

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: P197691

Luminaire Tested: **TT-C4-LED-E1-MQ-CG-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115363)
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-CG-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6372 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-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

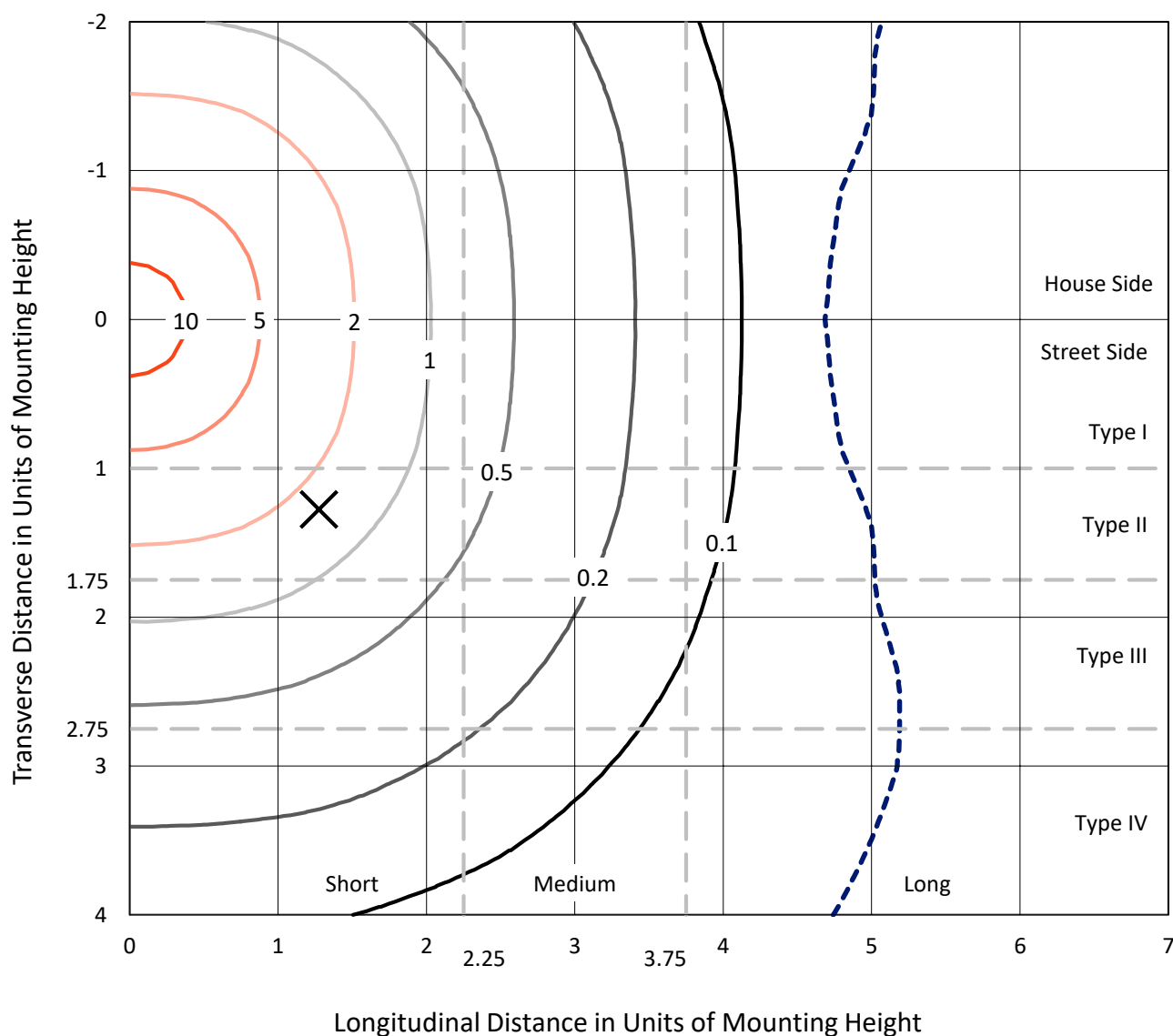


REPORT NUMBER: P197691

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-MS/DIM-7050

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

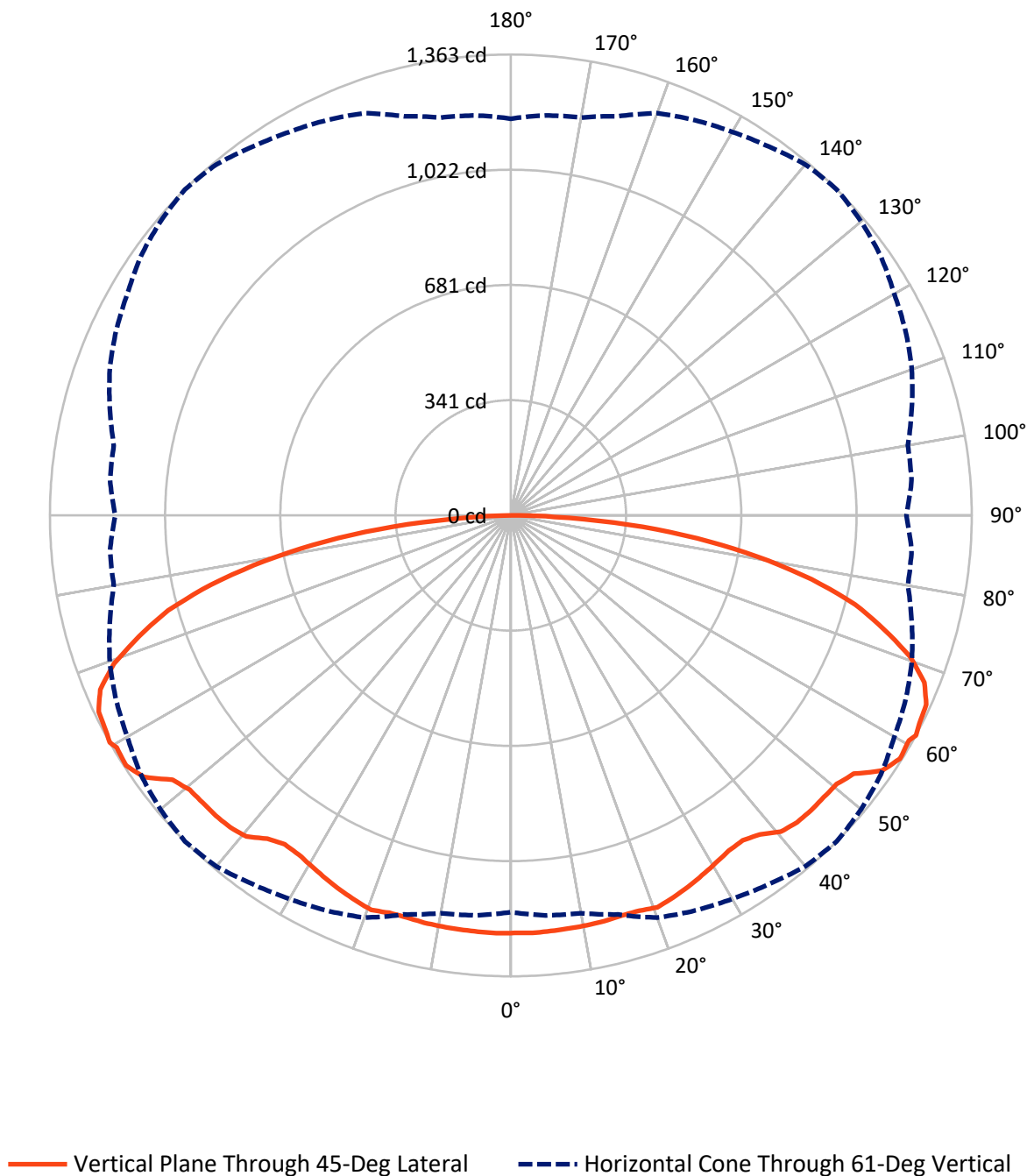


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197691

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-MS/DIM-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197691

