

**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](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION**  
 Values based on 25 foot mounting height.

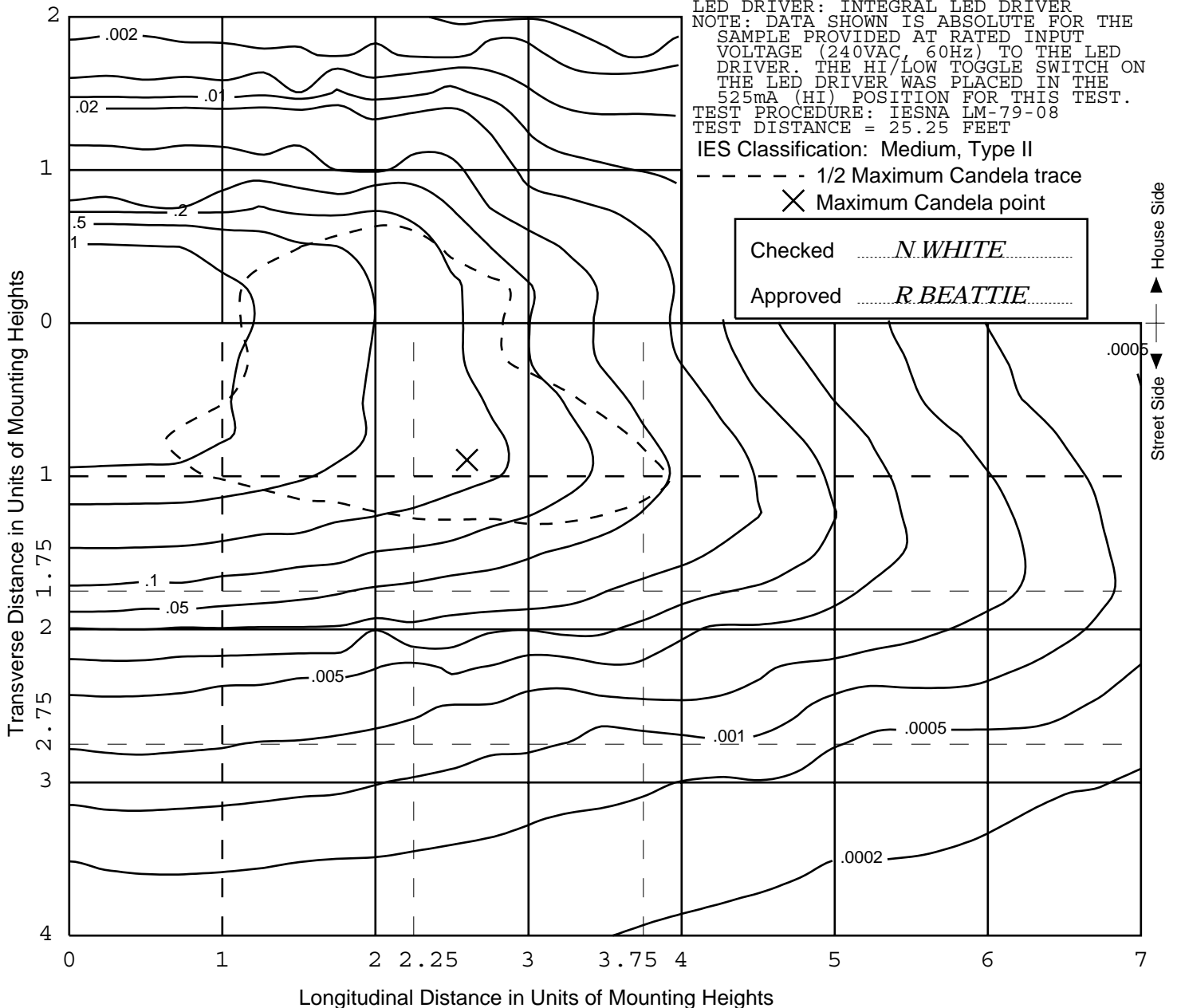
REPORT NUMBER: ITL63600  
 DATE: 11/12/09  
 PREPARED FOR: ECOFIT LIGHTING  
 CATALOG NUMBER: DURASTREET 63 SERIES  
 525 - TYPE 2  
 LUMINAIRE: CAST METAL HOUSING. ONE LED MODULE CONSISTING OF: CAST FINNED METAL HEAT SINK AND LED DRIVER HOUSING, ONE WHITE CIRCUIT BOARD WITH SEVEN ROWS OF NINE LEDS, ONE CLEAR PLASTIC LENS BELOW EACH LED, SEVEN MOLDED BLACK PLASTIC REFLECTORS WITH SPECULAR FINISH AND BLACK SECTION AT EACH END, CLEAR PLASTIC LENS. CAST GRAY PAINTED METAL DOOR FRAME. LED MODULE NOT DISASSEMBLED FOR INSPECTION.  
 LAMP: SIXTY-THREE WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.  
 TOTAL INPUT WATTS = 112.7 AT 240.0 VOLTS  
 LED DRIVER: INTEGRAL LED DRIVER  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE LED DRIVER. THE HI/LOW TOGGLE SWITCH ON THE LED DRIVER WAS PLACED IN THE 525mA (HI) POSITION FOR THIS TEST.  
 TEST PROCEDURE: IESNA LM-79-08  
 TEST DISTANCE = 25.25 FEET

