

itl boulder
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: ITL65548

ISSUE DATE: 03/25/11 PAGE: 1 OF 6

DATE SAMPLE TESTED: 07/28/10

PREPARED FOR: LSI INDUSTRIES, INC.

CATALOG NUMBER: XAS3/XRS3/XAWS3/XENM3

SA/XINM3 SA 3 LED 63 450 CW UE

LUMINAIRE: FABRICATED BROWN PAINTED METAL HOUSING, 7 ROWS OF 9 LEDS, FABRICATED PREMIUM SPECULAR METAL REFLECTOR, 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 = 97.5 AT 120.0 VOLTS

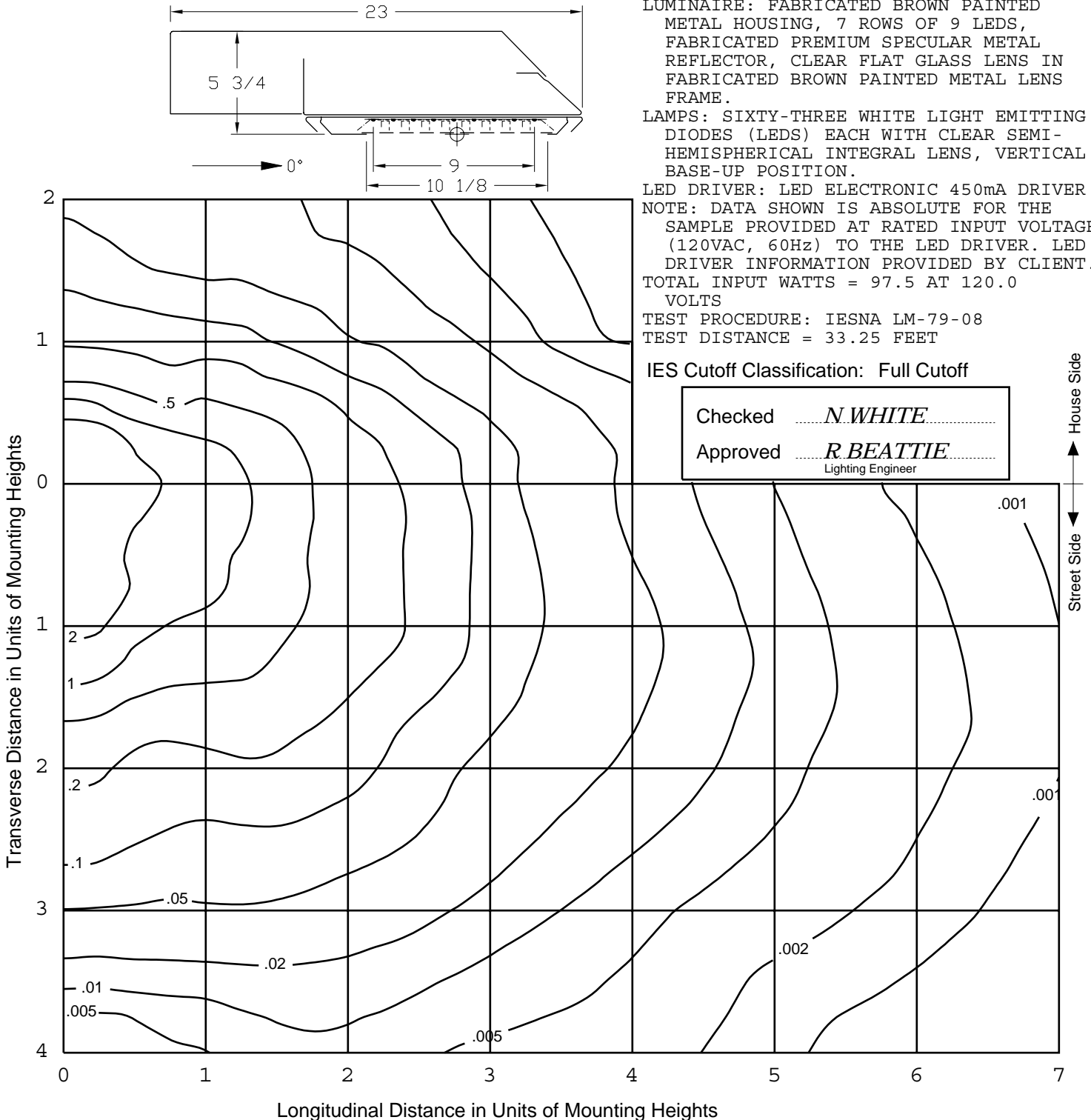
TEST PROCEDURE: IESNA LM-79-08

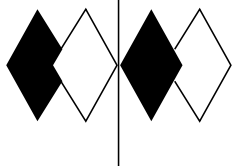
TEST DISTANCE = 33.25 FEET

IES Cutoff Classification: Full Cutoff

Checked N. WHITE

Approved R. BEATTIE
Lighting Engineer





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CATALOG NUMBER: XAS3/XRS3/XAWS3/XENM3

