

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: P197912

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-SG-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8063.5 lumens
Efficiency: N/A
Efficacy: 104.7 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

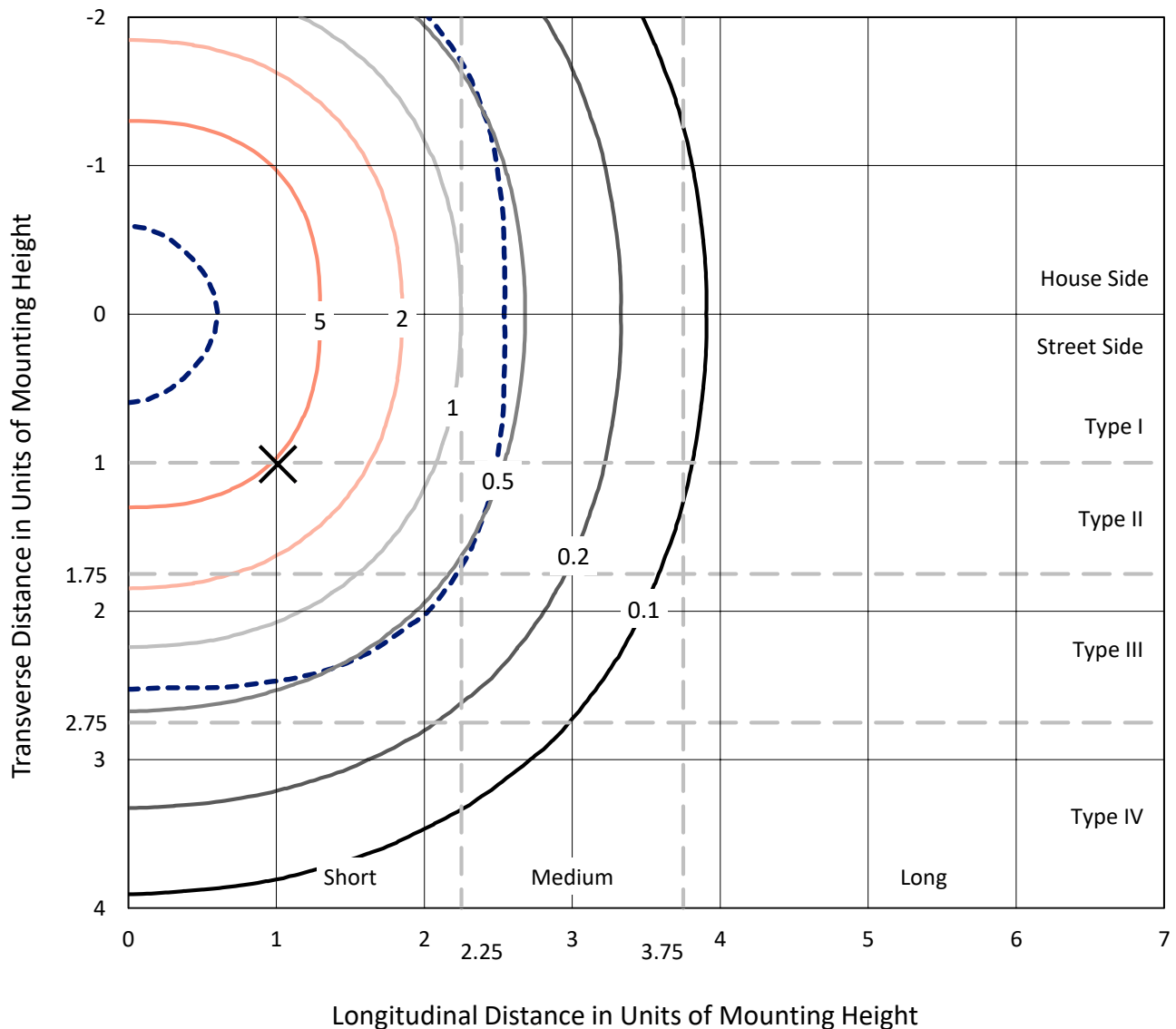


REPORT NUMBER: P197912

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-MS/DIM-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

