

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: P197669

Luminaire Tested: **TT-C5-LED-E1-MQ-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-MQ-CG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5741.1 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 77
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

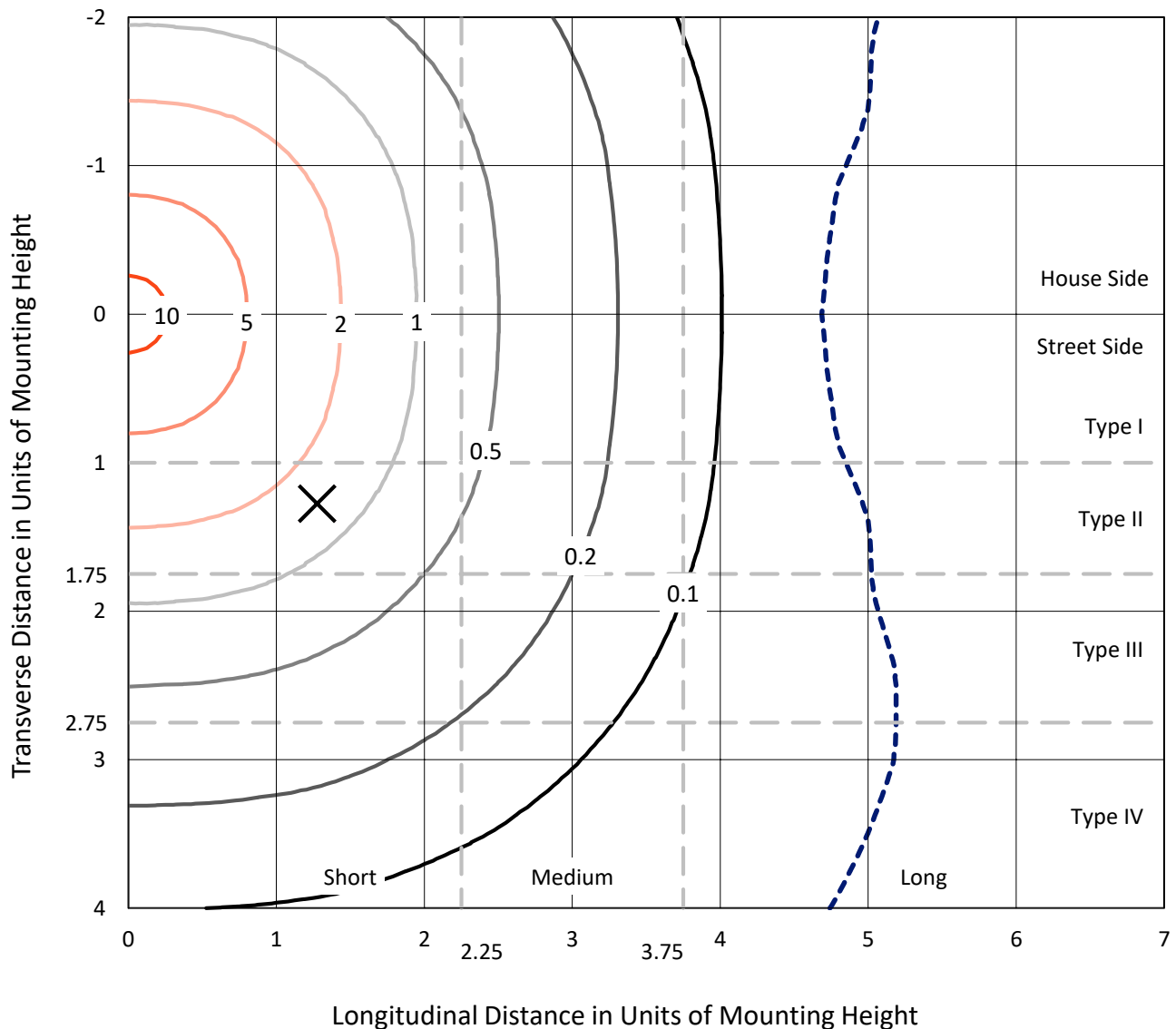


REPORT NUMBER: P197669