SA/XINM3 SA 3 LED 63 450 CW UE

LUMINAIRE: FABRICATED BROWN PAINTED

METAL HOUSING, 7 ROWS OF 9 LEDS,

FABRICATED PREMIUM SPECULAR METAL

REFLECTOR, 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.

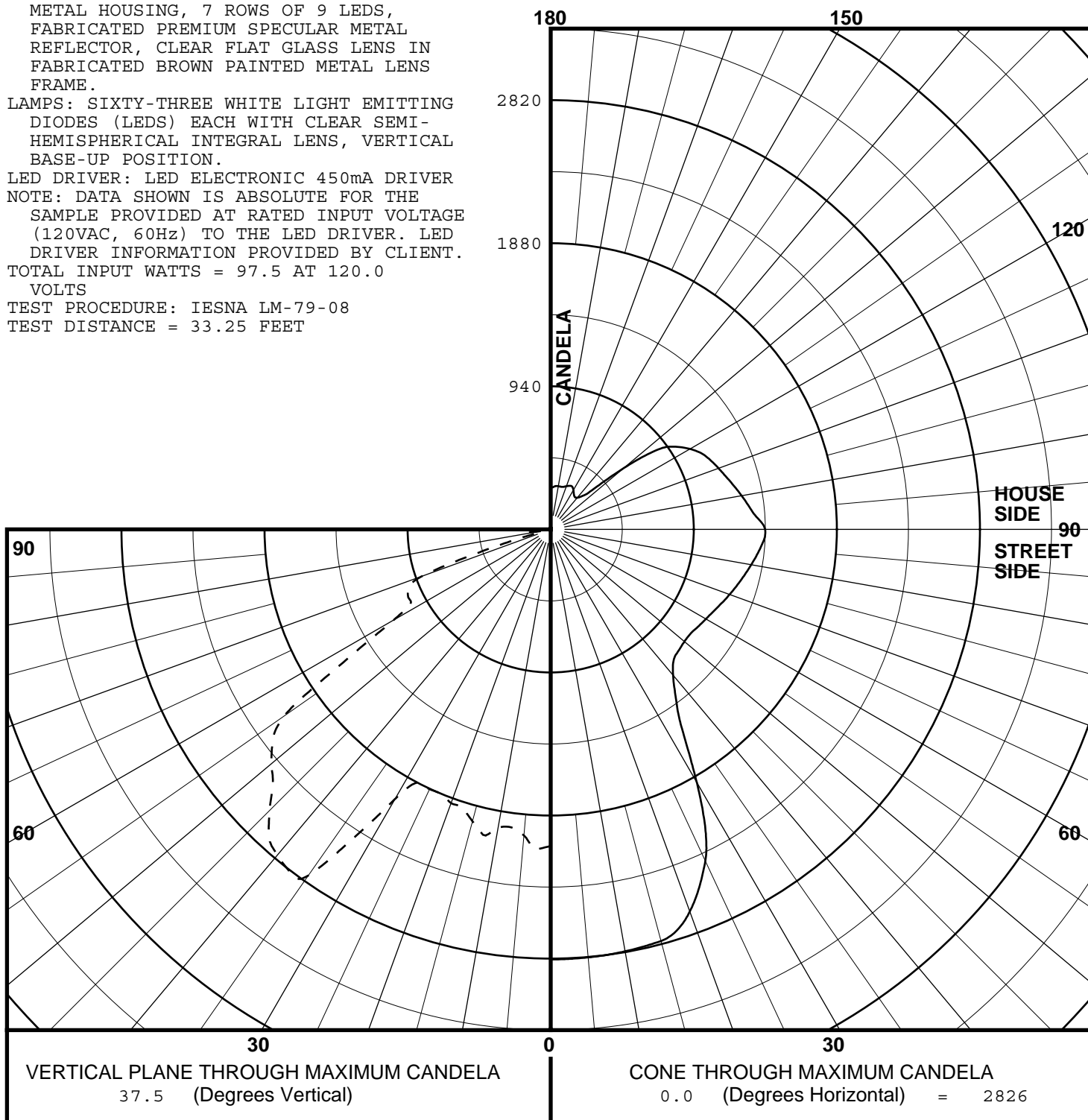
TOTAL INPUT WATTS = 97.5 AT 120.0

VOLTS

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 33.25 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