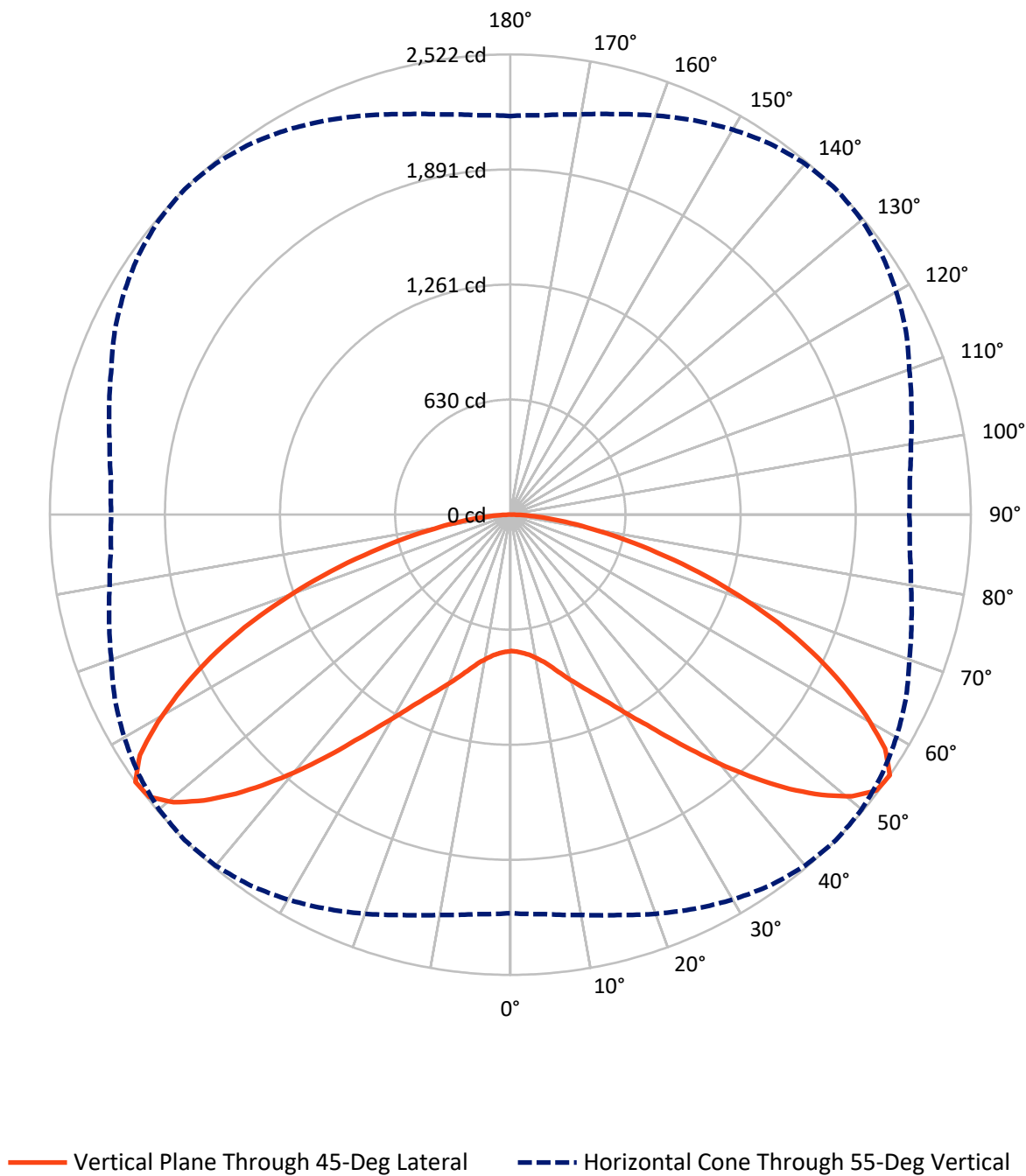


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P197912

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-MS/DIM-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197912

