

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: P197820

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-WQ-CG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE 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: 9743.4 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

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



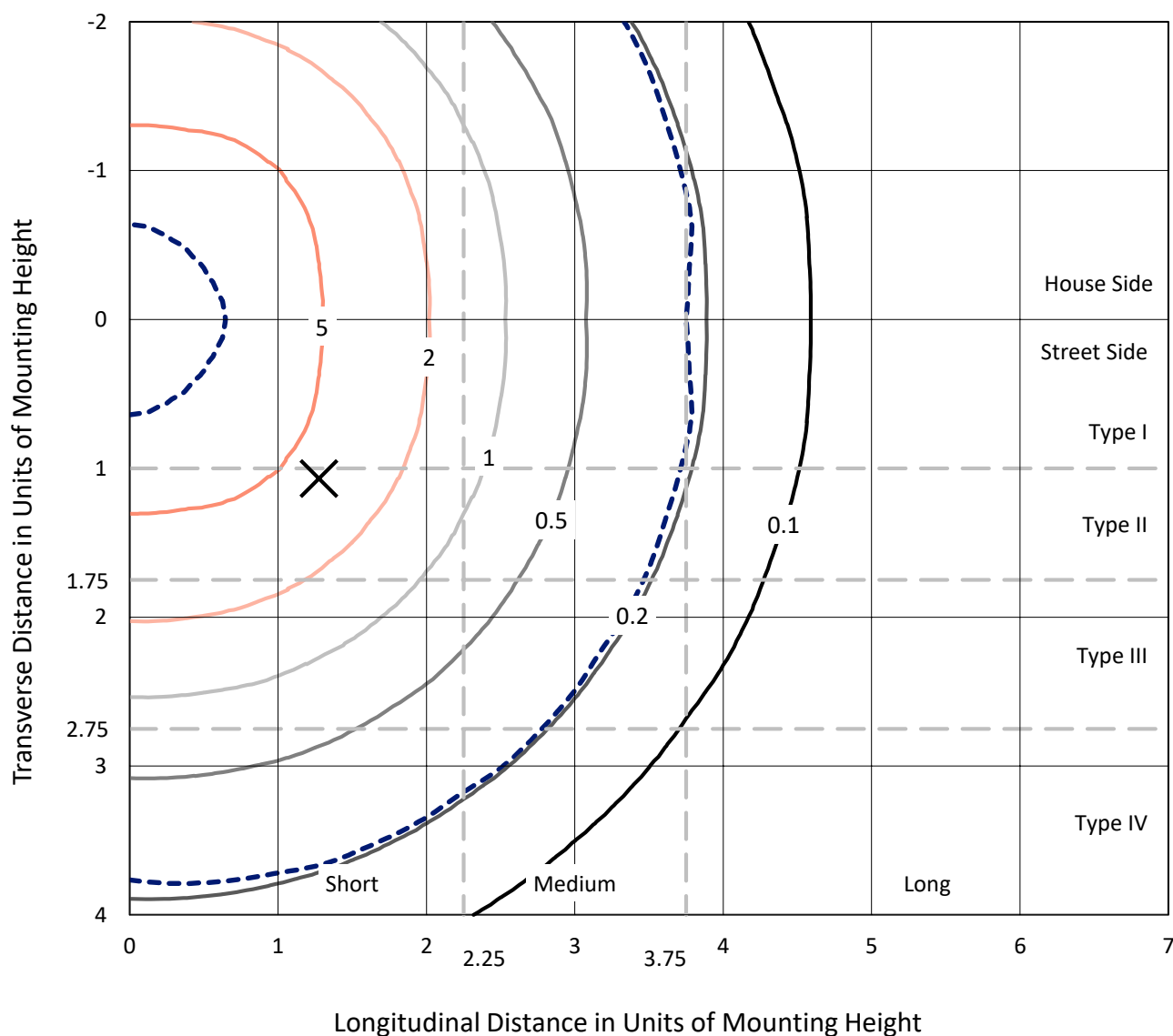
REPORT NUMBER: P197820

