

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: P226213

Luminaire Tested: **MLA-B2-LED-XX-T3-8030-XX**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29662)  
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-T3-8030-XX  
Description: METROLINE ARCHITECTURAL LED LUMINAIRE  
80 CRI, 3000K LEDS AND TYPE III DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7648 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.75' x H: 0.17')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U1 - G2

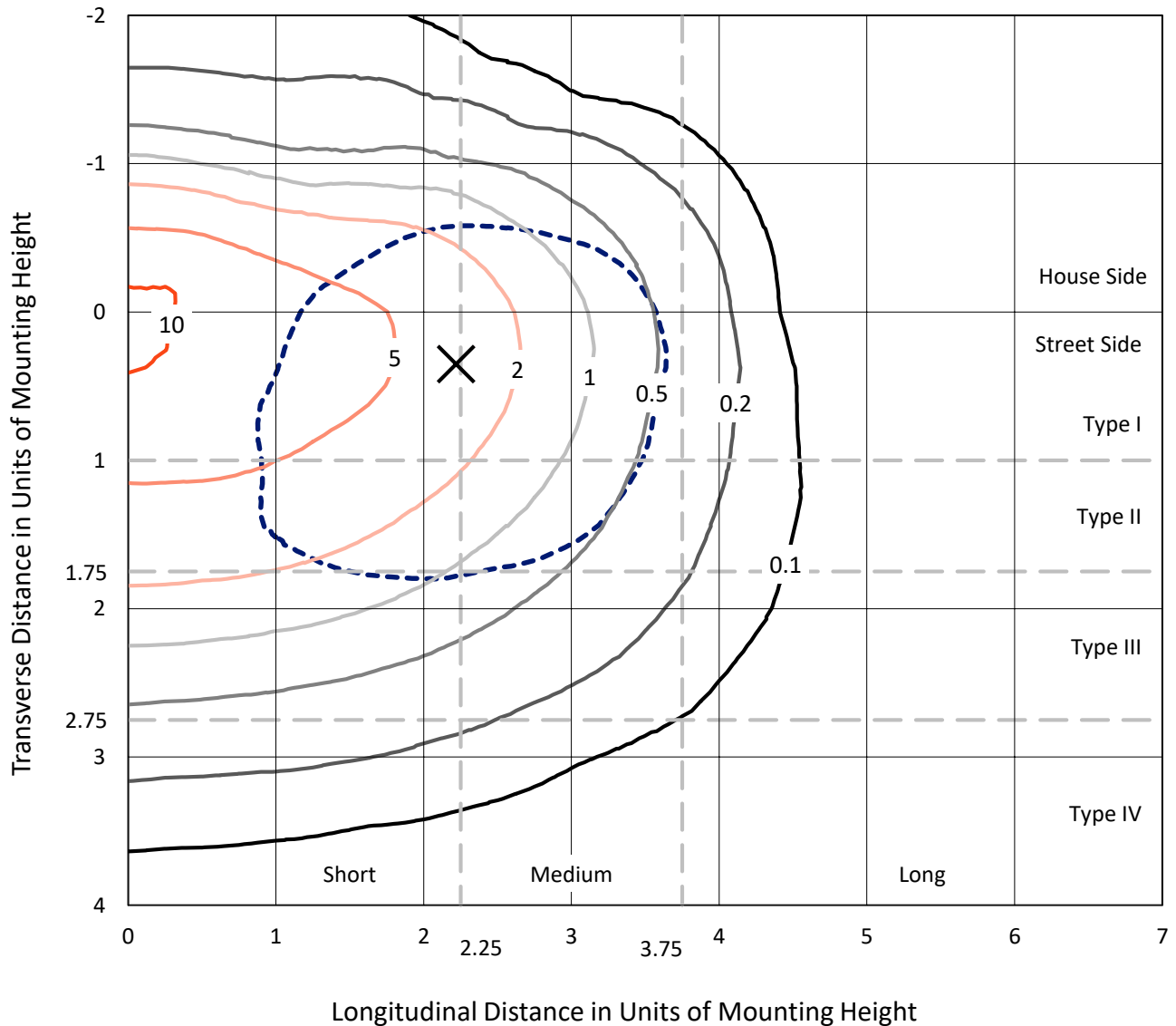
Input Watts (W): 71  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