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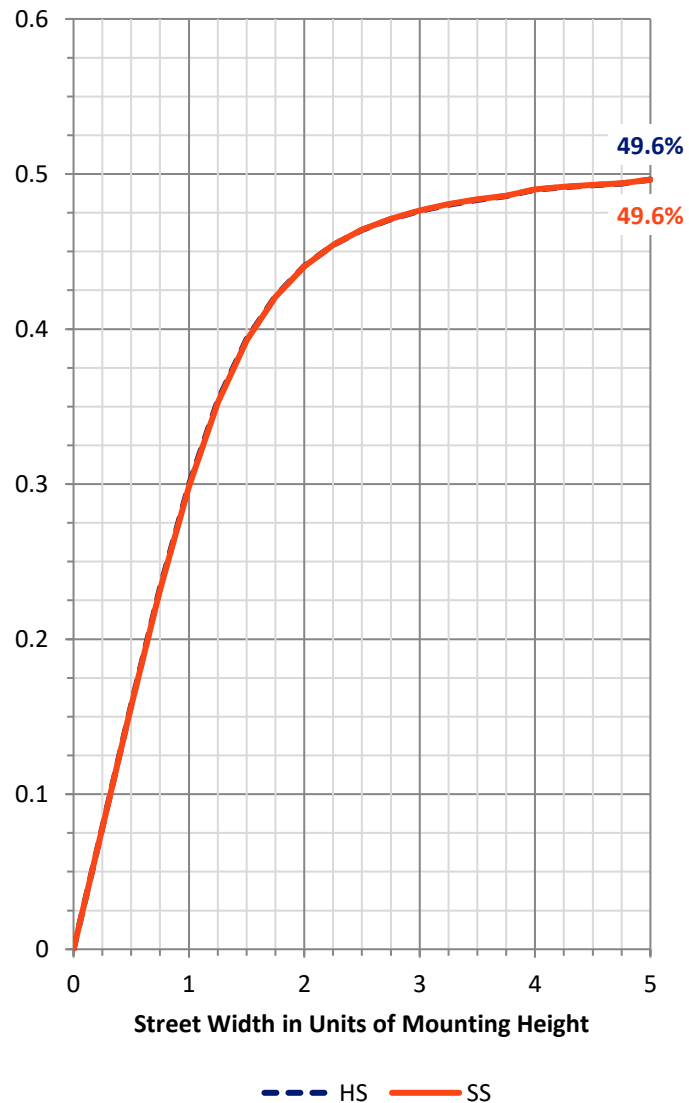
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4031.7	0.0	4031.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4031.7	0.0	4031.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8063.5	0.0	8063.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	0.9
10°-20°	250.3	3.1
20°-30°	509.7	6.3
30°-40°	930.8	11.5
40°-50°	1580.5	19.6
50°-60°	2058.4	25.5
60°-70°	1664.7	20.6
70°-80°	818.1	10.1
80°-90°	177.1	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°	8063.5	100.0
0°-180°	8063.5	100.0