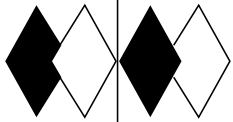
IES Classification: Medium, Type II

----- 1/2 Maximum Candela trace

X Maximum Candela point

Checked	<i>N. WHITE</i>
Approved	<i>R. BEATTIE</i>





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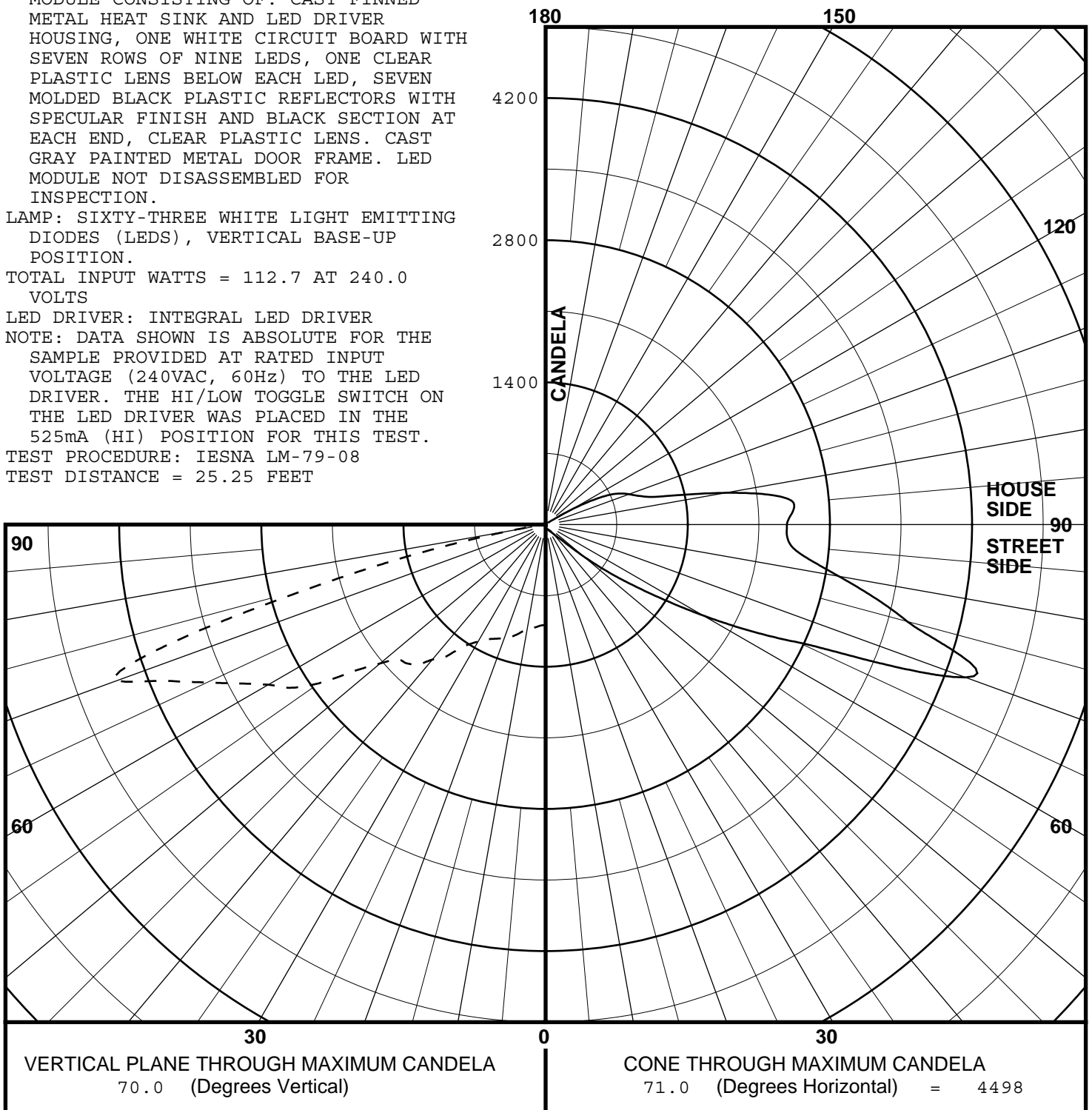
LED DRIVER: INTEGRAL LED DRIVER

