

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: P197883

Luminaire Tested: **TT-C4-LED-E1-WQ-SG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-WQ-SG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5943.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

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

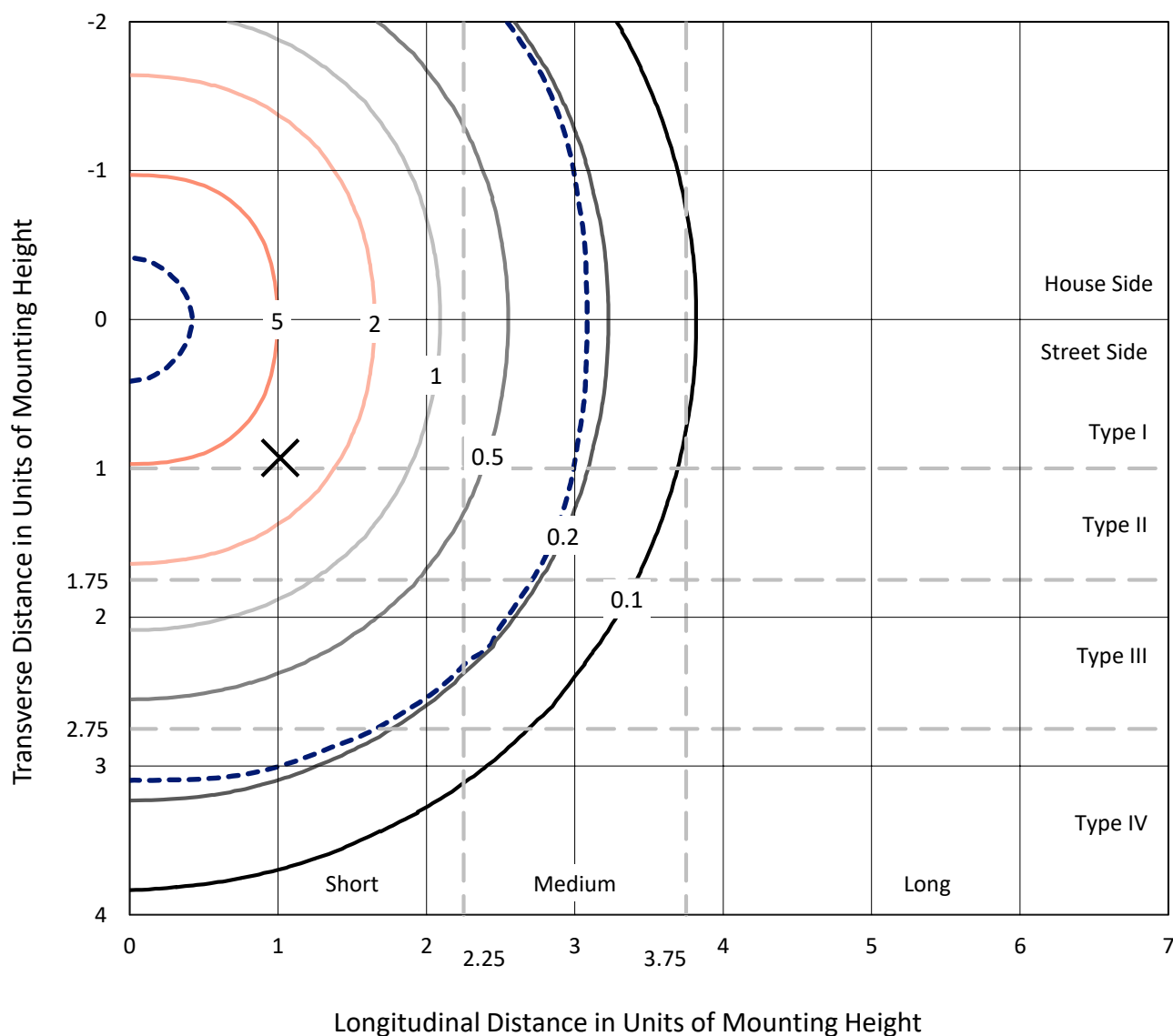


REPORT NUMBER: P197883

CATALOG NUMBER: TT-C4-LED-E1-WQ-SG-LWR-LW-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