REPORT NUMBER: ITL65548

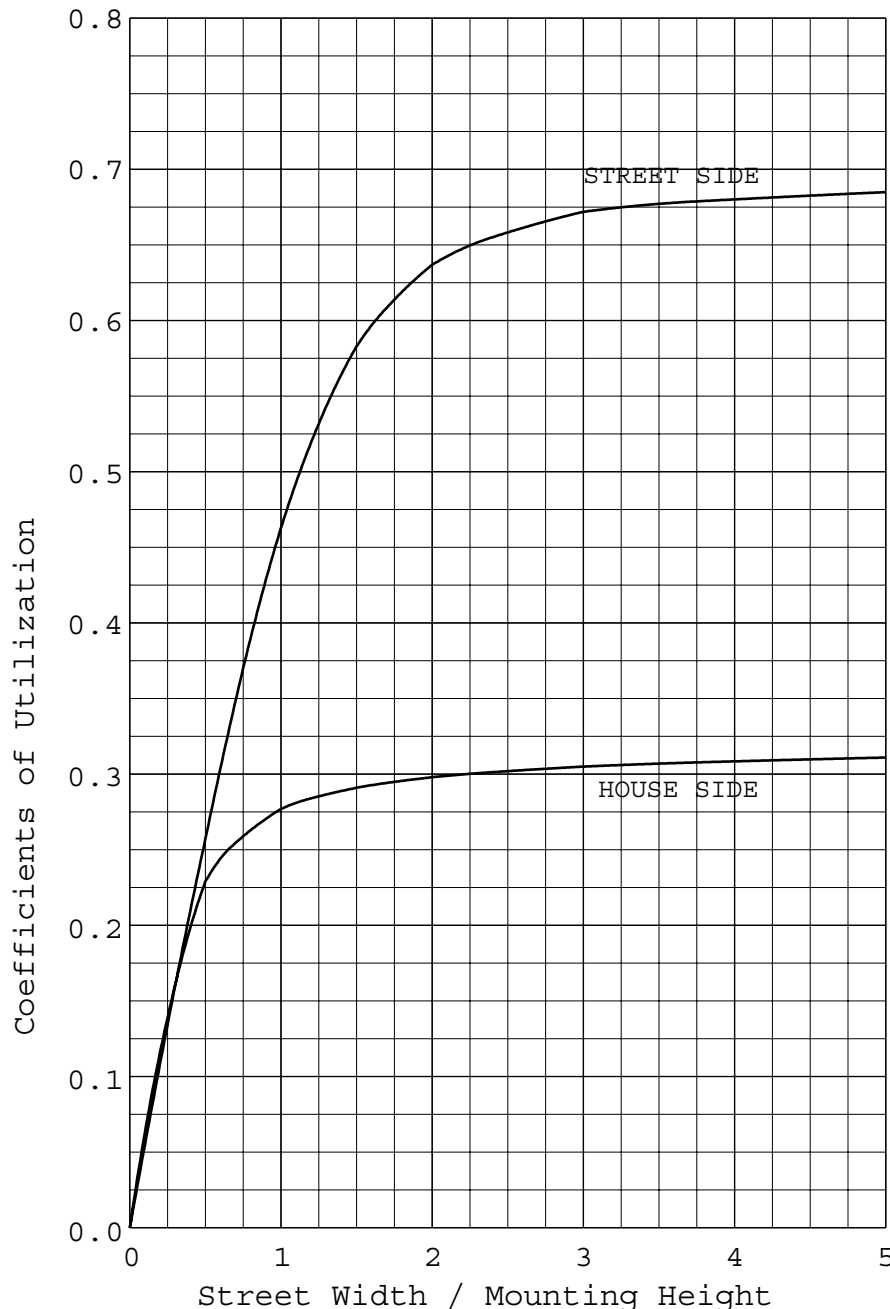
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	3831	69.0
DOWNWARD HOUSE SIDE	1723	31.0
DOWNWARD TOTAL	5554	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	5554	100.0
EFFICACY = 57.0 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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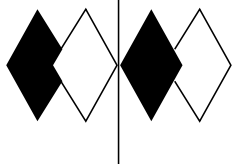
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	3831.	69.0	
FL (0- 30)	759.0	13.7	
FM (30- 60)	2008.0	36.2	
FH (60- 80)	1032.4	18.6	G1
FVH(80- 90)	31.4	0.6	U1 G1
BACK LIGHT	1723.	31.0	
BL (0- 30)	673.1	12.1	B2
BM (30- 60)	729.0	13.1	B1
BH (60- 80)	306.4	5.5	B1 G1
BVH(80- 90)	14.7	0.3	U1 G1
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	5554.	100.0	

