

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P226210

Luminaire Tested: **MLA-B2-LED-XX-T2-XX**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P226210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29120)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MLA-B2-LED-XX-T2-XX
Description: METROLINE ARCHITECTURAL LED LUMINAIRE
70 CRI, 4000K LEDS AND TYPE II DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8617 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.75' x H: 0.17')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U1 - G2

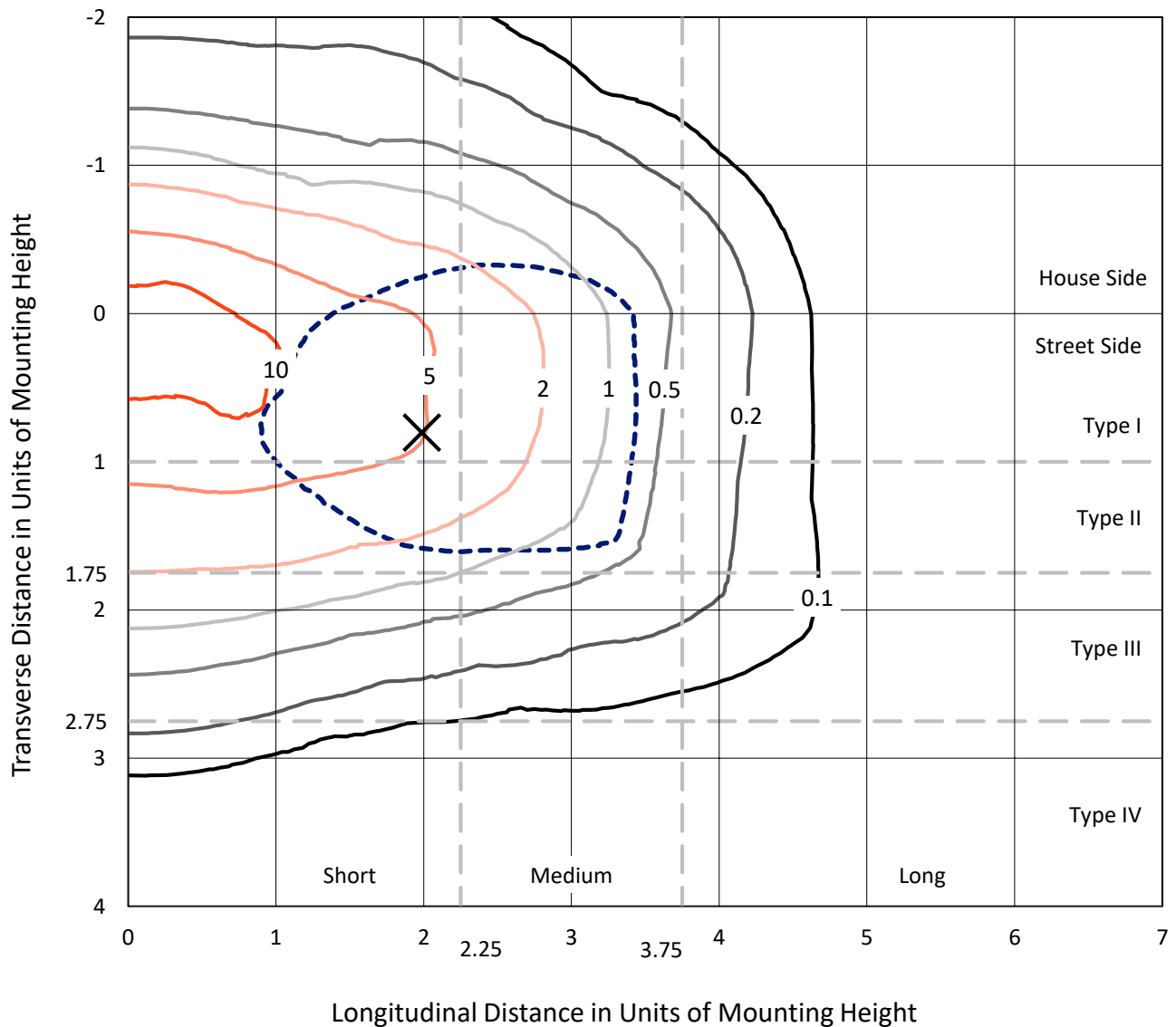
Input Watts (W): 71
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

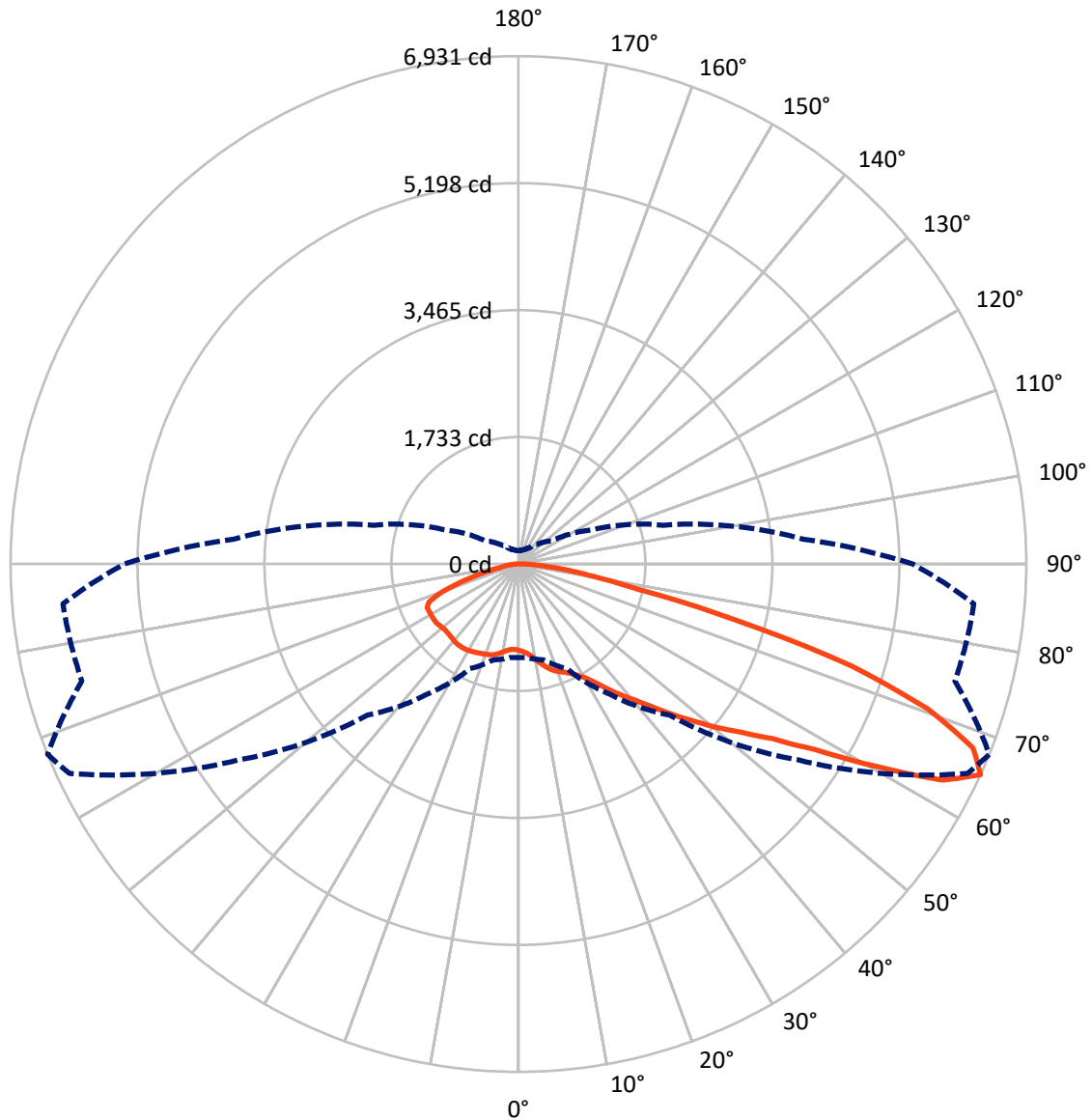
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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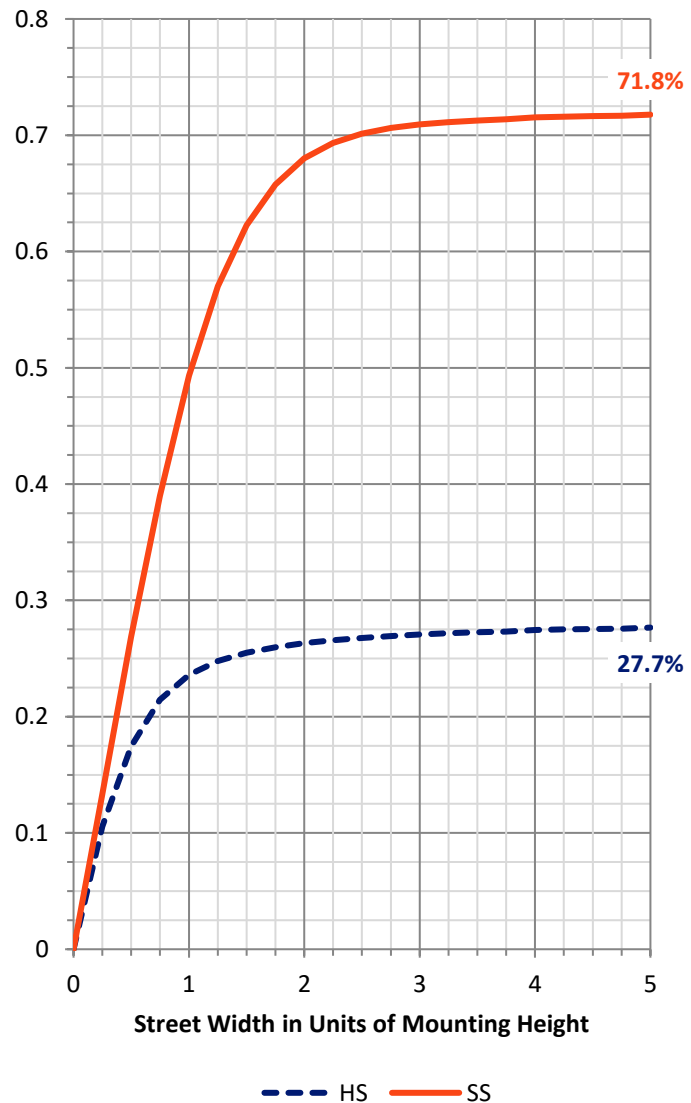
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2413.1	2.3	2415.4
	% Fixture	28.0	0.0	28.0
Street Side	Lumens	6199.0	2.6	6201.6
	% Fixture	71.9	0.0	72.0
Total	Lumens	8612.1	4.9	8617.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.3
10°-20°	376.7	4.4
20°-30°	640.1	7.4
30°-40°	912.9	10.6
40°-50°	1340.5	15.6
50°-60°	1838.7	21.3
60°-70°	2226.4	25.8
70°-80°	1031.8	12.0
80°-90°	128.8	1.5
90°-100°	4.8	0.1
100°-110°	0.1	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8612.1	99.9
