

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: P197543

Luminaire Tested: **TT-C3-LED-E1-CQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-CQ-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5883 lumens
Efficiency: N/A
Efficacy: 130.7 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): 45
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



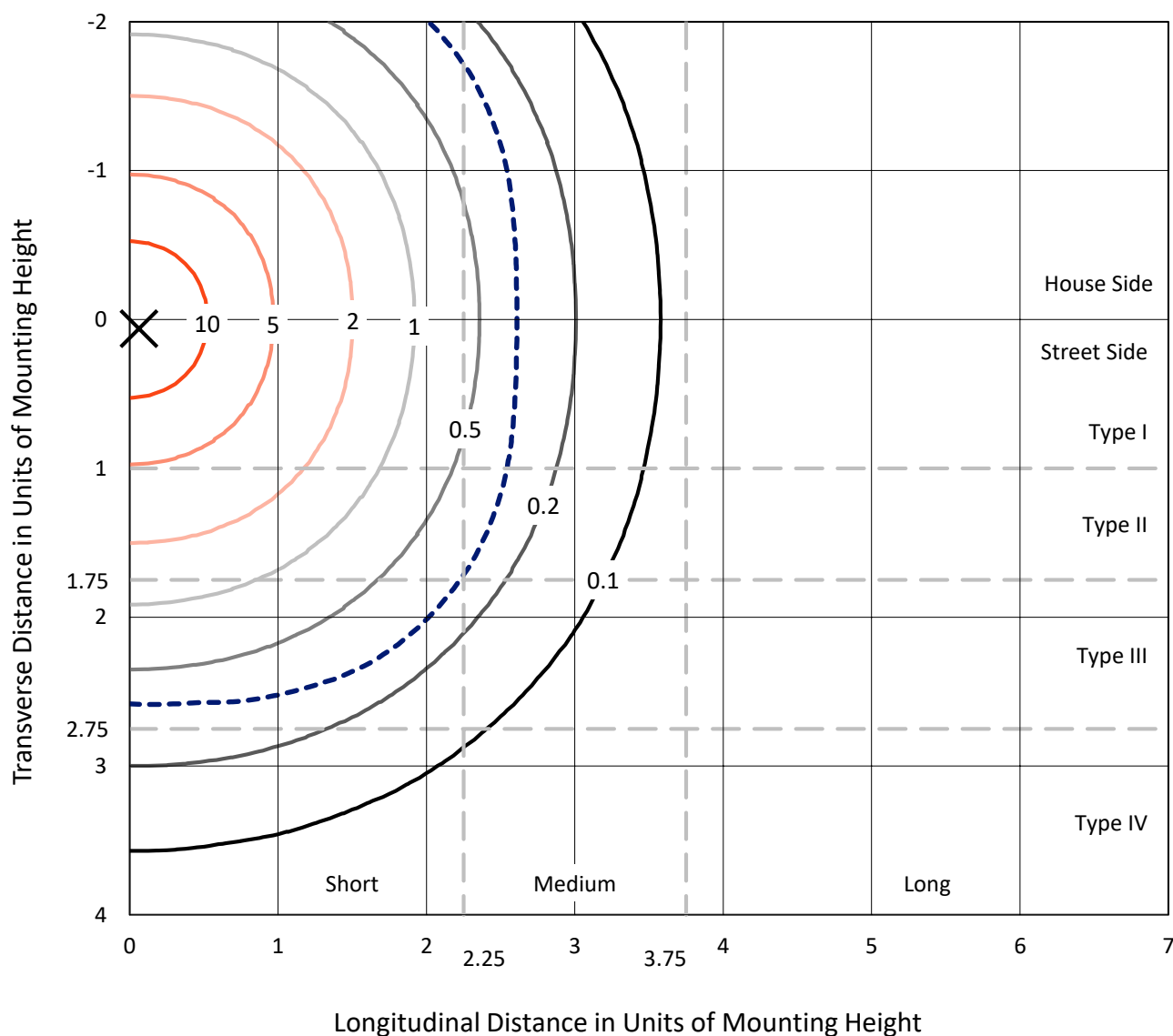
REPORT NUMBER: P197543

CATALOG NUMBER: TT-C3-LED-E1-CQ-MS/DIM-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