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

BUG RATING: B2 U1 G1



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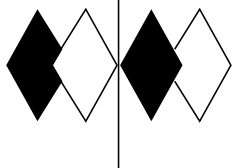
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CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE										
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	3.	5.	2.	3.	3.	3.	3.	5.	3.	3.	3.
	85.0	108.	89.	72.	109.	35.	29.	20.	20.	14.	18.	11.
	82.5	163.	140.	100.	84.	54.	51.	45.	98.	138.	101.	84.
	80.0	55.	51.	78.	83.	111.	226.	200.	341.	364.	221.	164.
	77.5	55.	58.	120.	290.	295.	384.	512.	691.	705.	419.	349.
	75.0	92.	101.	200.	427.	653.	810.	831.	885.	866.	571.	547.
	72.5	439.	433.	562.	876.	1021.	1250.	982.	1260.	1129.	879.	737.
	70.0	903.	900.	770.	845.	1203.	1329.	1307.	1671.	1283.	1229.	1097.
	67.5	1011.	1011.	814.	836.	1329.	1482.	1713.	1969.	1533.	1438.	1327.
	65.0	1035.	1049.	771.	799.	1341.	1831.	1848.	2006.	1472.	1522.	1409.
	62.5	1035.	1086.	754.	860.	1349.	2054.	1974.	1995.	1559.	1584.	1504.
	60.0	1192.	1232.	882.	1100.	1594.	2052.	2107.	2046.	1697.	1739.	1651.
	57.5	1585.	1665.	1312.	1410.	1585.	1908.	2098.	2032.	1840.	1748.	1702.
V	55.0	2141.	2207.	1750.	1430.	1528.	1826.	2009.	1860.	1932.	1805.	1790.
E	52.5	2304.	2335.	2041.	1470.	1525.	1760.	1920.	1705.	1891.	1837.	1814.
R	50.0	2396.	2418.	2264.	1518.	1591.	1690.	1786.	1593.	1740.	1762.	1725.
T	47.5	2476.	2490.	2407.	1645.	1622.	1668.	1547.	1479.	1599.	1628.	1611.
I	45.0	2611.	2642.	2636.	1757.	1651.	1624.	1309.	1387.	1482.	1535.	1545.
C	42.5	2740.	2745.	2725.	1962.	1674.	1472.	1221.	1303.	1392.	1464.	1472.
A	40.0	2793.	2793.	2782.	2267.	1639.	1241.	1184.	1244.	1339.	1418.	1439.
L	37.5<<	2826.	2823.	2800.	2404.	1455.	1164.	1152.	1210.	1293.	1384.	1409.
	35.0	2777.	2743.	2677.	2195.	1298.	1163.	1149.	1207.	1272.	1379.	1407.
A	32.5	2396.	2367.	2287.	1923.	1379.	1170.	1163.	1250.	1273.	1393.	1433.
N	30.0	2046.	1978.	1954.	1862.	1565.	1207.	1181.	1281.	1306.	1427.	1459.
G	27.5	1880.	1880.	1894.	1857.	1727.	1356.	1227.	1283.	1338.	1436.	1473.
L	25.0	1883.	1889.	1900.	1857.	1802.	1598.	1382.	1309.	1375.	1424.	1441.
E	22.5	1880.	1889.	1929.	1879.	1848.	1843.	1656.	1473.	1429.	1462.	1447.
	20.0	1914.	1899.	1940.	1920.	1888.	1986.	1919.	1773.	1665.	1659.	1591.
	17.5	1920.	1925.	1954.	2029.	1969.	1988.	1992.	2031.	1995.	1946.	1900.
	15.0	1985.	1985.	2037.	2097.	2035.	1971.	1951.	2023.	2052.	2034.	2037.
	12.5	2055.	2052.	2077.	2069.	2069.	1972.	1978.	2006.	2035.	2032.	2034.
