

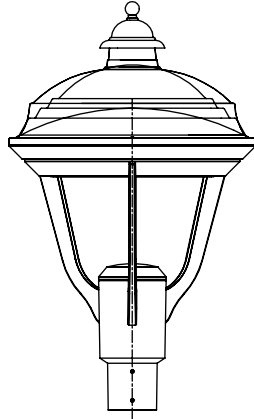
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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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: ITL64433
ISSUE DATE: 08/15/11 PAGE: 1 OF 6
DATE SAMPLE TESTED: 03/25/10
PREPARED FOR: LSI INDUSTRIES, INC.
CATALOG NUMBER: XENM3/XINM3/XLXM3 PT FT
LED 63 350 CW UE
LUMINAIRE: CAST BLACK PAINTED METAL
POST TOP FITTER, CAST BLACK PAINTED
METAL POST TOP CAP, THREE FABRICATED
BLACK PAINTED METAL SUPPORT ARMS, 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, CAST BLACK
PAINTED METAL UPPER HOUSING WITH
FORMED BLACK PAINTED METAL TOP, 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 = 76.9 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 "XENM3 PT FT
LED 63 350 CW 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

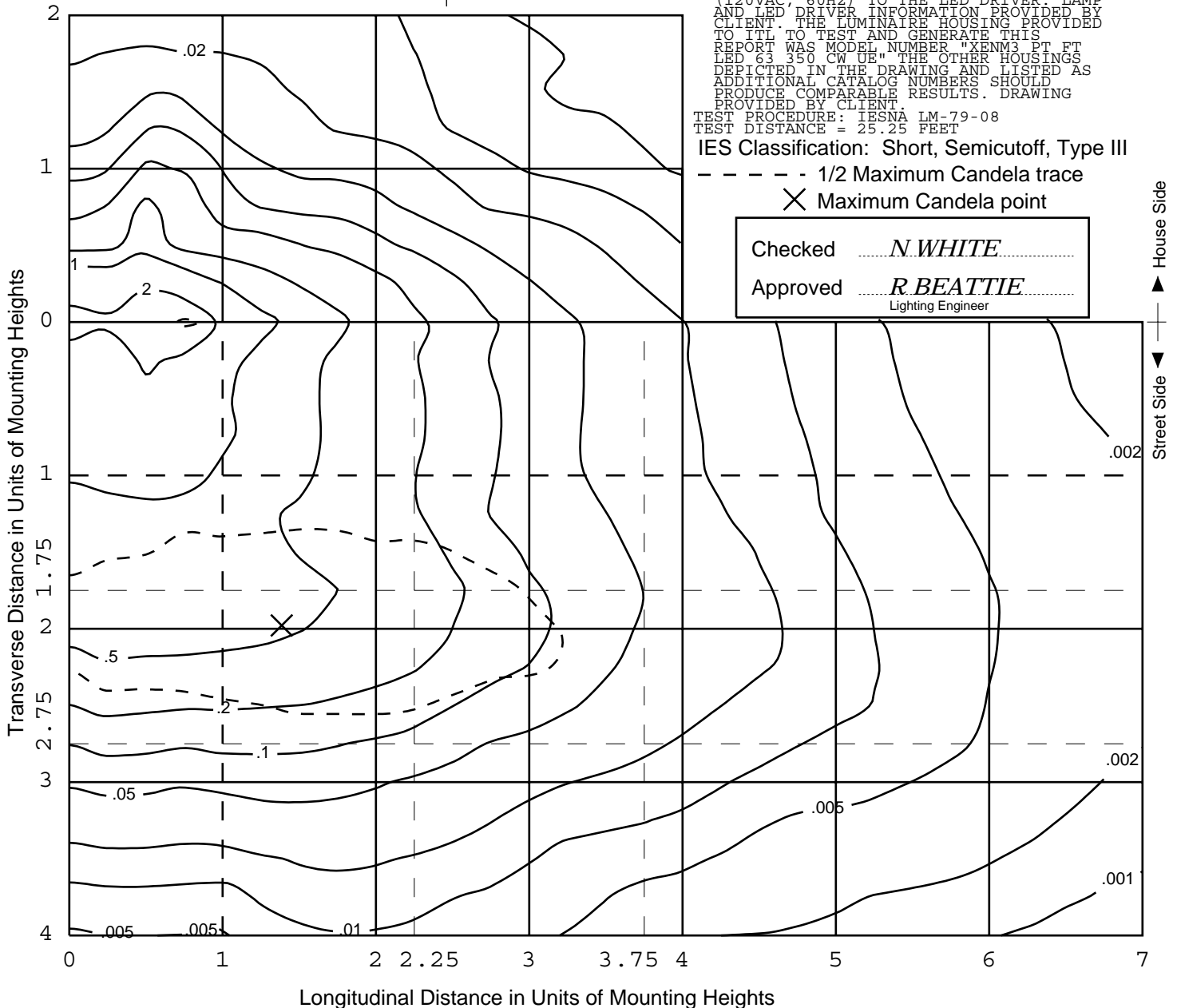
IES Classification: Short, Semicutoff, Type III