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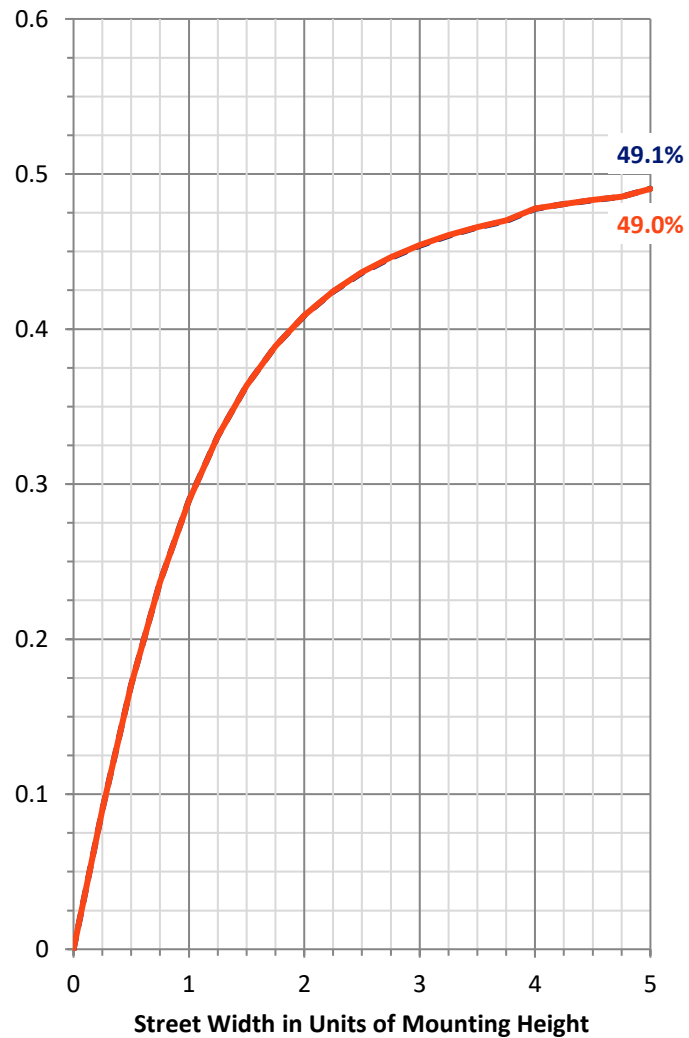
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3186.0	0.0	3186.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3186.0	0.0	3186.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6372.0	0.0	6372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.8
10°-20°	348.2	5.5
20°-30°	560.2	8.8
30°-40°	742.2	11.6
40°-50°	937.2	14.7
50°-60°	1123.0	17.6
60°-70°	1227.9	19.3
70°-80°	982.9	15.4
80°-90°	332.6	5.2
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°	6372.0	100.0
0°-180°	6372.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197691