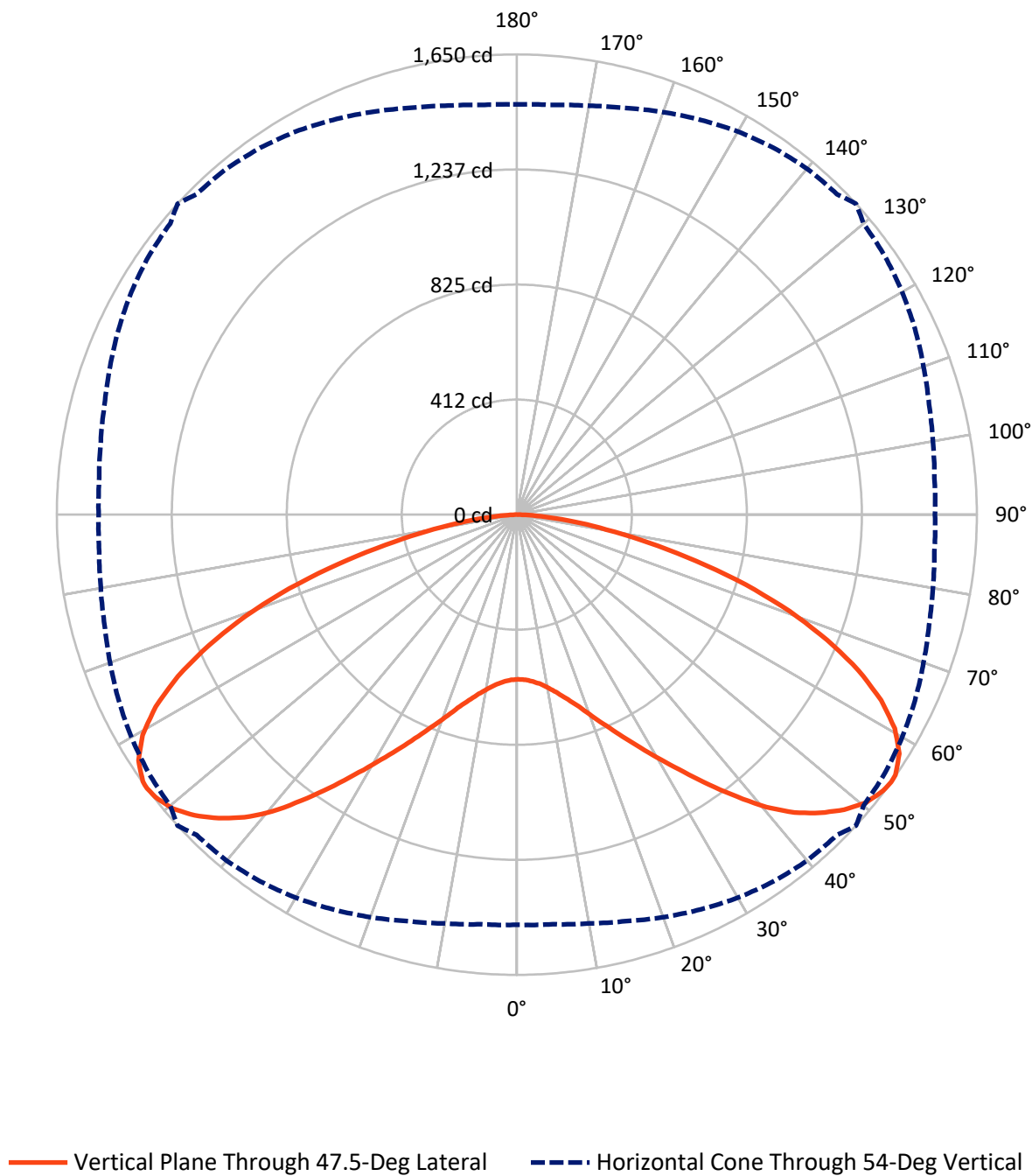


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197883

CATALOG NUMBER: TT-C4-LED-E1-WQ-SG-LWR-LW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197883

