

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: P197676

Luminaire Tested: **TT-C6-LED-E1-MQ-CG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197676
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-C6-LED-E1-MQ-CG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9566.6 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 108
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

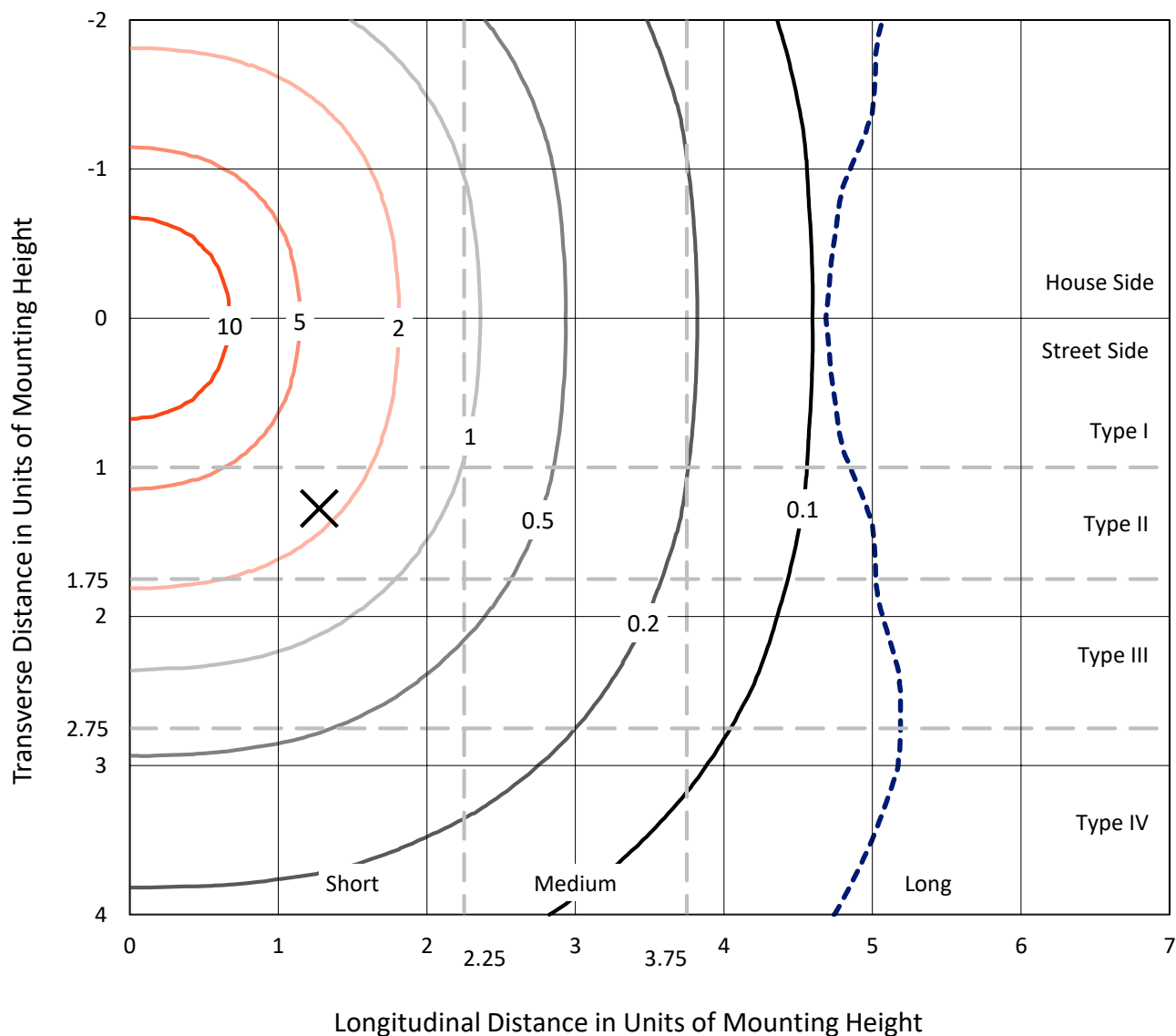


REPORT NUMBER: P197676

CATALOG NUMBER: TT-C6-LED-E1-MQ-CG-LWR-LW-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

