

IES ROAD REPORT

PHOTOMETRIC FILENAME : H-18112 100W MH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] 19988
[MANUFAC]HI-LITE MANUFACTURING - ANGLE SHADE
[LUMCAT]H-181-12
[LUMINAIRE]WITH WHITE INTERIOR AND CLEAR RIBBED GLASS LENS
[LAMP]ONE VENTURE 100 WATT MH LAMP
[LAMPCAT]MH100W/U. LUMEN RATING = 9000 LMS.
[OTHER]LAMP OPERATING AT 100 WATTS

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Cutoff Classification	Non-Cutoff
Total Rated Lamp Lumens	9000
Maximum Candela	2452.3
Maximum Candela Angle	0H 47.5V
Maximum Candela At 90 Degrees Vertical	1712.4 (19.03% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	2012.4 (22.36% Lamp Lms)
Downward Total Efficiency	72.8%

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>22.5</u>	<u>45</u>	<u>67.5</u>	<u>90</u>	<u>112.5</u>	<u>135</u>	<u>157.5</u>	<u>180</u>	<u>202.5</u>
0	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5
2.5	1487.4	1478.2	1474.3	1441.8	1418.6	1436.4	1334.4	1279.5	1238.5	1279.5
5	1458.8	1457.3	1462.7	1410.1	1400.9	1387.7	1306.5	1287.2	1257.1	1287.2
7.5	1513.7	1485.9	1453.4	1372.3	1387.3	1461.2	1381.5	1359.1	1315.8	1359.1
10	1611.9	1587.2	1551.6	1404.7	1467.3	1508.3	1380	1326.6	1230.8	1326.6
12.5	1762.7	1710.1	1619.6	1479.7	1487.4	1432.6	1313.5	1185.2	1131	1185.2
15	1821.4	1795.1	1753.4	1559.3	1425.2	1330.5	1191.3	1070	1015.9	1070
17.5	1816	1783.5	1748	1519.9	1351.8	1234.6	1104	972.6	945.5	972.6
20	1719.4	1731	1710.1	1508.3	1295.7	1183.6	1055.3	964.8	926.9	964.8
22.5	1708.6	1753.4	1636.7	1449.6	1268.7	1196.8	1063	981.8	923.1	981.8
25	1757.3	1745.7	1676.1	1495.2	1307.3	1204.5	1063	972.6	908.4	972.6
27.5	1843.8	1877.9	1791.3	1632.8	1387.7	1178.2	1012	928.5	870.5	928.5
30	1940.5	1966.8	1833	1634.3	1383.5	1155	964.8	902.2	815.6	902.2
32.5	2006.2	2017.8	1859.3	1736.4	1434.5	1131	951.7	898.3	819.5	898.3
35	2078.1	2006.2	1961.4	1927.3	1472.4	1196.8	998.8	904.5	772.3	904.5
37.5	2223.4	2112.1	1940.5	1577.9	1303.4	1223	961	836.5	702	836.5
40	2310	1938.9	1665.3	1482	1424.4	1226.9	968.7	698.9	453	698.9
42.5	2327	1901.1	1863.2	1821.4	1592.2	1285.7	957.1	422.9	324.7	422.9
45	2415.9	2150	2095.1	1969.1	1636.7	1313.5	760.7	313.1	264.4	313.1
47.5	2452.3	2289.9	2102.8	1915.7	1579.1	1259.4	455.4	247.4	208	247.4
50	2412.1	2231.2	2042.5	1825.3	1470.4	1145.7	313.1	196.4	156.9	196.4
52.5	2342.5	2155.4	1995.4	1791.3	1380.8	938.5	248.9	147.7	113.6	147.7
55	2261.3	2095.1	1938.9	1738.7	1303.4	633.9	200.2	102	66.5	102
57.5	2201	2053.4	1887.9	1676.1	1247.8	398.1	153.1	60.3	30.2	60.3
60	2142.3	2023.2	1850	1623.5	1209.1	290.7	107.5	26.3	6.2	26.3
62.5	2117.5	2004.6	1817.6	1580.2	1173.2	235.8	66.5	9.3	0	9.3
65	2108.2	1976	1787.4	1533.1	1054.5	183.2	34	3.9	0	3.9
67.5	2097.4	1952.1	1755.7	1489	760	130.7	11.6	2.3	0	2.3
70	2104.4	1942	1734.8	1453.4	457.7	83.5	6.2	0	0	0
72.5	2104.4	1928.9	1719.4	1419.4	317	49.5	3.9	0	0	0
75	2083.5	1923.5	1693.1	1380	242.8	24.7	0	0	0	0
77.5	2051.8	1902.6	1625.1	1293.4	168.1	7.7	0	0	0	0
80	2012.4	1847.7	1559.3	1025.1	113.3	6.2	0	0	0	0
82.5	1966.8	1793.6	1458.8	600.7	70.7	3.9	0	0	0	0
85	1901.1	1725.6	1360.7	337.8	39.8	0	0	0	0	0
87.5	1816	1636.7	1253.2	231.9	16.2	0	0	0	0	0
90	1712.4	1534.6	1104	158.5	6.2	0	0	0	0	0
92.5	1604.2	1415.5	751.5	107.5	2.3	0	0	0	0	0
95	1470.4	1281.8	358.7	66.5	0	0	0	0	0	0
97.5	1330.5	1111.7	213.4	36.3	0	0	0	0	0	0
100	1162.7	649.4	149.2	11.6	0	0	0	0	0	0
102.5	722.8	289.1	102	3.9	0	0	0	0	0	0
105	293	183.2	60.3	2.3	0	0	0	0	0	0
107.5	179.4	124.5	28.6	0	0	0	0	0	0	0
110	119.1	77.3	9.3	0	0	0	0	0	0	0
112.5	71.9	39.4	3.9	0	0	0	0	0	0	0
115	34	13.1	2.3	0	0	0	0	0	0	0
117.5	7.7	6.2	0	0	0	0	0	0	0	0
120	2.3	2.3	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