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

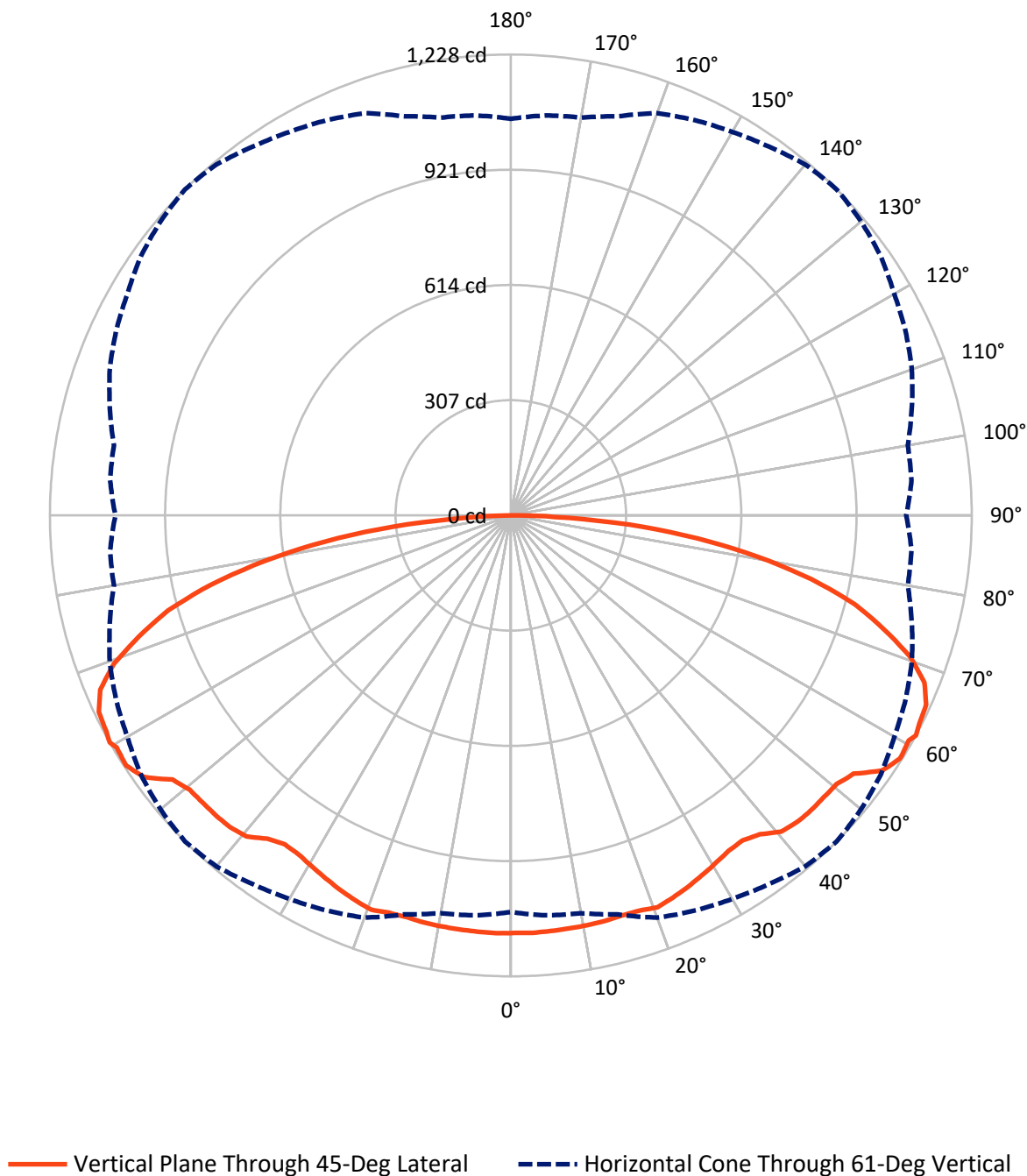


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197669

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-8030

Luminous Intensity Polar Plot



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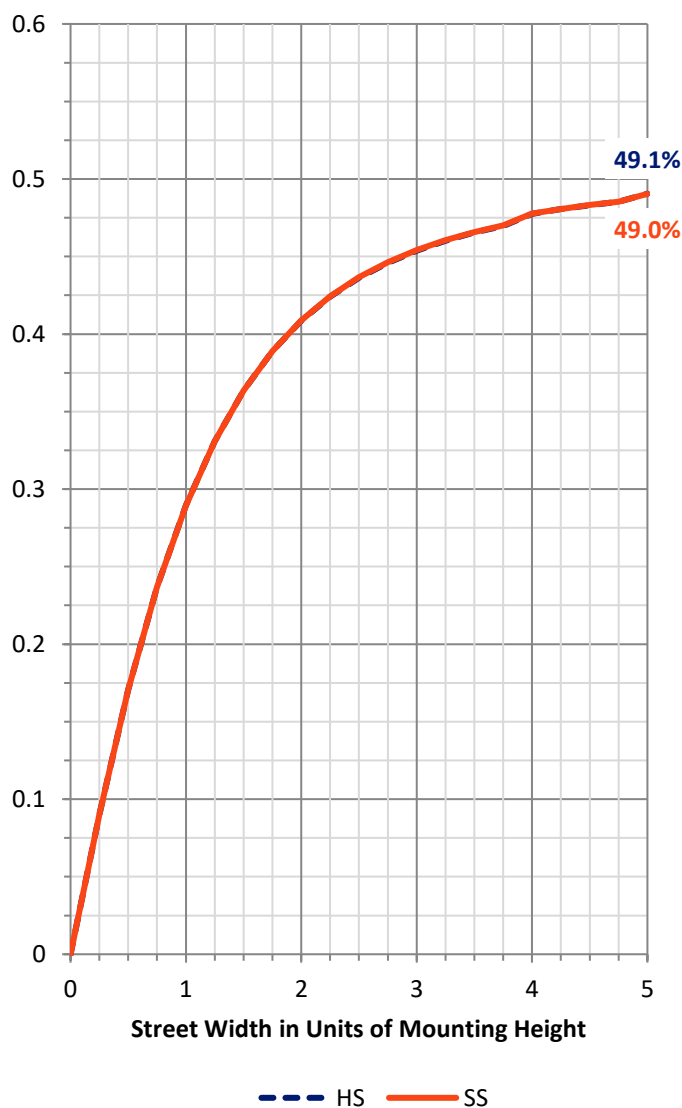
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2870.6	0.0	2870.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2870.6	0.0	2870.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5741.1	0.0	5741.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.8
10°-20°	313.7	5.5
20°-30°	504.8	8.8
30°-40°	668.7	11.6
40°-50°	844.4	14.7
50°-60°	1011.8	17.6
60°-70°	1106.3	19.3
70°-80°	885.6	15.4
80°-90°	299.6	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°	5741.1	100.0
0°-180°	5741.1	100.0

