

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: P197886

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-SG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7773.3 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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

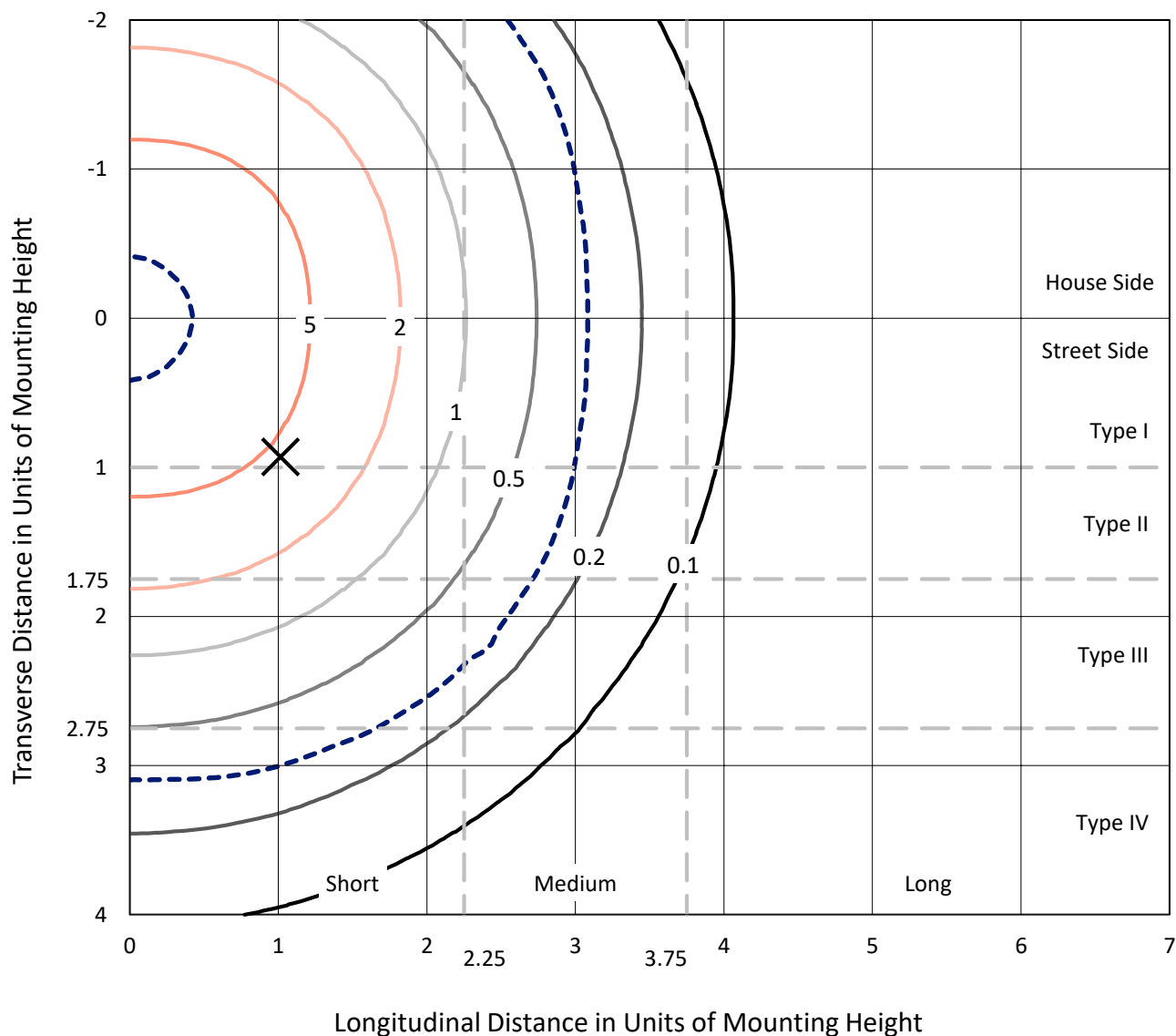


REPORT NUMBER: P197886

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-LWR-LW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

