

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: P197548

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197548
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-C4-LED-E1-CQ-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED 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: 7230.4 lumens
Efficiency: N/A
Efficacy: 124.7 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): 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

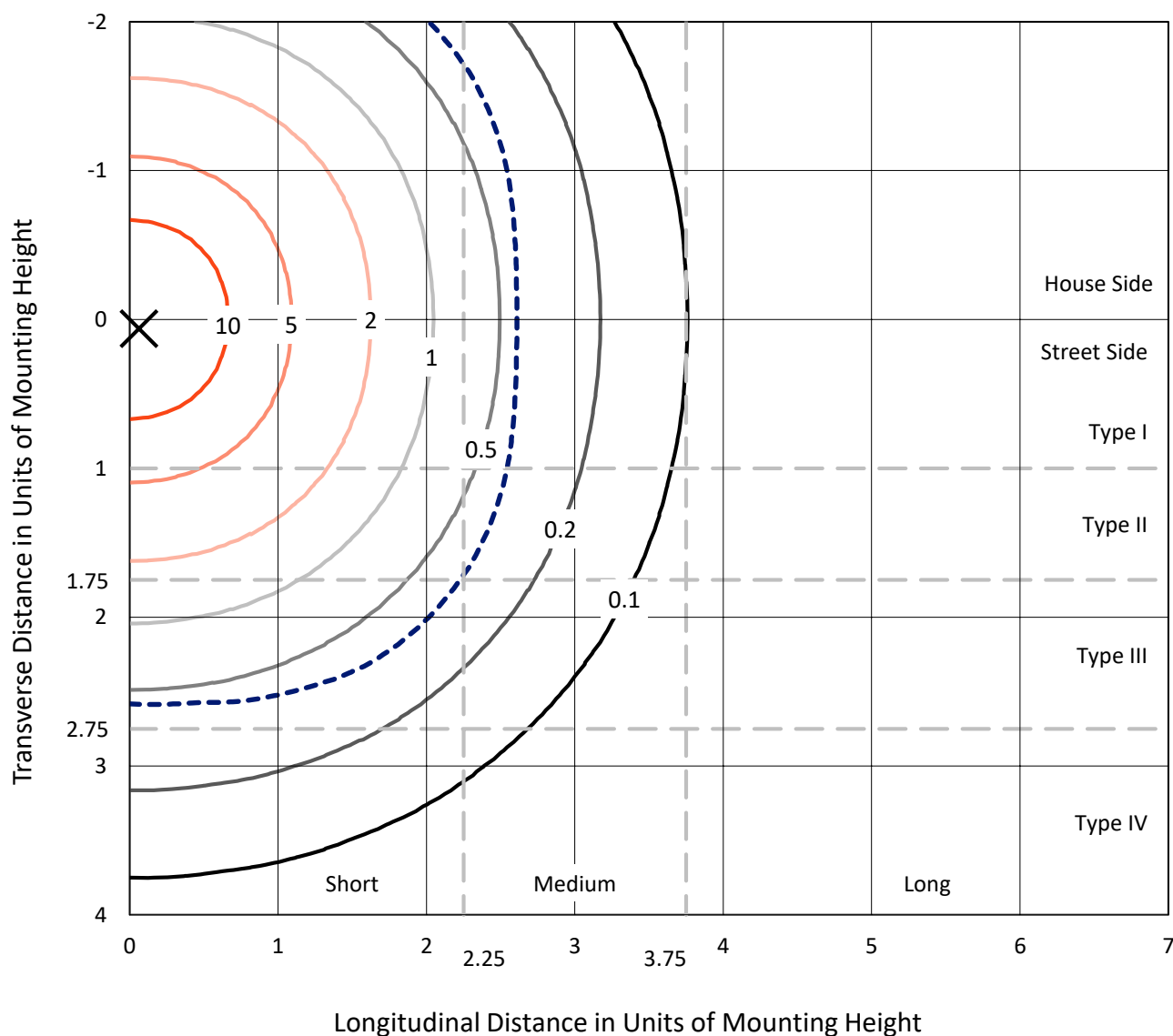


REPORT NUMBER: P197548

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

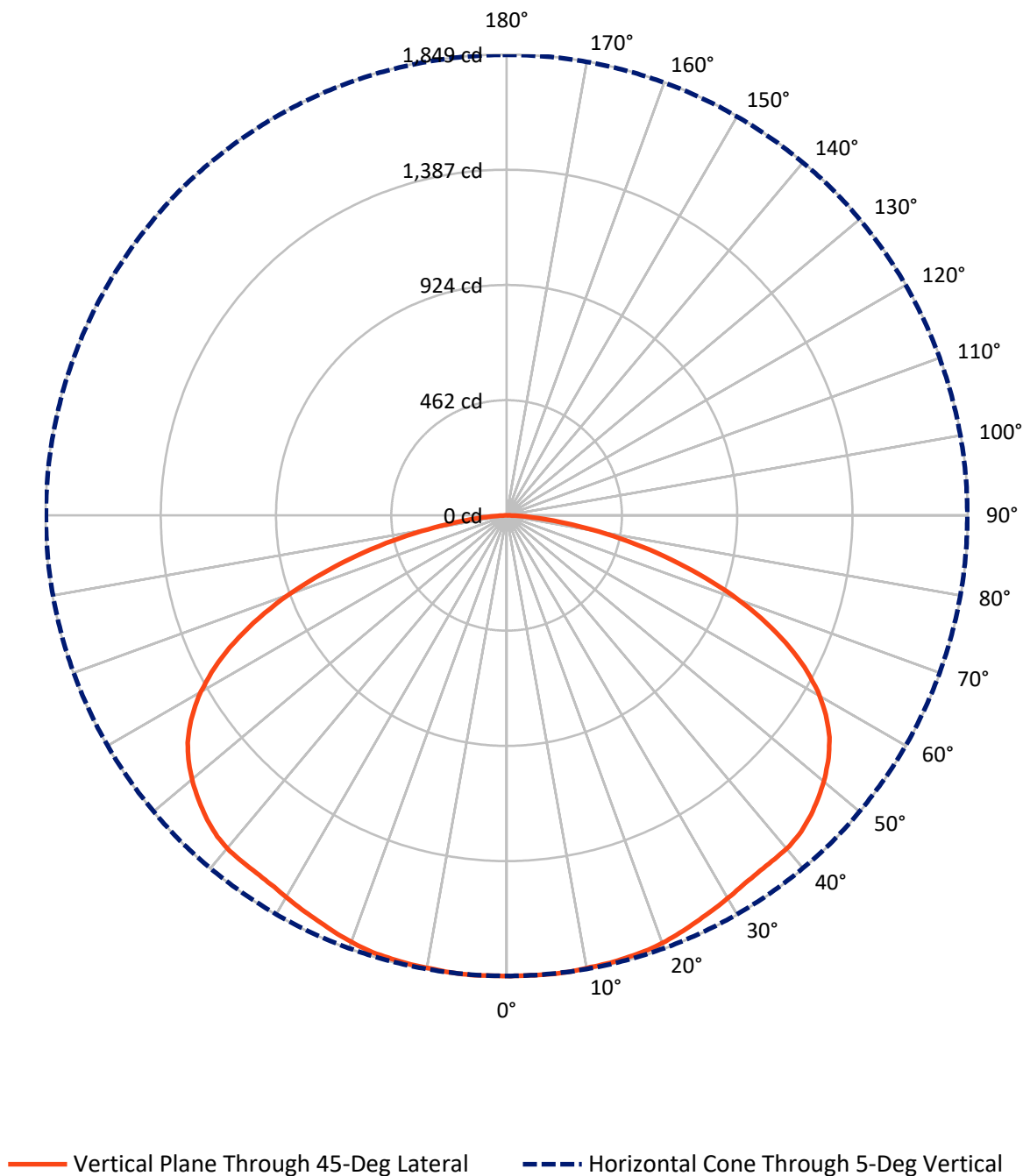


Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197548

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

Luminous Intensity Polar Plot



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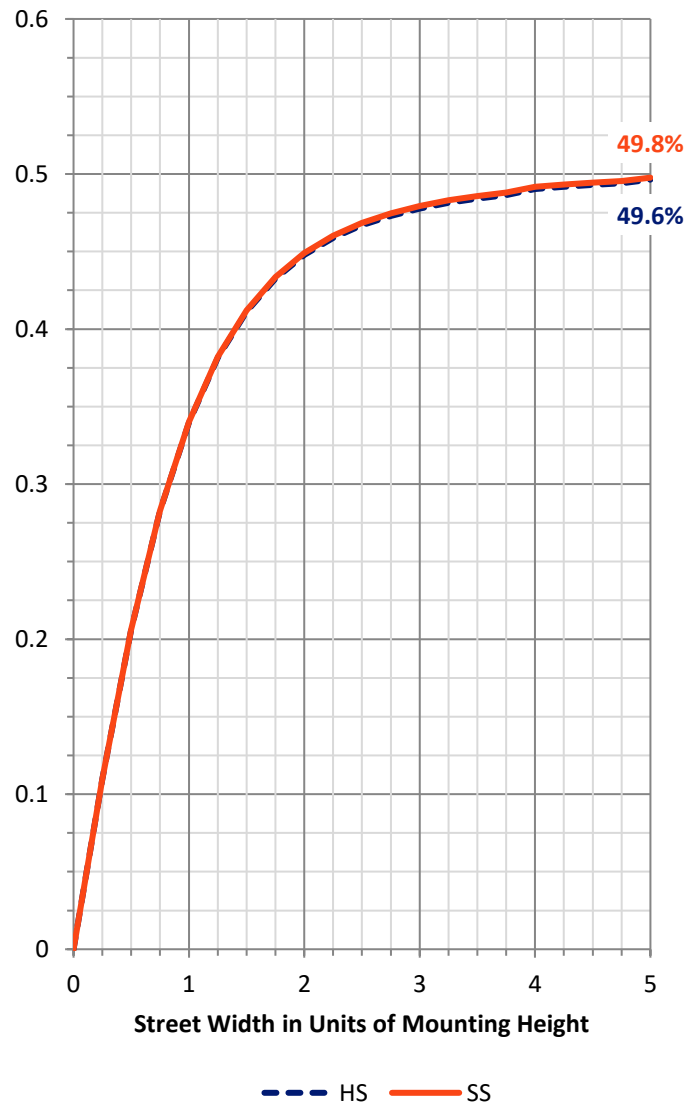
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3615.2	0.0	3615.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3615.2	0.0	3615.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7230.4	0.0	7230.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	2.4
10°-20°	519.7	7.2
20°-30°	829.3	11.5
30°-40°	1092.4	15.1
40°-50°	1299.4	18.0
50°-60°	1359.9	18.8
60°-70°	1156.5	16.0
70°-80°	657.2	9.1
80°-90°	139.8	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°	7230.4	100.0
0°-180°	7230.4	100.0