Coefficient of Utilization



REPORT NUMBER: P197669

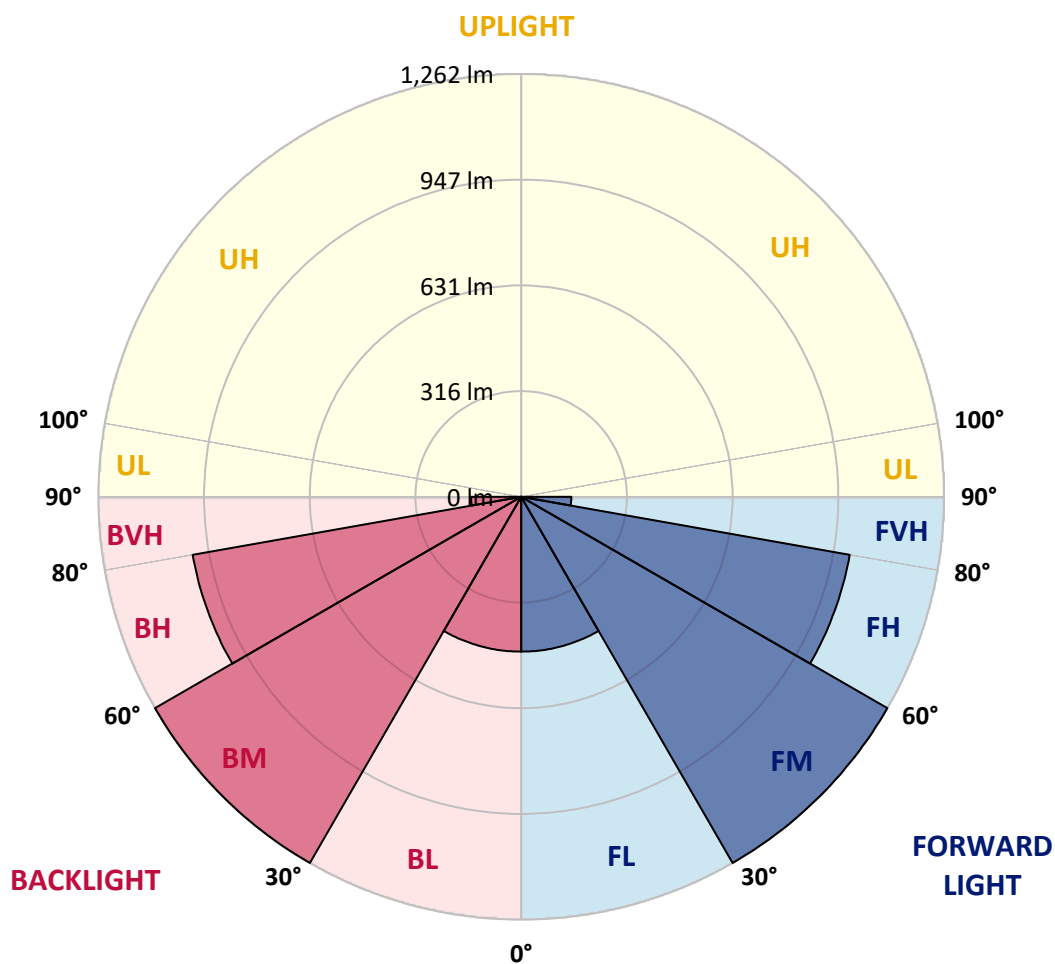
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	462.3	8.1			
FM	(30°-60°)	1262.5	22.0			
FH	(60°-80°)	996.0	17.3			G1/1800
FVH	(80°-90°)	149.8	2.6			G2/225
BL	(0°-30°)	462.3	8.1	B1/500		
BM	(30°-60°)	1262.5	22.0	B2/2500		
BH	(60°-80°)	996.0	17.3	B2/1000		G1/1800
BVH	(80°-90°)	149.8	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short