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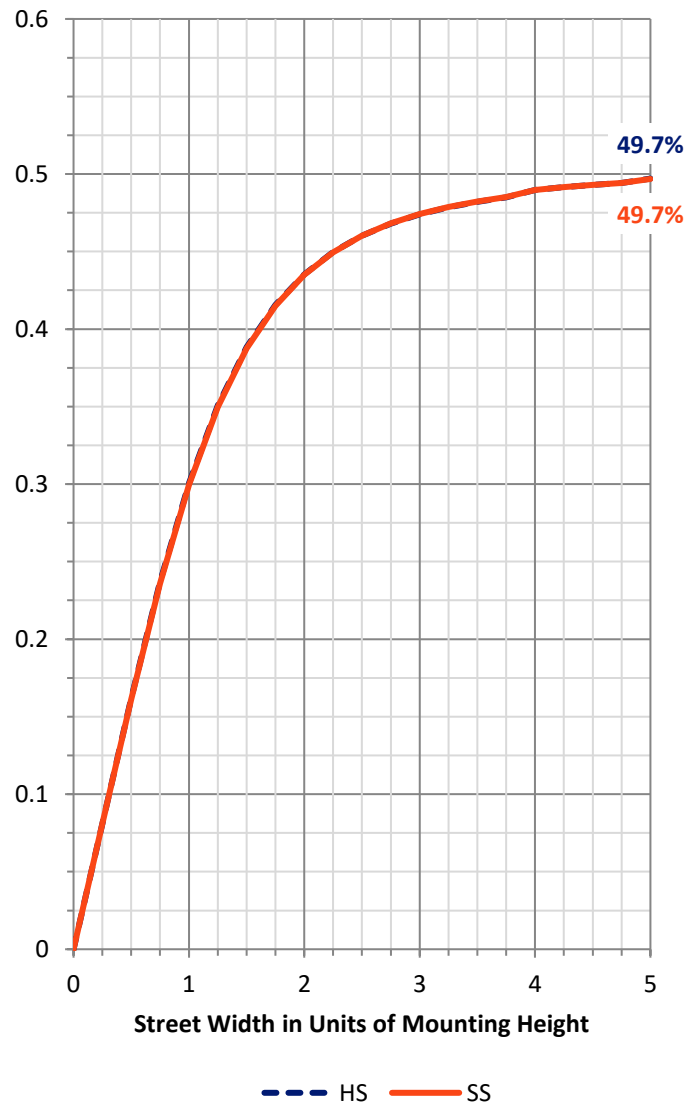
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.6	0.0	2971.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2971.6	0.0	2971.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5943.1	0.0	5943.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.0
10°-20°	197.5	3.3
20°-30°	406.6	6.8
30°-40°	727.2	12.2
40°-50°	1115.7	18.8
50°-60°	1375.6	23.1
60°-70°	1244.5	20.9
70°-80°	685.2	11.5
80°-90°	132.5	2.2
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°	5943.1	100.0
0°-180°	5943.1	100.0

