

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: P197764

Luminaire Tested: **TT-C4-LED-E1-WQ-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-WQ-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6581.9 lumens
Efficiency: N/A
Efficacy: 113.5 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): 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

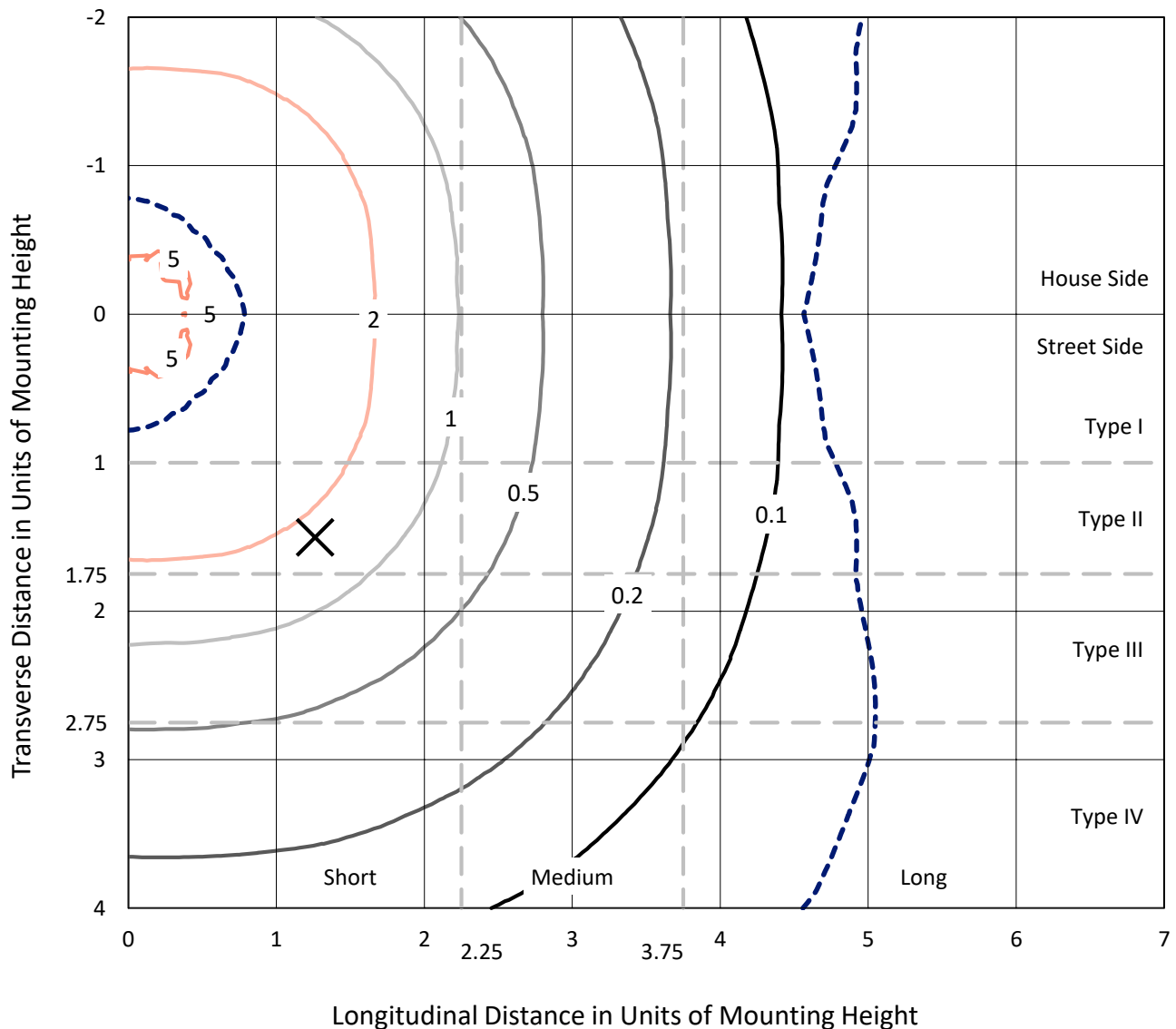


REPORT NUMBER: P197764

CATALOG NUMBER: TT-C4-LED-E1-WQ-MS/DIM-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