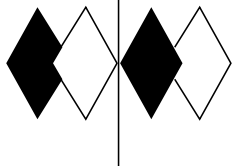
--- 1/2 Maximum Candela trace

✕ Maximum Candela point

Checked N. WHITE

Approved R. BEATTIE
Lighting Engineer





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DATE SAMPLE TESTED: 03/25/10

PREPARED FOR: LSI INDUSTRIES, INC.

CATALOG NUMBER: XENM3/XINM3/XLXM3 PT FT

LED 63 350 CW UE

LUMINAIRE: CAST BLACK PAINTED METAL
POST TOP FITTER, CAST BLACK PAINTED
METAL POST TOP CAP, THREE FABRICATED
BLACK PAINTED METAL SUPPORT ARMS, FLAT
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ONE CIRCUIT BOARD WITH 63 LEDS,
FABRICATED PREMIUM SPECULAR METAL
REFLECTOR WITH 2 "V" SHAPED INSERTS
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TOTAL INPUT WATTS = 76.9 AT 120.0 VOLTS

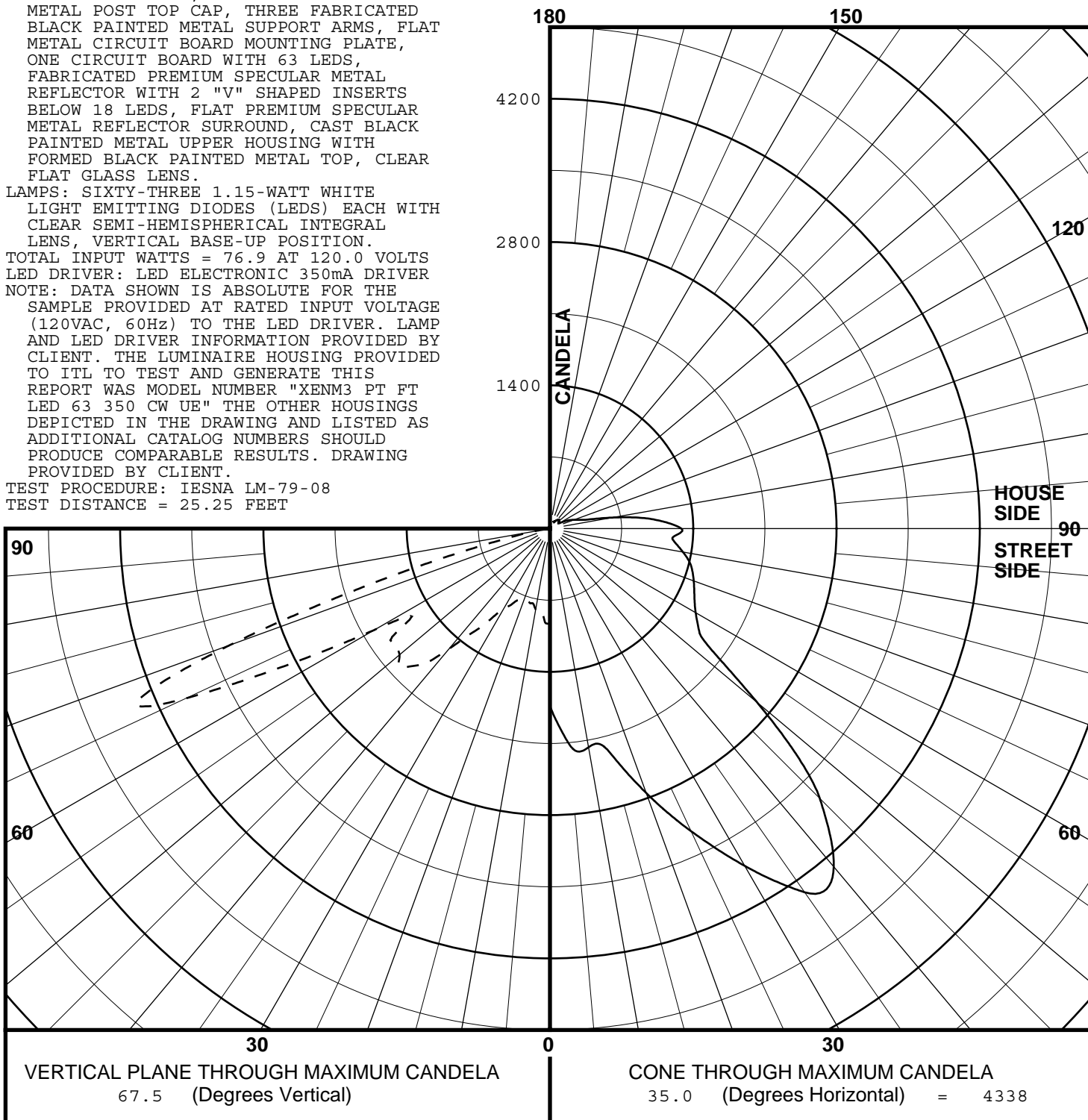
LED DRIVER: LED ELECTRONIC 350mA DRIVER

NOTE: DATA SHOWN IS ABSOLUTE FOR THE
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(120VAC, 60Hz) TO THE LED DRIVER. LAMP
AND LED DRIVER INFORMATION PROVIDED BY
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ADDITIONAL CATALOG NUMBERS SHOULD
PRODUCE COMPARABLE RESULTS. DRAWING
PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





