

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: P197542

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197542
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6209.9 lumens
Efficiency: N/A
Efficacy: 138.0 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



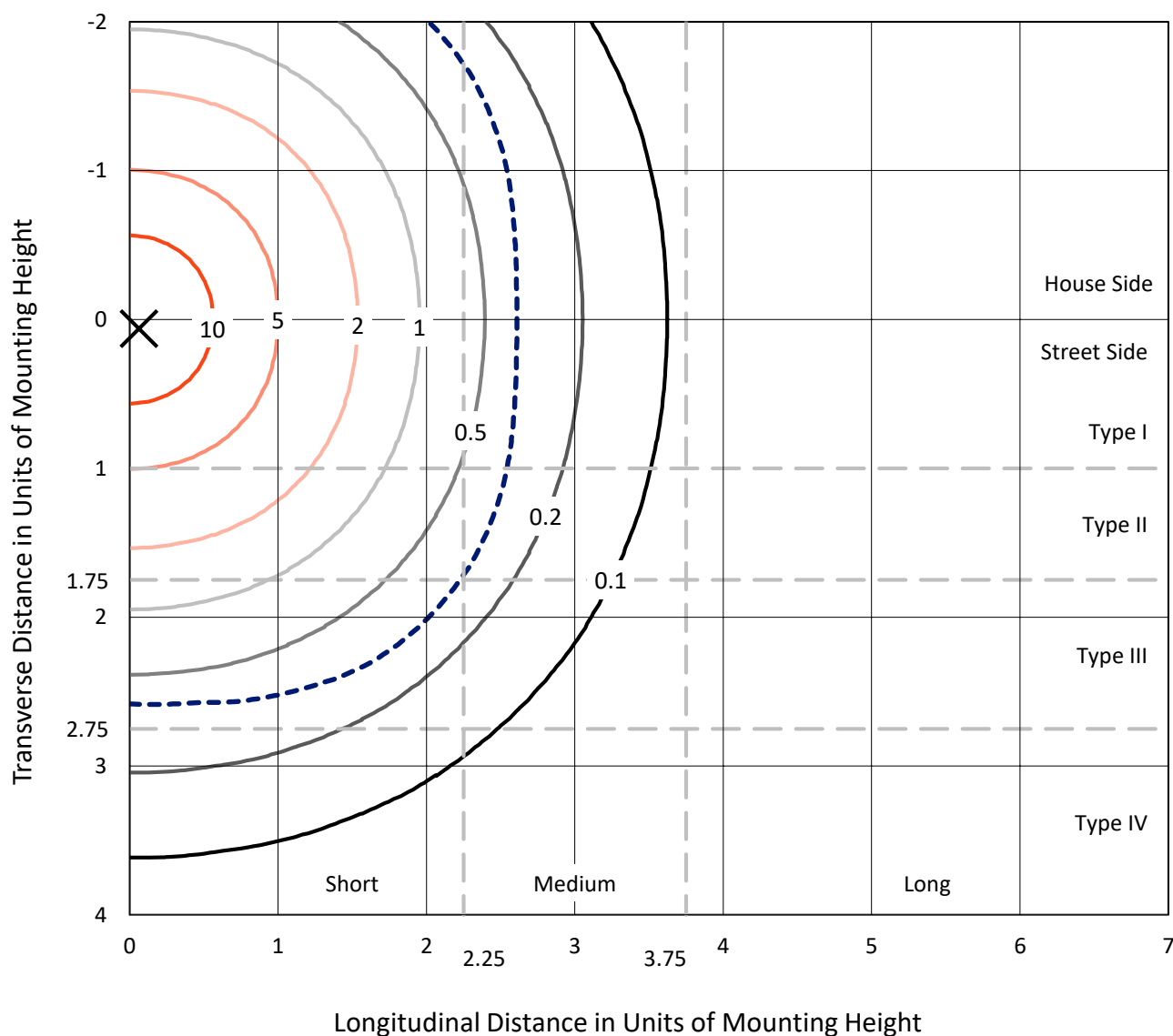
REPORT NUMBER: P197542

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

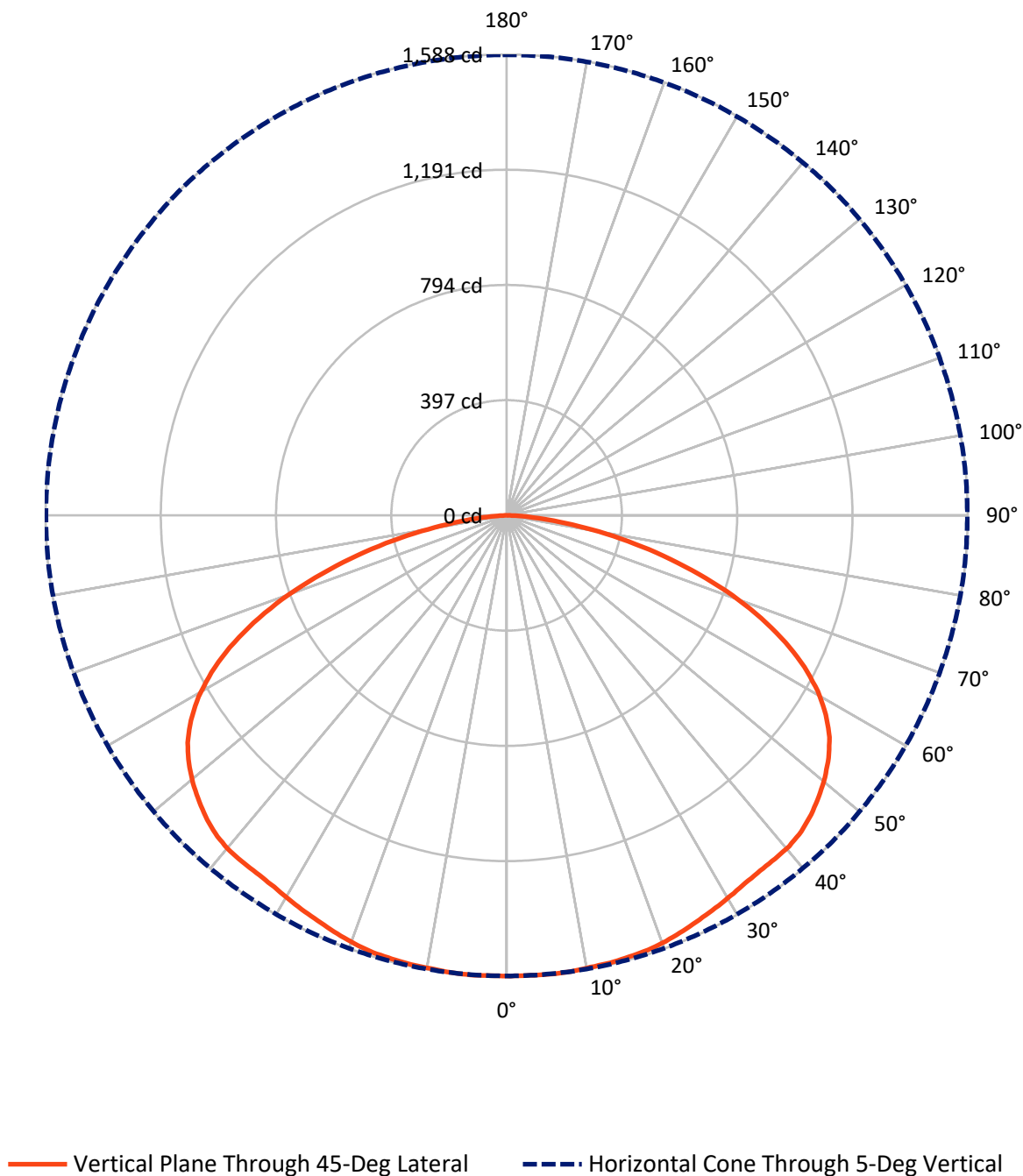


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197542

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