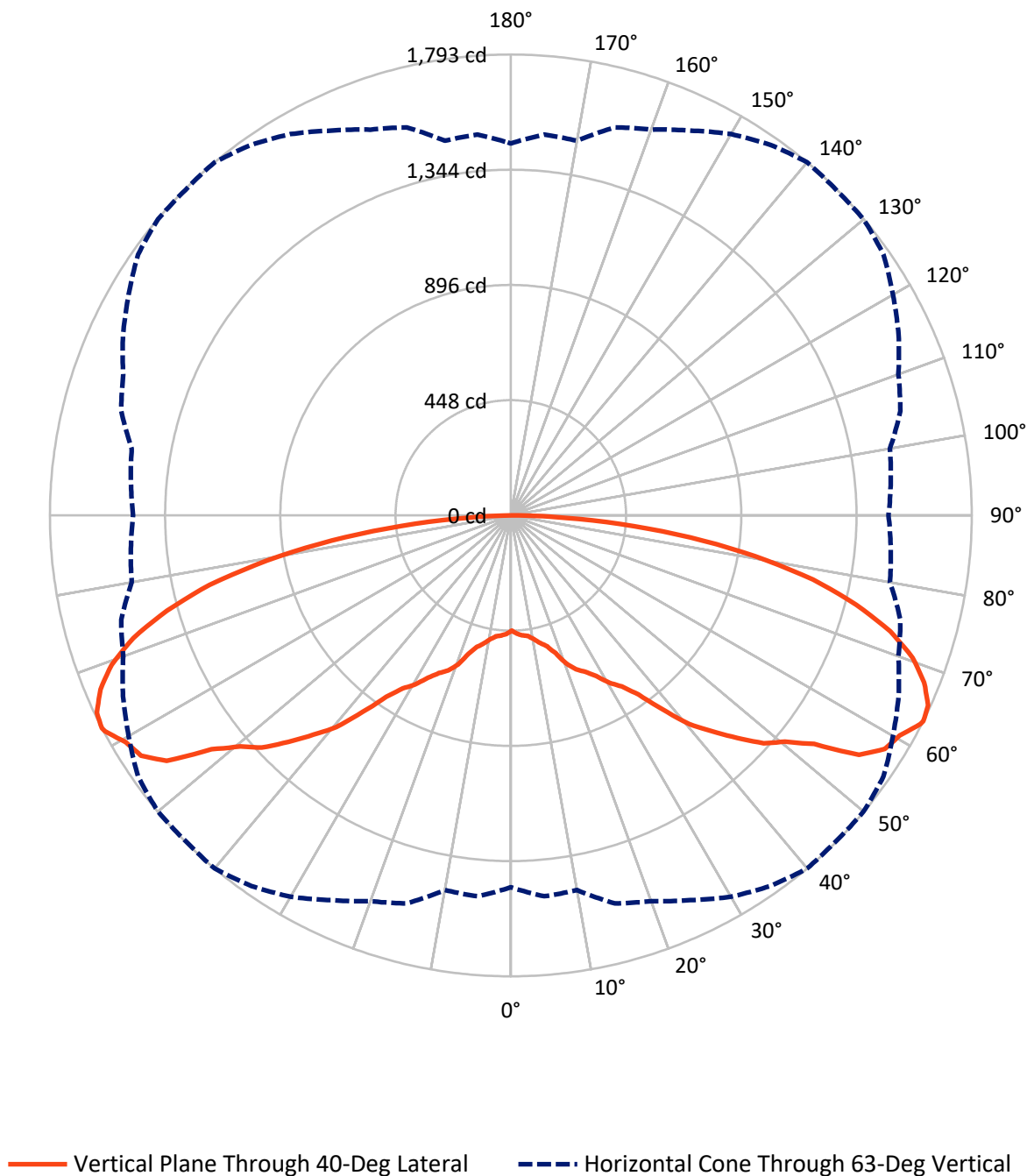


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197764

CATALOG NUMBER: TT-C4-LED-E1-WQ-MS/DIM-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197764