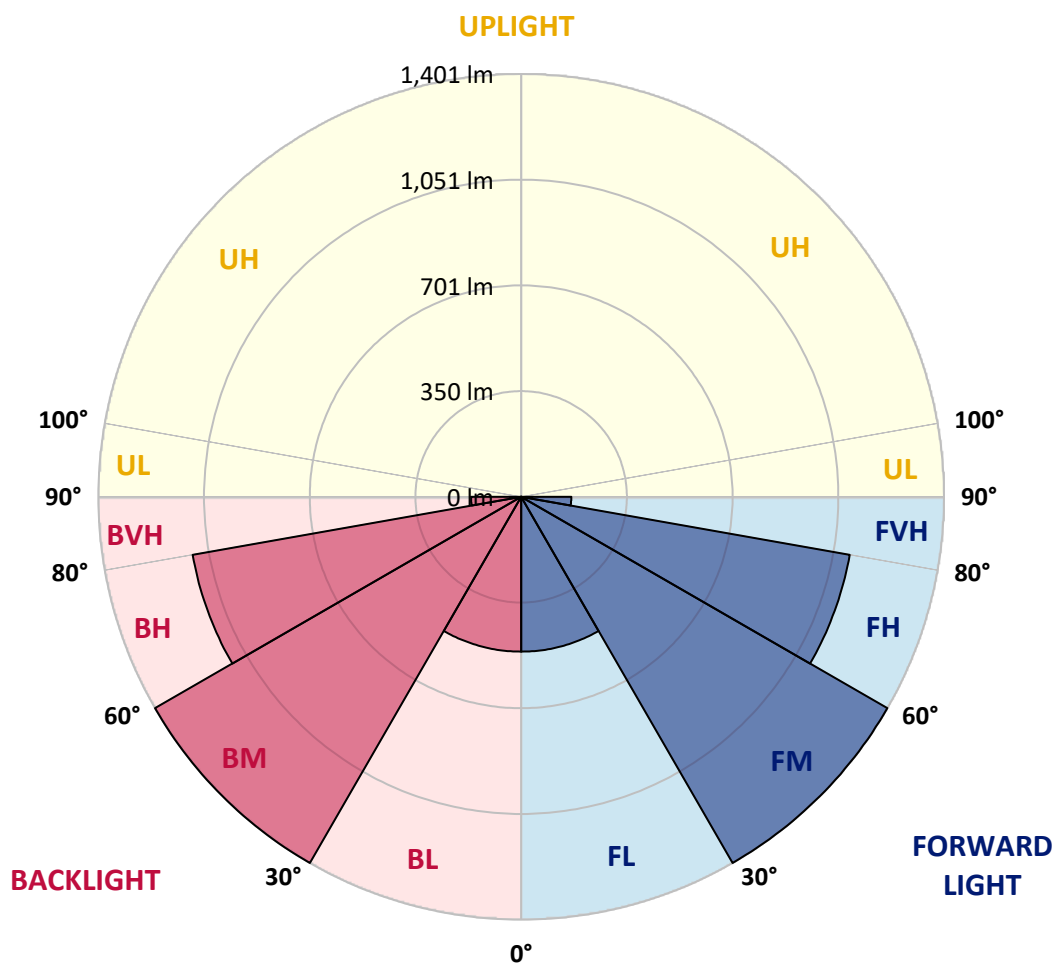
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.1	8.1			
FM	(30°-60°)	1401.2	22.0			
FH	(60°-80°)	1105.4	17.3			G1/1800
FVH	(80°-90°)	166.3	2.6			G2/225
BL	(0°-30°)	513.1	8.1	B2/1000		
BM	(30°-60°)	1401.2	22.0	B2/2500		
BH	(60°-80°)	1105.4	17.3	B3/2500		G1/1800
BVH	(80°-90°)	166.3	2.6			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: P197691