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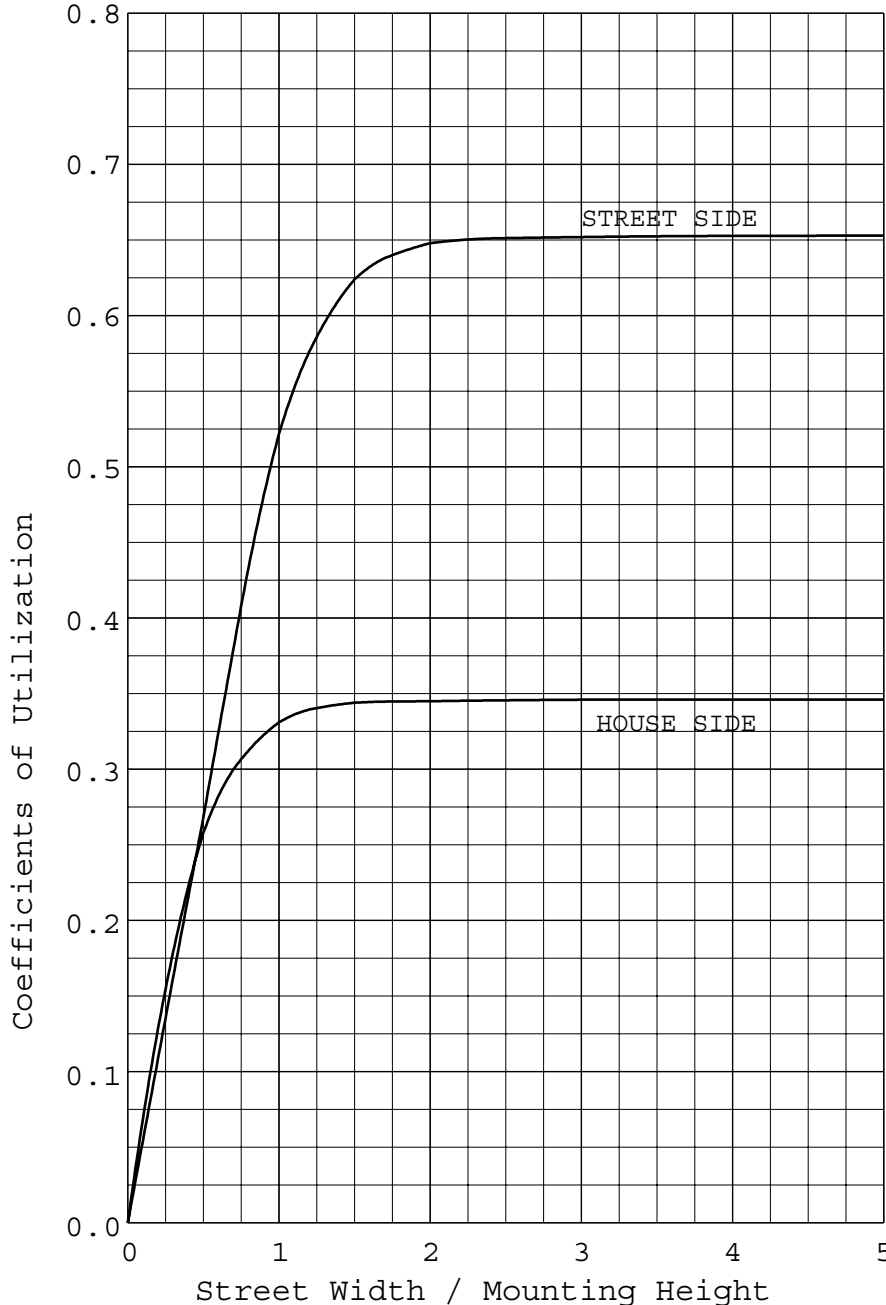
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	3726.	65.4
DOWNWARD HOUSE SIDE	1973.	34.6
DOWNWARD TOTAL	5699.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	5699.	100.0
EFFICACY = 50.6 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
FORWARD LIGHT	3726.	65.4
FL ( 0- 30)		8.5
FM ( 30- 60)		37.1
FH ( 60- 80)		19.5
FVH( 80- 90)		0.3
BACK LIGHT	1973.	34.6
BL ( 0- 30)		8.0
BM ( 30- 60)		18.4
BH ( 60- 80)		8.2
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	5699.	100.0