Coefficient of Utilization



REPORT NUMBER: P197912

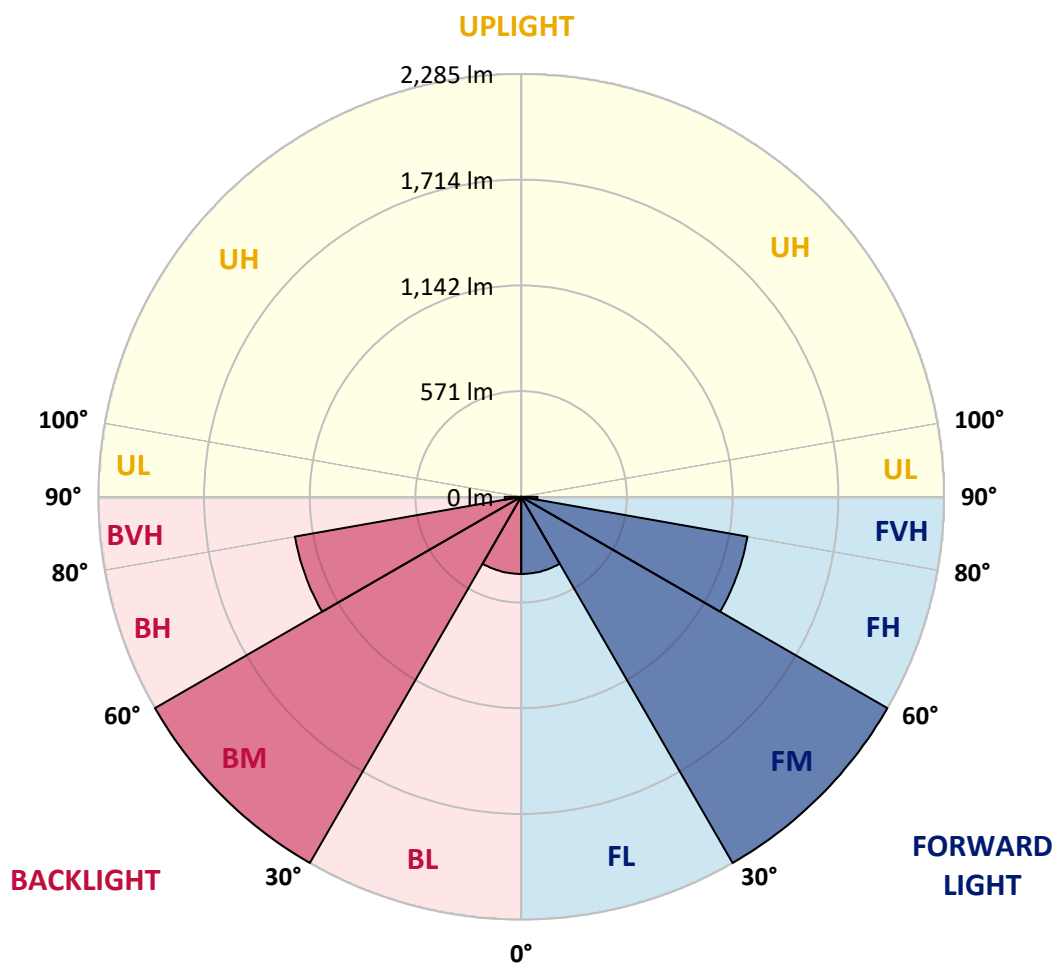
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.9	5.2			
FM	(30°-60°)	2284.9	28.3			
FH	(60°-80°)	1241.4	15.4			G1/1800
FVH	(80°-90°)	88.5	1.1			G1/100
BL	(0°-30°)	416.9	5.2	B1/500		
BM	(30°-60°)	2284.9	28.3	B2/2500		
BH	(60°-80°)	1241.4	15.4	B3/2500		G1/1800
BVH	(80°-90°)	88.5	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: P197912