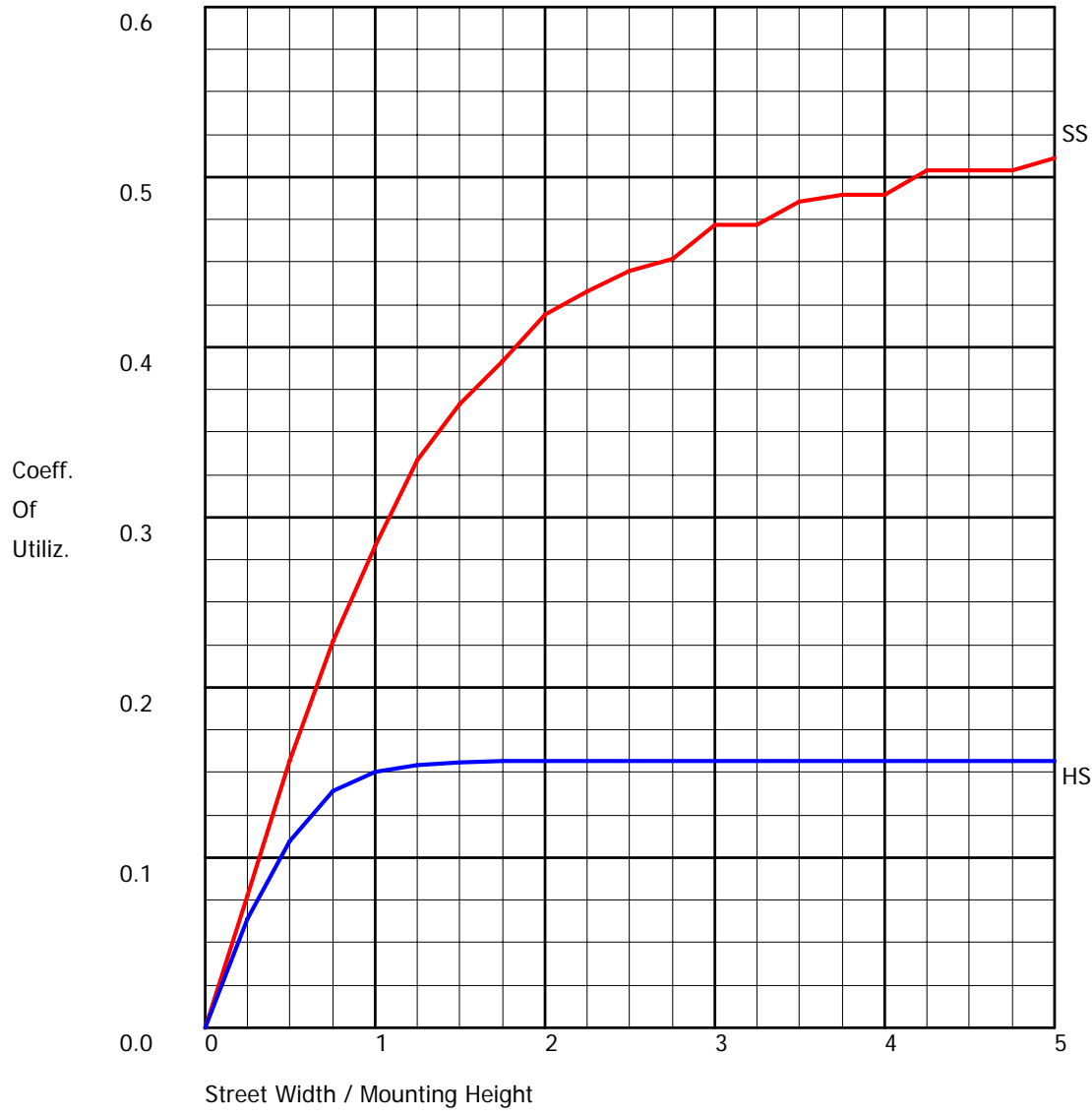
	<u>225</u>	<u>247.5</u>	<u>270</u>	<u>292.5</u>	<u>315</u>	<u>337.5</u>	<u>360</u>
0	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5
2.5	1334.4	1436.4	1418.6	1441.8	1474.3	1478.2	1487.4
5	1306.5	1387.7	1400.9	1410.1	1462.7	1457.3	1458.8
7.5	1381.5	1461.2	1387.3	1372.3	1453.4	1485.9	1513.7
10	1380	1508.3	1467.3	1404.7	1551.6	1587.2	1611.9
12.5	1313.5	1432.6	1487.4	1479.7	1619.6	1710.1	1762.7
15	1191.3	1330.5	1425.2	1559.3	1753.4	1795.1	1821.4
17.5	1104	1234.6	1351.8	1519.9	1748	1783.5	1816
20	1055.3	1183.6	1295.7	1508.3	1710.1	1731	1719.4
22.5	1063	1196.8	1268.7	1449.6	1636.7	1753.4	1708.6
25	1063	1204.5	1307.3	1495.2	1676.1	1745.7	1757.3
27.5	1012	1178.2	1387.7	1632.8	1791.3	1877.9	1843.8
30	964.8	1155	1383.5	1634.3	1833	1966.8	1940.5
32.5	951.7	1131	1434.5	1736.4	1859.3	2017.8	2006.2