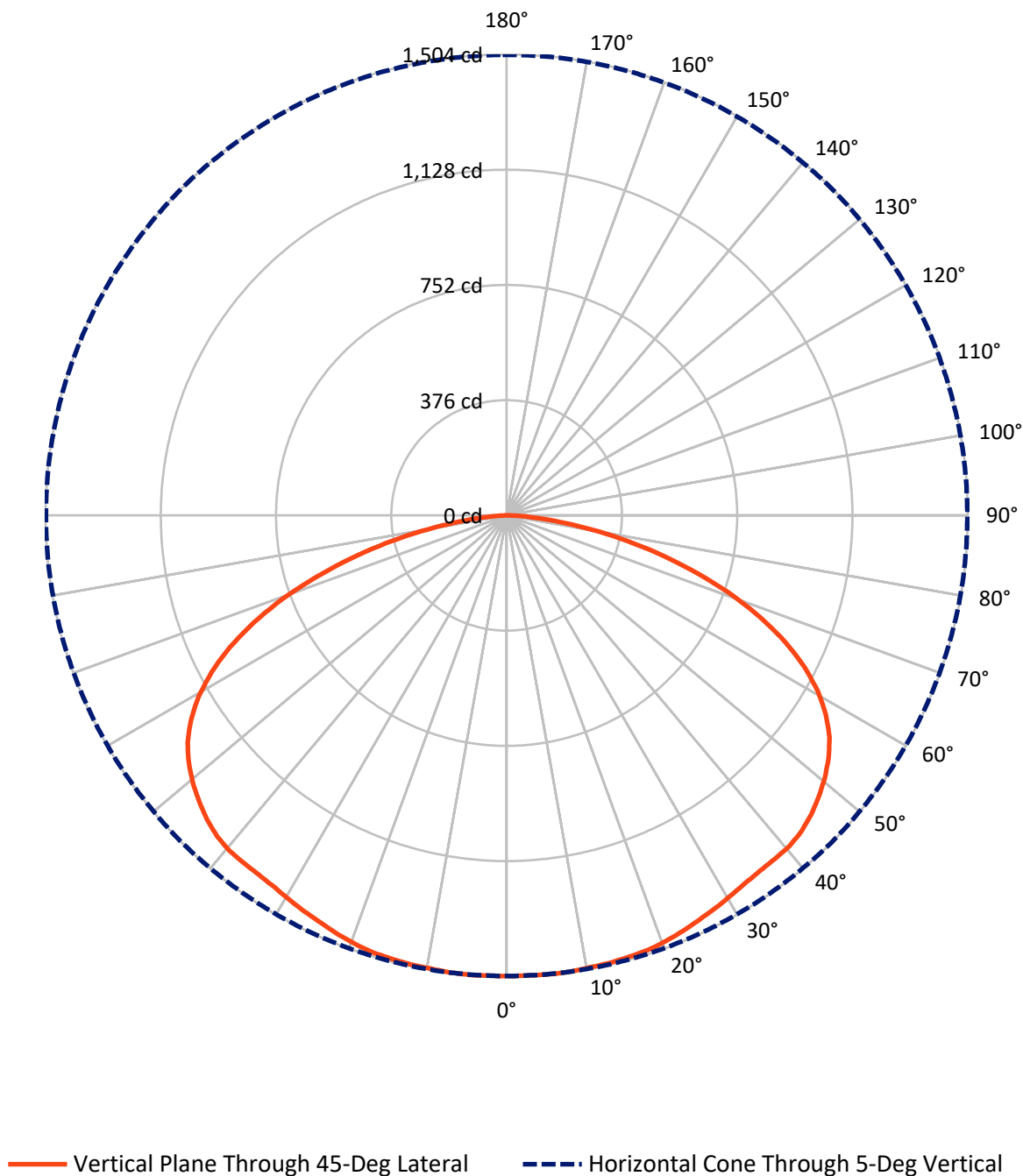


Based on 10 foot mounting height. Maximum calculated value = 15 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P197543