Coefficient of Utilization



REPORT NUMBER: P197883

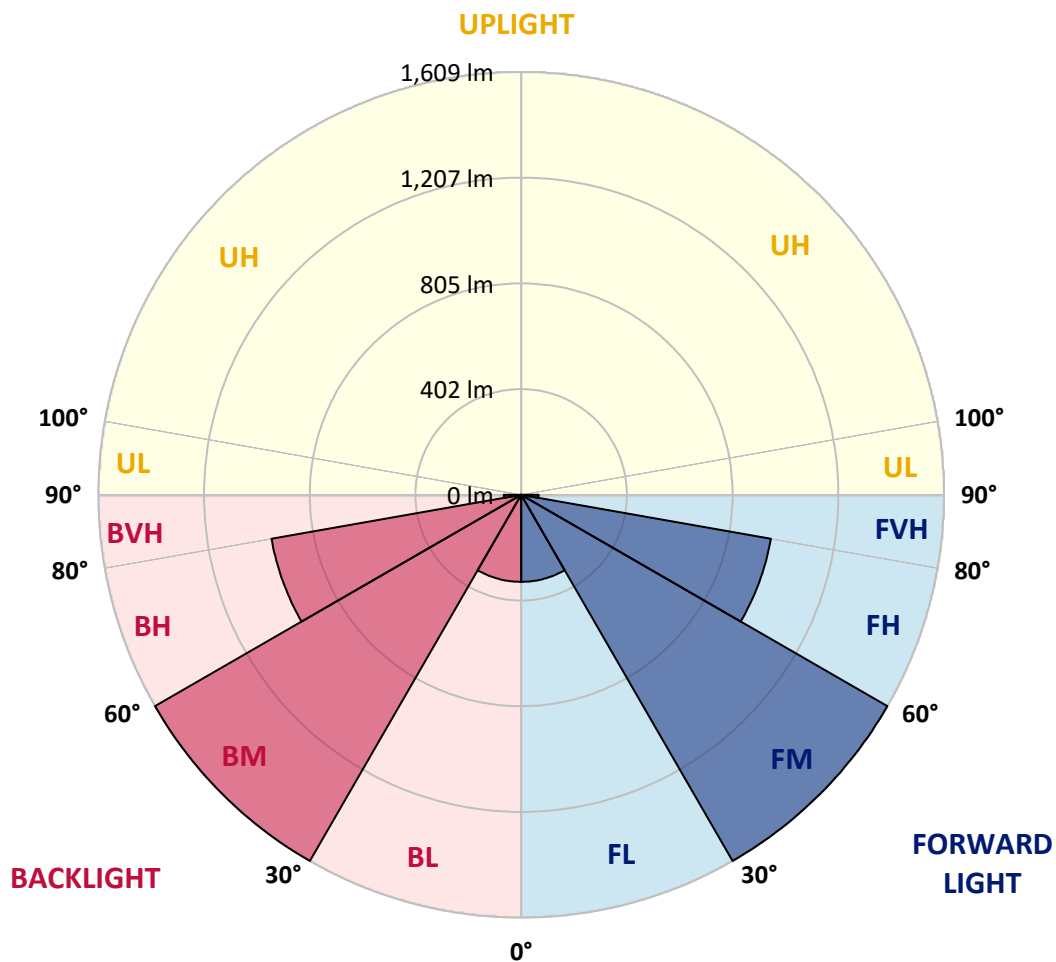
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

				Zone Rating/Lumen Limit		
Zone		Lumens	% Fixture	B	U	G
FL	(0°-30°)	331.2	5.6			
FM	(30°-60°)	1609.2	27.1			
FH	(60°-80°)	964.9	16.2			G1/1800
FVH	(80°-90°)	66.3	1.1			G1/100
BL	(0°-30°)	331.2	5.6	B1/500		
BM	(30°-60°)	1609.2	27.1	B2/2500		
BH	(60°-80°)	964.9	16.2	B2/1000		G1/1800
BVH	(80°-90°)	66.3	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