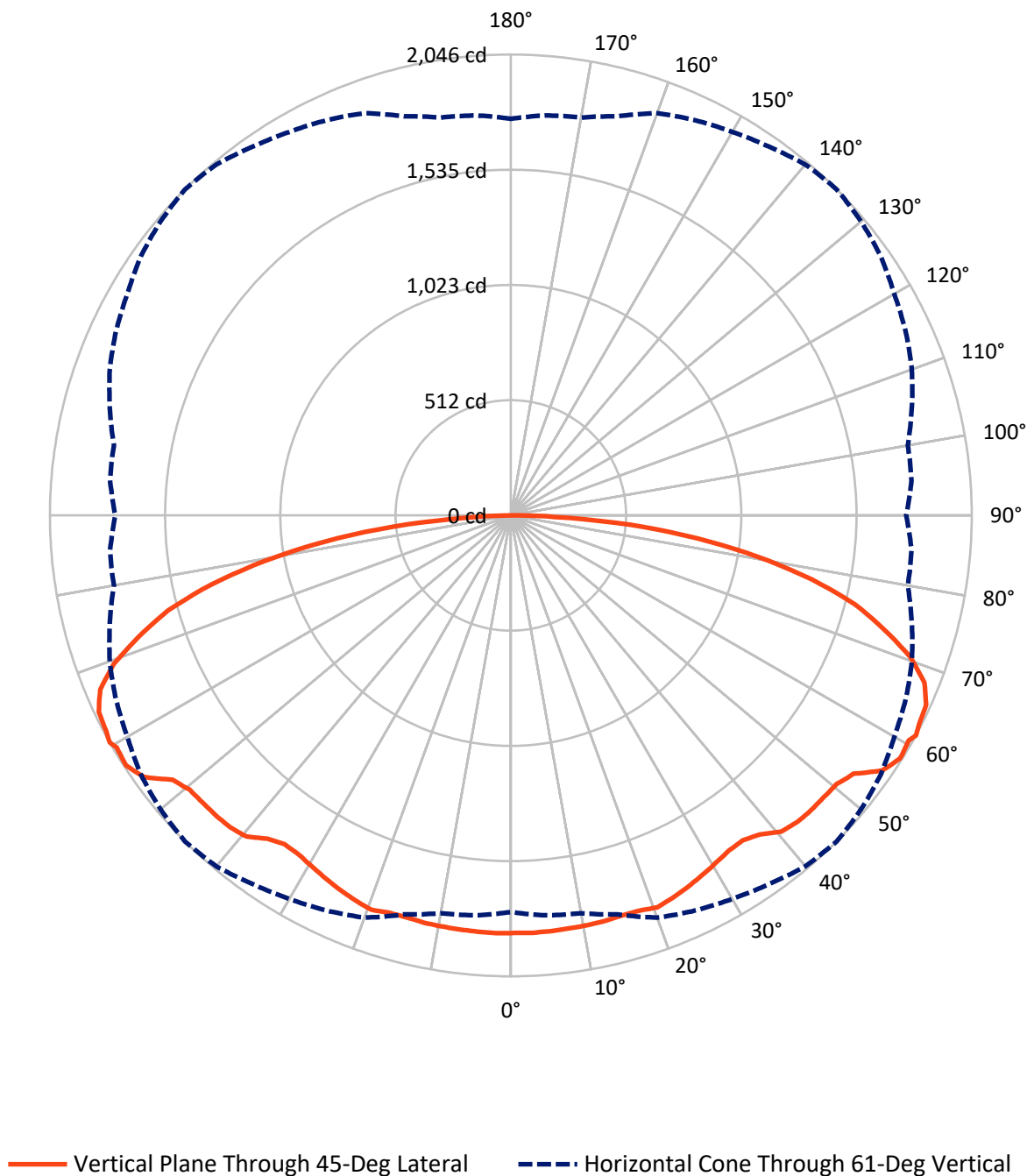


Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197676

CATALOG NUMBER: TT-C6-LED-E1-MQ-CG-LWR-LW-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197676