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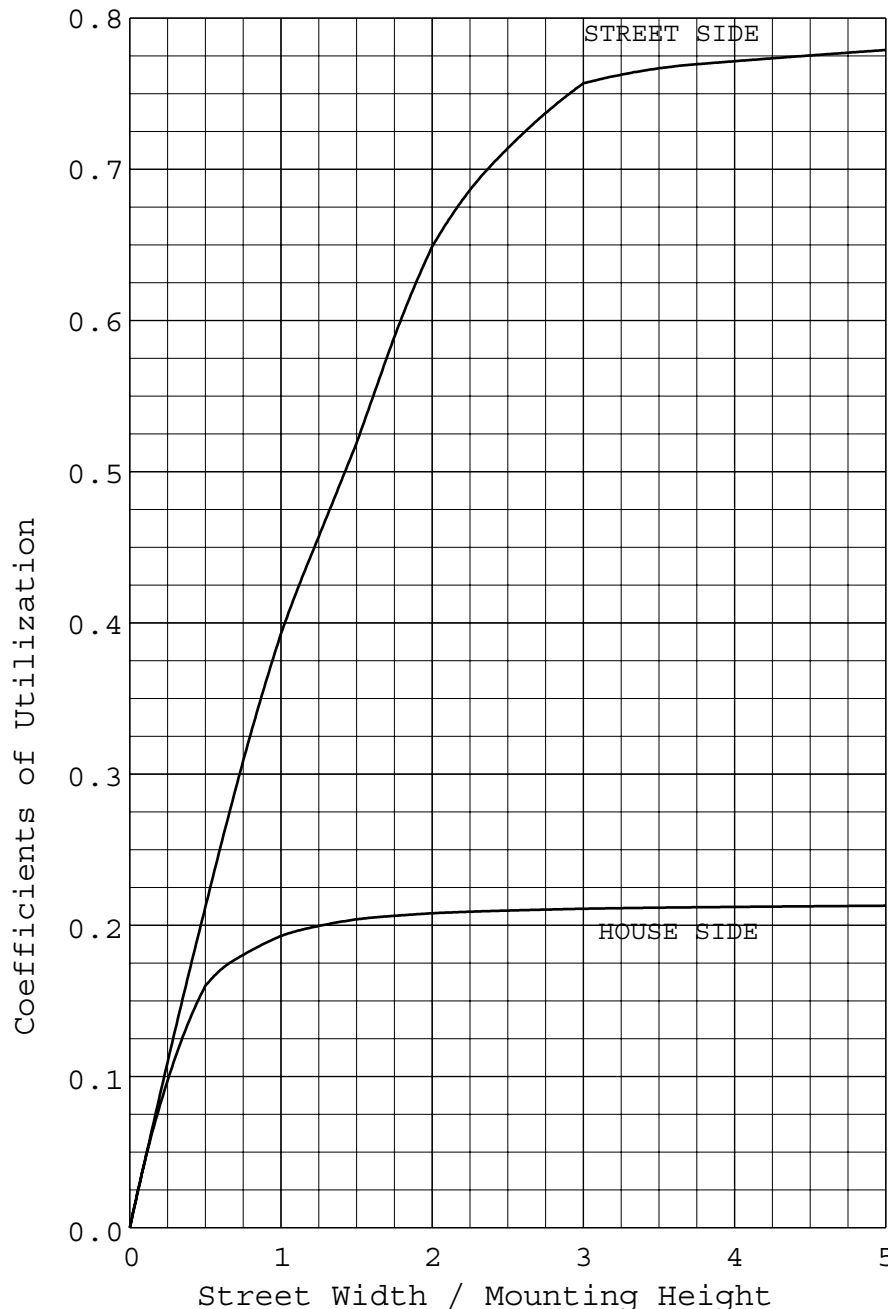
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PAGE: 3 OF 6
DATE SAMPLE TESTED: 03/25/10

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	4007	78.1
DOWNWARD HOUSE SIDE	1119	21.8
DOWNWARD TOTAL	5127	100.0
UPWARD STREET SIDE	1	0.0
UPWARD HOUSE SIDE	1	0.0
UPWARD TOTAL	2	0.0
TOTAL FLUX	5129	100.0
EFFICACY = 66.7 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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ISSUE DATE: 08/15/11
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PAGE: 4 OF 6
DATE SAMPLE TESTED: 03/25/10

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	4007.	78.1	
FL (0- 30)	395.4	7.7	
FM (30- 60)	1835.4	35.8	
FH (60- 80)	1735.2	33.8	G1
FVH(80- 90)	41.3	0.8	U1 G1
BACK LIGHT	1119.	21.8	
BL (0- 30)	309.7	6.0	B1
BM (30- 60)	612.9	12.0	B1
BH (60- 80)	188.4	3.7	B1 G1
BVH(80- 90)	8.5	0.2	U0 G0
UPLIGHT	2.	0.0	
UL (90-100)	0.7	0.0	U1
UH (100-180)	1.3	0.0	U1
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	5129.	100.0	

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

BUG RATING: B1 U1 G1

REPORT NUMBER: ITL64433

PAGE: 5 OF 6

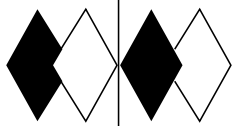
ISSUE DATE: 08/15/11

DATE SAMPLE TESTED: 03/25/10

PREPARED FOR: LSI INDUSTRIES, INC.

