

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: P197671

Luminaire Tested: **TT-C5-LED-E1-MQ-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197671
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR 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: 7540.4 lumens
Efficiency: N/A
Efficacy: 97.9 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): 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

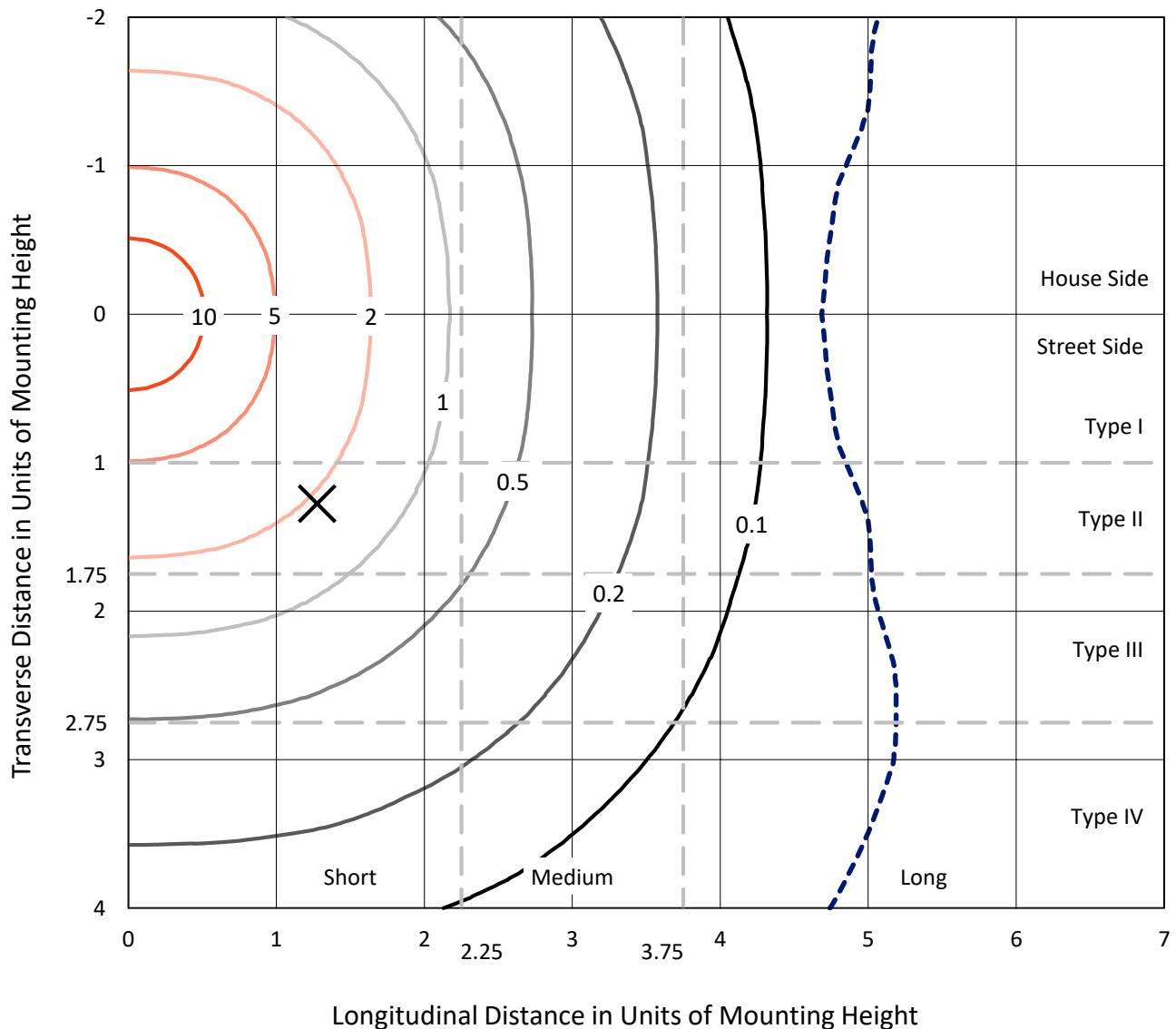


