

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: McGRAW-EDISON

Report Number: P197596

Luminaire Tested: **TT-C4-LED-E1-MQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-MQ-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6482.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 58
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



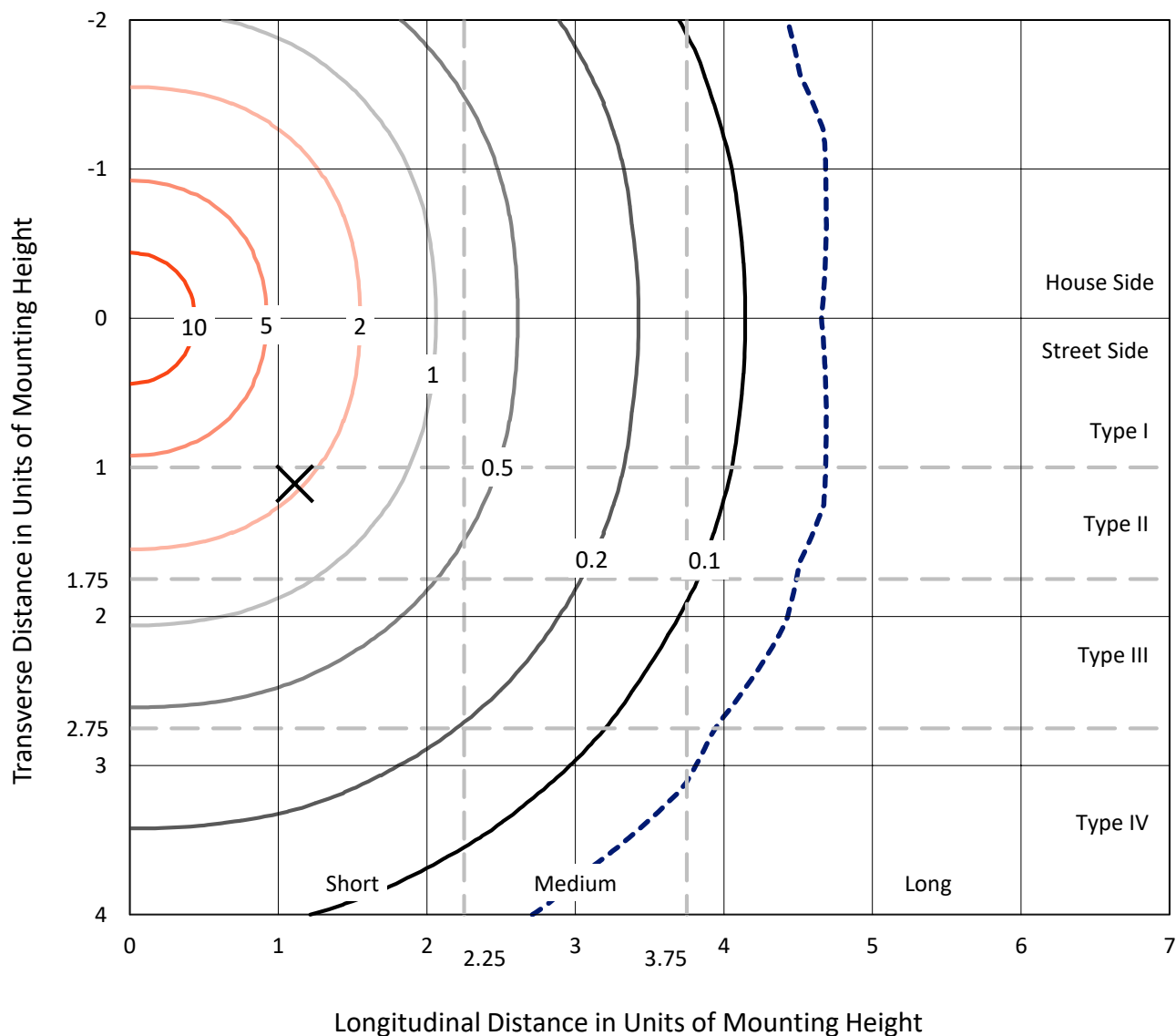
REPORT NUMBER: P197596

CATALOG NUMBER: TT-C4-LED-E1-MQ-LWR-LW-7060

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

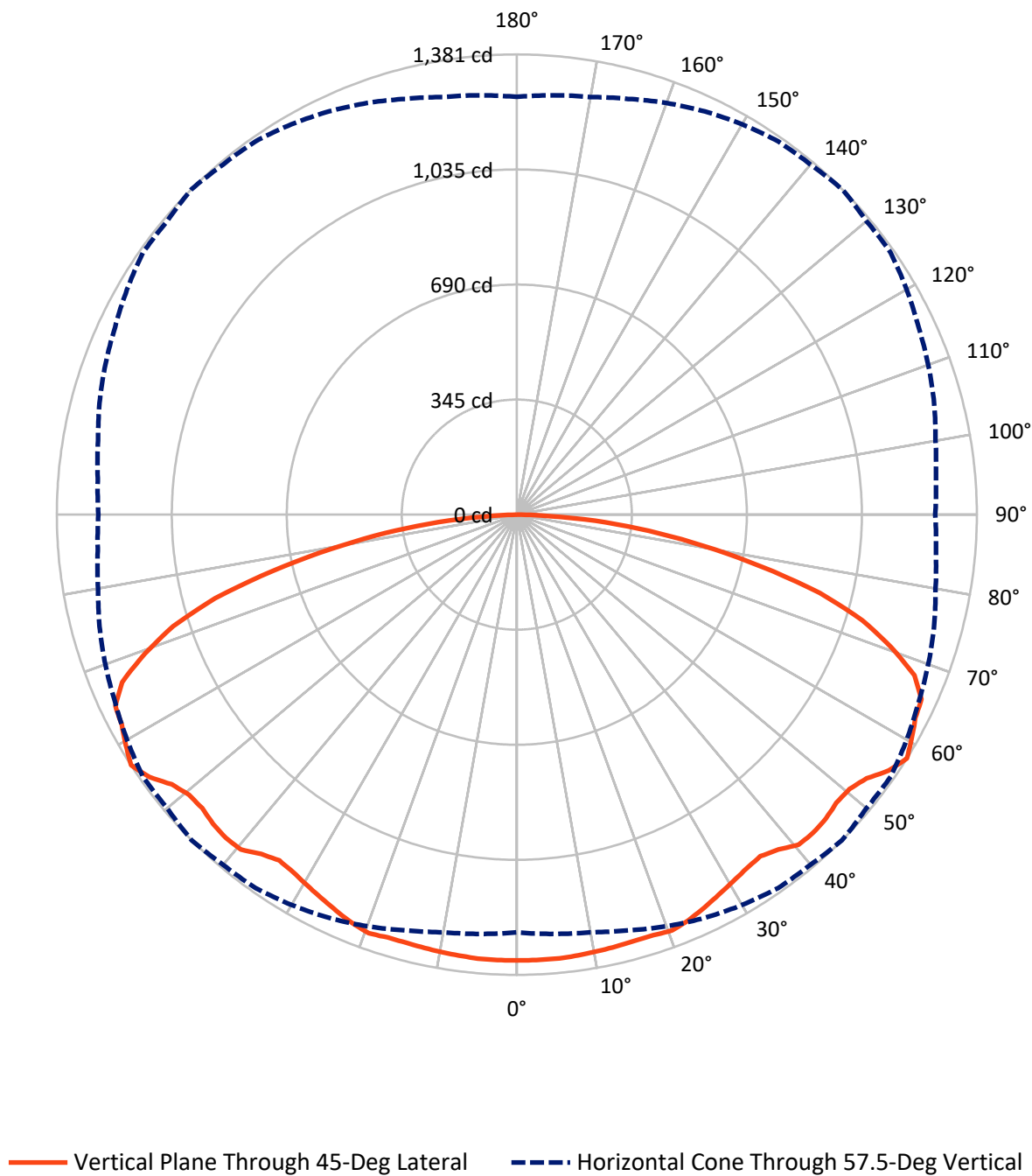


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197596

CATALOG NUMBER: TT-C4-LED-E1-MQ-LWR-LW-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197596