0°-180°	8617.0	100.0



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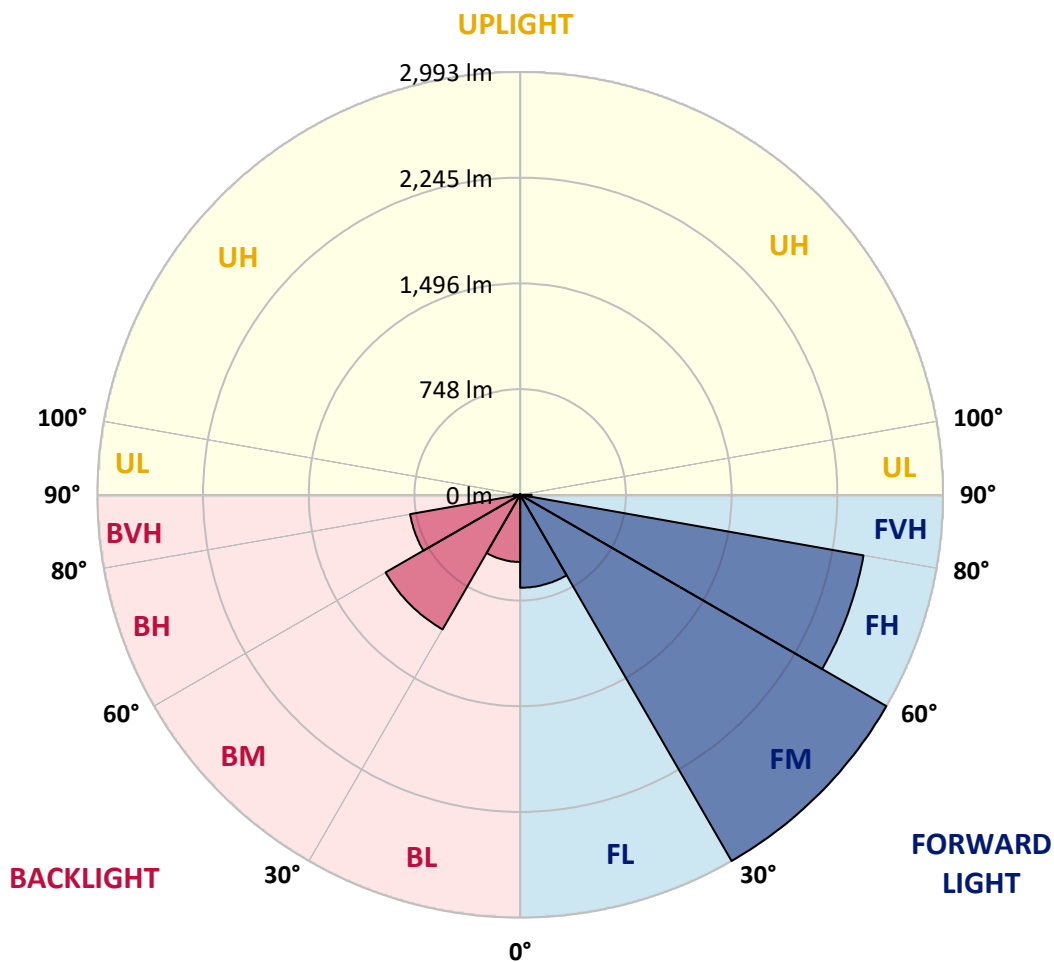
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.8	7.6			
FM (30°-60°)	2992.7	34.7			
FH (60°-80°)	2467.3	28.6			G2/5000
FVH (80°-90°)	81.3	0.9			G1/100
BL (0°-30°)	475.3	5.5	B1/500		
BM (30°-60°)	1099.4	12.8	B2/2500		
BH (60°-80°)	790.9	9.2	B2/1000		G2/1000
BVH (80°-90°)	47.5	0.6			G1/100
UL (90°-100°)	4.8	0.1		U1/10	
UH (100°-180°)	2.3	0.0		U1/10	

BUG Rating: B2-U1-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1244.7	1235.4	1223.7	1222.2	1209.0	1210.5	1205.9	1198.9	1196.6	1188.1	1175.6
5°	1304.4	1292.0	1277.2	1272.6	1256.3	1256.3	1243.1	1229.2	1224.5	1213.6	1198.1
7.5°	1374.9	1364.1	1347.0	1339.3	1317.6	1313.7	1293.5	1275.7	1268.7	1256.3	1236.9
10°	1450.9	1442.4	1422.3	1415.3	1388.1	1382.7	1357.9	1336.9	1330.0	1312.9	1287.3
12.5°	1520.0	1510.7	1494.4	1485.1	1462.6	1456.4	1429.2	1406.0	1397.4	1378.0	1348.6
15°	1575.0	1564.2	1551.0	1547.1	1529.3	1530.0	1502.1	1475.8	1466.5	1444.0	1406.7
17.5°	1610.7	1601.4	1591.3	1591.3	1583.6	1592.9	1568.8	1533.1	1523.8	1494.4	1451.7
20°	1621.6	1616.1	1612.2	1623.1	1623.9	1645.6	1625.4	1580.5	1565.7	1531.6	1489.7
22.5°	1616.1	1613.0	1616.1	1631.6	1649.5	1697.6	1678.2	1621.6	1603.7	1565.7	1532.4