CATALOG NUMBER: TT-C6-LED-E1-MQ-CG-LWR-LW-7060

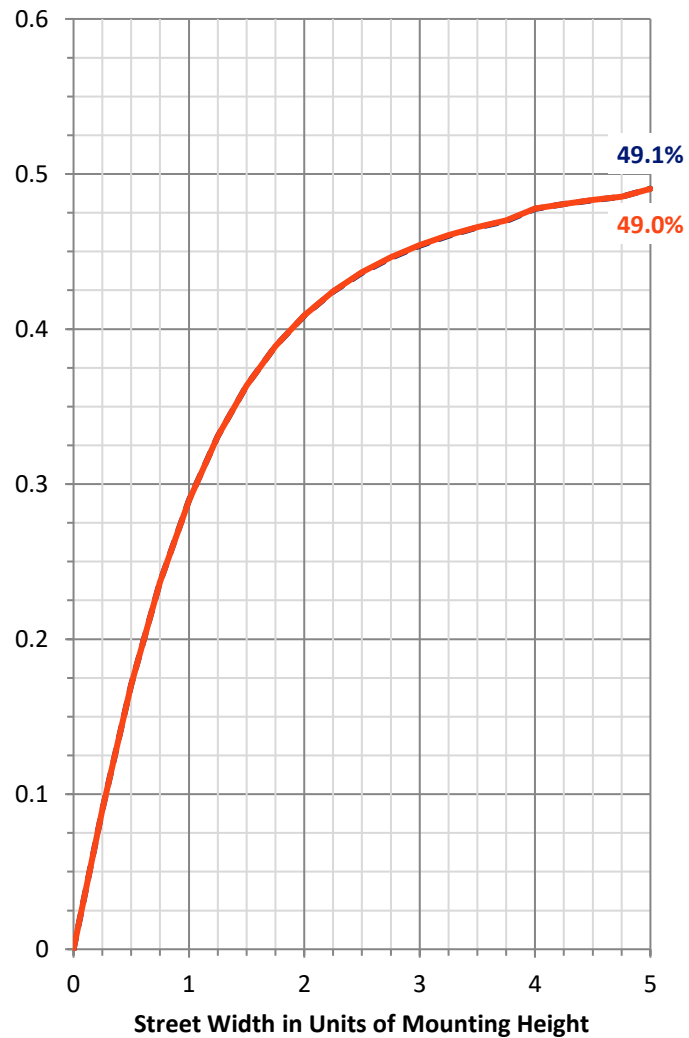
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4783.3	0.0	4783.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4783.3	0.0	4783.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	9566.6	0.0	9566.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	1.8
10°-20°	522.8	5.5
20°-30°	841.1	8.8
30°-40°	1114.2	11.6
40°-50°	1407.1	14.7
50°-60°	1686.0	17.6
60°-70°	1843.5	19.3
70°-80°	1475.8	15.4
80°-90°	499.3	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°	9566.6	100.0
0°-180°	9566.6	100.0