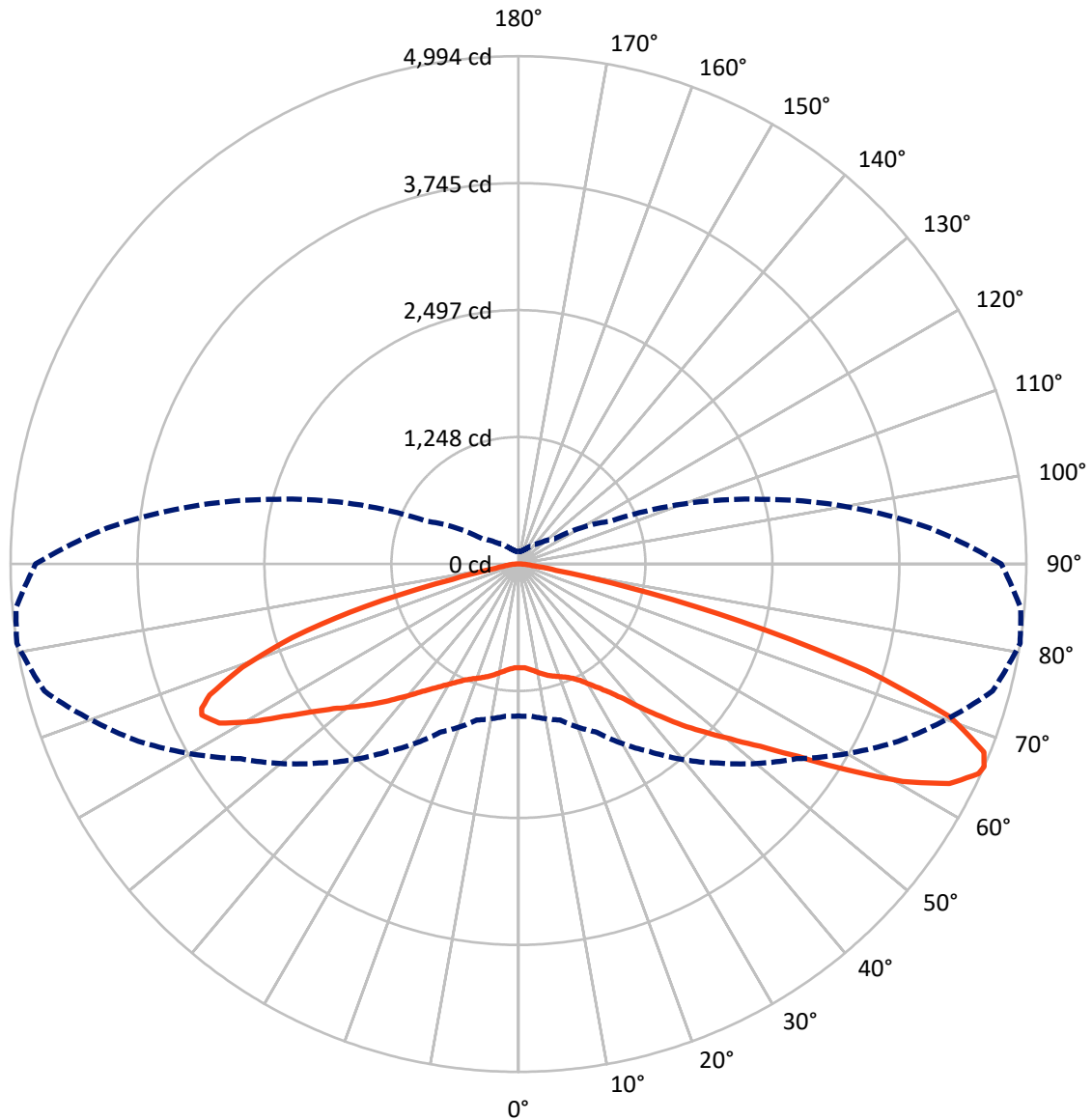
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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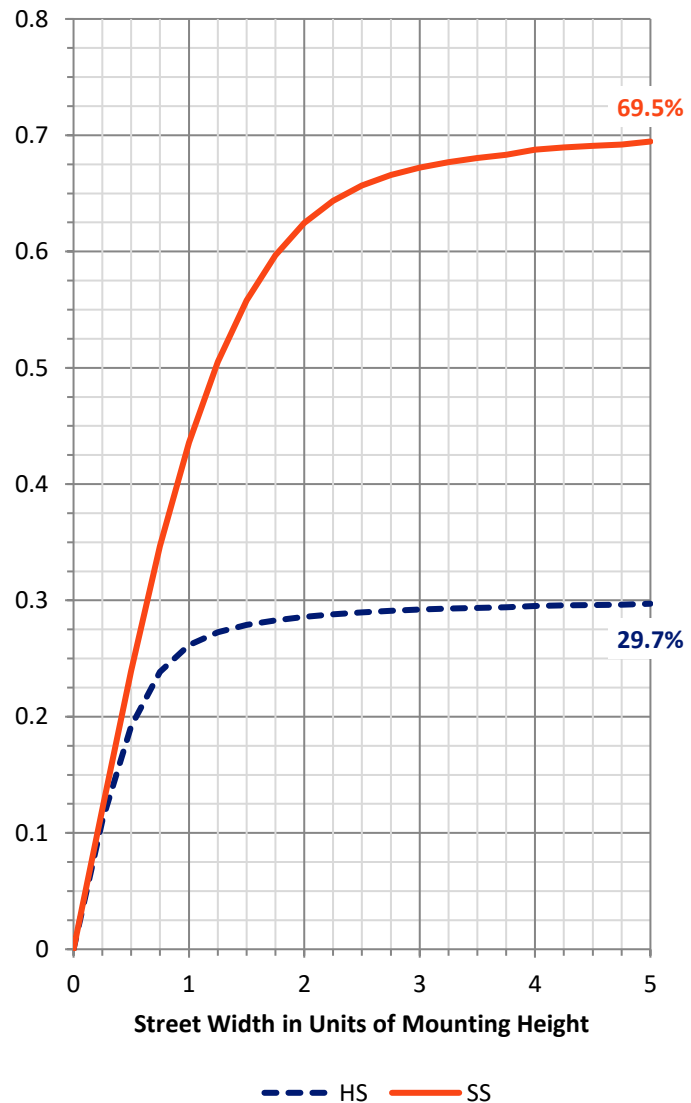
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2300.1	2.7	2302.8
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	5341.1	4.0	5345.2
	% Fixture	69.8	0.1	69.9
<b>Total</b>	Lumens	7641.2	6.8	7648.0
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	1.3
10°-20°	318.0	4.2
20°-30°	542.8	7.1
30°-40°	811.7	10.6
40°-50°	1162.6	15.2
50°-60°	1593.9	20.8
60°-70°	1952.0	25.5
70°-80°	990.5	13.0
80°-90°	169.6	2.2
90°-100°	6.7	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°	7641.2	99.9
0°-180°	7648.0	100.0