REPORT NUMBER: P197669

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1113.3	1112.4	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3
5°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
7.5°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1112.4	1111.3	1112.4
10°	1109.1	1109.1	1109.1	1109.1	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2
12.5°	1107.0	1107.0	1107.0	1107.0	1108.1	1108.1	1108.1	1108.1	1109.1	1109.1	1108.1
15°	1104.8	1103.7	1103.7	1104.8	1104.8	1105.9	1105.9	1105.9	1107.0	1105.9	1105.9
17.5°	1102.7	1101.6	1102.7	1103.7	1103.7	1104.8	1105.9	1105.9	1107.0	1107.0	1107.0
20°	1105.9	1104.8	1105.9	1107.0	1108.1	1110.2	1111.3	1112.4	1113.3	1114.4	1114.4
22.5°	1099.4	1098.3	1099.4	1099.4	1100.5	1101.6	1103.7	1104.8	1105.9	1105.9	1105.9
25°	1089.8	1089.8	1090.9	1090.9	1092.0	1093.1	1094.2	1095.2	1095.2	1096.3	1095.2
27.5°	1079.2	1079.2	1080.3	1080.3	1082.4	1082.4	1083.5	1084.4	1085.5	1085.5	1085.5
30°	1066.4	1066.4	1067.4	1068.5	1070.5	1071.6	1072.7	1073.8	1074.9	1074.9	1074.9
32.5°	1054.6	1053.5	1054.6	1056.6	1059.9	1062.0	1064.2	1065.3	1065.3	1065.3	1066.4
35°	1044.9	1046.0	1048.1	1050.3	1054.6	1056.6	1058.8	1062.0	1063.1	1063.1	1063.1
37.5°	1047.1	1048.1	1051.4	1055.6	1061.0	1067.4	1071.6	1075.9	1079.2	1078.1	1077.0
40°	1061.0	1063.1	1068.5	1074.9	1083.5	1092.0	1098.3	1103.7	1107.0	1108.1	1107.0
42.5°	1063.1	1065.3	1069.5	1079.2	1088.8	1098.3	1107.0	1112.4	1116.6	1117.6	1116.6
45°	1062.0	1062.0	1068.5	1079.2	1088.8	1098.3	1109.1	1116.6	1120.9	1120.9	1120.9
47.5°	1054.6	1057.7	1062.0	1072.7	1085.5	1095.2	1105.9	1113.3	1118.7	1122.0	1118.7
50°	1054.6	1054.6	1062.0	1069.5	1081.3	1098.3	1113.3	1120.9	1126.3	1125.2	1126.3
52.5°	1052.5	1058.8	1063.1	1073.8	1095.2	1112.4	1124.1	1134.8	1142.2	1143.3	1141.3
55°	1071.6	1072.7	1082.4	1102.7	1123.0	1142.2	1163.6	1179.7	1192.5	1200.1	1189.3
57.5°	1086.6	1081.3	1100.5	1117.6	1141.3	1170.1	1202.1	1214.9	1224.6	1222.5	1225.7
60°	1066.4	1073.8	1087.7	1105.9	1143.3	1172.2	1189.3	1203.2	1214.9	1218.2	1214.0
61°	1056.6	1069.5	1075.9	1100.5	1140.2	1161.5	1179.7	1199.0	1220.3	1227.9	1218.2
62.5°	1040.6	1061.0	1058.8	1098.3	1123.0	1147.6	1181.9	1204.3	1219.2	1221.4	1219.2
65°	1041.7	1038.6	1063.1	1092.0	1116.6	1160.4	1189.3	1203.2	1211.8	1216.0	1214.0
67.5°	1007.5	996.7	1026.7	1047.1	1088.8	1123.0	1150.8	1171.1	1184.0	1188.2	1182.9
70°	928.3	935.9	957.2	988.2	1022.5	1064.2	1089.8	1116.6	1127.4	1128.3	1128.3
72.5°	852.4	856.7	878.1	907.0	946.5	982.8	1008.6	1029.9	1039.6	1040.6	1042.8
75°	751.8	756.2	780.7	807.4	847.1	878.1	896.2	922.0	935.9	947.6	938.0
77.5°	635.3	642.8	662.0	691.0	727.3	744.4	776.5	806.5	816.1	819.3	816.1
80°	503.7	513.4	530.6	569.0	585.1	612.9	643.9	656.7	665.2	667.4	668.5
82.5°	362.6	370.1	388.2	414.9	433.1	455.7	477.0	493.0	502.6	500.6	499.5
85°	213.9	216.0	235.3	253.5	267.4	281.3	298.3	310.2	312.4	316.5	315.5
87.5°	64.2	65.3	73.8	83.4	89.9	96.2	107.0	120.9	124.0	115.5	116.6
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: P197669