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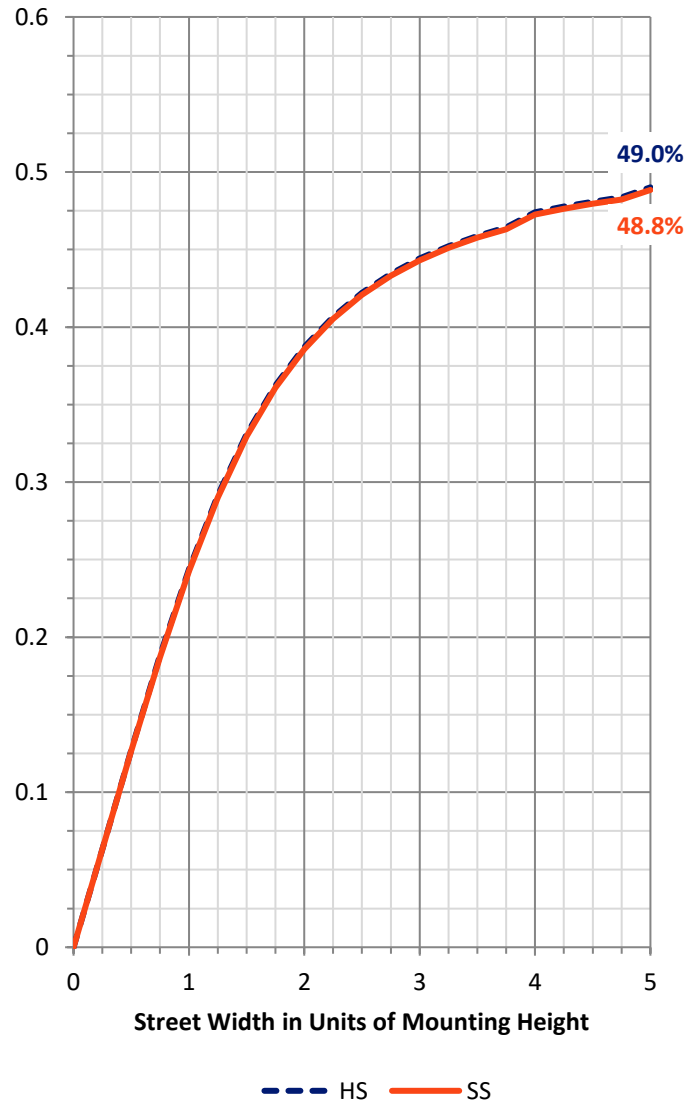
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3290.9	0.0	3290.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3290.9	0.0	3290.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6581.9	0.0	6581.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	0.7
10°-20°	153.8	2.3
20°-30°	312.6	4.7
30°-40°	538.8	8.2
40°-50°	907.6	13.8
50°-60°	1336.5	20.3
60°-70°	1589.3	24.1
70°-80°	1286.6	19.5
80°-90°	411.6	6.3
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°	6581.9	100.0
0°-180°	6581.9	100.0