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-MS/DIM-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	750.4	750.4	750.4	750.4	750.4	750.4	752.1	752.1	752.1	752.1	752.1
5°	760.3	760.3	760.3	762.0	762.0	762.0	762.0	762.0	762.0	762.0	762.0
7.5°	775.2	773.5	775.2	775.2	775.2	776.9	776.9	775.2	776.9	776.9	776.9
10°	796.6	794.9	796.6	796.6	796.6	798.3	798.3	798.3	798.3	800.0	800.0
12.5°	828.0	826.3	828.0	829.7	828.0	829.7	829.7	829.7	829.7	829.7	829.7
15°	867.6	865.9	867.6	869.1	867.6	870.8	870.8	869.1	869.1	870.8	870.8
17.5°	915.4	912.2	913.7	915.4	915.4	918.7	918.7	917.1	918.7	920.3	918.7
20°	964.8	961.6	963.3	968.2	968.2	969.9	973.1	971.5	973.1	974.7	973.1
22.5°	1019.3	1017.6	1019.3	1024.2	1024.2	1025.9	1030.8	1030.8	1030.8	1032.4	1030.8
25°	1078.7	1077.0	1078.7	1083.6	1083.6	1086.9	1093.5	1093.5	1095.2	1096.9	1095.2
27.5°	1148.0	1146.3	1149.5	1154.6	1156.3	1161.2	1169.4	1171.1	1172.6	1174.3	1171.1
30°	1228.8	1225.4	1230.3	1238.6	1242.0	1248.5	1258.5	1261.7	1263.4	1268.3	1265.1
32.5°	1321.1	1317.9	1324.5	1334.2	1339.3	1349.1	1362.4	1365.6	1370.5	1373.9	1369.0
35°	1429.9	1428.4	1435.0	1449.8	1458.1	1469.5	1487.8	1492.7	1496.0	1502.6	1496.0
37.5°	1550.4	1548.7	1560.3	1576.8	1591.7	1609.7	1629.5	1637.7	1642.8	1651.1	1642.8
40°	1684.0	1682.3	1697.1	1717.0	1735.1	1758.2	1783.0	1794.5	1804.4	1812.7	1802.7
42.5°	1820.9	1820.9	1839.0	1860.4	1886.9	1914.9	1942.9	1956.1	1972.6	1977.5	1966.0
45°	1952.9	1954.4	1972.6	1998.9	2036.9	2073.2	2104.5	2121.1	2139.1	2144.2	2129.3
47.5°	2078.2	2079.9	2096.3	2131.0	2173.9	2215.0	2253.0	2276.1	2294.2	2295.8	2284.4
50°	2180.4	2187.0	2208.5	2239.8	2284.4	2327.2	2373.4	2403.1	2421.2	2426.2	2414.6
52.5°	2220.1	2231.6	2256.4	2295.8	2347.0	2391.5	2442.6	2480.6	2502.0	2510.3	2500.5
55°	2183.7	2197.0	2226.7	2271.2	2327.2	2383.2	2436.0	2480.6	2510.3	2521.9	2511.9
57.5°	2102.8	2104.5	2134.2	2178.8	2229.9	2287.6	2338.7	2380.0	2408.0	2419.7	2418.0
60°	1962.7	1962.7	1990.8	2033.7	2073.2	2132.5	2175.6	2206.8	2226.7	2239.8	2236.5
62.5°	1774.7	1774.7	1799.4	1843.9	1883.5	1934.7	1976.0	2008.9	2022.0	2036.9	2040.3
65°	1565.2	1565.2	1588.3	1632.8	1669.1	1715.3	1754.8	1786.2	1799.4	1817.6	1814.2
67.5°	1342.5	1341.0	1362.4	1400.2	1435.0	1477.8	1515.8	1545.5	1560.3	1581.7	1566.9
70°	1113.3	1113.3	1131.5	1161.2	1185.8	1228.8	1265.1	1294.8	1306.2	1324.5	1316.2
72.5°	895.6	893.9	908.8	931.9	951.6	989.6	1011.0	1044.1	1053.9	1078.7	1065.5
75°	699.3	696.1	707.5	724.1	737.2	762.0	778.6	804.9	813.1	829.7	823.1
77.5°	526.2	524.5	529.4	541.0	550.8	570.7	577.3	590.4	597.0	613.6	600.4
80°	377.7	372.8	377.7	384.3	387.7	402.5	404.0	409.1	412.3	423.9	410.6
82.5°	254.1	247.5	250.7	255.6	255.6	263.8	265.5	263.8	270.4	273.8	267.2
85°	145.1	140.2	141.9	145.1	143.6	148.5	148.5	146.8	151.7	151.7	148.5
87.5°	47.9	44.5	46.2	47.9	47.9	49.4	51.1	49.4	52.8	52.8	49.4
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: P197912