REPORT NUMBER: P197671

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-7050

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

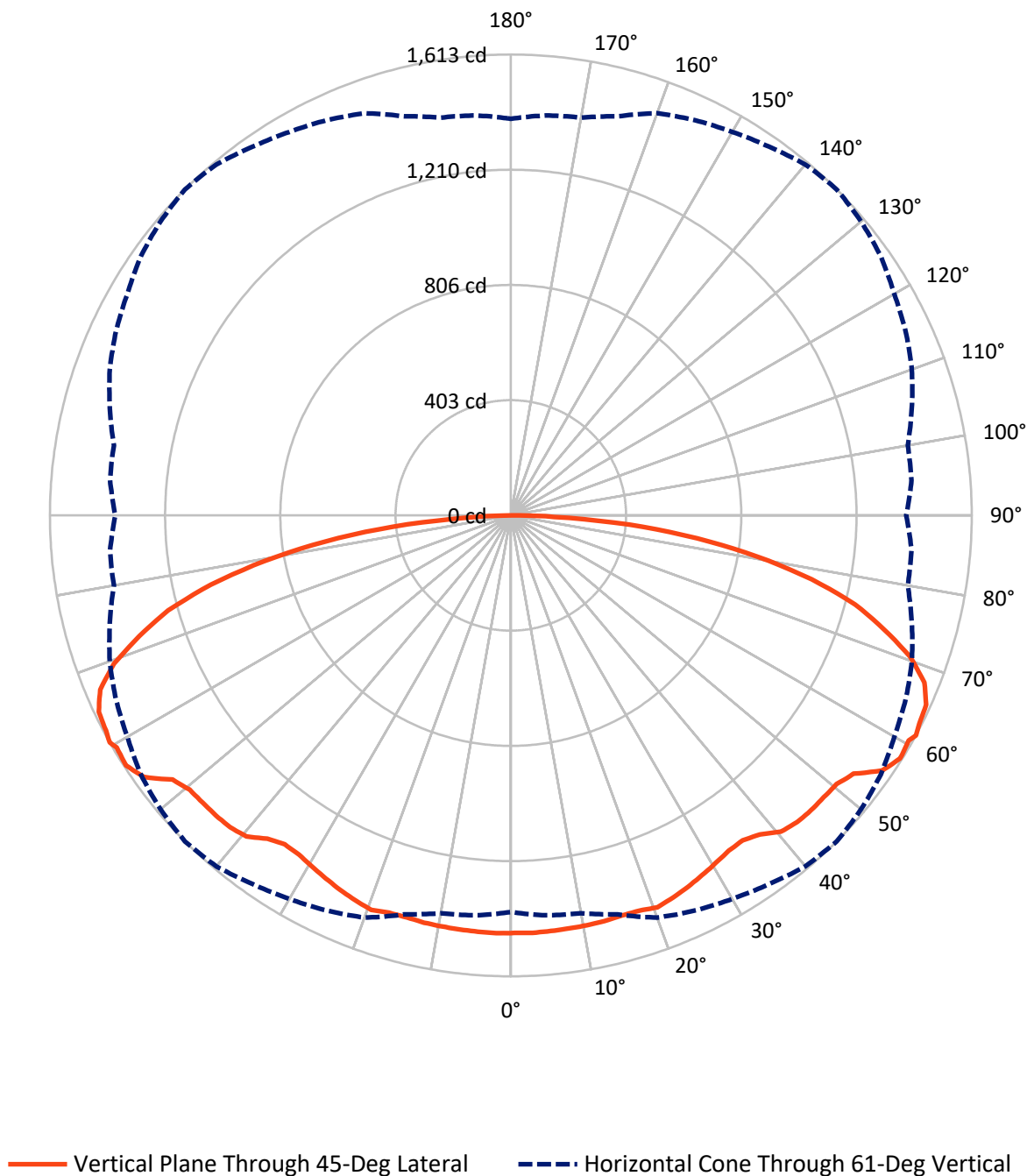


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197671

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197671

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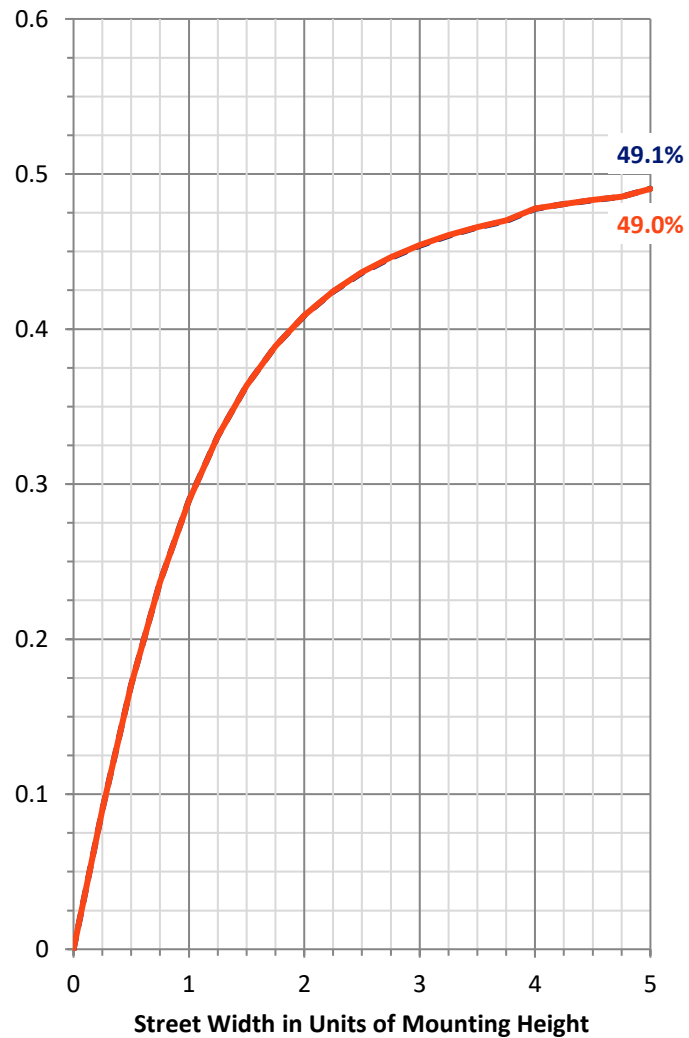
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3770.2	0.0	3770.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3770.2	0.0	3770.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7540.4	0.0	7540.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.8
10°-20°	412.0	5.5
20°-30°	663.0	8.8
30°-40°	878.3	11.6
40°-50°	1109.1	14.7
50°-60°	1328.9	17.6
60°-70°	1453.1	19.3
70°-80°	1163.2	15.4
80°-90°	393.5	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°	7540.4	100.0
0°-180°	7540.4	100.0