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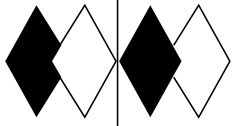
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CANDELA TABULATION

	LATERAL ANGLE											
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	71.0	75.0	85.0	
90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
87.5	0.	0.	1.	2.	3.	4.	5.	9.	14.	16.	12.	
85.0	1.	3.	3.	4.	6.	8.	13.	23.	34.	43.	36.	
82.5	3.	4.	4.	7.	10.	14.	21.	40.	74.	124.	91.	
80.0	5.	7.	7.	10.	14.	20.	33.	81.	383.	585.	200.	
77.5	8.	10.	11.	14.	20.	31.	54.	358.	1186.	1610.	518.	
75.0	12.	14.	17.	21.	31.	48.	104.	1193.	2338.	2903.	1154.	
72.5	21.	23.	26.	33.	51.	82.	492.	1902.	3836.	3838.	1826.	
70.0<<	33.	35.	41.	51.	83.	194.	1020.	2746.	4498.	3688.	2430.	
67.5	54.	57.	65.	81.	141.	741.	1429.	3516.	4022.	3413.	2801.	
65.0	84.	87.	99.	150.	534.	980.	1890.	4054.	3680.	3517.	3241.	
62.5	152.	161.	253.	540.	742.	1156.	2508.	3927.	3389.	3402.	3436.	
60.0	480.	487.	548.	700.	883.	1467.	2992.	3528.	3155.	3118.	3234.	
57.5	602.	613.	670.	816.	1160.	1856.	3251.	3171.	2992.	2825.	3059.	
V E R T I C A L A N G L E	55.0	691.	702.	770.	970.	1463.	2284.	3074.	2852.	2724.	2567.	2793.
	52.5	834.	847.	939.	1209.	1811.	2706.	2759.	2511.	2363.	2350.	2562.
	50.0	1040.	1056.	1167.	1504.	2165.	2794.	2477.	2347.	2126.	2166.	2325.
	47.5	1291.	1304.	1431.	1804.	2399.	2550.	2329.	2090.	1966.	2028.	2164.
	45.0	1561.	1581.	1727.	2065.	2301.	2270.	2031.	1986.	1933.	1946.	2013.
	42.5	1853.	1862.	1944.	2064.	2045.	1980.	1886.	1778.	1868.	1936.	2034.
	40.0	1896.	1899.	1884.	1861.	1801.	1752.	1793.	1660.	1736.	1765.	1839.
	37.5	1730.	1730.	1695.	1663.	1618.	1591.	1497.	1577.	1653.	1672.	1708.
	35.0	1557.	1560.	1531.	1516.	1459.	1544.	1365.	1435.	1500.	1528.	1582.
	32.5	1439.	1440.	1417.	1375.	1416.	1339.	1299.	1367.	1396.	1402.	1417.
	30.0	1302.	1307.	1298.	1341.	1341.	1218.	1256.	1311.	1331.	1334.	1343.
	27.5	1276.	1282.	1301.	1270.	1173.	1191.	1229.	1267.	1280.	1285.	1289.
	25.0	1191.	1191.	1149.	1120.	1144.	1182.	1216.	1232.	1242.	1242.	1244.
	22.5	1072.	1073.	1078.	1098.	1134.	1171.	1201.	1208.	1215.	1215.	1215.
	20.0	1052.	1055.	1068.	1092.	1121.	1149.	1173.	1184.	1191.	1194.	1195.
	17.5	1050.	1052.	1064.	1083.	1103.	1119.	1135.	1154.	1162.	1164.	1167.
	15.0	1045.	1046.	1055.	1069.	1077.	1086.	1099.	1115.	1125.	1128.	1130.
	12.5	1026.	1028.	1034.	1046.	1051.	1058.	1069.	1076.	1082.	1083.	1085.
	10.0	1004.	1006.	1010.	1022.	1031.	1036.	1043.	1048.	1050.	1051.	1053.
	7.5	992.	994.	996.	1005.	1014.	1021.	1024.	1027.	1031.	1030.	1031.
	5.0	985.	986.	986.	990.	997.	1003.	1007.	1008.	1012.	1012.	1014.
	2.5	984.	985.	984.	985.	987.	989.	989.	991.	994.	994.	997.
	0.0	987.	987.	987.	987.	987.	987.	987.	987.	987.	987.	987.