CATALOG NUMBER: TT-C3-LED-E1-CQ-MS/DIM-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197543

CATALOG NUMBER: TT-C3-LED-E1-CQ-MS/DIM-7050

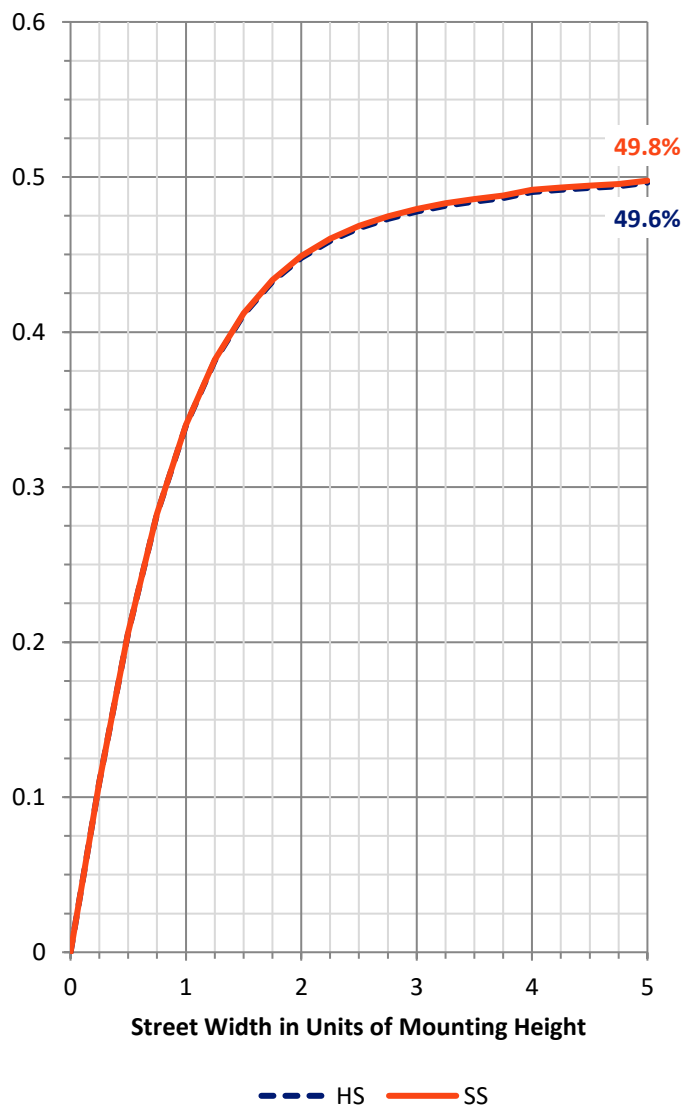
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2941.5	0.0	2941.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2941.5	0.0	2941.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5883.0	0.0	5883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	2.4
10°-20°	422.8	7.2
20°-30°	674.8	11.5
30°-40°	888.8	15.1
40°-50°	1057.3	18.0
50°-60°	1106.5	18.8
60°-70°	941.0	16.0
70°-80°	534.8	9.1
80°-90°	113.7	1.9
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°	5883.0	100.0
0°-180°	5883.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197543