Coefficient of Utilization



REPORT NUMBER: P197676

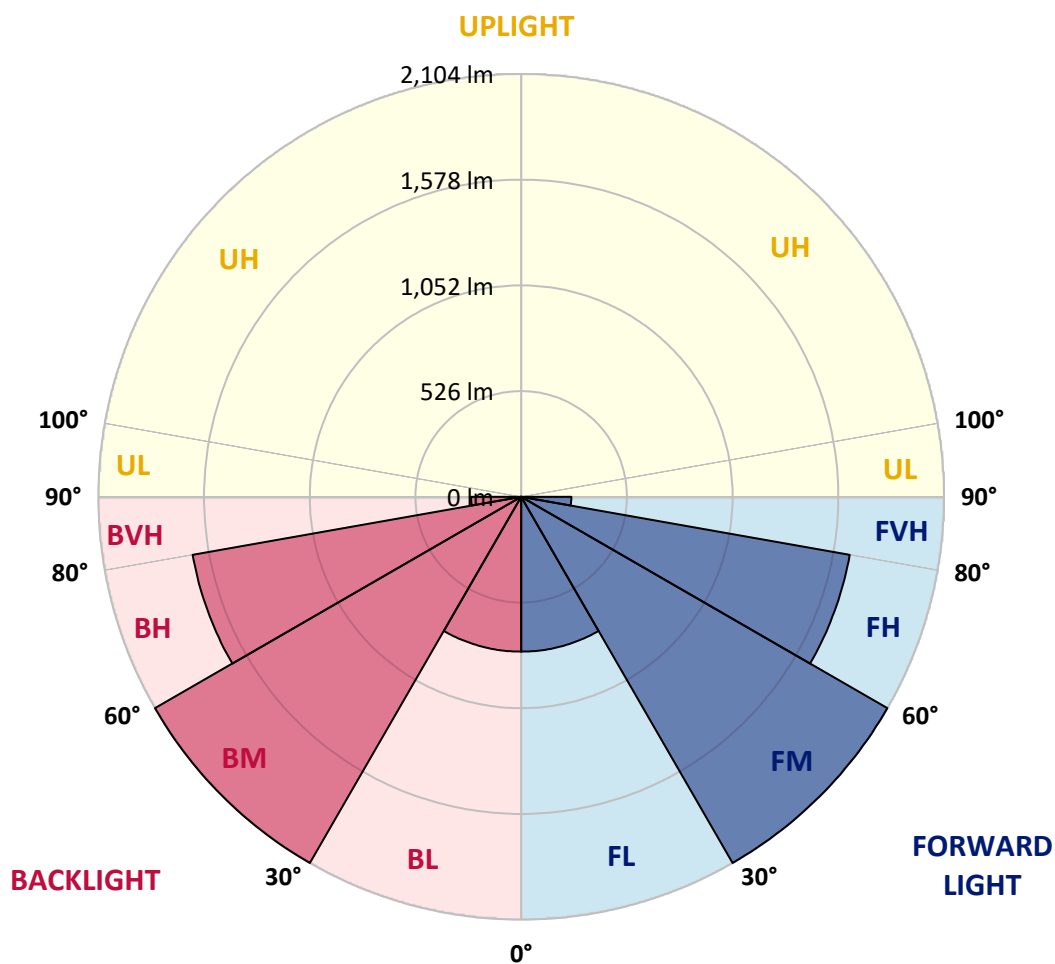
CATALOG NUMBER: TT-C6-LED-E1-MQ-CG-LWR-LW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.4	8.1			
FM	(30°-60°)	2103.7	22.0			
FH	(60°-80°)	1659.6	17.3			G1/1800
FVH	(80°-90°)	249.6	2.6			G3/500
BL	(0°-30°)	770.4	8.1	B2/1000		
BM	(30°-60°)	2103.7	22.0	B2/2500		
BH	(60°-80°)	1659.6	17.3	B3/2500		G1/1800
BVH	(80°-90°)	249.6	2.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