Luminous Intensity Polar Plot



REPORT NUMBER: P197542

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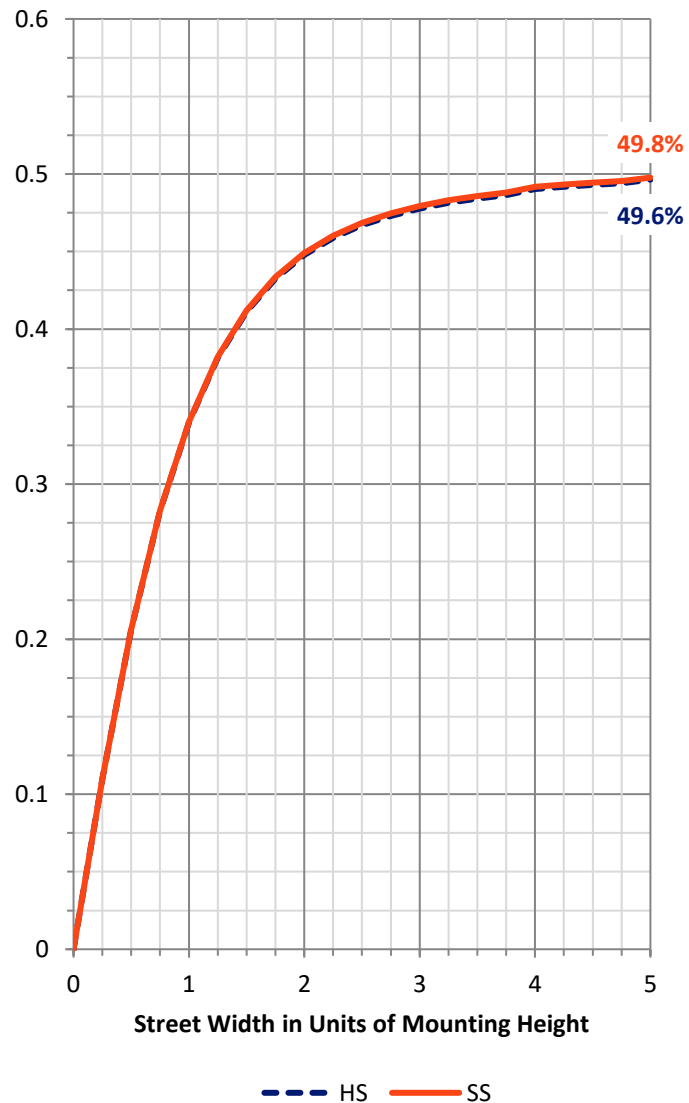
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3104.9	0.0	3104.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3104.9	0.0	3104.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6209.9	0.0	6209.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	2.4
10°-20°	446.3	7.2
20°-30°	712.3	11.5
30°-40°	938.2	15.1
40°-50°	1116.0	18.0
50°-60°	1168.0	18.8
60°-70°	993.3	16.0
70°-80°	564.5	9.1