CANDELA TABULATION

	STREET	LATERAL ANGLE										
		SIDE	0.0	5.0	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.	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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	1.	1.	2.	2.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	1.	1.	1.	1.	1.	1.
	92.5	0.	0.	0.	0.	1.	2.	1.	1.	1.	1.	1.
	90.0	0.	0.	0.	0.	2.	2.	1.	1.	1.	1.	1.
	87.5	1.	0.	1.	2.	3.	3.	3.	3.	3.	4.	3.
	85.0	5.	4.	8.	10.	13.	17.	32.	50.	68.	50.	40.
V	82.5	11.	12.	19.	28.	48.	53.	92.	249.	518.	180.	153.
E	80.0	28.	31.	43.	111.	183.	145.	343.	892.	488.	314.	267.
R	77.5	66.	74.	89.	331.	407.	509.	1158.	1537.	648.	476.	432.
T	75.0	167.	189.	213.	622.	973.	1474.	2525.	1519.	831.	670.	655.
I	72.5	480.	549.	622.	1224.	1978.	3144.	3024.	1165.	989.	973.	898.
C	70.0	1023.	1219.	1341.	2074.	3332.	4220.	2567.	1428.	1266.	980.	1061.
A	67.5<<	1737.	2110.	2268.	3263.	4338.	3728.	1786.	1557.	1429.	1203.	1284.
L	65.0	2595.	3187.	3403.	3976.	3928.	2582.	1762.	1632.	1454.	1233.	1361.
	62.5	2819.	3460.	3460.	3717.	2875.	1796.	1984.	1769.	1484.	1335.	1595.
A	60.0	2492.	3036.	2849.	2930.	1979.	1838.	2005.	1729.	1497.	1482.	1899.
N	57.5	1879.	2247.	2010.	2096.	1601.	1933.	1971.	1659.	1467.	1500.	1936.
G	55.0	1348.	1578.	1415.	1656.	1903.	1889.	1866.	1615.	1436.	1512.	1905.
L	52.5	1081.	1272.	1309.	1795.	1887.	1959.	1756.	1523.	1409.	1554.	1873.
E	50.0	1248.	1485.	1457.	1659.	1919.	1966.	1710.	1432.	1363.	1571.	1882.
	47.5	1219.	1444.	1395.	1577.	1995.	1970.	1674.	1379.	1350.	1670.	1982.
	45.0	1207.	1422.	1390.	1533.	1900.	1956.	1619.	1367.	1367.	1776.	2029.
	42.5	1236.	1439.	1422.	1428.	1774.	1816.	1570.	1382.	1408.	1821.	2025.
	40.0	1187.	1376.	1360.	1327.	1532.	1656.	1514.	1418.	1467.	1891.	2056.
	37.5	1140.	1315.	1309.	1210.	1317.	1454.	1433.	1446.	1550.	2090.	2245.
	35.0	1091.	1235.	1253.	1109.	1171.	1269.	1362.	1447.	1635.	2156.	2283.
	32.5	1039.	1116.	1147.	1035.	1013.	1063.	1237.	1481.	1646.	2169.	2188.
	30.0	949.	1018.	1058.	946.	898.	954.	1083.	1378.	1641.	2035.	2055.
	25.0	813.	875.	901.	819.	780.	837.	905.	1085.	1269.	1571.	1580.
	20.0	731.	785.	828.	804.	733.	723.	781.	892.	1002.	1246.	1259.
	15.0	704.	734.	786.	779.	754.	741.	742.	785.	842.	975.	977.
	10.0	719.	730.	753.	799.	802.	823.	823.	819.	836.	863.	853.
	5.0	839.	843.	847.	844.	838.	871.	910.	939.	937.	919.	897.
	0.0	933.	933.	933.	933.	933.	933.	933.	933.	933.	933.	933.
						PLANE OF MAXIMUM CANDELA						
		CONE OF MAXIMUM CANDELA										