25°	1599.1	1596.7	1602.9	1627.8	1664.2	1741.0	1736.3	1672.7	1652.6	1611.5	1580.5
27.5°	1569.6	1571.9	1585.1	1611.5	1674.3	1785.2	1803.8	1742.5	1717.7	1668.9	1637.1
30°	1537.8	1541.7	1568.0	1607.6	1689.8	1841.0	1896.1	1831.7	1803.0	1748.7	1705.3
32.5°	1502.1	1508.3	1550.2	1610.7	1727.0	1917.8	2015.5	1958.1	1930.2	1861.2	1797.6
35°	1472.7	1479.6	1537.8	1633.2	1787.5	2015.5	2176.0	2124.8	2090.7	2013.2	1909.3
37.5°	1491.3	1499.8	1565.7	1695.2	1886.0	2135.7	2327.2	2298.6	2262.9	2183.0	2047.3
40°	1575.8	1587.4	1668.1	1834.8	2057.4	2306.3	2491.7	2467.6	2438.1	2382.3	2226.4
42.5°	1664.2	1675.8	1778.2	2005.4	2304.8	2564.5	2701.0	2670.0	2656.1	2623.5	2457.5
45°	1717.7	1737.1	1851.1	2139.6	2535.9	2861.6	2978.7	2901.1	2917.4	2925.9	2735.9
47.5°	1754.2	1772.8	1890.6	2237.3	2709.6	3113.6	3302.0	3153.9	3195.0	3224.5	3010.5
50°	1776.7	1795.3	1916.2	2296.2	2812.7	3274.9	3612.2	3449.4	3502.1	3507.5	3277.2
52.5°	1778.2	1796.0	1910.8	2297.8	2832.9	3368.7	3848.0	3786.7	3817.7	3794.5	3581.2
55°	1734.8	1751.1	1864.3	2226.4	2755.3	3391.2	4065.9	4200.1	4203.9	4172.9	4007.7
57.5°	1670.4	1682.8	1788.3	2124.1	2643.6	3364.1	4290.0	4800.3	4777.8	4749.9	4680.9
60°	1629.3	1637.1	1730.1	2041.1	2563.8	3273.3	4556.0	5630.1	5607.6	5459.5	5553.3
62.5°	1524.6	1530.0	1625.4	1917.8	2490.9	3131.4	4701.8	6466.0	6494.0	5985.2	6103.9
65°	1277.2	1279.6	1355.6	1578.1	2164.4	2913.5	4662.3	6762.3	6930.6	6167.5	6239.6