35	998.8	1196.8	1472.4	1927.3	1961.4	2006.2	2078.1
37.5	961	1223	1303.4	1577.9	1940.5	2112.1	2223.4
40	968.7	1226.9	1424.4	1482	1665.3	1938.9	2310
42.5	957.1	1285.7	1592.2	1821.4	1863.2	1901.1	2327
45	760.7	1313.5	1636.7	1969.1	2095.1	2150	2415.9
47.5	455.4	1259.4	1579.1	1915.7	2102.8	2289.9	2452.3
50	313.1	1145.7	1470.4	1825.3	2042.5	2231.2	2412.1
52.5	248.9	938.5	1380.8	1791.3	1995.4	2155.4	2342.5
55	200.2	633.9	1303.4	1738.7	1938.9	2095.1	2261.3
57.5	153.1	398.1	1247.8	1676.1	1887.9	2053.4	2201
60	107.5	290.7	1209.1	1623.5	1850	2023.2	2142.3
62.5	66.5	235.8	1173.2	1580.2	1817.6	2004.6	2117.5
65	34	183.2	1054.5	1533.1	1787.4	1976	2108.2
67.5	11.6	130.7	760	1489	1755.7	1952.1	2097.4
70	6.2	83.5	457.7	1453.4	1734.8	1942	2104.4
72.5	3.9	49.5	317	1419.4	1719.4	1928.9	2104.4
75	0	24.7	242.8	1380	1693.1	1923.5	2083.5
77.5	0	7.7	168.1	1293.4	1625.1	1902.6	2051.8