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

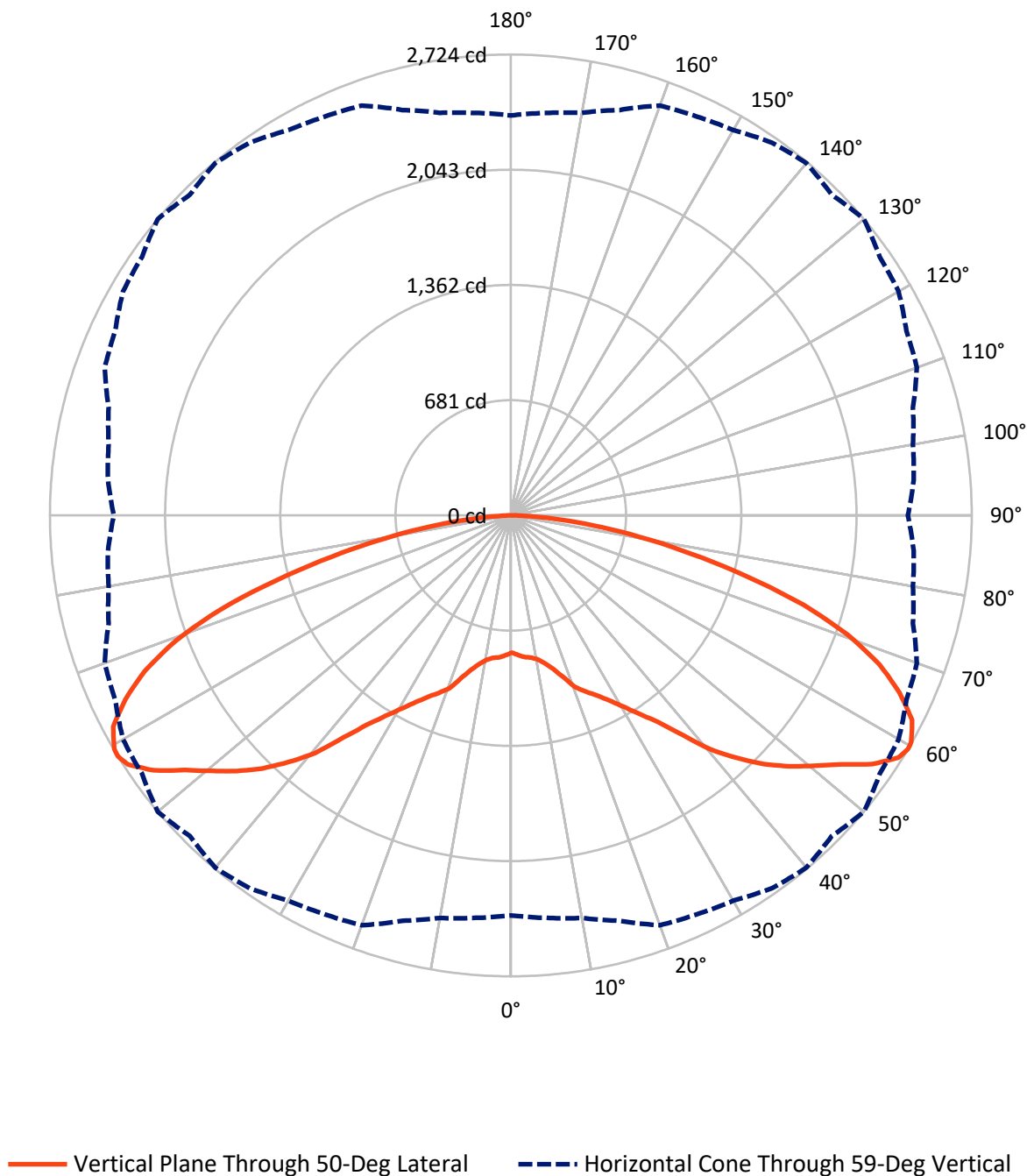


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P197820

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

Luminous Intensity Polar Plot



REPORT NUMBER: P197820

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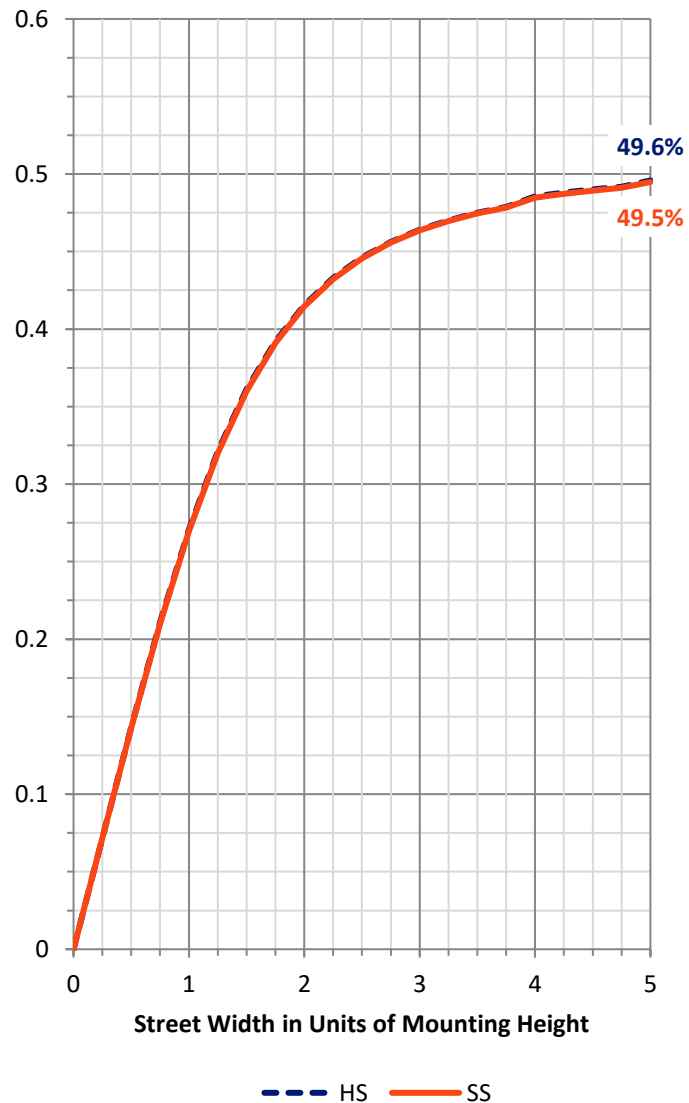
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4871.7	0.0	4871.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4871.7	0.0	4871.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9743.4	0.0	9743.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	0.8
10°-20°	272.1	2.8
20°-30°	547.7	5.6
30°-40°	942.4	9.7
40°-50°	1555.8	16.0
50°-60°	2190.8	22.5
60°-70°	2343.7	24.1
70°-80°	1488.7	15.3
80°-90°	321.7	3.3
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°	9743.4	100.0
0°-180°	9743.4	100.0