Coefficient of Utilization



REPORT NUMBER: P197548

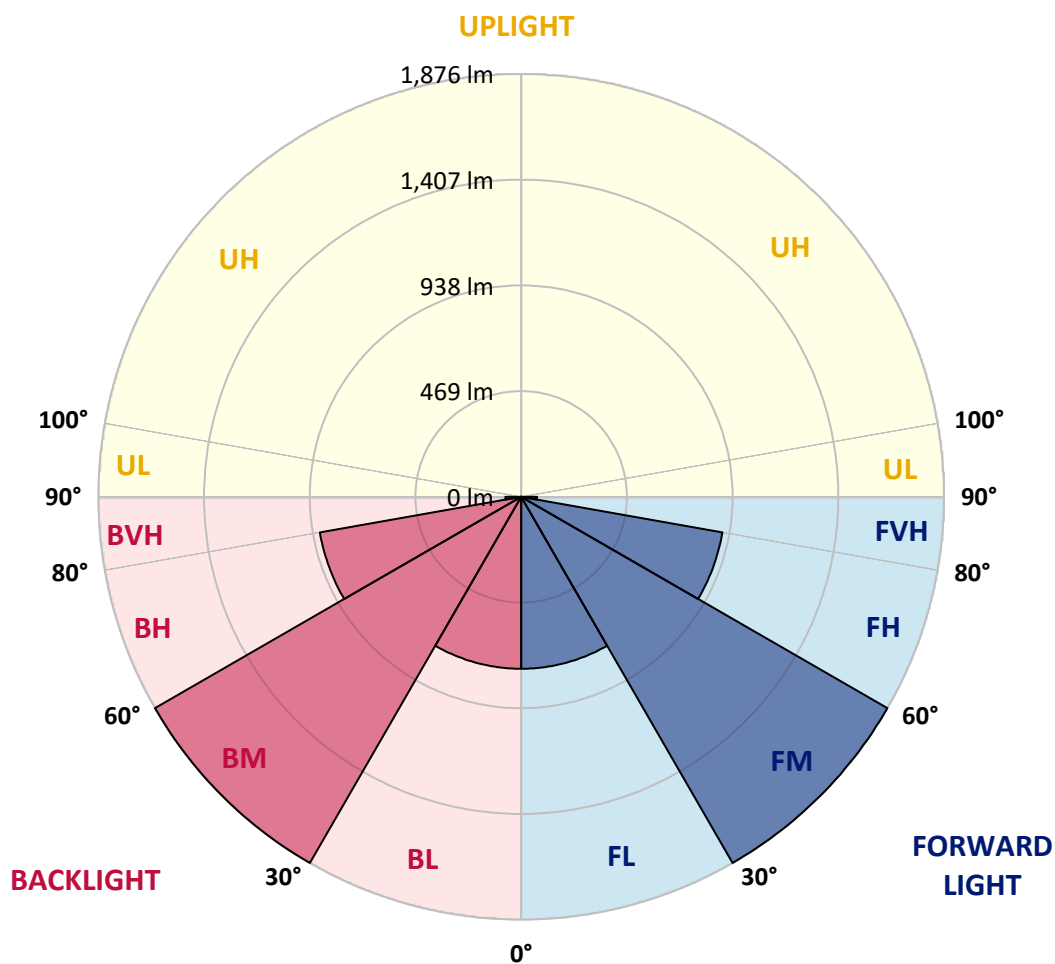
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.6	10.5			
FM	(30°-60°)	1875.9	25.9			
FH	(60°-80°)	906.9	12.5			G1/1800
FVH	(80°-90°)	69.9	1.0			G1/100
BL	(0°-30°)	762.6	10.5	B2/1000		
BM	(30°-60°)	1875.9	25.9	B2/2500		
BH	(60°-80°)	906.9	12.5	B2/1000		G1/1800
BVH	(80°-90°)	69.9	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: P197548