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CANDELA TABULATION - (Cont.)

80	0	6.2	113.3	1025.1	1559.3	1847.7	2012.4
82.5	0	3.9	70.7	600.7	1458.8	1793.6	1966.8
85	0	0	39.8	337.8	1360.7	1725.6	1901.1
87.5	0	0	16.2	231.9	1253.2	1636.7	1816
90	0	0	6.2	158.5	1104	1534.6	1712.4
92.5	0	0	2.3	107.5	751.5	1415.5	1604.2
95	0	0	0	66.5	358.7	1281.8	1470.4
97.5	0	0	0	36.3	213.4	1111.7	1330.5
100	0	0	0	11.6	149.2	649.4	1162.7
102.5	0	0	0	3.9	102	289.1	722.8
105	0	0	0	2.3	60.3	183.2	293
107.5	0	0	0	0	28.6	124.5	179.4
110	0	0	0	0	9.3	77.3	119.1
112.5	0	0	0	0	3.9	39.4	71.9
115	0	0	0	0	2.3	13.1	34
117.5	0	0	0	0	0	6.2	7.7
120	0	0	0	0	0	2.3	2.3
122.5	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

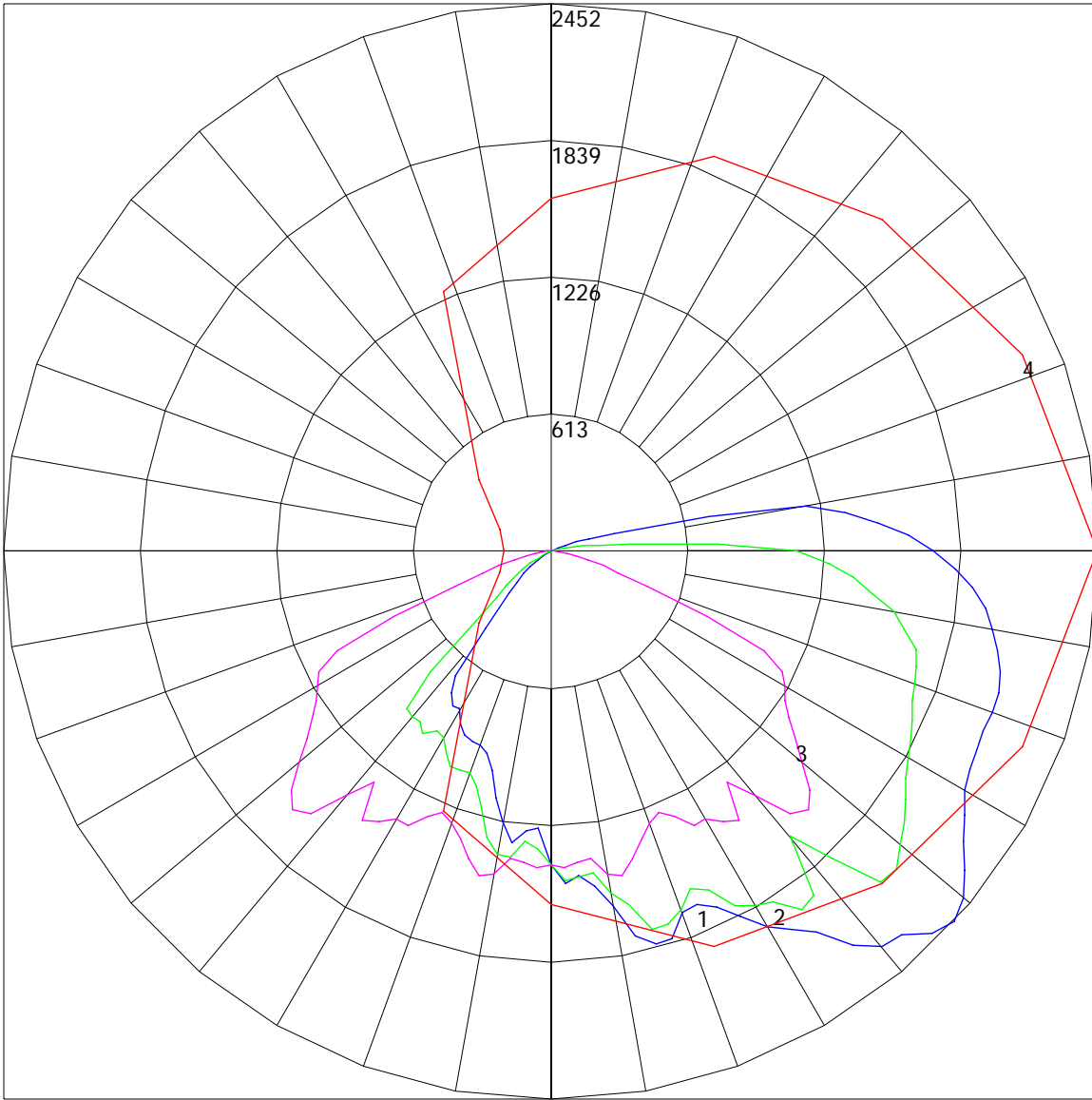
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Lamp
Downward Street Side	5139.1	57.1
Downward House Side	1413.7	15.7
Downward Total	6552.8	72.8
Upward Street Side	421.9	4.7
Upward House Side	0.1	0.0
Upward Total	422.0	4.7
Total Flux	6974.8	77.5

POLAR GRAPH



- Maximum Candela = 2452.3 Located At Horizontal Angle = 0, Vertical Angle = 47.5
- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 - # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
 - # 3 - Vertical Plane Through Horizontal Angles (90 - 270)
 - # 4 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