80°-90°	120.0	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°	6209.9	100.0
0°-180°	6209.9	100.0

Coefficient of Utilization



REPORT NUMBER: P197542

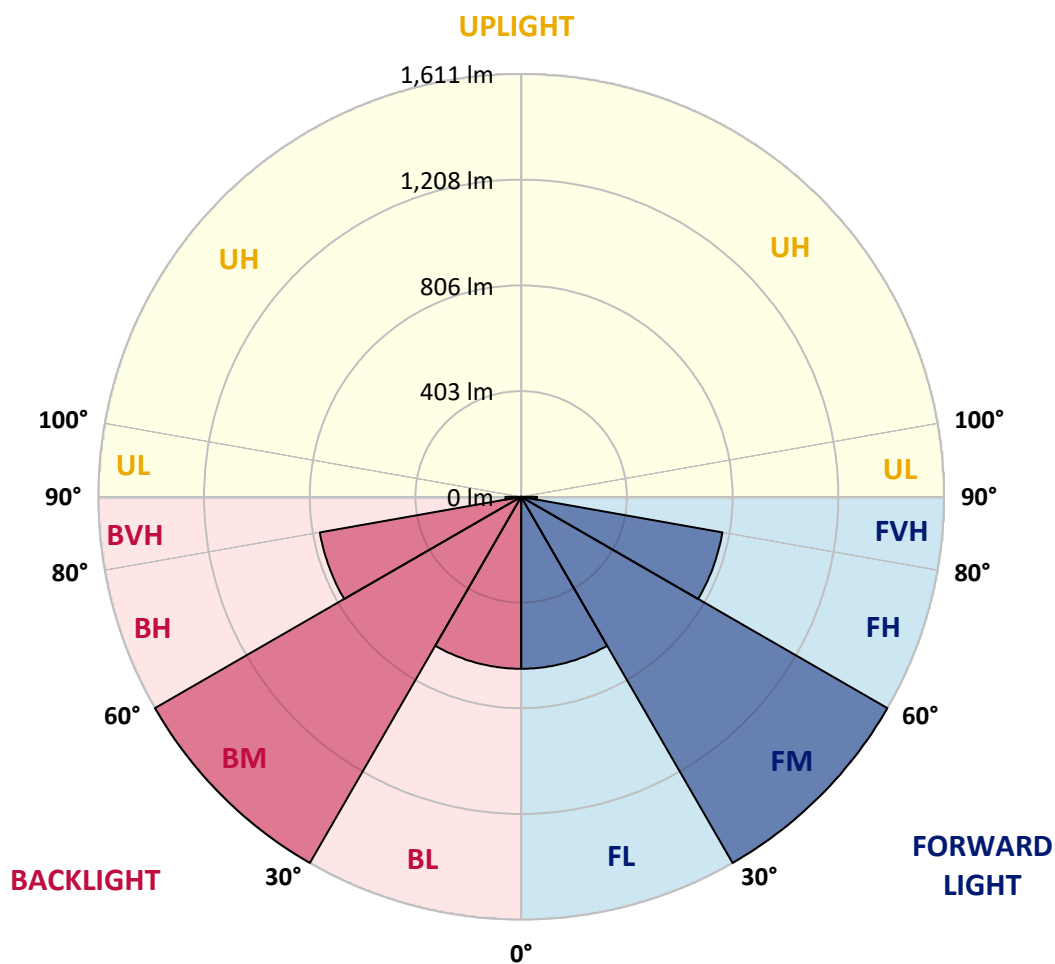
CATALOG NUMBER: TT-C3-LED-E1-CQ-MS/DIM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.0	10.5			
FM	(30°-60°)	1611.1	25.9			
FH	(60°-80°)	778.9	12.5			G1/1800
FVH	(80°-90°)	60.0	1.0			G1/100
BL	(0°-30°)	655.0	10.5	B2/1000		
BM	(30°-60°)	1611.1	25.9	B2/2500		
BH	(60°-80°)	778.9	12.5	B2/1000		G1/1800
BVH	(80°-90°)	60.0	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: P197542