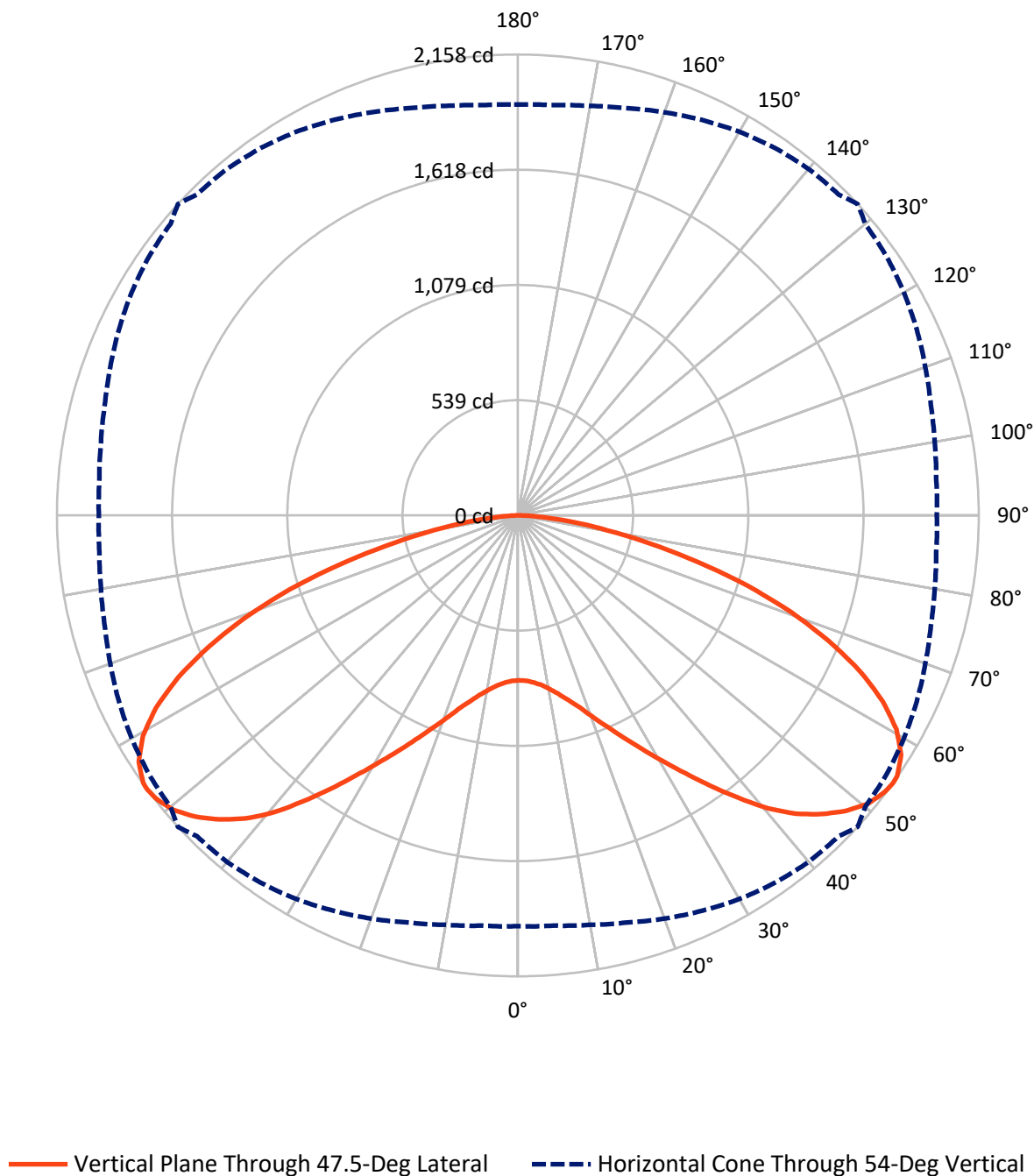


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P197886

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-LWR-LW

Luminous Intensity Polar Plot



REPORT NUMBER: P197886

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-LWR-LW

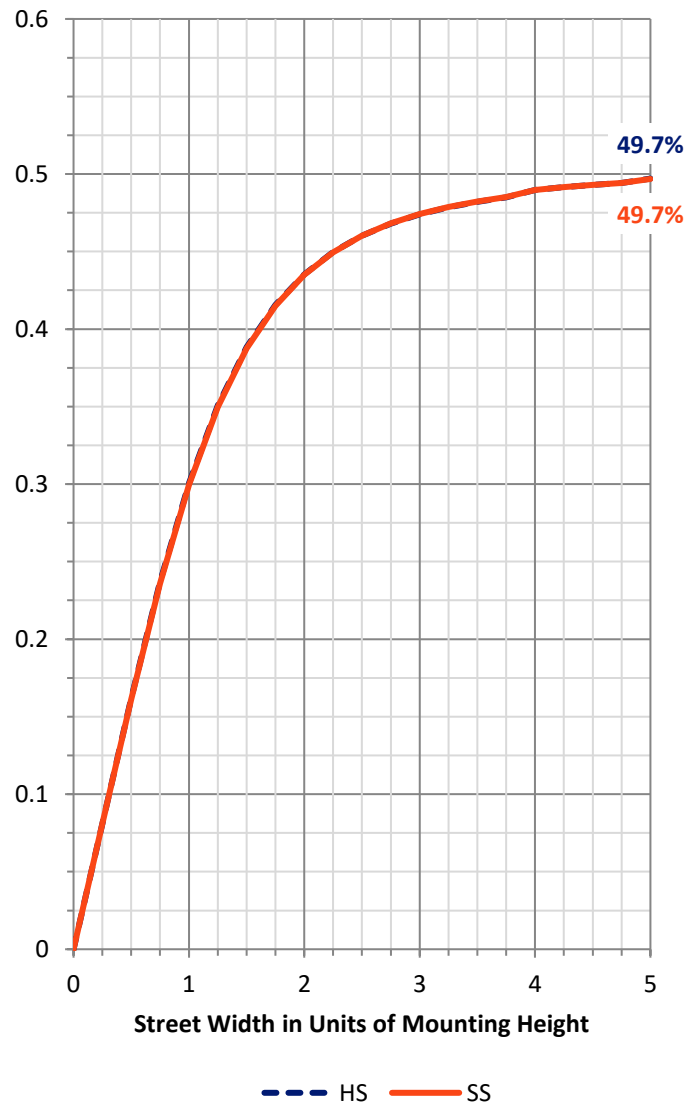
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3886.7	0.0	3886.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3886.7	0.0	3886.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7773.3	0.0	7773.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	1.0
10°-20°	258.3	3.3
20°-30°	531.9	6.8
30°-40°	951.1	12.2
40°-50°	1459.3	18.8
50°-60°	1799.2	23.1
60°-70°	1627.7	20.9
70°-80°	896.2	11.5
80°-90°	173.4	2.2
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°	7773.3	100.0
0°-180°	7773.3	100.0