Coefficient of Utilization



REPORT NUMBER: P197671

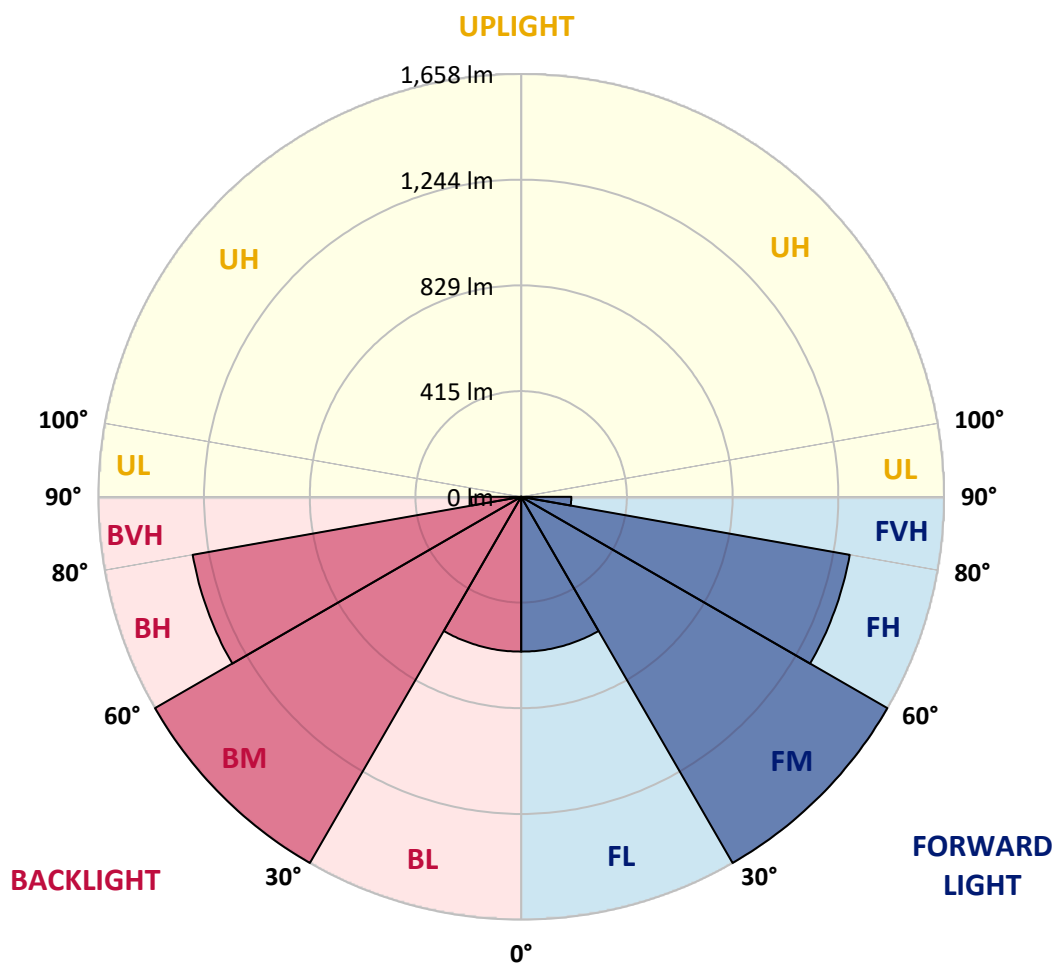
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.2	8.1			
FM	(30°-60°)	1658.1	22.0			
FH	(60°-80°)	1308.1	17.3			G1/1800
FVH	(80°-90°)	196.8	2.6			G2/225
BL	(0°-30°)	607.2	8.1	B2/1000		
BM	(30°-60°)	1658.1	22.0	B2/2500		
BH	(60°-80°)	1308.1	17.3	B3/2500		G1/1800
BVH	(80°-90°)	196.8	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P197671