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1113.3	1113.3	1113.3	1113.3	1113.3	1113.3	1112.4	1113.3
5°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
7.5°	1112.4	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
10°	1110.2	1110.2	1110.2	1110.2	1109.1	1109.1	1109.1	1109.1
12.5°	1108.1	1108.1	1108.1	1108.1	1107.0	1107.0	1107.0	1107.0
15°	1105.9	1105.9	1105.9	1105.9	1104.8	1104.8	1104.8	1104.8
17.5°	1107.0	1105.9	1104.8	1104.8	1103.7	1102.7	1102.7	1102.7
20°	1113.3	1112.4	1110.2	1108.1	1107.0	1105.9	1105.9	1105.9
22.5°	1104.8	1103.7	1101.6	1100.5	1100.5	1099.4	1098.3	1098.3
25°	1095.2	1093.1	1093.1	1092.0	1092.0	1089.8	1089.8	1088.8
27.5°	1084.4	1083.5	1082.4	1081.3	1081.3	1080.3	1079.2	1078.1
30°	1074.9	1072.7	1070.5	1069.5	1068.5	1067.4	1067.4	1067.4
32.5°	1065.3	1063.1	1062.0	1058.8	1056.6	1055.6	1054.6	1054.6
35°	1062.0	1058.8	1056.6	1053.5	1050.3	1048.1	1047.1	1044.9
37.5°	1074.9	1070.5	1067.4	1062.0	1054.6	1051.4	1048.1	1047.1
40°	1102.7	1098.3	1092.0	1083.5	1074.9	1068.5	1063.1	1061.0
42.5°	1112.4	1107.0	1098.3	1089.8	1079.2	1069.5	1065.3	1063.1
45°	1115.5	1110.2	1098.3	1087.7	1078.1	1069.5	1063.1	1061.0
47.5°	1112.4	1104.8	1094.2	1085.5	1071.6	1061.0	1056.6	1053.5
50°	1119.8	1113.3	1099.4	1080.3	1068.5	1062.0	1054.6	1053.5
52.5°	1134.8	1123.0	1110.2	1096.3	1073.8	1061.0	1056.6	1051.4
55°	1179.7	1163.6	1141.3	1118.7	1104.8	1084.4	1071.6	1071.6
57.5°	1214.0	1201.0	1172.2	1142.2	1116.6	1101.6	1082.4	1083.5
60°	1204.3	1187.1	1173.2	1143.3	1107.0	1086.6	1079.2	1065.3
61°	1203.2	1179.7	1160.4	1136.9	1105.9	1073.8	1071.6	1053.5
62.5°	1205.3	1184.0	1147.6	1123.0	1099.4	1057.7	1056.6	1039.6
65°	1203.2	1182.9	1164.7	1118.7	1086.6	1069.5	1033.2	1047.1
67.5°	1170.1	1151.9	1118.7	1093.1	1043.8	1022.5	1002.1	1002.1
70°	1117.6	1090.9	1058.8	1026.7	993.6	957.2	939.0	928.3
72.5°	1029.9	1007.5	981.9	947.6	907.0	873.8	856.7	849.3
75°	919.8	895.1	872.7	847.1	804.3	776.5	758.3	752.9
77.5°	804.3	782.9	743.3	718.8	689.9	657.8	641.7	635.3
80°	656.7	645.0	617.2	577.5	563.6	524.1	513.4	503.7
82.5°	493.0	480.2	454.6	426.8	409.7	387.1	368.0	365.8
85°	310.2	301.6	285.5	265.3	243.8	231.0	213.9	218.2
87.5°	115.5	110.1	100.5	87.7	78.1	69.5	61.0	64.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)