CATALOG NUMBER: TT-C4-LED-E1-MQ-LWR-LW-7060

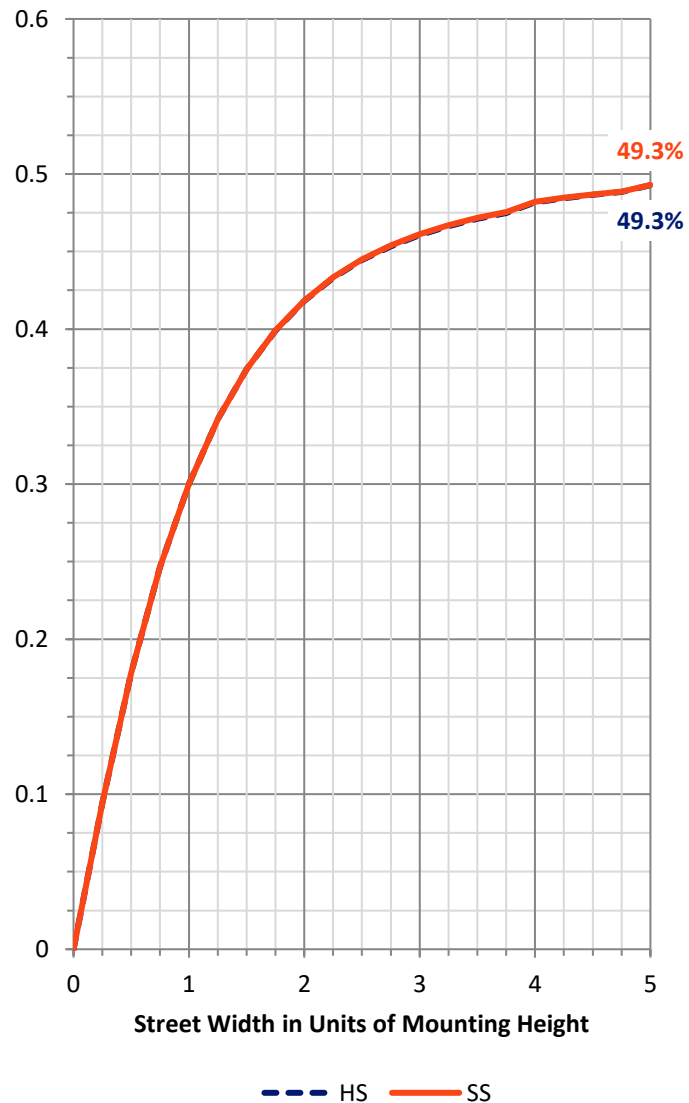
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3241.3	0.0	3241.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3241.3	0.0	3241.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6482.6	0.0	6482.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.0
10°-20°	375.8	5.8
20°-30°	602.0	9.3
30°-40°	792.5	12.2
40°-50°	987.0	15.2
50°-60°	1162.7	17.9
60°-70°	1236.1	19.1
70°-80°	926.9	14.3
80°-90°	272.2	4.2
90°-100°	0.0	0.0
100°-110°	0.0	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°	6482.6	100.0
0°-180°	6482.6	100.0