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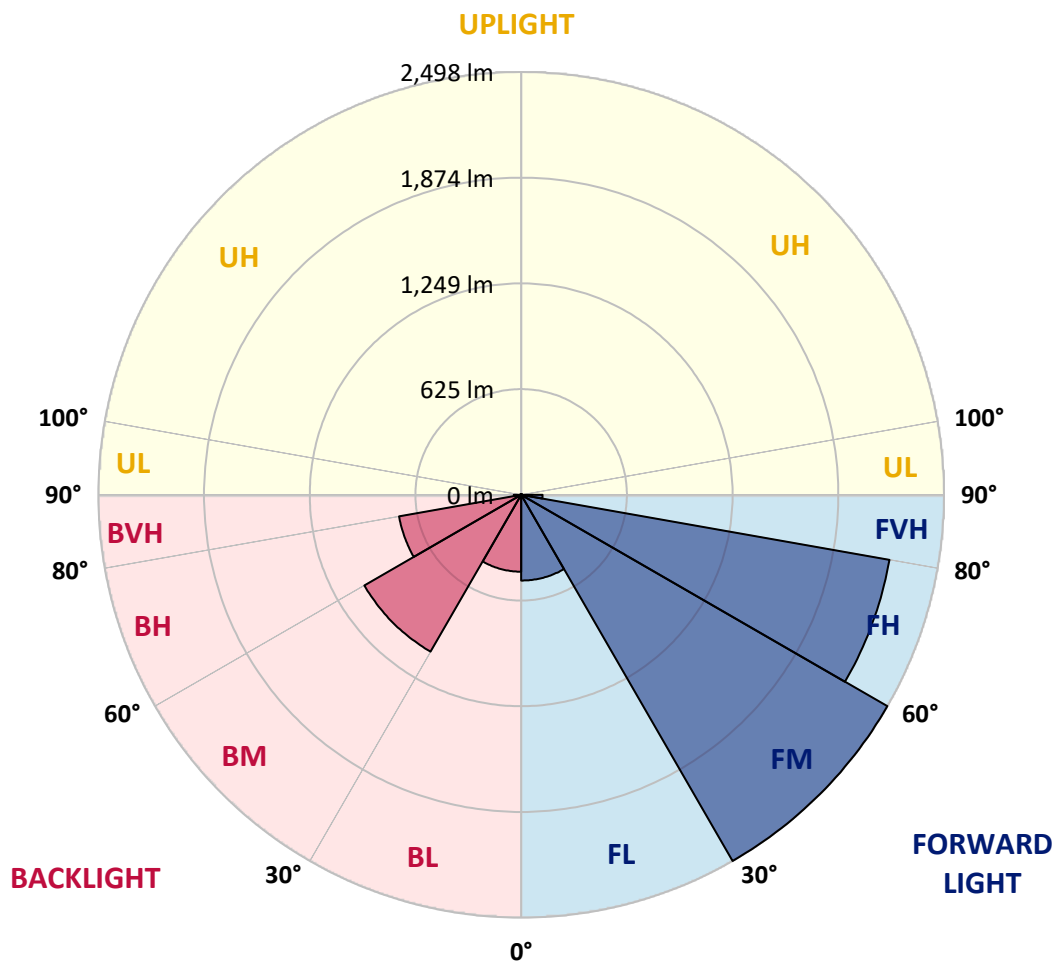
CATALOG NUMBER: MLA-B2-LED-XX-T3-8030-XX