67.5°	929.8	927.5	968.6	1106.6	1552.5	2507.2	4389.3	6338.9	6690.9	6290.8	6114.7
70°	603.3	604.1	627.4	689.4	926.7	1761.1	3542.4	5570.4	5925.5	6089.2	5562.6
72.5°	315.6	325.7	318.0	348.2	523.5	1007.4	2307.1	4592.5	4752.2	4917.4	4330.3
75°	158.2	164.4	173.7	186.9	265.2	591.7	1349.4	3218.3	3080.3	2708.0	2477.7
77.5°	117.1	121.8	131.8	139.6	166.0	338.9	937.6	1814.6	1666.5	1312.9	1181.1
80°	83.0	88.4	105.5	113.2	123.3	163.6	608.0	1041.5	1052.3	795.7	392.4
82.5°	46.5	56.6	76.8	87.6	89.2	103.1	246.6	652.2	677.8	437.4	141.9
85°	23.3	34.9	55.1	65.9	59.7	64.4	121.8	313.3	335.0	245.8	77.5
87.5°	1.6	20.9	38.0	45.0	41.1	41.1	57.4	141.9	146.6	128.7	44.2
90°	0.0	12.4	23.3	27.1	23.3	20.2	23.3	45.8	49.6	38.0	9.3
92.5°	0.0	4.7	10.9	10.1	7.8	4.7	3.9	2.3	1.6	0.8	0.8
95°	0.0	0.8	2.3	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.8
100°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.8
102.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1174.9	1172.5	1168.7	1164.8	1162.5	1158.6	1147.0	1142.3	1145.4	1158.6	1160.9
5°	1195.8	1191.2	1176.4	1164.0	1154.7	1145.4	1126.8	1118.3	1115.9	1126.8	1130.7
7.5°	1229.9	1223.7	1200.5	1178.0	1157.8	1139.2	1110.5	1094.2	1088.0	1095.8	1098.9
10°	1280.3	1267.9	1235.4	1200.5	1168.7	1137.6	1096.5	1070.2	1057.8	1062.4	1064.0
12.5°	1336.2	1321.4	1278.0	1229.9	1184.2	1139.2	1082.6	1045.4	1027.5	1028.3	1029.1