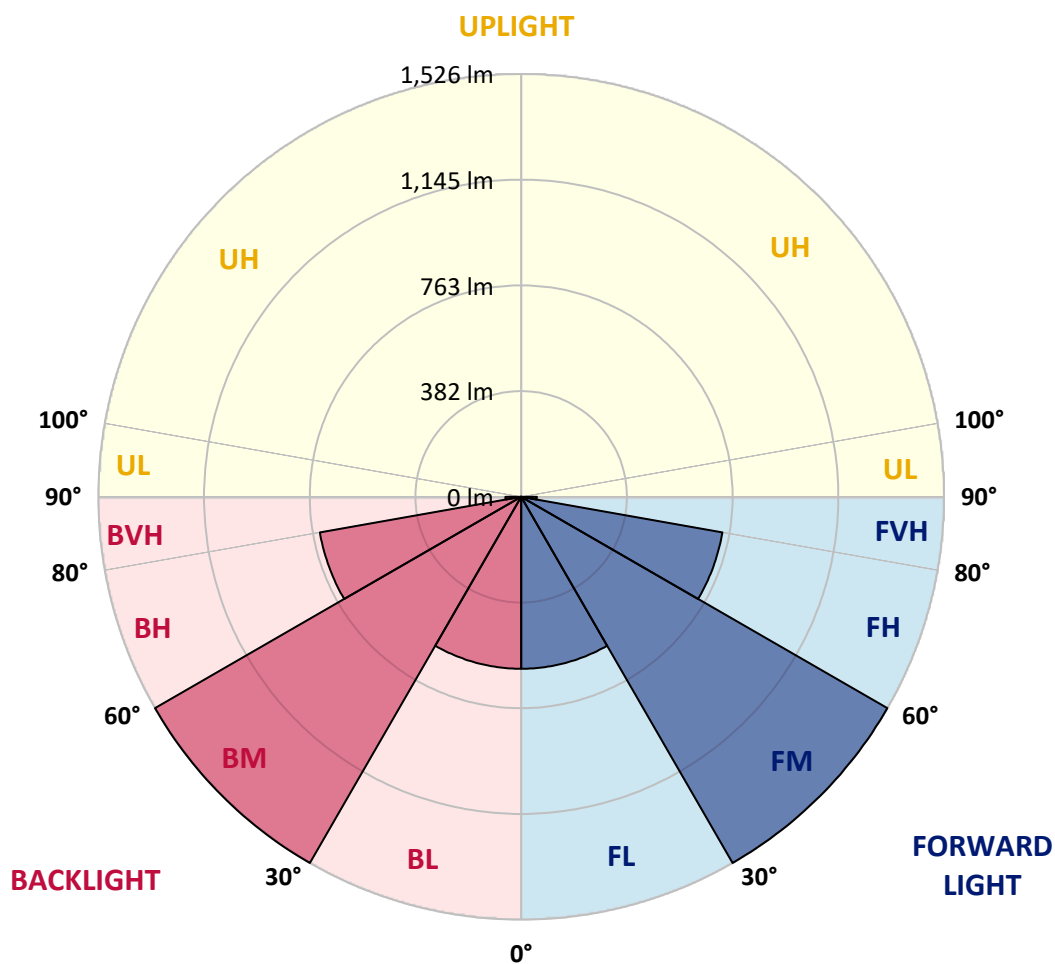
CATALOG NUMBER: TT-C3-LED-E1-CQ-MS/DIM-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.5	10.5			
FM	(30°-60°)	1526.3	25.9			
FH	(60°-80°)	737.9	12.5			G1/1800
FVH	(80°-90°)	56.9	1.0			G1/100
BL	(0°-30°)	620.5	10.5	B2/1000		
BM	(30°-60°)	1526.3	25.9	B2/2500		
BH	(60°-80°)	737.9	12.5	B2/1000		G1/1800
BVH	(80°-90°)	56.9	1.0			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: P197543