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-MS/DIM-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5
2.5°	1235.7	1234.5	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7
5°	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5
7.5°	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1234.5	1233.3	1234.5
10°	1231.0	1231.0	1231.0	1231.0	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2
12.5°	1228.6	1228.6	1228.6	1228.6	1229.7	1229.7	1229.7	1229.7	1231.0	1231.0	1229.7
15°	1226.2	1225.1	1225.1	1226.2	1226.2	1227.4	1227.4	1227.4	1228.6	1227.4	1227.4
17.5°	1223.8	1222.6	1223.8	1225.1	1225.1	1226.2	1227.4	1227.4	1228.6	1228.6	1228.6
20°	1227.4	1226.2	1227.4	1228.6	1229.7	1232.2	1233.3	1234.5	1235.7	1237.0	1237.0
22.5°	1220.3	1219.1	1220.3	1220.3	1221.5	1222.6	1225.1	1226.2	1227.4	1227.4	1227.4
25°	1209.6	1209.6	1210.9	1210.9	1211.9	1213.2	1214.4	1215.5	1215.5	1216.7	1215.5
27.5°	1197.7	1197.7	1198.9	1198.9	1201.3	1201.3	1202.5	1203.7	1204.8	1204.8	1204.8
30°	1183.5	1183.5	1184.7	1185.8	1188.3	1189.4	1190.6	1191.8	1192.9	1192.9	1192.9
32.5°	1170.5	1169.3	1170.5	1172.8	1176.4	1178.7	1181.2	1182.3	1182.3	1182.3	1183.5
35°	1159.7	1160.9	1163.2	1165.7	1170.5	1172.8	1175.1	1178.7	1179.9	1179.9	1179.9
37.5°	1162.2	1163.2	1166.9	1171.6	1177.6	1184.7	1189.4	1194.2	1197.7	1196.5	1195.4
40°	1177.6	1179.9	1185.8	1192.9	1202.5	1211.9	1219.1	1225.1	1228.6	1229.7	1228.6
42.5°	1179.9	1182.3	1187.0	1197.7	1208.4	1219.1	1228.6	1234.5	1239.3	1240.5	1239.3
45°	1178.7	1178.7	1185.8	1197.7	1208.4	1219.1	1231.0	1239.3	1244.1	1244.1	1244.1
47.5°	1170.5	1174.1	1178.7	1190.6	1204.8	1215.5	1227.4	1235.7	1241.6	1245.2	1241.6
50°	1170.5	1170.5	1178.7	1187.0	1200.0	1219.1	1235.7	1244.1	1250.0	1248.7	1250.0
52.5°	1168.0	1175.1	1179.9	1191.8	1215.5	1234.5	1247.6	1259.4	1267.8	1269.0	1266.5
55°	1189.4	1190.6	1201.3	1223.8	1246.4	1267.8	1291.6	1309.3	1323.6	1331.9	1320.0
57.5°	1206.1	1200.0	1221.5	1240.5	1266.5	1298.7	1334.2	1348.5	1359.1	1356.8	1360.4
60°	1183.5	1191.8	1207.3	1227.4	1269.0	1301.0	1320.0	1335.5	1348.5	1352.0	1347.4
61°	1172.8	1187.0	1194.2	1221.5	1265.4	1289.1	1309.3	1330.7	1354.5	1362.7	1352.0
62.5°	1155.0	1177.6	1175.1	1219.1	1246.4	1273.8	1311.7	1336.6	1353.2	1355.6	1353.2
65°	1156.1	1152.6	1179.9	1211.9	1239.3	1288.0	1320.0	1335.5	1344.9	1349.7	1347.4
67.5°	1118.2	1106.3	1139.6	1162.2	1208.4	1246.4	1277.3	1299.8	1314.1	1318.8	1312.9
70°	1030.4	1038.6	1062.4	1096.9	1134.8	1181.2	1209.6	1239.3	1251.2	1252.3	1252.3
72.5°	946.0	950.8	974.6	1006.6	1050.5	1090.9	1119.3	1143.1	1153.8	1155.0	1157.4
75°	834.5	839.2	866.6	896.2	940.1	974.6	994.7	1023.2	1038.6	1051.8	1041.1
77.5°	705.1	713.4	734.8	766.8	807.2	826.2	861.8	895.0	905.7	909.2	905.7
80°	559.1	569.7	588.7	631.6	649.3	680.2	714.6	728.8	738.4	740.7	741.9
82.5°	402.4	410.8	430.9	460.6	480.8	505.7	529.4	547.3	558.0	555.5	554.4
85°	237.5	239.8	261.1	281.4	296.8	312.2	331.2	344.3	346.6	351.4	350.2
87.5°	71.3	72.4	81.9	92.6	99.7	106.8	118.7	134.2	137.7	128.2	129.4
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: P197691