15°	1392.0	1371.8	1318.3	1258.6	1198.9	1140.7	1070.2	1022.1	995.0	993.4	993.4
17.5°	1433.1	1410.6	1345.5	1275.7	1208.2	1139.2	1056.2	997.3	966.3	959.3	959.3
20°	1471.1	1444.7	1364.1	1283.4	1206.7	1133.0	1038.4	970.9	931.4	921.3	922.8
22.5°	1511.4	1478.1	1381.9	1291.2	1202.0	1122.1	1018.2	936.0	888.7	877.1	877.9
25°	1555.6	1514.5	1402.1	1302.0	1201.2	1105.1	981.8	887.2	838.3	826.7	827.4
27.5°	1607.6	1551.8	1420.7	1312.9	1194.3	1072.5	926.7	833.7	784.0	773.2	773.2
30°	1669.6	1594.4	1445.5	1321.4	1171.8	1020.5	870.9	780.1	729.7	717.3	715.0
32.5°	1743.3	1649.5	1481.2	1322.2	1131.4	956.2	815.0	728.2	677.8	662.3	661.5
35°	1838.7	1720.8	1525.4	1309.8	1078.7	897.2	768.5	677.0	625.8	611.9	611.1
37.5°	1954.2	1820.9	1577.3	1287.3	1026.0	846.8	715.8	625.0	569.2	552.1	551.4
40°	2115.5	1950.4	1621.6	1259.4	978.7	800.3	661.5	563.8	507.2	490.9	488.6
42.5°	2307.1	2092.3	1649.5	1232.3	943.0	746.0	595.6	498.6	447.5	438.2	435.8
45°	2511.8	2235.0	1666.5	1212.1	911.2	680.9	521.1	441.3	400.2	390.8	388.5
47.5°	2715.0	2361.4	1680.5	1203.6	870.9	600.2	459.1	397.1	361.4	352.8	350.5
50°	2925.9	2473.0	1698.3	1202.0	812.7	521.9	408.7	359.1	325.7	314.8	311.7
52.5°	3170.2	2599.4	1730.1	1206.7	729.7	466.8	373.8	321.1	287.7	275.3	272.2
55°	3496.7	2771.6	1768.9	1210.5	636.7	433.5	344.3	283.8	250.5	238.1	235.0