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3
2.5°	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3
5°	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1848.7	1847.3
7.5°	1845.9	1845.9	1845.9	1845.9	1847.3	1845.9	1845.9	1847.3	1847.3	1847.3	1847.3
10°	1843.0	1841.6	1841.6	1843.0	1843.0	1843.0	1843.0	1843.0	1844.5	1843.0	1843.0
12.5°	1838.8	1837.3	1838.8	1838.8	1838.8	1840.2	1840.2	1840.2	1841.6	1841.6	1840.2
15°	1834.5	1834.5	1834.5	1834.5	1834.5	1835.9	1835.9	1837.3	1837.3	1837.3	1837.3
17.5°	1828.8	1828.8	1828.8	1830.2	1830.2	1831.6	1831.6	1831.6	1833.1	1833.1	1833.1
20°	1818.8	1817.4	1818.8	1818.8	1820.2	1821.7	1821.7	1823.1	1823.1	1823.1	1823.1
22.5°	1804.6	1804.6	1806.0	1806.0	1807.4	1808.8	1808.8	1810.3	1810.3	1810.3	1810.3
25°	1790.3	1791.7	1791.7	1793.2	1793.2	1794.6	1796.0	1796.0	1796.0	1796.0	1796.0
27.5°	1776.1	1777.5	1777.5	1777.5	1778.9	1780.3	1781.8	1783.2	1784.6	1783.2	1783.2
30°	1760.4	1760.4	1761.8	1763.2	1764.7	1766.1	1768.9	1770.4	1771.8	1770.4	1770.4
32.5°	1743.3	1744.7	1746.1	1747.5	1750.4	1753.2	1756.1	1757.5	1758.9	1757.5	1757.5
35°	1730.4	1730.4	1733.3	1736.1	1739.0	1743.3	1746.1	1749.0	1751.8	1750.4	1749.0
37.5°	1717.6	1717.6	1720.5	1724.7	1730.4	1736.1	1741.8	1746.1	1747.5	1747.5	1746.1
40°	1701.9	1703.4	1706.2	1713.3	1721.9	1729.0	1736.1	1741.8	1744.7	1744.7	1741.8
42.5°	1684.8	1686.3	1690.5	1697.7	1707.6	1716.2	1724.7	1729.0	1733.3	1733.3	1730.4
45°	1660.6	1662.0	1667.7	1674.9	1684.8	1693.4	1703.4	1707.6	1713.3	1711.9	1710.5
47.5°	1629.2	1630.7	1636.4	1643.5	1653.5	1663.4	1673.4	1680.6	1684.8	1684.8	1683.4
50°	1590.8	1592.2	1597.9	1605.0	1617.8	1629.2	1639.2	1646.3	1653.5	1653.5	1652.0
52.5°	1542.3	1545.1	1549.4	1559.4	1573.6	1586.5	1599.3	1610.7	1615.0	1616.4	1615.0
55°	1482.4	1485.3	1491.0	1502.4	1518.1	1533.7	1548.0	1560.8	1566.5	1570.8	1567.9
57.5°	1412.6	1415.4	1422.6	1435.4	1452.5	1468.2	1486.7	1501.0	1505.2	1509.5	1508.1
60°	1329.9	1334.2	1341.3	1355.6	1372.7	1389.8	1406.9	1424.0	1428.3	1434.0	1431.1
62.5°	1233.0	1237.3	1244.4	1260.1	1278.6	1294.3	1314.2	1329.9	1334.2	1339.9	1338.5
65°	1121.8	1126.1	1133.2	1150.3	1167.4	1184.5	1203.0	1220.1	1224.4	1230.1	1228.7
67.5°	994.9	999.2	1006.3	1026.3	1043.4	1060.5	1076.2	1093.3	1096.1	1101.8	1100.4
70°	860.9	866.6	872.3	890.9	906.6	920.8	937.9	952.2	957.9	960.7	957.9
72.5°	727.0	731.2	736.9	749.8	761.2	774.0	791.1	801.1	805.4	806.8	806.8
75°	588.7	593.0	593.0	607.2	615.8	622.9	637.2	644.3	647.1	650.0	650.0
77.5°	457.6	454.7	457.6	463.3	469.0	474.7	483.2	487.5	490.3	496.0	493.2
80°	320.7	322.1	323.6	327.8	330.7	332.1	337.8	339.2	340.7	346.4	343.5
82.5°	206.7	203.8	206.7	205.3	208.1	203.8	206.7	211.0	208.1	211.0	212.4
85°	108.3	104.1	104.1	105.5	106.9	104.1	105.5	104.1	104.1	106.9	105.5
87.5°	34.2	32.8	34.2	32.8	34.2	32.8	34.2	35.6	34.2	34.2	35.6
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: P197548