Coefficient of Utilization



REPORT NUMBER: P197886

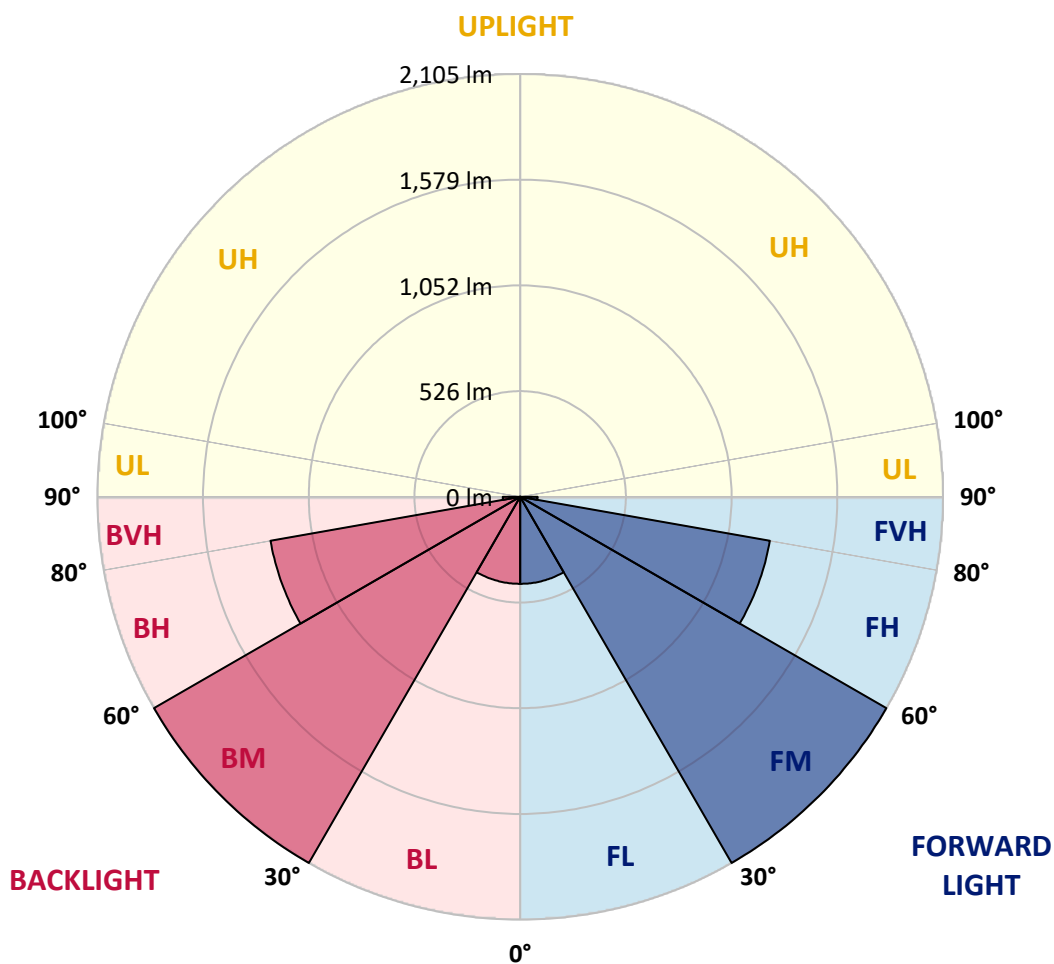
CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.2	5.6			
FM	(30°-60°)	2104.8	27.1			
FH	(60°-80°)	1262.0	16.2			G1/1800
FVH	(80°-90°)	86.7	1.1			G1/100
BL	(0°-30°)	433.2	5.6	B1/500		
BM	(30°-60°)	2104.8	27.1	B2/2500		
BH	(60°-80°)	1262.0	16.2	B3/2500		G1/1800
BVH	(80°-90°)	86.7	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