57.5°	3989.1	3019.0	1811.5	1195.0	570.0	414.1	314.1	249.7	221.8	211.7	210.9
60°	4637.4	3348.6	1870.5	1167.9	536.6	400.2	288.5	227.2	207.1	197.0	195.4
62.5°	5139.2	3664.2	1953.5	1132.2	532.0	390.1	273.7	219.5	199.3	186.9	186.1
65°	5378.0	3901.5	2047.3	1096.5	549.0	389.3	273.7	220.2	197.0	183.0	180.7
67.5°	5357.1	3942.6	2016.3	1026.8	547.5	392.4	283.1	223.3	199.3	182.2	179.9
70°	4977.1	3715.4	1811.5	862.3	492.4	366.0	280.0	224.9	200.9	179.9	176.0
72.5°	4097.7	3184.9	1475.0	629.7	407.9	312.5	257.5	219.5	194.6	173.7	169.8
75°	2632.8	2258.2	1055.4	425.0	318.7	259.8	226.4	204.0	178.4	160.5	158.2
77.5°	1156.3	1005.0	558.4	304.0	252.0	208.6	186.9	173.7	157.4	134.9	128.7
80°	313.3	263.7	233.4	248.9	195.4	164.4	149.7	142.7	131.8	102.4	95.4
82.5°	125.6	121.8	148.9	191.5	139.6	115.5	114.0	109.3	106.2	74.4	67.5
85°	71.3	72.9	93.1	119.4	82.2	69.8	73.7	77.5	79.1	51.2	47.3
87.5°	36.4	38.8	58.9	57.4	47.3	35.7	41.1	47.3	48.9	27.1	19.4
90°	4.7	7.0	23.3	24.8	19.4	14.0	18.6	21.7	24.8	13.2	2.3
92.5°	0.8	0.8	1.6	4.7	5.4	3.9	5.4	7.8	9.3	4.7	0.0
95°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.3	3.1	0.8	0.0
97.5°	0.8	0.8	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
100°	0.8	0.8	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226210

CATALOG NUMBER: MLA-B2-LED-XX-T2-XX

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)