Coefficient of Utilization



REPORT NUMBER: P197820

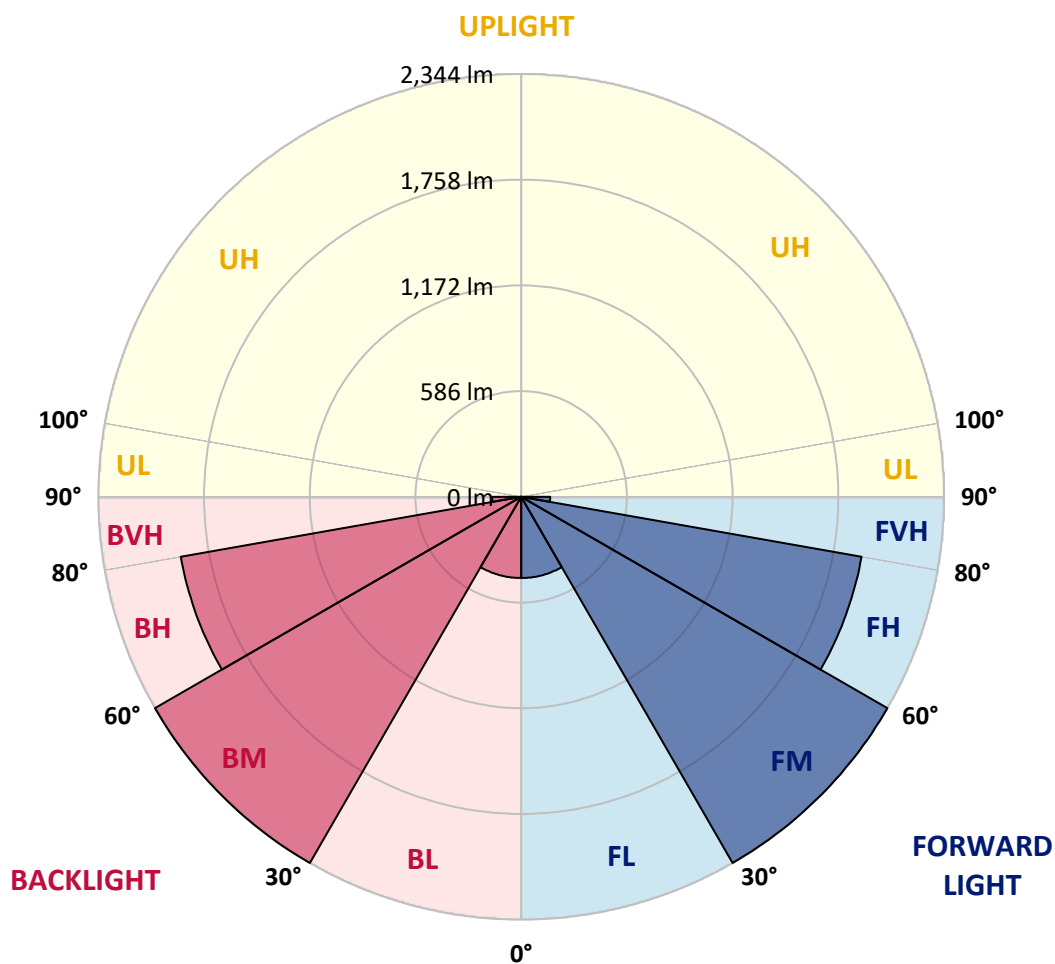
CATALOG NUMBER: TT-C6-LED-E1-WQ-CG-LWR-LW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.2	4.6			
FM	(30°-60°)	2344.5	24.1			
FH	(60°-80°)	1916.2	19.7			G2/5000
FVH	(80°-90°)	160.9	1.7			G2/225
BL	(0°-30°)	450.2	4.6	B1/500		
BM	(30°-60°)	2344.5	24.1	B2/2500		
BH	(60°-80°)	1916.2	19.7	B3/2500		G2/5000
BVH	(80°-90°)	160.9	1.7			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: P197820