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.6	6.6			
FM	(30°-60°)	2498.3	32.7			
FH	(60°-80°)	2209.7	28.9			G2/5000
FVH	(80°-90°)	126.4	1.7			G2/225
BL	(0°-30°)	454.4	5.9	B1/500		
BM	(30°-60°)	1069.8	14.0	B2/2500		
BH	(60°-80°)	732.7	9.6	B2/1000		G2/1000
BVH	(80°-90°)	43.2	0.6			G1/100
UL	(90°-100°)	6.7	0.1		U1/10	
UH	(100°-180°)	2.7	0.0		U1/10	

**BUG Rating: B2-U1-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1038.4	1035.3	1025.8	1023.9	1020.1	1027.7	1028.3	1028.3	1022.6	1020.1	1018.2
5°	1048.6	1045.4	1035.9	1035.3	1030.2	1039.1	1039.7	1038.4	1035.9	1035.9	1035.9
7.5°	1077.0	1073.3	1063.1	1057.4	1049.8	1056.2	1056.8	1056.8	1056.2	1057.4	1058.1
10°	1120.7	1112.5	1101.1	1091.0	1077.7	1080.8	1079.6	1082.1	1081.5	1085.3	1084.0
12.5°	1159.3	1153.6	1139.7	1128.3	1111.2	1110.6	1104.9	1104.9	1108.1	1113.1	1113.1
15°	1192.9	1189.1	1175.1	1165.0	1147.9	1140.3	1129.6	1129.6	1134.0	1138.4	1137.8
17.5°	1221.3	1220.7	1204.9	1197.9	1180.2	1172.0	1153.6	1151.7	1156.8	1159.3	1159.3
20°	1248.5	1246.6	1232.1	1223.9	1209.9	1206.1	1175.8	1170.7	1178.3	1182.7	1182.1
22.5°	1266.9	1263.1	1249.8	1242.8	1235.9	1237.1	1203.0	1191.6	1203.0	1209.3	1208.0
25°	1281.4	1278.9	1261.8	1259.3	1259.9	1272.0	1237.1	1227.7	1240.3	1245.4	1244.1
27.5°	1299.2	1296.0	1280.2	1275.1	1289.0	1314.4	1290.3	1277.0	1290.9	1297.9	1298.5
30°	1337.8	1335.2	1314.4	1306.8	1331.4	1378.9	1361.8	1348.5	1350.4	1370.0	1372.6
32.5°	1427.0	1423.2	1401.0	1387.1	1414.3	1475.1	1465.6	1447.9	1434.0	1452.9	1458.0
35°	1519.4	1515.6	1502.3	1495.3	1537.1	1614.9	1606.1	1582.0	1538.4	1551.7	1554.8
37.5°	1574.4	1578.9	1582.7	1602.9	1672.5	1775.7	1779.5	1747.8	1677.6	1680.8	1676.3
40°	1622.5	1627.6	1646.6	1701.6	1810.5	1931.3	1982.0	1937.7	1864.3	1857.3	1839.6
42.5°	1661.8	1672.5	1706.7	1795.3	1936.4	2078.8	2166.8	2126.3	2070.6	2047.2	2023.7
45°	1708.6	1716.2	1764.9	1884.5	2047.2	2217.4	2331.3	2310.4	2278.1	2260.4	2206.6
47.5°	1745.3	1758.6	1811.1	1954.1	2145.2	2343.9	2488.2	2503.4	2504.7	2468.0	2407.9
50°	1794.0	1810.5	1856.7	2014.9	2211.7	2443.9	2635.0	2697.7	2740.1	2703.4	2612.9
52.5°	1847.2	1868.1	1916.8	2095.2	2276.9	2521.1	2766.7	2896.4	2998.9	2976.8	2879.9
55°	1916.8	1935.1	1990.2	2192.1	2368.6	2612.3	2910.9	3138.8	3351.4	3341.9	3247.0
57.5°	1990.2	2000.3	2062.3	2281.9	2495.2	2765.4	3085.0	3471.0	3811.4	3821.6	3719.7
60°	1935.1	1944.0	2016.8	2275.6	2561.0	2912.8	3269.7	3852.6	4315.2	4339.8	4253.1
62.5°	1780.1	1788.3	1873.1	2155.4	2507.2	2941.3	3393.8	4109.5	4685.3	4754.3	4649.3
65°	1582.7	1591.5	1678.9	1927.5	2350.3	2843.2	3388.7	4170.2	4834.1	4972.0	4915.1
66°	1494.1	1502.3	1587.7	1824.4	2251.5	2767.3	3336.2	4122.1	4826.5	4993.5	4958.1
67.5°	1358.0	1337.1	1413.7	1663.7	2078.2	2613.5	3191.9	4008.2	4731.5	4935.9	4923.3
70°	1039.1	1021.4	1103.0	1322.6	1710.5	2249.7	2836.9	3622.2	4323.4	4502.5	4527.8
72.5°	715.1	702.4	777.7	965.0	1282.1	1757.3	2302.2	2983.1	3496.9	3572.9	3669.1
75°	504.4	496.8	541.7	643.6	860.0	1210.6	1697.2	2122.5	2288.9	2258.5	2354.1
77.5°	294.9	301.9	362.6	445.5	596.1	762.5	1154.9	1306.1	1216.3	1083.4	1023.3
80°	146.2	147.4	201.2	266.4	424.6	575.9	751.1	846.7	766.3	375.3	277.2
82.5°	67.7	74.0	99.4	122.8	189.2	416.4	635.3	809.4	687.9	153.8	122.8
85°	29.1	38.6	63.9	75.9	79.7	166.4	518.9	729.6	437.9	93.0	74.7
87.5°	8.9	20.9	43.7	53.2	48.1	60.8	194.3	332.9	158.8	46.2	41.8
90°	0.0	12.7	27.2	30.4	26.6	24.7	56.3	102.5	41.1	16.5	15.2
92.5°	0.0	5.7	15.2	14.6	10.8	7.0	8.2	8.2	2.5	1.9	1.9
95°	0.0	1.3	5.7	3.8	2.5	1.3	0.6	0.6	0.6	0.6	0.6
97.5°	0.0	0.0	0.6	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6
100°	0.0	0.0	0.6	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6
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