REPORT NUMBER: P197676

CATALOG NUMBER: TT-C6-LED-E1-MQ-CG-LWR-LW-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6
2.5°	1855.1	1853.6	1855.1	1855.1	1855.1	1855.1	1855.1	1855.1	1855.1	1855.1	1855.1
5°	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6
7.5°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1853.6	1851.8	1853.6
10°	1848.2	1848.2	1848.2	1848.2	1850.0	1850.0	1850.0	1850.0	1850.0	1850.0	1850.0
12.5°	1844.6	1844.6	1844.6	1844.6	1846.4	1846.4	1846.4	1846.4	1848.2	1848.2	1846.4
15°	1841.0	1839.2	1839.2	1841.0	1841.0	1842.8	1842.8	1842.8	1844.6	1842.8	1842.8
17.5°	1837.4	1835.6	1837.4	1839.2	1839.2	1841.0	1842.8	1842.8	1844.6	1844.6	1844.6
20°	1842.8	1841.0	1842.8	1844.6	1846.4	1850.0	1851.8	1853.6	1855.1	1856.9	1856.9
22.5°	1832.0	1830.2	1832.0	1832.0	1833.8	1835.6	1839.2	1841.0	1842.8	1842.8	1842.8
25°	1816.0	1816.0	1817.8	1817.8	1819.6	1821.4	1823.2	1825.0	1825.0	1826.8	1825.0
27.5°	1798.3	1798.3	1800.1	1800.1	1803.7	1803.7	1805.5	1807.0	1808.8	1808.8	1808.8
30°	1776.9	1776.9	1778.7	1780.5	1783.9	1785.7	1787.5	1789.3	1791.1	1791.1	1791.1
32.5°	1757.3	1755.5	1757.3	1760.7	1766.1	1769.7	1773.3	1775.1	1775.1	1775.1	1776.9
35°	1741.2	1743.0	1746.5	1750.1	1757.3	1760.7	1764.3	1769.7	1771.5	1771.5	1771.5
37.5°	1744.8	1746.5	1751.9	1758.9	1767.9	1778.7	1785.7	1792.9	1798.3	1796.5	1794.7
40°	1767.9	1771.5	1780.5	1791.1	1805.5	1819.6	1830.2	1839.2	1844.6	1846.4	1844.6
42.5°	1771.5	1775.1	1782.1	1798.3	1814.2	1830.2	1844.6	1853.6	1860.5	1862.3	1860.5
45°	1769.7	1769.7	1780.5	1798.3	1814.2	1830.2	1848.2	1860.5	1867.7	1867.7	1867.7
47.5°	1757.3	1762.5	1769.7	1787.5	1808.8	1825.0	1842.8	1855.1	1864.1	1869.5	1864.1
50°	1757.3	1757.3	1769.7	1782.1	1801.9	1830.2	1855.1	1867.7	1876.7	1874.9	1876.7
52.5°	1753.7	1764.3	1771.5	1789.3	1825.0	1853.6	1873.1	1890.9	1903.3	1905.1	1901.7
55°	1785.7	1787.5	1803.7	1837.4	1871.3	1903.3	1939.0	1965.8	1987.1	1999.7	1981.7
57.5°	1810.6	1801.9	1833.8	1862.3	1901.7	1949.8	2003.1	2024.4	2040.6	2037.0	2042.4
60°	1776.9	1789.3	1812.4	1842.8	1905.1	1953.2	1981.7	2004.9	2024.4	2029.8	2022.9
61°	1760.7	1782.1	1792.9	1833.8	1899.9	1935.4	1965.8	1997.9	2033.4	2046.0	2029.8
62.5°	1734.0	1767.9	1764.3	1830.2	1871.3	1912.3	1969.4	2006.7	2031.6	2035.2	2031.6
65°	1735.8	1730.6	1771.5	1819.6	1860.5	1933.6	1981.7	2004.9	2019.3	2026.2	2022.9
67.5°	1678.9	1660.9	1710.8	1744.8	1814.2	1871.3	1917.7	1951.4	1973.0	1979.9	1971.2
70°	1546.9	1559.5	1595.0	1646.7	1703.8	1773.3	1816.0	1860.5	1878.5	1880.1	1880.1
72.5°	1420.3	1427.5	1463.3	1511.4	1577.2	1637.7	1680.7	1716.2	1732.4	1734.0	1737.6
75°	1252.8	1260.0	1300.9	1345.4	1411.5	1463.3	1493.4	1536.3	1559.5	1579.0	1563.1
77.5°	1058.5	1071.1	1103.1	1151.4	1211.9	1240.4	1293.9	1343.9	1359.8	1365.2	1359.8
80°	839.3	855.5	884.1	948.1	974.9	1021.2	1072.9	1094.3	1108.5	1112.1	1113.9
82.5°	604.1	616.7	646.9	691.4	721.7	759.3	794.8	821.6	837.5	834.2	832.4
85°	356.4	360.0	392.1	422.5	445.6	468.8	497.1	516.9	520.5	527.5	525.7
87.5°	107.0	108.8	123.0	139.0	149.7	160.3	178.3	201.5	206.6	192.5	194.3
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: P197676