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9
2.5°	828.2	826.0	826.0	826.0	826.0	826.0	826.0	826.0	826.0	826.0	826.0
5°	832.5	832.5	834.6	834.6	836.8	836.8	836.8	838.9	838.9	838.9	841.1
7.5°	841.1	838.9	841.1	841.1	841.1	843.3	843.3	843.3	845.4	847.6	847.6
10°	869.1	867.0	869.1	869.1	869.1	864.8	864.8	867.0	864.8	864.8	864.8
12.5°	901.5	901.5	903.6	905.8	905.8	903.6	901.5	899.3	897.2	897.2	897.2
15°	931.7	933.8	936.0	940.3	942.5	942.5	944.6	946.8	944.6	944.6	942.5
17.5°	979.1	983.4	985.6	987.7	987.7	987.7	992.1	998.5	1005.0	1009.3	1005.0
20°	1058.9	1061.1	1065.4	1065.4	1063.2	1065.4	1069.7	1071.9	1076.2	1080.5	1082.6
22.5°	1112.8	1117.1	1123.6	1123.6	1121.5	1123.6	1127.9	1127.9	1123.6	1125.8	1130.1
25°	1158.1	1160.3	1164.6	1166.8	1168.9	1179.7	1188.3	1186.2	1177.5	1179.7	1177.5
27.5°	1212.0	1216.4	1220.7	1220.7	1220.7	1227.1	1235.8	1240.1	1246.5	1244.4	1237.9
30°	1283.2	1289.7	1291.8	1289.7	1294.0	1300.5	1298.3	1302.6	1313.4	1324.2	1311.2
32.5°	1339.3	1345.8	1352.2	1360.9	1375.9	1384.6	1380.3	1382.4	1388.9	1397.5	1397.5
35°	1423.4	1434.2	1438.5	1440.6	1455.7	1473.0	1485.9	1496.7	1494.6	1488.1	1498.9
37.5°	1550.6	1561.4	1565.7	1574.4	1593.8	1598.1	1617.5	1643.4	1652.0	1643.4	1643.4
40°	1686.5	1697.3	1718.9	1738.3	1768.5	1774.9	1798.7	1809.4	1831.0	1833.2	1820.2
42.5°	1798.7	1811.6	1815.9	1848.3	1889.2	1919.4	1945.3	1947.5	1962.6	1975.5	1960.4
45°	1919.4	1930.2	1936.7	1966.9	1988.4	2025.1	2066.1	2083.3	2089.8	2087.6	2096.3
47.5°	2031.6	2046.7	2053.1	2076.9	2102.7	2132.9	2156.7	2206.3	2217.0	2195.5	2214.9
50°	2100.6	2117.8	2132.9	2184.7	2230.0	2253.7	2273.1	2314.1	2337.8	2318.4	2324.9
52.5°	2208.4	2212.7	2225.7	2247.2	2314.1	2393.9	2415.5	2428.4	2462.9	2473.7	2443.5
55°	2355.1	2370.2	2381.0	2409.0	2437.0	2493.1	2588.0	2605.2	2596.6	2648.4	2594.5
57.5°	2376.6	2404.7	2437.0	2499.6	2555.6	2572.9	2629.0	2695.8	2689.4	2695.8	2700.1
59°	2363.7	2387.4	2415.5	2480.2	2577.2	2600.9	2629.0	2689.4	2717.4	2680.7	2723.9
60°	2368.0	2385.3	2400.4	2452.1	2555.6	2609.6	2626.8	2663.5	2717.4	2667.8	2719.5
62.5°	2350.8	2372.3	2389.6	2419.8	2469.4	2544.9	2611.7	2594.5	2672.1	2633.3	2661.3
65°	2258.0	2281.7	2316.3	2359.4	2417.6	2439.2	2506.0	2542.7	2525.4	2568.6	2523.3
67.5°	2102.7	2124.3	2145.9	2197.6	2262.3	2290.4	2307.6	2374.5	2350.8	2400.4	2348.6
70°	1895.7	1919.4	1949.6	1977.7	2035.9	2059.6	2079.0	2109.2	2117.8	2117.8	2113.5
72.5°	1647.7	1667.1	1686.5	1714.5	1749.0	1770.6	1779.2	1785.7	1820.2	1807.3	1809.4
75°	1367.3	1386.7	1395.4	1406.1	1429.9	1427.7	1436.3	1432.0	1453.6	1445.0	1440.6
77.5°	1069.7	1076.2	1099.9	1099.9	1093.4	1104.2	1093.4	1087.0	1082.6	1087.0	1087.0
80°	741.9	761.3	776.4	787.2	791.5	787.2	789.3	780.7	780.7	774.2	776.4
82.5°	457.2	476.6	483.1	493.9	496.0	496.0	496.0	489.6	491.7	485.2	489.6
85°	224.3	224.3	232.9	243.7	245.9	250.2	250.2	250.2	250.2	250.2	252.3
87.5°	56.1	56.1	60.4	66.9	66.9	69.0	71.2	73.3	73.3	75.5	75.5
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: P197820