REPORT NUMBER: P197883

CATALOG NUMBER: TT-C4-LED-E1-WQ-SG-LWR-LW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1
2.5°	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7
5°	600.4	600.4	600.4	601.7	600.4	600.4	600.4	600.4	600.4	600.4	600.4
7.5°	613.2	613.2	613.2	613.2	613.2	613.2	611.9	611.9	613.2	611.9	613.2
10°	631.2	629.9	629.9	631.2	631.2	629.9	631.2	631.2	631.2	631.2	632.5
12.5°	654.3	654.3	655.5	655.5	655.5	656.8	656.8	655.5	656.8	656.8	656.8
15°	685.0	685.0	685.0	685.0	686.3	687.6	686.3	686.3	685.0	685.0	687.6
17.5°	721.0	721.0	721.0	721.0	723.5	723.5	722.3	723.5	724.8	724.8	723.5
20°	764.6	763.3	762.0	763.3	765.9	765.9	767.2	768.4	768.4	768.4	771.0
22.5°	810.8	809.5	812.1	813.3	814.6	815.9	815.9	817.2	819.7	818.5	822.3
25°	862.1	860.8	862.1	864.6	869.8	869.8	871.1	873.6	873.6	872.3	881.3
27.5°	919.8	919.8	921.1	926.2	927.5	928.8	932.6	935.2	939.1	939.1	946.8
30°	982.7	981.4	984.0	989.1	992.9	996.8	1001.9	1008.3	1009.6	1010.9	1018.6
32.5°	1046.8	1046.8	1049.4	1058.4	1064.8	1071.2	1078.9	1085.3	1087.9	1087.9	1099.4
35°	1114.8	1116.1	1122.5	1128.9	1141.7	1149.4	1157.1	1166.1	1171.3	1173.8	1189.2
37.5°	1186.6	1190.5	1195.6	1204.6	1217.4	1230.3	1241.8	1255.9	1263.6	1266.2	1282.9
40°	1254.6	1259.8	1267.5	1280.3	1293.1	1311.1	1325.2	1339.3	1348.3	1353.4	1379.1
42.5°	1321.3	1323.9	1332.9	1347.0	1363.7	1380.4	1399.6	1415.0	1424.0	1431.7	1459.9
45°	1373.9	1376.5	1388.1	1404.7	1424.0	1444.5	1463.7	1481.7	1490.7	1497.1	1525.3
47.5°	1417.6	1422.7	1435.5	1452.2	1471.4	1495.8	1517.6	1535.6	1547.1	1551.0	1580.5
50°	1449.6	1457.3	1468.9	1488.1	1511.2	1535.6	1558.7	1577.9	1590.7	1595.9	1622.8
52.5°	1467.6	1474.0	1486.8	1506.1	1533.0	1557.4	1581.8	1601.0	1615.1	1620.3	1644.6
54°	1470.2	1474.0	1488.1	1508.6	1535.6	1561.2	1585.6	1604.9	1619.0	1624.1	1649.8
55°	1467.6	1470.2	1485.6	1504.8	1533.0	1558.7	1583.1	1602.3	1617.7	1622.8	1647.2
57.5°	1441.9	1445.8	1458.6	1479.1	1504.8	1534.3	1557.4	1576.6	1592.0	1594.6	1617.7
60°	1389.3	1394.5	1406.0	1427.8	1453.5	1479.1	1502.2	1518.9	1533.0	1540.7	1557.4
62.5°	1313.6	1316.2	1327.8	1347.0	1370.1	1397.0	1415.0	1431.7	1444.5	1452.2	1466.3
65°	1205.9	1217.4	1226.4	1241.8	1259.8	1281.6	1304.7	1317.5	1323.9	1336.7	1347.0
67.5°	1085.3	1093.0	1102.0	1116.1	1127.6	1141.7	1163.6	1175.1	1182.8	1191.8	1200.8
70°	950.6	948.0	958.3	966.0	978.8	987.8	1001.9	1008.3	1017.3	1022.4	1037.8
72.5°	790.2	794.1	803.1	812.1	815.9	818.5	830.0	833.9	841.6	839.0	858.2
75°	645.3	638.9	641.4	642.7	645.3	642.7	650.4	654.3	658.1	654.3	664.5
77.5°	487.5	479.8	482.4	481.1	481.1	478.5	477.2	477.2	478.5	475.9	482.4
80°	336.1	332.3	333.5	336.1	329.7	331.0	323.3	323.3	323.3	323.3	325.8
82.5°	207.8	202.7	201.4	202.7	202.7	198.8	200.1	195.0	193.7	192.4	204.0
85°	101.3	98.8	101.3	98.8	97.5	97.5	94.9	96.2	93.6	92.4	100.1
87.5°	26.9	25.7	25.7	25.7	24.4	25.7	25.7	25.7	25.7	26.9	30.8
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: P197883