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1462.2	1461.0	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
5°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
7.5°	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1461.0	1459.6	1461.0
10°	1456.7	1456.7	1456.7	1456.7	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2
12.5°	1453.9	1453.9	1453.9	1453.9	1455.3	1455.3	1455.3	1455.3	1456.7	1456.7	1455.3
15°	1451.1	1449.7	1449.7	1451.1	1451.1	1452.5	1452.5	1452.5	1453.9	1452.5	1452.5
17.5°	1448.2	1446.8	1448.2	1449.7	1449.7	1451.1	1452.5	1452.5	1453.9	1453.9	1453.9
20°	1452.5	1451.1	1452.5	1453.9	1455.3	1458.2	1459.6	1461.0	1462.2	1463.7	1463.7
22.5°	1444.0	1442.6	1444.0	1444.0	1445.4	1446.8	1449.7	1451.1	1452.5	1452.5	1452.5
25°	1431.4	1431.4	1432.8	1432.8	1434.2	1435.7	1437.1	1438.5	1438.5	1439.9	1438.5
27.5°	1417.4	1417.4	1418.8	1418.8	1421.7	1421.7	1423.1	1424.3	1425.7	1425.7	1425.7
30°	1400.6	1400.6	1402.0	1403.4	1406.1	1407.5	1408.9	1410.3	1411.7	1411.7	1411.7
32.5°	1385.1	1383.7	1385.1	1387.8	1392.1	1394.9	1397.7	1399.1	1399.1	1399.1	1400.6
35°	1372.4	1373.8	1376.6	1379.5	1385.1	1387.8	1390.6	1394.9	1396.3	1396.3	1396.3
37.5°	1375.2	1376.6	1380.9	1386.4	1393.5	1402.0	1407.5	1413.1	1417.4	1416.0	1414.6
40°	1393.5	1396.3	1403.4	1411.7	1423.1	1434.2	1442.6	1449.7	1453.9	1455.3	1453.9
42.5°	1396.3	1399.1	1404.6	1417.4	1430.0	1442.6	1453.9	1461.0	1466.5	1467.9	1466.5
45°	1394.9	1394.9	1403.4	1417.4	1430.0	1442.6	1456.7	1466.5	1472.2	1472.2	1472.2
47.5°	1385.1	1389.2	1394.9	1408.9	1425.7	1438.5	1452.5	1462.2	1469.3	1473.6	1469.3
50°	1385.1	1385.1	1394.9	1404.6	1420.2	1442.6	1462.2	1472.2	1479.2	1477.8	1479.2
52.5°	1382.3	1390.6	1396.3	1410.3	1438.5	1461.0	1476.4	1490.4	1500.2	1501.6	1498.9
55°	1407.5	1408.9	1421.7	1448.2	1475.0	1500.2	1528.3	1549.4	1566.3	1576.2	1562.0
57.5°	1427.1	1420.2	1445.4	1467.9	1498.9	1536.8	1578.8	1595.7	1608.4	1605.6	1609.9
60°	1400.6	1410.3	1428.6	1452.5	1501.6	1539.5	1562.0	1580.3	1595.7	1599.9	1594.4
61°	1387.8	1404.6	1413.1	1445.4	1497.5	1525.5	1549.4	1574.8	1602.8	1612.7	1599.9
62.5°	1366.7	1393.5	1390.6	1442.6	1475.0	1507.3	1552.3	1581.7	1601.4	1604.2	1601.4
65°	1368.1	1364.1	1396.3	1434.2	1466.5	1524.1	1562.0	1580.3	1591.6	1597.1	1594.4
67.5°	1323.3	1309.1	1348.5	1375.2	1430.0	1475.0	1511.5	1538.1	1555.1	1560.6	1553.7
70°	1219.3	1229.2	1257.2	1298.0	1343.0	1397.7	1431.4	1466.5	1480.7	1481.9	1481.9
72.5°	1119.5	1125.2	1153.3	1191.3	1243.2	1290.9	1324.7	1352.7	1365.5	1366.7	1369.6
75°	987.5	993.1	1025.4	1060.5	1112.6	1153.3	1177.1	1210.9	1229.2	1244.6	1232.0
77.5°	834.3	844.3	869.4	907.5	955.2	977.7	1019.9	1059.2	1071.8	1076.1	1071.8
80°	661.6	674.3	696.8	747.3	768.4	804.9	845.7	862.5	873.7	876.5	877.9
82.5°	476.2	486.1	509.9	544.9	568.9	598.5	626.5	647.6	660.1	657.5	656.1
85°	280.9	283.7	309.1	333.0	351.2	369.5	391.8	407.4	410.3	415.8	414.3
87.5°	84.4	85.8	96.9	109.5	118.0	126.4	140.5	158.8	162.9	151.7	153.1
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: P197671