Coefficient of Utilization



REPORT NUMBER: P197764

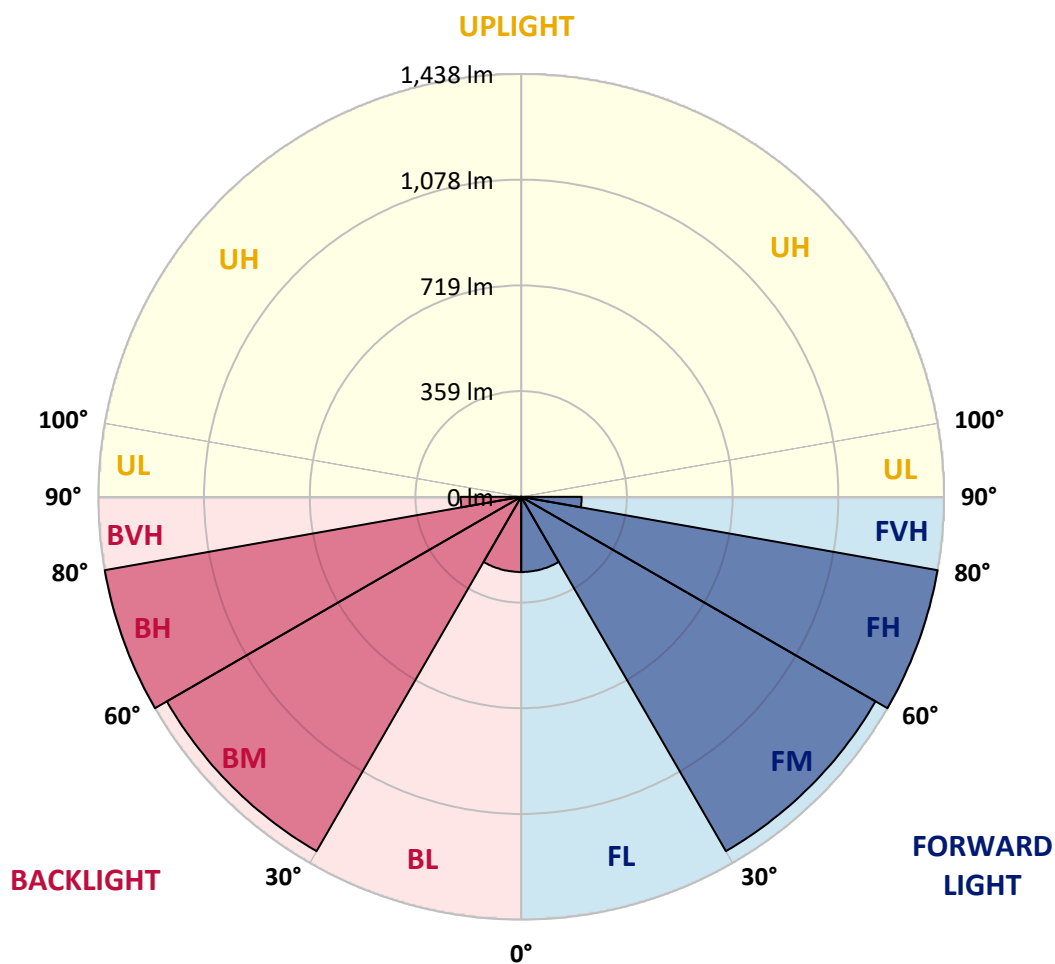
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.8	3.9			
FM	(30°-60°)	1391.4	21.1			
FH	(60°-80°)	1437.9	21.8			G1/1800
FVH	(80°-90°)	205.8	3.1			G2/225
BL	(0°-30°)	255.8	3.9	B1/500		
BM	(30°-60°)	1391.4	21.1	B2/2500		
BH	(60°-80°)	1437.9	21.8	B3/2500		G1/1800
BVH	(80°-90°)	205.8	3.1			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: P197764