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG-MS/DIM-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1
5°	762.0	762.0	762.0	762.0	762.0	760.3	760.3	760.3
7.5°	776.9	776.9	776.9	776.9	776.9	775.2	775.2	775.2
10°	800.0	798.3	798.3	798.3	798.3	796.6	798.3	796.6
12.5°	829.7	831.2	831.2	829.7	831.2	828.0	828.0	828.0
15°	870.8	869.1	869.1	869.1	869.1	867.6	867.6	867.6
17.5°	917.1	917.1	915.4	915.4	913.7	912.2	912.2	912.2
20°	971.5	969.9	968.2	966.5	964.8	961.6	959.9	959.9
22.5°	1027.6	1025.9	1024.2	1022.7	1021.0	1017.6	1014.4	1014.4
25°	1090.1	1086.9	1085.2	1082.0	1078.7	1075.3	1073.8	1072.1
27.5°	1166.1	1162.8	1157.8	1152.9	1146.3	1144.6	1141.4	1141.4
30°	1256.8	1251.9	1245.2	1237.1	1230.3	1223.7	1220.5	1218.9
32.5°	1362.4	1355.8	1344.2	1334.2	1322.8	1316.2	1311.3	1307.9
35°	1486.1	1476.1	1463.0	1448.1	1433.3	1421.8	1413.5	1413.5
37.5°	1631.2	1616.3	1596.6	1578.4	1556.9	1543.8	1533.8	1527.2
40°	1789.6	1768.1	1743.3	1720.2	1695.6	1677.4	1662.5	1664.2
42.5°	1946.3	1928.1	1898.4	1870.4	1839.0	1814.2	1796.1	1794.5
45°	2111.1	2088.0	2051.7	2015.5	1979.2	1949.5	1928.1	1924.7
47.5°	2264.5	2239.8	2197.0	2152.4	2112.8	2079.9	2056.8	2053.4
50°	2390.0	2360.3	2315.7	2267.8	2225.0	2188.7	2163.9	2157.3
52.5°	2470.8	2437.7	2390.0	2332.1	2286.1	2244.7	2215.0	2206.8
55°	2483.9	2441.1	2390.0	2325.5	2274.4	2228.2	2195.3	2185.3
57.5°	2393.2	2347.0	2300.9	2244.7	2193.6	2144.2	2117.7	2104.5
60°	2216.7	2180.4	2142.5	2091.4	2050.2	2004.0	1982.6	1976.0
62.5°	2013.8	1982.6	1947.8	1895.2	1860.4	1819.3	1799.4	1791.3
65°	1796.1	1759.9	1726.8	1684.0	1646.0	1611.4	1583.4	1580.0
67.5°	1555.2	1517.5	1489.3	1451.5	1413.5	1380.5	1362.4	1352.5
70°	1301.4	1270.0	1242.0	1200.6	1176.0	1144.6	1131.5	1121.5
72.5°	1049.0	1030.8	996.2	969.9	941.9	917.1	908.8	898.8
75°	811.4	790.0	763.7	747.2	725.7	712.6	705.8	699.3
77.5°	595.3	577.3	562.4	555.9	545.9	532.8	527.9	522.8
80°	412.3	404.0	394.3	392.6	386.0	376.0	374.3	372.8
82.5°	267.2	262.3	259.0	259.0	255.6	249.0	247.5	247.5
85°	148.5	146.8	148.5	146.8	143.6	140.2	140.2	140.2
87.5°	49.4	49.4	51.1	52.8	47.9	47.9	46.2	46.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)