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9
2.5°	826.0	826.0	826.0	826.0	826.0	826.0	826.0	826.0
5°	841.1	838.9	838.9	836.8	836.8	834.6	834.6	834.6
7.5°	849.7	849.7	847.6	845.4	843.3	843.3	845.4	845.4
10°	867.0	871.3	873.4	873.4	871.3	871.3	869.1	869.1
12.5°	895.0	899.3	903.6	908.0	908.0	905.8	901.5	899.3
15°	938.1	938.1	940.3	942.5	942.5	938.1	929.5	929.5
17.5°	996.4	992.1	985.6	987.7	989.9	987.7	979.1	983.4
20°	1076.2	1067.5	1063.2	1058.9	1067.5	1067.5	1054.6	1054.6
22.5°	1134.4	1127.9	1117.1	1115.0	1121.5	1125.8	1115.0	1108.5
25°	1184.0	1186.2	1173.2	1166.8	1168.9	1171.1	1156.0	1158.1
27.5°	1237.9	1240.1	1233.6	1222.8	1218.5	1225.0	1214.2	1209.9
30°	1302.6	1300.5	1304.8	1291.8	1281.1	1287.5	1287.5	1276.7
32.5°	1386.7	1380.3	1382.4	1367.3	1354.4	1352.2	1343.6	1330.7
35°	1501.0	1483.8	1470.8	1462.2	1438.5	1434.2	1434.2	1419.1
37.5°	1649.8	1624.0	1600.2	1600.2	1563.6	1552.8	1559.3	1539.9
40°	1815.9	1807.3	1770.6	1764.1	1725.3	1699.4	1699.4	1675.7
42.5°	1936.7	1947.5	1904.3	1878.4	1852.6	1811.6	1815.9	1785.7
45°	2068.2	2061.8	2025.1	1979.8	1971.2	1928.1	1932.4	1902.2
47.5°	2193.3	2154.5	2137.2	2092.0	2072.5	2022.9	2038.0	2014.3
50°	2314.1	2271.0	2253.7	2199.8	2173.9	2120.0	2122.2	2079.0
52.5°	2439.2	2400.4	2374.5	2305.5	2260.2	2221.4	2212.7	2193.3
55°	2600.9	2560.0	2497.4	2432.7	2398.2	2342.1	2348.6	2318.4
57.5°	2663.5	2637.6	2570.7	2531.9	2467.2	2411.1	2398.2	2344.3
59°	2661.3	2646.2	2579.4	2553.5	2460.7	2413.3	2389.6	2346.4
60°	2646.2	2641.9	2575.0	2542.7	2445.6	2402.5	2381.0	2352.9
62.5°	2600.9	2598.8	2523.3	2484.5	2404.7	2370.2	2357.2	2320.6
65°	2534.1	2497.4	2439.2	2413.3	2331.3	2305.5	2268.8	2232.1
67.5°	2374.5	2292.5	2283.9	2251.6	2180.4	2148.0	2124.3	2089.8
70°	2111.4	2057.5	2057.5	2016.5	1966.9	1951.8	1919.4	1880.6
72.5°	1783.6	1770.6	1777.1	1729.6	1705.9	1697.3	1669.3	1634.7
75°	1425.6	1427.7	1421.2	1410.5	1404.0	1406.1	1375.9	1360.9
77.5°	1080.5	1099.9	1095.6	1080.5	1095.6	1093.4	1067.5	1061.1
80°	769.9	778.6	782.9	774.2	782.9	776.4	754.8	752.7
82.5°	485.2	487.4	491.7	483.1	485.2	483.1	468.0	468.0
85°	248.0	256.6	245.9	237.2	237.2	228.6	224.3	226.4
87.5°	73.3	77.6	69.0	69.0	64.7	60.4	58.2	58.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)