CATALOG NUMBER: TT-C3-LED-E1-CQ-MS/DIM-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
2.5°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
5°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1504.2	1503.1
7.5°	1501.9	1501.9	1501.9	1501.9	1503.1	1501.9	1501.9	1503.1	1503.1	1503.1	1503.1
10°	1499.6	1498.4	1498.4	1499.6	1499.6	1499.6	1499.6	1499.6	1500.7	1499.6	1499.6
12.5°	1496.1	1494.9	1496.1	1496.1	1496.1	1497.3	1497.3	1497.3	1498.4	1498.4	1497.3
15°	1492.6	1492.6	1492.6	1492.6	1492.6	1493.8	1493.8	1494.9	1494.9	1494.9	1494.9
17.5°	1488.0	1488.0	1488.0	1489.1	1489.1	1490.3	1490.3	1490.3	1491.5	1491.5	1491.5
20°	1479.9	1478.7	1479.9	1479.9	1481.0	1482.2	1482.2	1483.3	1483.3	1483.3	1483.3
22.5°	1468.3	1468.3	1469.4	1469.4	1470.6	1471.7	1471.7	1472.9	1472.9	1472.9	1472.9
25°	1456.7	1457.8	1457.8	1459.0	1459.0	1460.1	1461.3	1461.3	1461.3	1461.3	1461.3
27.5°	1445.1	1446.2	1446.2	1446.2	1447.4	1448.6	1449.7	1450.9	1452.0	1450.9	1450.9
30°	1432.3	1432.3	1433.5	1434.6	1435.8	1437.0	1439.3	1440.4	1441.6	1440.4	1440.4
32.5°	1418.4	1419.6	1420.7	1421.9	1424.2	1426.5	1428.8	1430.0	1431.2	1430.0	1430.0
35°	1408.0	1408.0	1410.3	1412.6	1414.9	1418.4	1420.7	1423.0	1425.4	1424.2	1423.0
37.5°	1397.5	1397.5	1399.8	1403.3	1408.0	1412.6	1417.2	1420.7	1421.9	1421.9	1420.7
40°	1384.8	1385.9	1388.2	1394.0	1401.0	1406.8	1412.6	1417.2	1419.6	1419.6	1417.2
42.5°	1370.8	1372.0	1375.5	1381.3	1389.4	1396.4	1403.3	1406.8	1410.3	1410.3	1408.0
45°	1351.1	1352.3	1356.9	1362.7	1370.8	1377.8	1385.9	1389.4	1394.0	1392.9	1391.7
47.5°	1325.6	1326.8	1331.4	1337.2	1345.3	1353.5	1361.6	1367.4	1370.8	1370.8	1369.7
50°	1294.3	1295.5	1300.1	1305.9	1316.3	1325.6	1333.7	1339.5	1345.3	1345.3	1344.2
52.5°	1254.9	1257.2	1260.7	1268.8	1280.4	1290.8	1301.3	1310.5	1314.0	1315.2	1314.0
55°	1206.2	1208.5	1213.1	1222.4	1235.2	1247.9	1259.5	1269.9	1274.6	1278.1	1275.7
57.5°	1149.3	1151.7	1157.4	1167.9	1181.8	1194.6	1209.6	1221.2	1224.7	1228.2	1227.0
60°	1082.1	1085.5	1091.3	1102.9	1116.9	1130.8	1144.7	1158.6	1162.1	1166.7	1164.4
62.5°	1003.2	1006.7	1012.5	1025.2	1040.3	1053.1	1069.3	1082.1	1085.5	1090.2	1089.0
65°	912.7	916.2	922.0	935.9	949.9	963.8	978.8	992.8	996.2	1000.9	999.7
67.5°	809.5	813.0	818.8	835.0	849.0	862.9	875.6	889.5	891.9	896.5	895.3
70°	700.5	705.1	709.8	724.9	737.6	749.2	763.1	774.7	779.4	781.7	779.4
72.5°	591.5	595.0	599.6	610.0	619.3	629.8	643.7	651.8	655.3	656.4	656.4
75°	479.0	482.5	482.5	494.1	501.0	506.8	518.4	524.2	526.5	528.9	528.9
77.5°	372.3	370.0	372.3	376.9	381.6	386.2	393.2	396.6	399.0	403.6	401.3
80°	260.9	262.1	263.3	266.7	269.1	270.2	274.9	276.0	277.2	281.8	279.5
82.5°	168.2	165.8	168.2	167.0	169.3	165.8	168.2	171.6	169.3	171.6	172.8
85°	88.1	84.7	84.7	85.8	87.0	84.7	85.8	84.7	84.7	87.0	85.8
87.5°	27.8	26.7	27.8	26.7	27.8	26.7	27.8	29.0	27.8	27.8	29.0
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: P197543