Coefficient of Utilization



REPORT NUMBER: P197596

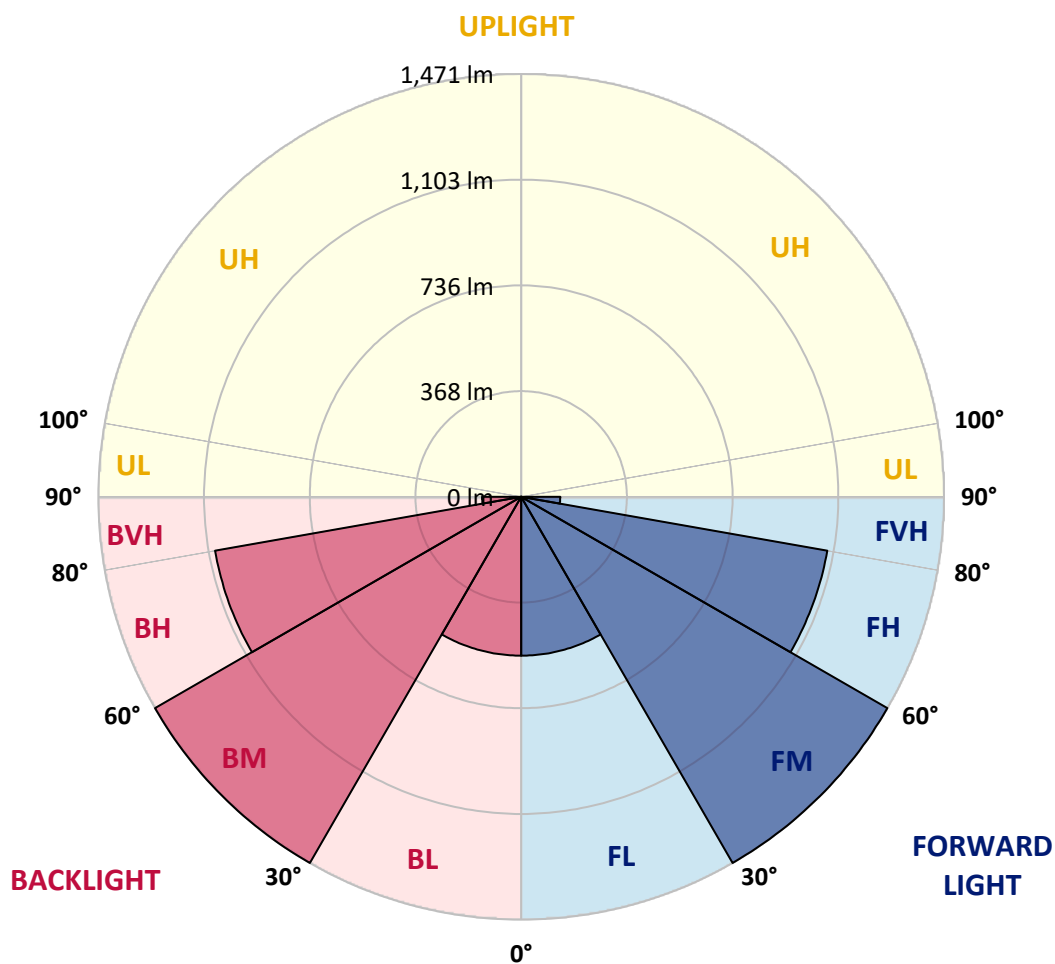
CATALOG NUMBER: TT-C4-LED-E1-MQ-LWR-LW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.6	8.5			
FM	(30°-60°)	1471.1	22.7			
FH	(60°-80°)	1081.5	16.7			G1/1800
FVH	(80°-90°)	136.1	2.1			G2/225
BL	(0°-30°)	552.6	8.5	B2/1000		
BM	(30°-60°)	1471.1	22.7	B2/2500		
BH	(60°-80°)	1081.5	16.7	B3/2500		G1/1800
BVH	(80°-90°)	136.1	2.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P197596