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-LWR-LW-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1461.0	1462.2
5°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
7.5°	1461.0	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6
10°	1458.2	1458.2	1458.2	1458.2	1456.7	1456.7	1456.7	1456.7
12.5°	1455.3	1455.3	1455.3	1455.3	1453.9	1453.9	1453.9	1453.9
15°	1452.5	1452.5	1452.5	1452.5	1451.1	1451.1	1451.1	1451.1
17.5°	1453.9	1452.5	1451.1	1451.1	1449.7	1448.2	1448.2	1448.2
20°	1462.2	1461.0	1458.2	1455.3	1453.9	1452.5	1452.5	1452.5
22.5°	1451.1	1449.7	1446.8	1445.4	1445.4	1444.0	1442.6	1442.6
25°	1438.5	1435.7	1435.7	1434.2	1434.2	1431.4	1431.4	1430.0
27.5°	1424.3	1423.1	1421.7	1420.2	1420.2	1418.8	1417.4	1416.0
30°	1411.7	1408.9	1406.1	1404.6	1403.4	1402.0	1402.0	1402.0
32.5°	1399.1	1396.3	1394.9	1390.6	1387.8	1386.4	1385.1	1385.1
35°	1394.9	1390.6	1387.8	1383.7	1379.5	1376.6	1375.2	1372.4
37.5°	1411.7	1406.1	1402.0	1394.9	1385.1	1380.9	1376.6	1375.2
40°	1448.2	1442.6	1434.2	1423.1	1411.7	1403.4	1396.3	1393.5
42.5°	1461.0	1453.9	1442.6	1431.4	1417.4	1404.6	1399.1	1396.3
45°	1465.1	1458.2	1442.6	1428.6	1416.0	1404.6	1396.3	1393.5
47.5°	1461.0	1451.1	1437.1	1425.7	1407.5	1393.5	1387.8	1383.7
50°	1470.7	1462.2	1444.0	1418.8	1403.4	1394.9	1385.1	1383.7
52.5°	1490.4	1475.0	1458.2	1439.9	1410.3	1393.5	1387.8	1380.9
55°	1549.4	1528.3	1498.9	1469.3	1451.1	1424.3	1407.5	1407.5
57.5°	1594.4	1577.4	1539.5	1500.2	1466.5	1446.8	1421.7	1423.1
60°	1581.7	1559.2	1540.9	1501.6	1453.9	1427.1	1417.4	1399.1
61°	1580.3	1549.4	1524.1	1493.3	1452.5	1410.3	1407.5	1383.7
62.5°	1583.1	1555.1	1507.3	1475.0	1444.0	1389.2	1387.8	1365.5
65°	1580.3	1553.7	1529.8	1469.3	1427.1	1404.6	1357.0	1375.2
67.5°	1536.8	1512.9	1469.3	1435.7	1371.0	1343.0	1316.2	1316.2
70°	1467.9	1432.8	1390.6	1348.5	1305.0	1257.2	1233.3	1219.3
72.5°	1352.7	1323.3	1289.6	1244.6	1191.3	1147.7	1125.2	1115.4
75°	1208.1	1175.7	1146.3	1112.6	1056.4	1019.9	996.0	988.9
77.5°	1056.4	1028.2	976.3	944.0	906.1	863.9	842.9	834.3
80°	862.5	847.1	810.6	758.5	740.2	688.3	674.3	661.6
82.5°	647.6	630.7	597.1	560.5	538.0	508.4	483.3	480.4
85°	407.4	396.1	375.0	348.4	320.2	303.4	280.9	286.6
87.5°	151.7	144.6	132.0	115.2	102.6	91.3	80.1	84.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)