CATALOG NUMBER: TT-C4-LED-E1-WQ-MS/DIM-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	462.1	462.1	462.1	462.1	462.1	462.1	460.8	462.1	460.8	460.8	460.8
5°	471.0	471.0	471.0	471.0	469.8	469.8	468.5	468.5	468.5	467.2	468.5
7.5°	474.9	474.9	474.9	474.9	473.6	473.6	473.6	473.6	473.6	473.6	473.6
10°	483.8	483.8	485.1	486.4	488.8	488.8	488.8	490.1	488.8	488.8	488.8
12.5°	502.9	501.6	504.2	506.7	509.3	510.4	510.4	510.4	509.3	509.3	510.4
15°	529.6	527.1	528.3	529.6	530.9	532.2	532.2	530.9	528.3	528.3	528.3
17.5°	564.0	560.2	558.9	557.6	557.6	560.2	562.7	561.5	562.7	561.5	562.7
20°	604.7	602.1	602.1	602.1	603.4	608.5	613.6	616.2	614.9	612.4	616.2
22.5°	631.4	632.7	639.1	637.8	636.5	641.6	648.0	653.0	650.6	646.8	649.3
25°	660.7	660.7	669.7	673.5	669.7	669.7	672.2	676.0	673.5	670.9	673.5
27.5°	693.8	693.8	697.7	701.5	698.9	698.9	702.8	709.2	707.9	706.6	707.9
30°	733.3	728.2	724.4	730.8	737.2	738.5	742.2	752.4	755.0	753.7	756.2
32.5°	770.2	762.5	765.2	768.9	783.0	788.1	786.8	794.5	793.2	789.4	794.5
35°	805.9	814.8	819.8	827.5	832.6	839.0	839.0	852.9	855.5	851.7	855.5
37.5°	874.7	878.4	892.5	893.7	900.1	924.3	926.8	945.9	956.1	951.0	952.3
40°	968.8	967.5	977.8	993.0	1005.8	1036.3	1045.2	1057.9	1066.9	1063.1	1068.2
42.5°	1045.2	1035.1	1042.6	1075.7	1089.8	1112.7	1124.2	1130.5	1147.1	1142.0	1148.4
45°	1099.9	1103.7	1114.0	1147.1	1155.9	1175.1	1201.8	1213.2	1234.8	1228.6	1232.4
47.5°	1153.5	1171.3	1180.2	1195.4	1223.4	1248.9	1282.0	1293.4	1324.0	1321.4	1317.7
50°	1223.4	1237.4	1247.6	1259.1	1297.3	1339.3	1367.3	1372.4	1382.6	1375.0	1387.7
52.5°	1298.5	1297.3	1306.2	1338.0	1391.5	1408.0	1432.3	1455.2	1476.8	1484.5	1476.8
55°	1397.9	1366.0	1403.0	1448.8	1471.7	1511.2	1569.8	1601.5	1643.6	1650.0	1637.2
57.5°	1438.6	1438.6	1476.8	1503.5	1545.5	1615.6	1678.0	1693.2	1714.8	1703.4	1716.1
60°	1433.6	1481.9	1481.9	1529.0	1597.8	1660.1	1683.1	1708.4	1737.7	1736.6	1736.6
62.5°	1439.9	1486.9	1474.2	1555.7	1597.8	1648.7	1699.6	1746.7	1787.5	1786.2	1784.9
63°	1446.2	1486.9	1479.4	1562.1	1596.5	1651.1	1712.4	1759.4	1792.6	1790.0	1791.3
65°	1465.3	1453.9	1499.7	1551.9	1591.4	1672.9	1723.8	1760.7	1783.6	1782.3	1782.3
67.5°	1429.6	1403.0	1467.9	1488.2	1563.4	1635.9	1675.4	1717.4	1734.0	1734.0	1731.4
70°	1320.3	1331.6	1376.3	1409.3	1485.6	1550.6	1583.7	1637.2	1657.5	1657.5	1656.4
72.5°	1209.5	1228.6	1259.1	1306.2	1378.7	1429.6	1469.1	1517.5	1544.2	1542.9	1542.9
75°	1068.2	1086.0	1121.6	1166.2	1229.8	1279.5	1311.3	1357.1	1387.7	1399.2	1386.4
77.5°	909.0	914.1	947.2	993.0	1049.0	1083.4	1131.8	1176.4	1201.8	1200.5	1196.7
80°	715.5	721.8	749.9	802.0	832.6	873.4	917.9	942.1	963.7	963.7	961.1
82.5°	493.9	508.0	536.0	570.3	602.1	637.8	662.0	686.2	704.1	702.8	698.9
85°	278.8	285.2	311.9	333.6	357.7	380.6	397.2	412.5	427.8	427.8	425.2
87.5°	84.0	75.1	90.4	99.4	112.0	123.4	131.1	146.4	156.7	145.2	145.2
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: P197764