CATALOG NUMBER: TT-C4-LED-E1-MQ-LWR-LW-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2
2.5°	1335.8	1335.8	1335.8	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2
5°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1337.2	1337.2	1337.2	1337.2	1337.2
7.5°	1333.1	1333.1	1333.1	1333.1	1333.1	1334.5	1334.5	1334.5	1334.5	1334.5	1334.5
10°	1330.4	1330.4	1330.4	1330.4	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8
12.5°	1327.7	1327.7	1326.3	1327.7	1327.7	1327.7	1329.0	1329.0	1329.0	1329.0	1329.0
15°	1322.3	1322.3	1323.6	1323.6	1325.0	1325.0	1325.0	1325.0	1326.3	1326.3	1326.3
17.5°	1319.5	1319.5	1320.9	1322.3	1322.3	1323.6	1325.0	1325.0	1326.3	1326.3	1326.3
20°	1323.6	1323.6	1323.6	1325.0	1326.3	1327.7	1329.0	1330.4	1330.4	1331.8	1330.4
22.5°	1315.5	1315.5	1315.5	1316.8	1316.8	1316.8	1318.2	1319.5	1319.5	1320.9	1319.5
25°	1300.5	1300.5	1301.9	1301.9	1303.3	1303.3	1304.6	1304.6	1304.6	1306.0	1306.0
27.5°	1285.6	1284.2	1287.0	1287.0	1288.3	1288.3	1289.7	1291.0	1291.0	1291.0	1292.4
30°	1269.3	1269.3	1270.7	1270.7	1272.0	1273.4	1274.7	1276.1	1276.1	1277.5	1277.5
32.5°	1251.7	1253.0	1254.4	1255.7	1257.1	1259.8	1261.2	1262.5	1263.9	1265.2	1263.9
35°	1239.4	1240.8	1242.2	1244.9	1248.9	1251.7	1254.4	1257.1	1258.5	1258.5	1258.5
37.5°	1242.2	1243.5	1246.2	1251.7	1258.5	1262.5	1268.0	1272.0	1273.4	1274.7	1274.7
40°	1257.1	1259.8	1263.9	1270.7	1278.8	1285.6	1293.7	1297.8	1300.5	1301.9	1300.5
42.5°	1255.7	1259.8	1263.9	1272.0	1281.5	1288.3	1296.5	1300.5	1303.3	1304.6	1303.3
45°	1251.7	1254.4	1258.5	1266.6	1273.4	1282.9	1291.0	1295.1	1299.2	1300.5	1299.2
47.5°	1242.2	1242.2	1243.5	1251.7	1261.2	1273.4	1280.2	1287.0	1291.0	1291.0	1291.0
50°	1229.9	1235.4	1238.1	1248.9	1258.5	1269.3	1281.5	1291.0	1292.4	1293.7	1292.4
52.5°	1229.9	1231.3	1240.8	1247.6	1266.6	1282.9	1295.1	1304.6	1312.8	1314.1	1314.1
55°	1251.7	1254.4	1259.8	1276.1	1291.0	1315.5	1335.8	1344.0	1349.4	1354.8	1349.4
57.5°	1253.0	1262.5	1272.0	1291.0	1314.1	1334.5	1352.1	1367.1	1371.1	1380.6	1369.8
60°	1236.7	1239.4	1248.9	1272.0	1301.9	1323.6	1339.9	1353.5	1367.1	1361.6	1367.1
62.5°	1210.9	1217.7	1231.3	1248.9	1273.4	1299.2	1323.6	1327.7	1348.0	1342.6	1350.8
65°	1190.6	1196.0	1209.6	1235.4	1265.2	1281.5	1308.7	1325.0	1323.6	1334.5	1322.3
67.5°	1140.3	1144.4	1156.6	1182.4	1210.9	1235.4	1243.5	1269.3	1272.0	1287.0	1273.4
70°	1057.5	1067.0	1084.7	1109.1	1132.2	1152.6	1167.5	1181.1	1189.2	1191.9	1189.2
72.5°	954.4	969.3	982.9	1005.9	1029.0	1042.6	1052.1	1071.1	1076.5	1084.7	1082.0
75°	848.5	848.5	862.0	879.7	897.3	905.5	910.9	923.1	929.9	939.4	931.3
77.5°	703.2	711.4	723.6	738.5	735.8	739.9	739.9	746.7	743.9	750.7	756.2
80°	551.2	559.3	570.2	581.0	579.7	570.2	577.0	568.8	566.1	567.5	571.5
82.5°	393.7	399.1	408.6	415.4	415.4	408.6	411.3	403.2	405.9	399.1	404.6
85°	225.4	232.1	238.9	245.7	245.7	241.6	245.7	234.9	236.2	236.2	236.2
87.5°	55.7	61.1	63.8	67.9	65.2	72.0	76.0	69.2	70.6	67.9	72.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P197596