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.	0.
	87.5	11.	10.	7.	5.	3.	1.	1.	0.	0.	0.	0.
	85.0	29.	26.	19.	9.	6.	3.	2.	1.	1.	1.	2.
	82.5	79.	68.	34.	14.	8.	5.	3.	2.	2.	1.	2.
	80.0	155.	156.	61.	22.	11.	7.	5.	3.	3.	2.	3.
	77.5	352.	412.	367.	34.	15.	9.	7.	5.	4.	3.	3.
	75.0	994.	1072.	395.	55.	20.	12.	8.	6.	5.	5.	5.
	72.5	1770.	1837.	351.	232.	26.	15.	10.	8.	7.	6.	5.
	70.0<<	2377.	2452.	1052.	690.	38.	19.	13.	10.	9.	7.	7.
	67.5	2803.	2879.	2189.	579.	121.	22.	15.	11.	10.	9.	9.
	65.0	3295.	3393.	2976.	336.	363.	34.	17.	13.	11.	10.	10.
	62.5	3556.	3607.	3144.	281.	433.	106.	21.	14.	13.	11.	11.
	60.0	3341.	3384.	3012.	521.	311.	235.	49.	18.	14.	13.	12.
	57.5	3133.	3158.	2815.	1102.	196.	282.	125.	41.	20.	16.	16.
V	55.0	2852.	2838.	2597.	1684.	160.	217.	201.	95.	56.	37.	35.
E	52.5	2584.	2593.	2414.	1896.	220.	159.	191.	159.	101.	80.	78.
R	50.0	2352.	2363.	2239.	1852.	558.	137.	148.	159.	154.	131.	129.
T	47.5	2182.	2192.	2074.	1788.	1089.	145.	109.	119.	145.	144.	144.
I	45.0	2032.	2053.	2004.	1853.	1405.	302.	102.	88.	113.	122.	122.
C	42.5	2032.	2034.	1974.	1739.	1479.	670.	128.	87.	92.	97.	98.
A	40.0	1842.	1839.	1772.	1637.	1448.	980.	330.	106.	96.	93.	92.
L	37.5	1710.	1707.	1664.	1553.	1321.	1147.	664.	257.	126.	105.	104.
	35.0	1588.	1585.	1527.	1404.	1271.	1169.	905.	572.	330.	228.	215.
A	32.5	1419.	1416.	1398.	1337.	1239.	1118.	1043.	820.	633.	540.	525.
N	30.0	1344.	1337.	1330.	1280.	1210.	1103.	1041.	976.	853.	781.	772.
G	27.5	1289.	1284.	1284.	1242.	1182.	1106.	1024.	986.	951.	922.	922.
L	25.0	1245.	1242.	1243.	1215.	1170.	1108.	1034.	977.	943.	933.	932.
E	22.5	1213.	1210.	1213.	1194.	1151.	1100.	1039.	995.	960.	940.	939.
	20.0	1194.	1192.	1192.	1174.	1132.	1086.	1046.	1012.	980.	963.	962.
	17.5	1167.	1164.	1160.	1145.	1108.	1071.	1044.	1018.	991.	977.	972.
	15.0	1127.	1125.	1118.	1107.	1083.	1059.	1039.	1019.	1000.	984.	982.
	12.5	1081.	1079.	1074.	1069.	1058.	1045.	1032.	1016.	1003.	991.	988.
	10.0	1051.	1048.	1045.	1043.	1038.	1033.	1021.	1011.	998.	987.	987.
	7.5	1029.	1029.	1028.	1027.	1022.	1016.	1010.	1002.	993.	987.	988.
	5.0	1013.	1011.	1011.	1011.	1007.	1002.	997.	993.	989.	985.	986.
	2.5	994.	994.	993.	993.	991.	989.	988.	987.	985.	983.	984.
	0.0	987.	987.	987.	987.	987.	987.	987.	987.	987.	987.	987.

CONE OF MAXIMUM CANDELA