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
2.5°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
5°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1587.8	1586.6
7.5°	1585.4	1585.4	1585.4	1585.4	1586.6	1585.4	1585.4	1586.6	1586.6	1586.6	1586.6
10°	1582.9	1581.7	1581.7	1582.9	1582.9	1582.9	1582.9	1582.9	1584.1	1582.9	1582.9
12.5°	1579.2	1578.0	1579.2	1579.2	1579.2	1580.5	1580.5	1580.5	1581.7	1581.7	1580.5
15°	1575.6	1575.6	1575.6	1575.6	1575.6	1576.8	1576.8	1578.0	1578.0	1578.0	1578.0
17.5°	1570.7	1570.7	1570.7	1571.9	1571.9	1573.1	1573.1	1573.1	1574.3	1574.3	1574.3
20°	1562.1	1560.9	1562.1	1562.1	1563.3	1564.5	1564.5	1565.8	1565.8	1565.8	1565.8
22.5°	1549.8	1549.8	1551.1	1551.1	1552.3	1553.5	1553.5	1554.7	1554.7	1554.7	1554.7
25°	1537.6	1538.8	1538.8	1540.1	1540.1	1541.3	1542.5	1542.5	1542.5	1542.5	1542.5
27.5°	1525.4	1526.6	1526.6	1526.6	1527.8	1529.0	1530.3	1531.5	1532.7	1531.5	1531.5
30°	1511.9	1511.9	1513.1	1514.3	1515.6	1516.8	1519.2	1520.5	1521.7	1520.5	1520.5
32.5°	1497.2	1498.4	1499.7	1500.9	1503.3	1505.8	1508.2	1509.5	1510.7	1509.5	1509.5
35°	1486.2	1486.2	1488.6	1491.1	1493.5	1497.2	1499.7	1502.1	1504.6	1503.3	1502.1
37.5°	1475.2	1475.2	1477.6	1481.3	1486.2	1491.1	1496.0	1499.7	1500.9	1500.9	1499.7
40°	1461.7	1462.9	1465.4	1471.5	1478.8	1485.0	1491.1	1496.0	1498.4	1498.4	1496.0
42.5°	1447.0	1448.2	1451.9	1458.0	1466.6	1473.9	1481.3	1485.0	1488.6	1488.6	1486.2
45°	1426.2	1427.4	1432.3	1438.4	1447.0	1454.4	1462.9	1466.6	1471.5	1470.3	1469.1
47.5°	1399.3	1400.5	1405.4	1411.5	1420.1	1428.7	1437.2	1443.3	1447.0	1447.0	1445.8
50°	1366.2	1367.4	1372.3	1378.5	1389.5	1399.3	1407.8	1414.0	1420.1	1420.1	1418.9
52.5°	1324.6	1327.0	1330.7	1339.3	1351.5	1362.5	1373.6	1383.4	1387.0	1388.3	1387.0
55°	1273.2	1275.6	1280.5	1290.3	1303.8	1317.2	1329.5	1340.5	1345.4	1349.1	1346.6
57.5°	1213.2	1215.6	1221.8	1232.8	1247.5	1260.9	1276.9	1289.1	1292.8	1296.4	1295.2
60°	1142.2	1145.9	1152.0	1164.2	1178.9	1193.6	1208.3	1223.0	1226.7	1231.6	1229.1
62.5°	1058.9	1062.6	1068.7	1082.2	1098.1	1111.6	1128.7	1142.2	1145.9	1150.8	1149.5
65°	963.5	967.1	973.2	987.9	1002.6	1017.3	1033.2	1047.9	1051.6	1056.5	1055.3
67.5°	854.5	858.2	864.3	881.4	896.1	910.8	924.3	939.0	941.4	946.3	945.1
70°	739.4	744.3	749.2	765.1	778.6	790.8	805.5	817.8	822.7	825.1	822.7
72.5°	624.3	628.0	632.9	643.9	653.7	664.7	679.4	688.0	691.7	692.9	692.9
75°	505.6	509.3	509.3	521.5	528.9	535.0	547.2	553.3	555.8	558.2	558.2
77.5°	393.0	390.5	393.0	397.9	402.8	407.7	415.0	418.7	421.1	426.0	423.6
80°	275.4	276.7	277.9	281.6	284.0	285.2	290.1	291.4	292.6	297.5	295.0
82.5°	177.5	175.1	177.5	176.3	178.7	175.1	177.5	181.2	178.7	181.2	182.4
85°	93.0	89.4	89.4	90.6	91.8	89.4	90.6	89.4	89.4	91.8	90.6
87.5°	29.4	28.2	29.4	28.2	29.4	28.2	29.4	30.6	29.4	29.4	30.6
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: P197542