	10.0	1988.	1977.	1994.	2008.	2014.	2094.	2057.	2058.	2054.	2061.	2052.
	7.5	1975.	1978.	1986.	2026.	2064.	2086.	2117.	2157.	2157.	2154.	2132.
	5.0	2018.	2025.	2035.	2061.	2068.	2123.	2154.	2167.	2166.	2155.	2151.
	2.5	2104.	2104.	2106.	2121.	2126.	2132.	2137.	2137.	2141.	2140.	2144.
	0.0	2080.	2080.	2080.	2080.	2080.	2080.	2080.	2080.	2080.	2080.	2080.
		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	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	3.	3.	3.	3.	3.	3.	3.	3.	3.
	85.0	9.	8.	9.	8.	9.	12.	12.	22.	12.
	82.5	63.	23.	41.	20.	37.	40.	71.	61.	46.
	80.0	163.	38.	54.	57.	61.	60.	92.	147.	143.
	77.5	379.	74.	91.	83.	149.	115.	120.	97.	86.
	75.0	545.	152.	134.	132.	147.	200.	272.	146.	109.
	72.5	723.	292.	181.	154.	187.	164.	210.	186.	164.
	70.0	1064.	389.	232.	189.	157.	217.	224.	181.	167.
	67.5	1227.	653.	312.	200.	154.	161.	189.	257.	272.
	65.0	1332.	780.	330.	273.	169.	146.	166.	178.	181.
	62.5	1430.	997.	410.	292.	203.	141.	143.	158.	194.
	60.0	1548.	1269.	518.	333.	270.	147.	134.	127.	180.
	57.5	1682.	1442.	691.	358.	260.	178.	146.	143.	151.
V	55.0	1751.	1499.	780.	416.	275.	203.	178.	143.	157.
E	52.5	1773.	1496.	779.	475.	295.	212.	198.	177.	186.
R	50.0	1693.	1415.	840.	478.	267.	232.	195.	190.	197.
T	47.5	1565.	1343.	1014.	398.	272.	250.	209.	187.	183.
I	45.0	1468.	1275.	1146.	355.	310.	252.	230.	206.	194.
C	42.5	1409.	1252.	1170.	401.	300.	276.	229.	224.	218.
A	40.0	1344.	1232.	1143.	648.	283.	304.	275.	233.	229.
L	37.5<<	1330.	1220.	1129.	948.	323.	269.	315.	289.	283.
	35.0	1313.	1212.	1137.	1092.	570.	255.	275.	315.	338.
A	32.5	1326.	1200.	1151.	1137.	951.	389.	269.	264.	293.
N	30.0	1367.	1204.	1155.	1155.	1151.	892.	455.	276.	289.
G	27.5	1409.	1195.	1177.	1177.	1333.	1538.	1097.	578.	568.
L	25.0	1404.	1209.	1201.	1235.	1553.	1790.	1634.	1336.	1260.
E	22.5	1424.	1275.	1301.	1433.	1766.	1840.	1837.	1777.	1862.
	20.0	1562.	1499.	1567.	1727.	1837.	1854.	1871.	1886.	1900.
	17.5	1906.	1831.	1856.	1854.	1871.	1863.	1885.	1906.	1988.
	15.0	2017.	1939.	1889.	1882.	1886.	1899.	1896.	1925.	1980.
	12.5	2017.	1943.	1899.	1892.	1900.	1912.	1917.	1929.	1957.
	10.0	2057.	1977.	1966.	1958.	1988.	1940.	1919.	1914.	1909.
	7.5	2134.	2086.	2071.	2025.	1991.	1965.	1945.	1937.	1920.
	5.0	2137.	2109.	2078.	2043.	2034.	1997.	1983.	1963.	1948.
	2.5	2132.	2124.	2107.	2084.	2064.	2052.	2038.	2023.	2008.
	0.0	2080.	2080.	2080.	2080.	2080.	2080.	2080.	2080.	2080.

CONE OF MAXIMUM CANDELA