CATALOG NUMBER: TT-C4-LED-E1-WQ-MS/DIM-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	462.1	462.1	462.1	462.1	462.1	462.1	462.1	462.1
5°	468.5	469.8	469.8	471.0	471.0	471.0	471.0	471.0
7.5°	473.6	473.6	473.6	473.6	474.9	474.9	474.9	474.9
10°	488.8	490.1	488.8	488.8	486.4	485.1	485.1	485.1
12.5°	510.4	511.8	511.8	509.3	506.7	504.2	502.9	501.6
15°	530.9	534.7	532.2	530.9	528.3	529.6	529.6	530.9
17.5°	562.7	564.0	560.2	557.6	556.3	558.9	561.5	562.7
20°	617.5	614.9	607.3	604.7	602.1	602.1	604.7	604.7
22.5°	651.9	645.5	640.4	637.8	637.8	637.8	634.0	628.9
25°	676.0	672.2	668.4	670.9	673.5	669.7	660.7	659.4
27.5°	709.2	701.5	700.2	698.9	700.2	697.7	696.4	691.3
30°	752.4	742.2	739.6	737.2	729.5	727.0	729.5	733.3
32.5°	793.2	786.8	789.4	784.2	770.2	765.2	767.6	766.5
35°	851.7	840.3	840.3	830.0	826.2	824.9	814.8	805.9
37.5°	944.6	929.4	925.6	902.7	892.5	895.0	881.0	870.8
40°	1057.9	1046.6	1036.3	1010.9	996.8	979.0	970.1	970.1
42.5°	1133.0	1125.5	1111.4	1093.6	1078.3	1047.7	1036.3	1042.6
45°	1215.8	1205.7	1176.4	1158.5	1144.5	1122.9	1110.1	1097.5
47.5°	1299.8	1285.9	1251.5	1228.6	1195.4	1189.0	1175.1	1157.2
50°	1373.7	1368.6	1344.4	1306.2	1264.1	1254.0	1241.2	1224.7
52.5°	1464.0	1433.6	1413.1	1396.6	1349.4	1316.4	1298.5	1306.2
55°	1611.7	1573.5	1521.3	1469.1	1458.9	1419.5	1375.0	1399.2
57.5°	1697.0	1675.4	1635.9	1553.2	1512.5	1485.6	1456.5	1434.7
60°	1717.4	1678.0	1669.0	1606.6	1541.8	1485.6	1497.1	1446.2
62.5°	1756.9	1703.4	1653.8	1604.1	1564.7	1488.2	1485.6	1458.9
63°	1769.6	1716.1	1663.9	1604.1	1568.5	1497.1	1483.2	1469.1
65°	1767.0	1721.2	1681.7	1604.1	1550.6	1522.6	1453.9	1485.6
67.5°	1718.7	1680.4	1634.6	1581.2	1492.0	1470.4	1422.1	1428.5
70°	1641.0	1591.4	1548.1	1498.4	1427.2	1377.4	1348.3	1324.0
72.5°	1520.0	1475.5	1429.6	1383.8	1320.3	1260.4	1240.1	1213.2
75°	1359.7	1316.4	1274.4	1231.1	1171.3	1117.8	1096.2	1077.0
77.5°	1176.4	1139.4	1079.6	1038.9	1004.5	947.2	926.8	906.4
80°	938.2	920.5	877.1	823.8	805.9	749.9	734.6	707.9
82.5°	682.3	664.5	630.1	593.3	571.7	542.4	516.8	499.0
85°	416.3	397.2	379.3	346.2	333.6	311.9	291.6	281.4
87.5°	150.3	134.9	121.0	105.6	98.1	82.7	80.2	72.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)