CATALOG NUMBER: TT-C4-LED-E1-MQ-LWR-LW-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2	1337.2
2.5°	1337.2	1335.8	1337.2	1337.2	1337.2	1337.2	1335.8	1335.8
5°	1337.2	1337.2	1337.2	1335.8	1335.8	1335.8	1335.8	1335.8
7.5°	1334.5	1334.5	1334.5	1333.1	1333.1	1333.1	1333.1	1333.1
10°	1331.8	1331.8	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4
12.5°	1329.0	1329.0	1327.7	1327.7	1327.7	1327.7	1327.7	1326.3
15°	1326.3	1326.3	1325.0	1325.0	1323.6	1323.6	1322.3	1322.3
17.5°	1326.3	1325.0	1323.6	1322.3	1322.3	1320.9	1319.5	1319.5
20°	1330.4	1329.0	1327.7	1326.3	1325.0	1323.6	1323.6	1322.3
22.5°	1319.5	1318.2	1316.8	1316.8	1315.5	1315.5	1315.5	1314.1
25°	1306.0	1304.6	1304.6	1301.9	1301.9	1300.5	1300.5	1299.2
27.5°	1291.0	1289.7	1289.7	1288.3	1287.0	1285.6	1284.2	1284.2
30°	1276.1	1274.7	1274.7	1273.4	1270.7	1270.7	1269.3	1268.0
32.5°	1262.5	1262.5	1261.2	1258.5	1255.7	1254.4	1251.7	1251.7
35°	1258.5	1255.7	1253.0	1248.9	1244.9	1242.2	1240.8	1239.4
37.5°	1273.4	1269.3	1262.5	1258.5	1253.0	1247.6	1244.9	1242.2
40°	1299.2	1292.4	1285.6	1278.8	1270.7	1263.9	1258.5	1257.1
42.5°	1300.5	1296.5	1289.7	1281.5	1272.0	1263.9	1258.5	1257.1
45°	1296.5	1291.0	1282.9	1273.4	1266.6	1257.1	1253.0	1251.7
47.5°	1287.0	1281.5	1273.4	1259.8	1250.3	1243.5	1242.2	1242.2
50°	1292.4	1281.5	1268.0	1259.8	1250.3	1239.4	1235.4	1232.7
52.5°	1304.6	1293.7	1285.6	1268.0	1247.6	1238.1	1232.7	1228.6
55°	1344.0	1338.5	1314.1	1289.7	1274.7	1262.5	1257.1	1254.4
57.5°	1369.8	1350.8	1330.4	1314.1	1296.5	1276.1	1262.5	1255.7
60°	1356.2	1335.8	1326.3	1304.6	1268.0	1246.2	1238.1	1234.0
62.5°	1326.3	1326.3	1300.5	1266.6	1253.0	1234.0	1219.1	1213.7
65°	1325.0	1307.3	1281.5	1269.3	1236.7	1208.2	1193.3	1190.6
67.5°	1268.0	1243.5	1236.7	1209.6	1182.4	1156.6	1145.8	1140.3
70°	1181.1	1172.9	1152.6	1134.9	1110.5	1083.3	1068.4	1063.0
72.5°	1071.1	1057.5	1048.0	1033.1	1010.0	976.1	963.9	957.1
75°	921.8	915.0	915.0	898.7	877.0	856.6	855.3	852.5
77.5°	741.2	743.9	750.7	733.1	739.9	729.0	719.5	712.7
80°	563.4	575.6	577.0	581.0	585.1	570.2	563.4	555.2
82.5°	400.5	407.3	415.4	416.8	419.5	408.6	403.2	395.0
85°	236.2	240.3	247.1	247.1	247.1	237.6	234.9	228.1
87.5°	69.2	69.2	73.3	69.2	69.2	69.2	62.4	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)