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3
2.5°	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3
5°	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3	1847.3
7.5°	1845.9	1845.9	1845.9	1845.9	1845.9	1845.9	1844.5	1845.9
10°	1843.0	1843.0	1843.0	1843.0	1841.6	1841.6	1841.6	1841.6
12.5°	1840.2	1840.2	1838.8	1838.8	1838.8	1838.8	1837.3	1837.3
15°	1837.3	1835.9	1835.9	1834.5	1834.5	1834.5	1833.1	1834.5
17.5°	1833.1	1831.6	1831.6	1830.2	1830.2	1828.8	1828.8	1828.8
20°	1823.1	1821.7	1821.7	1820.2	1820.2	1818.8	1817.4	1817.4
22.5°	1808.8	1808.8	1808.8	1807.4	1806.0	1806.0	1804.6	1804.6
25°	1796.0	1794.6	1794.6	1793.2	1791.7	1791.7	1790.3	1790.3
27.5°	1783.2	1781.8	1780.3	1777.5	1777.5	1776.1	1774.6	1773.2
30°	1768.9	1766.1	1763.2	1761.8	1760.4	1757.5	1756.1	1754.7
32.5°	1754.7	1751.8	1749.0	1746.1	1741.8	1740.4	1737.6	1737.6
35°	1746.1	1741.8	1737.6	1731.9	1727.6	1723.3	1720.5	1719.0
37.5°	1741.8	1736.1	1729.0	1721.9	1714.8	1709.1	1704.8	1704.8
40°	1736.1	1729.0	1720.5	1710.5	1701.9	1694.8	1690.5	1689.1
42.5°	1724.7	1717.6	1706.2	1697.7	1686.3	1679.1	1673.4	1672.0
45°	1704.8	1697.7	1687.7	1676.3	1664.9	1656.3	1650.6	1649.2
47.5°	1679.1	1670.6	1659.2	1647.8	1636.4	1626.4	1620.7	1619.3
50°	1646.3	1637.8	1626.4	1615.0	1602.2	1592.2	1585.0	1585.0
52.5°	1609.3	1599.3	1586.5	1573.6	1559.4	1549.4	1542.3	1540.9
55°	1560.8	1549.4	1536.6	1522.3	1506.7	1495.2	1486.7	1485.3
57.5°	1501.0	1488.1	1473.9	1458.2	1442.5	1429.7	1419.7	1418.3
60°	1425.4	1411.2	1396.9	1381.2	1364.1	1349.9	1339.9	1337.0
62.5°	1332.8	1317.1	1301.4	1287.1	1268.6	1254.4	1244.4	1241.5
65°	1223.0	1210.2	1194.5	1177.4	1157.4	1143.2	1133.2	1131.8
67.5°	1094.7	1081.9	1066.2	1050.5	1030.6	1017.7	1007.8	1004.9
70°	953.6	942.2	929.4	913.7	896.6	883.8	873.8	872.3
72.5°	803.9	794.0	782.5	771.1	754.0	744.1	735.5	734.1
75°	650.0	640.0	631.5	622.9	610.1	602.9	594.4	594.4
77.5°	493.2	490.3	484.6	474.7	467.5	461.8	457.6	454.7
80°	344.9	342.1	339.2	333.5	329.3	327.8	325.0	322.1
82.5°	211.0	209.5	211.0	208.1	206.7	206.7	205.3	202.4
85°	106.9	108.3	106.9	105.5	105.5	105.5	105.5	104.1
87.5°	34.2	35.6	34.2	32.8	32.8	32.8	32.8	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)