REPORT NUMBER: P197886

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-LWR-LW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2
5°	785.3	785.3	785.3	786.9	785.3	785.3	785.3	785.3	785.3	785.3	785.3
7.5°	802.0	802.0	802.0	802.0	802.0	802.0	800.4	800.4	802.0	800.4	802.0
10°	825.5	823.9	823.9	825.5	825.5	823.9	825.5	825.5	825.5	825.5	827.2
12.5°	855.7	855.7	857.4	857.4	857.4	859.1	859.1	857.4	859.1	859.1	859.1
15°	896.0	896.0	896.0	896.0	897.7	899.4	897.7	897.7	896.0	896.0	899.4
17.5°	943.0	943.0	943.0	943.0	946.3	946.3	944.7	946.3	948.0	948.0	946.3
20°	1000.0	998.4	996.7	998.4	1001.7	1001.7	1003.4	1005.1	1005.1	1005.1	1008.4
22.5°	1060.4	1058.8	1062.1	1063.8	1065.5	1067.2	1067.2	1068.8	1072.2	1070.5	1075.5
25°	1127.6	1125.9	1127.6	1130.9	1137.6	1137.6	1139.3	1142.7	1142.7	1141.0	1152.7
27.5°	1203.1	1203.1	1204.7	1211.5	1213.1	1214.8	1219.8	1223.2	1228.2	1228.2	1238.3
30°	1285.3	1283.6	1287.0	1293.7	1298.7	1303.7	1310.5	1318.8	1320.5	1322.2	1332.3
32.5°	1369.2	1369.2	1372.5	1384.3	1392.7	1401.1	1411.1	1419.5	1422.9	1422.9	1438.0
35°	1458.1	1459.8	1468.2	1476.6	1493.3	1503.4	1513.5	1525.2	1531.9	1535.3	1555.4
37.5°	1552.1	1557.1	1563.8	1575.6	1592.3	1609.1	1624.2	1642.7	1652.8	1656.1	1677.9
40°	1641.0	1647.7	1657.8	1674.6	1691.3	1714.8	1733.3	1751.7	1763.5	1770.2	1803.8
42.5°	1728.3	1731.6	1743.4	1761.8	1783.6	1805.4	1830.6	1850.7	1862.5	1872.6	1909.5
45°	1797.1	1800.4	1815.5	1837.3	1862.5	1889.3	1914.5	1938.0	1949.7	1958.1	1995.0
47.5°	1854.1	1860.8	1877.6	1899.4	1924.6	1956.5	1985.0	2008.5	2023.6	2028.6	2067.2
50°	1896.1	1906.1	1921.2	1946.4	1976.6	2008.5	2038.7	2063.8	2080.6	2087.3	2122.6
52.5°	1919.5	1927.9	1944.7	1969.9	2005.1	2037.0	2068.9	2094.0	2112.5	2119.2	2151.1
54°	1922.9	1927.9	1946.4	1973.2	2008.5	2042.0	2073.9	2099.1	2117.5	2124.2	2157.8
55°	1919.5	1922.9	1943.0	1968.2	2005.1	2038.7	2070.6	2095.7	2115.9	2122.6	2154.5
57.5°	1886.0	1891.0	1907.8	1934.6	1968.2	2006.8	2037.0	2062.2	2082.3	2085.7	2115.9
60°	1817.2	1823.9	1839.0	1867.5	1901.1	1934.6	1964.8	1986.7	2005.1	2015.2	2037.0
62.5°	1718.2	1721.5	1736.6	1761.8	1792.0	1827.3	1850.7	1872.6	1889.3	1899.4	1917.9
65°	1577.2	1592.3	1604.1	1624.2	1647.7	1676.2	1706.4	1723.2	1731.6	1748.4	1761.8
67.5°	1419.5	1429.6	1441.3	1459.8	1474.9	1493.3	1521.9	1537.0	1547.0	1558.8	1570.5
70°	1243.3	1240.0	1253.4	1263.5	1280.3	1292.0	1310.5	1318.8	1330.6	1337.3	1357.4
72.5°	1033.6	1038.6	1050.4	1062.1	1067.2	1070.5	1085.6	1090.6	1100.7	1097.4	1122.5
75°	844.0	835.6	839.0	840.6	844.0	840.6	850.7	855.7	860.8	855.7	869.2
77.5°	637.6	627.5	630.9	629.2	629.2	625.9	624.2	624.2	625.9	622.5	630.9
80°	439.6	434.6	436.3	439.6	431.2	432.9	422.8	422.8	422.8	422.8	426.2
82.5°	271.8	265.1	263.4	265.1	265.1	260.1	261.8	255.0	253.4	251.7	266.8
85°	132.6	129.2	132.6	129.2	127.5	127.5	124.2	125.8	122.5	120.8	130.9
87.5°	35.2	33.6	33.6	33.6	31.9	33.6	33.6	33.6	33.6	35.2	40.3
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: P197886