CATALOG NUMBER: TT-C4-LED-E1-WQ-SG-LWR-LW-7050

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1	590.1
2.5°	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	591.4
5°	600.4	600.4	600.4	600.4	600.4	600.4	600.4	600.4	600.4
7.5°	613.2	613.2	611.9	611.9	611.9	611.9	611.9	611.9	611.9
10°	631.2	632.5	629.9	629.9	631.2	629.9	629.9	628.6	628.6
12.5°	656.8	655.5	656.8	656.8	655.5	654.3	653.0	651.7	653.0
15°	686.3	685.0	685.0	685.0	683.8	683.8	682.5	683.8	682.5
17.5°	722.3	722.3	723.5	719.7	721.0	718.4	718.4	718.4	717.1
20°	768.4	767.2	765.9	762.0	763.3	760.7	759.5	758.2	756.9
22.5°	818.5	815.9	814.6	810.8	812.1	809.5	805.6	803.1	803.1
25°	873.6	871.1	868.5	867.2	865.9	860.8	858.2	854.4	857.0
27.5°	939.1	933.9	930.1	924.9	926.2	919.8	917.2	914.7	914.7
30°	1009.6	1005.8	999.3	995.5	994.2	987.8	982.7	980.1	978.8
32.5°	1086.6	1084.0	1080.2	1073.8	1071.2	1060.9	1057.1	1053.2	1051.9
35°	1177.7	1171.3	1167.4	1158.4	1149.4	1143.0	1134.0	1131.5	1128.9
37.5°	1262.3	1262.3	1255.9	1245.7	1232.8	1223.8	1216.2	1211.0	1207.2
40°	1352.1	1349.6	1339.3	1330.3	1317.5	1304.7	1290.6	1285.4	1282.9
42.5°	1431.7	1426.5	1416.3	1404.7	1391.9	1376.5	1361.1	1353.4	1352.1
45°	1498.4	1492.0	1481.7	1466.3	1449.6	1434.2	1420.1	1412.4	1408.6
47.5°	1552.3	1544.6	1531.7	1517.6	1498.4	1480.4	1466.3	1458.6	1453.5
50°	1592.0	1585.6	1571.5	1553.5	1534.3	1513.8	1499.7	1490.7	1486.8
52.5°	1617.7	1608.7	1593.3	1574.1	1552.3	1531.7	1515.1	1504.8	1500.9
54°	1622.8	1612.6	1595.9	1575.4	1552.3	1530.5	1515.1	1503.5	1499.7
55°	1620.3	1610.0	1592.0	1572.8	1548.4	1526.6	1509.9	1498.4	1494.5
57.5°	1593.3	1581.8	1565.1	1544.6	1518.9	1497.1	1481.7	1468.9	1465.0
60°	1535.6	1525.3	1506.1	1488.1	1462.5	1440.7	1424.0	1411.1	1407.3
62.5°	1447.1	1438.1	1421.4	1403.4	1376.5	1357.3	1340.6	1332.9	1322.6
65°	1329.0	1322.6	1306.0	1284.1	1264.9	1245.7	1229.0	1223.8	1217.4
67.5°	1187.9	1178.9	1172.5	1150.7	1135.3	1117.4	1100.7	1090.4	1087.9
70°	1021.2	1017.3	1010.9	990.4	981.4	966.0	954.4	945.5	942.9
72.5°	841.6	837.7	836.4	826.2	814.6	800.5	795.4	787.7	786.4
75°	654.3	651.7	654.3	646.6	642.7	638.9	636.3	636.3	632.5
77.5°	473.4	477.2	478.5	478.5	481.1	481.1	483.6	479.8	475.9
80°	322.0	325.8	324.6	327.1	325.8	334.8	328.4	333.5	328.4
82.5°	193.7	198.8	198.8	198.8	204.0	202.7	202.7	205.3	204.0
85°	94.9	96.2	94.9	93.6	100.1	98.8	98.8	97.5	98.8
87.5°	28.2	25.7	26.9	24.4	26.9	23.1	25.7	25.7	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)