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PAGE: 6 OF 6
DATE SAMPLE TESTED: 03/25/10

CANDELA TABULATION

HOUSE SIDE		LATERAL ANGLE										
		95.0	105.0	115.0	120.0	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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.
	125.0	1.	2.	2.	1.	2.	1.	1.	1.	0.	0.	0.
	115.0	0.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.
	105.0	0.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	1.	0.	1.	0.	0.	0.	2.	1.	1.	2.
	92.5	1.	1.	0.	0.	0.	1.	0.	2.	2.	2.	2.
	90.0	1.	1.	0.	0.	0.	1.	0.	2.	2.	2.	2.
	87.5	3.	2.	2.	2.	2.	3.	2.	3.	3.	3.	3.
	85.0	11.	10.	15.	9.	8.	9.	8.	8.	7.	6.	6.
V	82.5	50.	32.	39.	25.	18.	15.	16.	15.	13.	12.	12.
E	80.0	119.	52.	75.	53.	33.	25.	29.	20.	18.	17.	17.
R	77.5	243.	86.	99.	102.	51.	45.	37.	25.	21.	20.	19.
T	75.0	396.	160.	87.	119.	78.	67.	60.	28.	25.	24.	23.
I	72.5	591.	162.	85.	116.	114.	104.	69.	38.	30.	26.	25.
C	70.0	764.	216.	105.	99.	103.	132.	83.	48.	38.	31.	30.
A	67.5<<	1020.	327.	184.	105.	102.	125.	91.	61.	52.	39.	38.
L	65.0	1172.	457.	226.	165.	103.	98.	99.	80.	62.	50.	49.
	62.5	1292.	556.	250.	182.	124.	91.	109.	81.	72.	61.	59.
A	60.0	1451.	628.	242.	176.	146.	97.	102.	98.	80.	64.	61.
N	57.5	1493.	690.	254.	212.	165.	138.	124.	154.	93.	62.	58.
G	55.0	1510.	790.	287.	228.	172.	197.	236.	187.	91.	68.	52.
L	52.5	1525.	900.	295.	208.	193.	244.	315.	254.	90.	55.	44.
E	50.0	1523.	993.	333.	235.	251.	297.	331.	387.	116.	54.	45.
	47.5	1560.	1086.	421.	282.	300.	336.	328.	256.	116.	87.	73.
	45.0	1596.	1175.	510.	346.	289.	386.	418.	192.	113.	113.	93.
	42.5	1609.	1251.	632.	415.	304.	506.	624.	272.	115.	120.	97.
	40.0	1659.	1306.	792.	520.	399.	549.	576.	319.	119.	119.	102.
	37.5	1799.	1320.	944.	660.	549.	590.	431.	235.	125.	115.	108.
	35.0	1837.	1340.	1046.	825.	653.	568.	368.	170.	118.	113.	111.
	32.5	1793.	1307.	1137.	977.	783.	515.	321.	156.	133.	127.	117.
	30.0	1765.	1297.	1126.	998.	848.	515.	307.	180.	143.	130.	126.
	25.0	1436.	1097.	918.	898.	817.	687.	473.	344.	271.	239.	230.
	20.0	1203.	992.	849.	803.	749.	709.	634.	600.	553.	520.	511.
	15.0	982.	856.	772.	750.	705.	694.	698.	698.	651.	684.	674.
	10.0	850.	793.	765.	757.	727.	720.	686.	677.	604.	685.	686.
	5.0	900.	928.	898.	877.	841.	764.	753.	764.	814.	796.	801.
	0.0	933.	933.	933.	933.	933.	933.	933.	933.	933.	933.	933.

CONE OF MAXIMUM CANDELA