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1021.4	1020.1	1022.6	1025.8	1027.1	1028.3	1018.2	1018.2	1021.4	1033.4	1034.0
5°	1038.4	1035.9	1034.6	1035.9	1037.8	1039.7	1029.0	1028.3	1031.5	1042.9	1044.8
7.5°	1059.3	1057.4	1055.5	1053.6	1053.6	1054.9	1042.2	1040.3	1044.1	1055.5	1056.8
10°	1085.9	1083.4	1079.6	1077.0	1075.8	1073.9	1054.3	1047.3	1047.9	1058.7	1060.6
12.5°	1111.2	1110.6	1108.1	1108.7	1104.9	1095.4	1063.1	1046.0	1039.7	1047.3	1049.8
15°	1135.9	1135.9	1140.3	1144.8	1135.3	1112.5	1068.2	1037.8	1021.4	1027.1	1028.3
17.5°	1158.0	1160.6	1170.1	1175.8	1159.9	1128.3	1067.6	1022.0	994.8	995.4	995.4
20°	1183.4	1185.9	1198.5	1200.4	1178.3	1137.2	1058.7	995.4	960.6	956.8	953.6
22.5°	1208.0	1212.5	1224.5	1221.3	1189.7	1136.5	1040.3	965.7	923.3	916.3	913.1
25°	1240.9	1248.5	1256.1	1241.6	1196.6	1125.1	1012.5	932.1	879.6	867.0	863.2
27.5°	1290.9	1298.5	1294.7	1261.8	1197.9	1101.1	984.0	891.0	824.6	805.6	803.7
30°	1361.8	1362.4	1337.8	1281.4	1192.9	1077.0	942.9	835.9	760.6	739.8	738.5
32.5°	1446.0	1432.7	1384.0	1296.0	1179.6	1039.7	884.0	769.5	696.7	675.8	672.0
35°	1537.7	1518.8	1434.0	1311.8	1154.9	981.5	813.2	701.8	634.7	615.1	611.9
37.5°	1648.5	1618.7	1490.3	1322.6	1113.8	906.8	739.1	634.7	568.9	549.3	544.9
40°	1790.9	1745.3	1554.8	1323.2	1051.1	818.2	663.8	563.2	499.9	479.7	477.8
42.5°	1961.7	1883.3	1620.0	1311.8	978.3	742.9	589.8	487.3	427.1	404.4	405.0
45°	2142.7	2044.0	1690.2	1289.7	910.0	657.5	502.5	410.1	356.3	339.2	338.6
47.5°	2328.1	2207.9	1764.9	1265.0	834.0	575.9	424.6	337.9	296.2	287.3	282.2
50°	2521.1	2382.5	1839.0	1239.7	749.3	495.5	349.9	279.1	244.9	236.0	232.9
52.5°	2762.9	2573.0	1910.5	1218.8	667.0	417.0	288.6	233.5	202.5	193.0	190.5
55°	3109.0	2842.0	1997.2	1192.2	596.1	348.0	245.5	196.8	172.1	163.3	160.7
57.5°	3559.6	3175.5	2111.7	1156.1	532.2	302.5	213.3	173.4	156.9	148.1	146.2
60°	4063.3	3566.5	2282.6	1120.7	480.3	278.4	196.2	164.5	148.7	139.9	138.6
62.5°	4510.7	3903.2	2473.0	1088.4	453.1	273.4	195.5	161.4	141.8	132.3	131.0
65°	4736.6	4075.3	2511.0	1035.9	439.8	286.7	208.2	160.7	136.1	125.3	124.0
66°	4747.4	4061.4	2461.0	997.3	429.7	291.1	213.3	160.1	133.5	122.8	121.5
67.5°	4658.8	3947.5	2322.4	900.5	403.7	289.2	218.3	158.8	129.7	118.3	117.7
70°	4218.3	3521.6	1957.3	699.9	341.7	262.6	208.2	152.5	122.8	111.4	109.5
72.5°	3385.6	2885.0	1515.0	501.2	281.6	228.4	189.8	143.6	116.4	104.4	102.5
75°	2175.6	1919.3	1033.4	360.1	238.6	200.0	167.1	136.7	109.5	96.8	95.6
77.5°	765.1	747.4	542.3	277.8	206.9	172.8	144.3	122.8	99.4	79.1	75.3
80°	198.7	208.8	250.6	238.6	174.7	144.3	119.6	104.4	85.4	62.6	61.4
82.5°	107.6	115.2	155.0	189.2	140.5	114.5	94.9	79.7	67.7	50.6	46.8
85°	68.3	72.1	100.6	115.2	91.8	84.8	70.2	57.6	50.0	32.3	29.1
87.5°	43.0	50.0	63.9	62.0	47.5	36.1	46.8	38.6	34.8	19.6	14.6
90°	12.7	17.1	25.3	25.9	19.6	14.6	22.8	22.8	22.1	10.8	0.0
92.5°	1.3	1.3	1.9	4.4	5.1	5.7	9.5	12.0	12.0	2.5	0.0
95°	0.6	0.6	0.6	1.3	1.9	2.5	3.2	5.1	5.1	0.6	0.0
97.5°	0.6	0.6	1.3	1.3	1.3	1.3	0.6	1.3	0.6	0.0	0.0
100°	0.6	1.3	1.3	1.3	1.3	1.3	1.3	0.6	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



REPORT NUMBER: P226213

CATALOG NUMBER: MLA-B2-LED-XX-T3-8030-XX

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)