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
2.5°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
5°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
7.5°	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1584.1	1585.4
10°	1582.9	1582.9	1582.9	1582.9	1581.7	1581.7	1581.7	1581.7
12.5°	1580.5	1580.5	1579.2	1579.2	1579.2	1579.2	1578.0	1578.0
15°	1578.0	1576.8	1576.8	1575.6	1575.6	1575.6	1574.3	1575.6
17.5°	1574.3	1573.1	1573.1	1571.9	1571.9	1570.7	1570.7	1570.7
20°	1565.8	1564.5	1564.5	1563.3	1563.3	1562.1	1560.9	1560.9
22.5°	1553.5	1553.5	1553.5	1552.3	1551.1	1551.1	1549.8	1549.8
25°	1542.5	1541.3	1541.3	1540.1	1538.8	1538.8	1537.6	1537.6
27.5°	1531.5	1530.3	1529.0	1526.6	1526.6	1525.4	1524.1	1522.9
30°	1519.2	1516.8	1514.3	1513.1	1511.9	1509.5	1508.2	1507.0
32.5°	1507.0	1504.6	1502.1	1499.7	1496.0	1494.8	1492.3	1492.3
35°	1499.7	1496.0	1492.3	1487.4	1483.7	1480.1	1477.6	1476.4
37.5°	1496.0	1491.1	1485.0	1478.8	1472.7	1467.8	1464.2	1464.2
40°	1491.1	1485.0	1477.6	1469.1	1461.7	1455.6	1451.9	1450.7
42.5°	1481.3	1475.2	1465.4	1458.0	1448.2	1442.1	1437.2	1436.0
45°	1464.2	1458.0	1449.5	1439.7	1429.9	1422.5	1417.6	1416.4
47.5°	1442.1	1434.8	1425.0	1415.2	1405.4	1396.8	1391.9	1390.7
50°	1414.0	1406.6	1396.8	1387.0	1376.0	1367.4	1361.3	1361.3
52.5°	1382.1	1373.6	1362.5	1351.5	1339.3	1330.7	1324.6	1323.4
55°	1340.5	1330.7	1319.7	1307.5	1294.0	1284.2	1276.9	1275.6
57.5°	1289.1	1278.1	1265.8	1252.4	1238.9	1227.9	1219.3	1218.1
60°	1224.2	1212.0	1199.7	1186.3	1171.6	1159.3	1150.8	1148.3
62.5°	1144.6	1131.2	1117.7	1105.5	1089.5	1077.3	1068.7	1066.3
65°	1050.4	1039.4	1025.9	1011.2	994.1	981.8	973.2	972.0
67.5°	940.2	929.2	915.7	902.2	885.1	874.1	865.5	863.1
70°	819.0	809.2	798.2	784.7	770.0	759.0	750.4	749.2
72.5°	690.5	681.9	672.1	662.3	647.6	639.0	631.7	630.5
75°	558.2	549.7	542.3	535.0	524.0	517.8	510.5	510.5
77.5°	423.6	421.1	416.2	407.7	401.5	396.6	393.0	390.5
80°	296.3	293.8	291.4	286.5	282.8	281.6	279.1	276.7
82.5°	181.2	180.0	181.2	178.7	177.5	177.5	176.3	173.8
85°	91.8	93.0	91.8	90.6	90.6	90.6	90.6	89.4
87.5°	29.4	30.6	29.4	28.2	28.2	28.2	28.2	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)