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-MS/DIM-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5
2.5°	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1234.5	1235.7
5°	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5
7.5°	1234.5	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3
10°	1232.2	1232.2	1232.2	1232.2	1231.0	1231.0	1231.0	1231.0
12.5°	1229.7	1229.7	1229.7	1229.7	1228.6	1228.6	1228.6	1228.6
15°	1227.4	1227.4	1227.4	1227.4	1226.2	1226.2	1226.2	1226.2
17.5°	1228.6	1227.4	1226.2	1226.2	1225.1	1223.8	1223.8	1223.8
20°	1235.7	1234.5	1232.2	1229.7	1228.6	1227.4	1227.4	1227.4
22.5°	1226.2	1225.1	1222.6	1221.5	1221.5	1220.3	1219.1	1219.1
25°	1215.5	1213.2	1213.2	1211.9	1211.9	1209.6	1209.6	1208.4
27.5°	1203.7	1202.5	1201.3	1200.0	1200.0	1198.9	1197.7	1196.5
30°	1192.9	1190.6	1188.3	1187.0	1185.8	1184.7	1184.7	1184.7
32.5°	1182.3	1179.9	1178.7	1175.1	1172.8	1171.6	1170.5	1170.5
35°	1178.7	1175.1	1172.8	1169.3	1165.7	1163.2	1162.2	1159.7
37.5°	1192.9	1188.3	1184.7	1178.7	1170.5	1166.9	1163.2	1162.2
40°	1223.8	1219.1	1211.9	1202.5	1192.9	1185.8	1179.9	1177.6
42.5°	1234.5	1228.6	1219.1	1209.6	1197.7	1187.0	1182.3	1179.9
45°	1238.1	1232.2	1219.1	1207.3	1196.5	1187.0	1179.9	1177.6
47.5°	1234.5	1226.2	1214.4	1204.8	1189.4	1177.6	1172.8	1169.3
50°	1242.9	1235.7	1220.3	1198.9	1185.8	1178.7	1170.5	1169.3
52.5°	1259.4	1246.4	1232.2	1216.7	1191.8	1177.6	1172.8	1166.9
55°	1309.3	1291.6	1266.5	1241.6	1226.2	1203.7	1189.4	1189.4
57.5°	1347.4	1333.0	1301.0	1267.8	1239.3	1222.6	1201.3	1202.5
60°	1336.6	1317.7	1302.2	1269.0	1228.6	1206.1	1197.7	1182.3
61°	1335.5	1309.3	1288.0	1261.9	1227.4	1191.8	1189.4	1169.3
62.5°	1337.8	1314.1	1273.8	1246.4	1220.3	1174.1	1172.8	1153.8
65°	1335.5	1312.9	1292.6	1241.6	1206.1	1187.0	1146.7	1162.2
67.5°	1298.7	1278.4	1241.6	1213.2	1158.6	1134.8	1112.2	1112.2
70°	1240.5	1210.9	1175.1	1139.6	1102.8	1062.4	1042.2	1030.4
72.5°	1143.1	1118.2	1089.7	1051.8	1006.6	969.8	950.8	942.5
75°	1020.9	993.6	968.6	940.1	892.7	861.8	841.7	835.6
77.5°	892.7	868.9	825.0	797.7	765.6	730.0	712.3	705.1
80°	728.8	715.8	684.9	641.0	625.5	581.6	569.7	559.1
82.5°	547.3	532.9	504.5	473.7	454.7	429.7	408.3	406.0
85°	344.3	334.7	316.9	294.4	270.7	256.3	237.5	242.1
87.5°	128.2	122.3	111.6	97.4	86.6	77.1	67.7	71.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)