (60- 80)	203.7	3.2	B1 G1
BVH(80- 90)	8.5	0.1	U0 G0
UPLIGHT	0.	0.0	
UL (90-100)	0.0	0.0	U0
UH (100-180)	0.0	0.0	U0
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	6384.	100.0	

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

BUG RATING: B2 U1 G2



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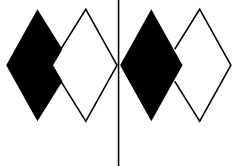
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PAGE: 5 OF 6
DATE SAMPLE TESTED: 07/21/10

CANDELA TABULATION

	STREET SIDE										
	0.0	5.0	15.0	25.0	29.7	35.0	45.0	55.0	65.0	75.0	85.0
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	3.	0.	0.	0.	2.	3.	0.	3.	5.	5.
	85.0	3.	3.	8.	6.	8.	9.	11.	23.	29.	31.
	82.5	12.	11.	22.	28.	41.	45.	46.	86.	169.	275.
	80.0	40.	40.	63.	178.	217.	152.	158.	484.	717.	341.
	77.5	108.	100.	152.	418.	498.	498.	691.	1280.	1224.	594.
	75.0	372.	339.	484.	897.	1131.	1269.	2035.	1994.	1280.	828.
	72.5	885.	839.	1064.	1705.	2147.	2539.	3183.	2484.	1046.	1038.
	70.0	1625.	1565.	2021.	2963.	3324.	3673.	3902.	2487.	1455.	1378.
	67.5	2488.	2436.	3020.	3911.	4319.	4272.	3350.	1785.	1730.	1648.
	67.0<<	2574.	2614.	3240.	4023.	4399.	4215.	3167.	1723.	1753.	1654.
	65.0	3149.	3112.	4043.	4335.	4132.	3639.	2594.	2014.	1902.	1705.
	62.5	3370.	3330.	3723.	3753.	3333.	2917.	1849.	2197.	2101.	1785.
	60.0	2915.	2849.	2889.	3049.	2691.	2163.	2141.	2309.	2025.	1782.
V	57.5	2261.	2220.	2138.	2287.	2008.	1957.	2287.	2338.	1957.	1696.
E	55.0	1736.	1708.	1564.	2006.	2181.	2281.	2281.	2300.	1951.	1702.
R	52.5	1456.	1453.	1627.	2260.	2283.	2275.	2296.	2170.	1915.	1765.
T	50.0	1680.	1705.	1723.	2147.	2315.	2378.	2332.	2080.	1825.	1809.
I	47.5	1665.	1674.	1685.	2084.	2339.	2419.	2318.	2035.	1727.	1748.
C	45.0	1699.	1707.	1743.	2021.	2203.	2378.	2379.	1988.	1660.	1677.
A	42.5	1717.	1727.	1747.	1934.	2052.	2261.	2338.	1958.	1653.	1670.
L	40.0	1680.	1691.	1679.	1811.	1917.	2071.	2174.	1882.	1673.	1762.
	37.5	1637.	1642.	1634.	1677.	1785.	1857.	1982.	1820.	1722.	1869.
A	35.0	1591.	1598.	1584.	1591.	1633.	1667.	1786.	1745.	1779.	1975.
N	32.5	1542.	1541.	1516.	1510.	1515.	1516.	1576.	1664.	1882.	2149.
G	30.0	1465.	1459.	1439.	1421.	1419.	1425.	1421.	1570.	1888.	2235.
L	27.5	1395.	1390.	1381.	1367.	1355.	1347.	1362.	1518.	1802.	2232.
E	25.0	1352.	1344.	1333.	1309.	1307.	1316.	1350.	1476.	1766.	2143.
	22.5	1287.	1287.	1287.	1292.	1298.	1312.	1366.	1458.	1780.	2243.
	20.0	1281.	1280.	1293.	1304.	1310.	1327.	1382.	1519.	1829.	2192.
	17.5	1306.	1301.	1315.	1333.	1346.	1364.	1413.	1625.	1885.	2169.
	15.0	1339.	1341.	1352.	1367.	1382.	1421.	1551.	1725.	1945.	2127.
	12.5	1398.	1392.	1421.	1468.	1519.	1561.	1685.	1814.	1977.	2066.
	10.0	1579.	1547.	1602.	1639.	1664.	1713.	1797.	1888.	1945.	1942.
	7.5	1736.	1733.	1750.	1780.	1806.	1837.	1879.	1905.	1912.	1906.
	5.0	1874.	1866.	1877.	1885.	1883.	1891.	1897.	1894.	1889.	1872.
	2.5	1883.	1883.	1883.	1883.	1879.	1880.	1877.	1871.	1859.	1833.
	0.0	1766.	1766.	1766.	1766.	1766.	1766.	1766.	1766.	1766.	1766.
					PLANE OF MAXIMUM CANDELA						
					CONE OF MAXIMUM CANDELA						