CATALOG NUMBER: TT-C6-LED-E1-MQ-CG-LWR-LW-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6
2.5°	1855.1	1855.1	1855.1	1855.1	1855.1	1855.1	1853.6	1855.1
5°	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6	1853.6
7.5°	1853.6	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
10°	1850.0	1850.0	1850.0	1850.0	1848.2	1848.2	1848.2	1848.2
12.5°	1846.4	1846.4	1846.4	1846.4	1844.6	1844.6	1844.6	1844.6
15°	1842.8	1842.8	1842.8	1842.8	1841.0	1841.0	1841.0	1841.0
17.5°	1844.6	1842.8	1841.0	1841.0	1839.2	1837.4	1837.4	1837.4
20°	1855.1	1853.6	1850.0	1846.4	1844.6	1842.8	1842.8	1842.8
22.5°	1841.0	1839.2	1835.6	1833.8	1833.8	1832.0	1830.2	1830.2
25°	1825.0	1821.4	1821.4	1819.6	1819.6	1816.0	1816.0	1814.2
27.5°	1807.0	1805.5	1803.7	1801.9	1801.9	1800.1	1798.3	1796.5
30°	1791.1	1787.5	1783.9	1782.1	1780.5	1778.7	1778.7	1778.7
32.5°	1775.1	1771.5	1769.7	1764.3	1760.7	1758.9	1757.3	1757.3
35°	1769.7	1764.3	1760.7	1755.5	1750.1	1746.5	1744.8	1741.2
37.5°	1791.1	1783.9	1778.7	1769.7	1757.3	1751.9	1746.5	1744.8
40°	1837.4	1830.2	1819.6	1805.5	1791.1	1780.5	1771.5	1767.9
42.5°	1853.6	1844.6	1830.2	1816.0	1798.3	1782.1	1775.1	1771.5
45°	1858.7	1850.0	1830.2	1812.4	1796.5	1782.1	1771.5	1767.9
47.5°	1853.6	1841.0	1823.2	1808.8	1785.7	1767.9	1760.7	1755.5
50°	1865.9	1855.1	1832.0	1800.1	1780.5	1769.7	1757.3	1755.5
52.5°	1890.9	1871.3	1850.0	1826.8	1789.3	1767.9	1760.7	1751.9
55°	1965.8	1939.0	1901.7	1864.1	1841.0	1807.0	1785.7	1785.7
57.5°	2022.9	2001.3	1953.2	1903.3	1860.5	1835.6	1803.7	1805.5
60°	2006.7	1978.1	1955.0	1905.1	1844.6	1810.6	1798.3	1775.1
61°	2004.9	1965.8	1933.6	1894.5	1842.8	1789.3	1785.7	1755.5
62.5°	2008.5	1973.0	1912.3	1871.3	1832.0	1762.5	1760.7	1732.4
65°	2004.9	1971.2	1940.8	1864.1	1810.6	1782.1	1721.6	1744.8
67.5°	1949.8	1919.5	1864.1	1821.4	1739.4	1703.8	1669.9	1669.9
70°	1862.3	1817.8	1764.3	1710.8	1655.7	1595.0	1564.7	1546.9
72.5°	1716.2	1678.9	1636.2	1579.0	1511.4	1456.1	1427.5	1415.1
75°	1532.7	1491.6	1454.3	1411.5	1340.3	1293.9	1263.6	1254.6
77.5°	1340.3	1304.5	1238.6	1197.7	1149.6	1096.1	1069.3	1058.5
80°	1094.3	1074.7	1028.4	962.3	939.2	873.3	855.5	839.3
82.5°	821.6	800.2	757.5	711.2	682.6	645.1	613.1	609.5
85°	516.9	502.5	475.8	442.0	406.3	384.9	356.4	363.6
87.5°	192.5	183.5	167.5	146.1	130.2	115.8	101.6	107.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)