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-LWR-LW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	773.5
5°	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3
7.5°	802.0	802.0	800.4	800.4	800.4	800.4	800.4	800.4	800.4
10°	825.5	827.2	823.9	823.9	825.5	823.9	823.9	822.2	822.2
12.5°	859.1	857.4	859.1	859.1	857.4	855.7	854.1	852.4	854.1
15°	897.7	896.0	896.0	896.0	894.3	894.3	892.7	894.3	892.7
17.5°	944.7	944.7	946.3	941.3	943.0	939.6	939.6	939.6	938.0
20°	1005.1	1003.4	1001.7	996.7	998.4	995.0	993.3	991.7	990.0
22.5°	1070.5	1067.2	1065.5	1060.4	1062.1	1058.8	1053.7	1050.4	1050.4
25°	1142.7	1139.3	1136.0	1134.3	1132.6	1125.9	1122.5	1117.5	1120.9
27.5°	1228.2	1221.5	1216.5	1209.8	1211.5	1203.1	1199.7	1196.4	1196.4
30°	1320.5	1315.5	1307.1	1302.1	1300.4	1292.0	1285.3	1281.9	1280.3
32.5°	1421.2	1417.8	1412.8	1404.4	1401.1	1387.6	1382.6	1377.6	1375.9
35°	1540.3	1531.9	1526.9	1515.2	1503.4	1495.0	1483.3	1479.9	1476.6
37.5°	1651.1	1651.1	1642.7	1629.3	1612.5	1600.7	1590.7	1584.0	1578.9
40°	1768.5	1765.2	1751.7	1740.0	1723.2	1706.4	1688.0	1681.3	1677.9
42.5°	1872.6	1865.8	1852.4	1837.3	1820.5	1800.4	1780.3	1770.2	1768.5
45°	1959.8	1951.4	1938.0	1917.9	1896.1	1875.9	1857.5	1847.4	1842.4
47.5°	2030.3	2020.2	2003.4	1985.0	1959.8	1936.3	1917.9	1907.8	1901.1
50°	2082.3	2073.9	2055.5	2032.0	2006.8	1979.9	1961.5	1949.7	1944.7
52.5°	2115.9	2104.1	2084.0	2058.8	2030.3	2003.4	1981.6	1968.2	1963.2
54°	2122.6	2109.1	2087.3	2060.5	2030.3	2001.8	1981.6	1966.5	1961.5
55°	2119.2	2105.8	2082.3	2057.1	2025.3	1996.7	1974.9	1959.8	1954.8
57.5°	2084.0	2068.9	2047.1	2020.2	1986.7	1958.1	1938.0	1921.2	1916.2
60°	2008.5	1995.0	1969.9	1946.4	1912.8	1884.3	1862.5	1845.7	1840.7
62.5°	1892.7	1880.9	1859.1	1835.6	1800.4	1775.2	1753.4	1743.4	1729.9
65°	1738.3	1729.9	1708.1	1679.6	1654.4	1629.3	1607.4	1600.7	1592.3
67.5°	1553.8	1542.0	1533.6	1505.1	1485.0	1461.5	1439.7	1426.2	1422.9
70°	1335.6	1330.6	1322.2	1295.4	1283.6	1263.5	1248.4	1236.6	1233.3
72.5°	1100.7	1095.7	1094.0	1080.6	1065.5	1047.0	1040.3	1030.2	1028.6
75°	855.7	852.4	855.7	845.7	840.6	835.6	832.2	832.2	827.2
77.5°	619.2	624.2	625.9	625.9	629.2	629.2	632.6	627.5	622.5
80°	421.2	426.2	424.5	427.9	426.2	437.9	429.5	436.3	429.5
82.5°	253.4	260.1	260.1	260.1	266.8	265.1	265.1	268.5	266.8
85°	124.2	125.8	124.2	122.5	130.9	129.2	129.2	127.5	129.2
87.5°	36.9	33.6	35.2	31.9	35.2	30.2	33.6	33.6	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)