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PAGE: 6 OF 6
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CANDELA TABULATION

	HOUSE SIDE										
	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.	3.	3.	5.	3.	3.	3.	3.	3.	3.
	85.0	20.	9.	8.	17.	12.	8.	6.	5.	5.	3.
	82.5	118.	61.	37.	20.	23.	23.	23.	15.	12.	9.
	80.0	190.	137.	72.	38.	28.	28.	35.	32.	28.	26.
	77.5	450.	290.	126.	74.	31.	22.	26.	28.	26.	28.
	75.0	642.	484.	163.	109.	72.	28.	25.	18.	15.	18.
	72.5	849.	657.	235.	127.	118.	46.	37.	18.	15.	14.
	70.0	1035.	810.	301.	163.	131.	69.	52.	23.	20.	15.
	67.5	1531.	1198.	402.	167.	103.	108.	69.	34.	29.	18.
	67.0<<	1574.	1246.	427.	183.	101.	117.	69.	40.	28.	18.
	65.0	1673.	1349.	636.	238.	112.	109.	78.	43.	38.	26.
	62.5	1774.	1447.	777.	266.	160.	106.	89.	63.	57.	40.
	60.0	1865.	1633.	894.	275.	183.	108.	98.	95.	72.	51.
V	57.5	1948.	1747.	992.	257.	190.	174.	120.	135.	84.	52.
E	55.0	1911.	1765.	1106.	283.	229.	237.	241.	198.	86.	54.
R	52.5	2023.	1834.	1300.	367.	247.	327.	425.	270.	57.	43.
T	50.0	2134.	1923.	1444.	465.	286.	415.	430.	310.	91.	55.
I	47.5	2310.	1963.	1528.	544.	361.	430.	418.	335.	166.	94.
C	45.0	2304.	1917.	1561.	704.	381.	475.	476.	246.	129.	104.
A	42.5	2402.	1928.	1604.	900.	376.	574.	651.	249.	127.	111.
L	40.0	2353.	1935.	1673.	1101.	551.	665.	745.	389.	131.	115.
	37.5	2312.	1968.	1745.	1310.	799.	794.	531.	332.	137.	129.
A	35.0	2409.	2049.	1762.	1464.	1046.	843.	462.	246.	143.	132.
N	32.5	2602.	2154.	1790.	1599.	1209.	806.	447.	194.	158.	143.
G	30.0	2559.	2154.	1797.	1642.	1321.	817.	445.	209.	171.	163.
L	27.5	2548.	2152.	1774.	1633.	1343.	911.	542.	335.	237.	204.
E	25.0	2367.	2052.	1660.	1539.	1339.	1040.	714.	499.	398.	347.
	22.5	2309.	2008.	1581.	1473.	1367.	1172.	931.	704.	604.	513.
	20.0	2221.	1963.	1591.	1458.	1390.	1263.	1106.	940.	851.	783.
	17.5	2170.	1966.	1633.	1459.	1389.	1315.	1229.	1120.	1083.	1002.
	15.0	2092.	1931.	1637.	1453.	1386.	1350.	1306.	1257.	1227.	1195.
	12.5	1957.	1823.	1608.	1461.	1396.	1369.	1352.	1330.	1315.	1296.
	10.0	1823.	1747.	1602.	1495.	1432.	1392.	1375.	1361.	1359.	1350.
	7.5	1799.	1739.	1631.	1550.	1479.	1430.	1404.	1395.	1390.	1381.
	5.0	1783.	1742.	1670.	1604.	1556.	1504.	1476.	1450.	1453.	1435.
	2.5	1773.	1750.	1704.	1664.	1631.	1602.	1578.	1562.	1562.	1556.
	0.0	1766.	1766.	1766.	1766.	1766.	1766.	1766.	1766.	1766.	1766.

CONE OF MAXIMUM CANDELA