CATALOG NUMBER: TT-C3-LED-E1-CQ-MS/DIM-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
2.5°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
5°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
7.5°	1501.9	1501.9	1501.9	1501.9	1501.9	1501.9	1500.7	1501.9
10°	1499.6	1499.6	1499.6	1499.6	1498.4	1498.4	1498.4	1498.4
12.5°	1497.3	1497.3	1496.1	1496.1	1496.1	1496.1	1494.9	1494.9
15°	1494.9	1493.8	1493.8	1492.6	1492.6	1492.6	1491.5	1492.6
17.5°	1491.5	1490.3	1490.3	1489.1	1489.1	1488.0	1488.0	1488.0
20°	1483.3	1482.2	1482.2	1481.0	1481.0	1479.9	1478.7	1478.7
22.5°	1471.7	1471.7	1471.7	1470.6	1469.4	1469.4	1468.3	1468.3
25°	1461.3	1460.1	1460.1	1459.0	1457.8	1457.8	1456.7	1456.7
27.5°	1450.9	1449.7	1448.6	1446.2	1446.2	1445.1	1443.9	1442.8
30°	1439.3	1437.0	1434.6	1433.5	1432.3	1430.0	1428.8	1427.7
32.5°	1427.7	1425.4	1423.0	1420.7	1417.2	1416.1	1413.8	1413.8
35°	1420.7	1417.2	1413.8	1409.1	1405.6	1402.2	1399.8	1398.7
37.5°	1417.2	1412.6	1406.8	1401.0	1395.2	1390.6	1387.1	1387.1
40°	1412.6	1406.8	1399.8	1391.7	1384.8	1379.0	1375.5	1374.3
42.5°	1403.3	1397.5	1388.2	1381.3	1372.0	1366.2	1361.6	1360.4
45°	1387.1	1381.3	1373.2	1363.9	1354.6	1347.7	1343.0	1341.9
47.5°	1366.2	1359.2	1350.0	1340.7	1331.4	1323.3	1318.7	1317.5
50°	1339.5	1332.6	1323.3	1314.0	1303.6	1295.5	1289.7	1289.7
52.5°	1309.4	1301.3	1290.8	1280.4	1268.8	1260.7	1254.9	1253.7
55°	1269.9	1260.7	1250.2	1238.6	1225.9	1216.6	1209.6	1208.5
57.5°	1221.2	1210.8	1199.2	1186.4	1173.7	1163.2	1155.1	1154.0
60°	1159.8	1148.2	1136.6	1123.8	1109.9	1098.3	1090.2	1087.9
62.5°	1084.4	1071.6	1058.9	1047.3	1032.2	1020.6	1012.5	1010.2
65°	995.1	984.6	971.9	958.0	941.7	930.1	922.0	920.9
67.5°	890.7	880.3	867.5	854.7	838.5	828.1	820.0	817.6
70°	775.9	766.6	756.2	743.4	729.5	719.1	710.9	709.8
72.5°	654.1	646.0	636.7	627.4	613.5	605.4	598.4	597.3
75°	528.9	520.7	513.8	506.8	496.4	490.6	483.6	483.6
77.5°	401.3	399.0	394.3	386.2	380.4	375.8	372.3	370.0
80°	280.7	278.3	276.0	271.4	267.9	266.7	264.4	262.1
82.5°	171.6	170.5	171.6	169.3	168.2	168.2	167.0	164.7
85°	87.0	88.1	87.0	85.8	85.8	85.8	85.8	84.7
87.5°	27.8	29.0	27.8	26.7	26.7	26.7	26.7	25.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)