

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: P197551

Luminaire Tested: **TT-C5-LED-E1-CQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197551
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-C5-LED-E1-CQ-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9438.9 lumens
Efficiency: N/A
Efficacy: 122.6 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



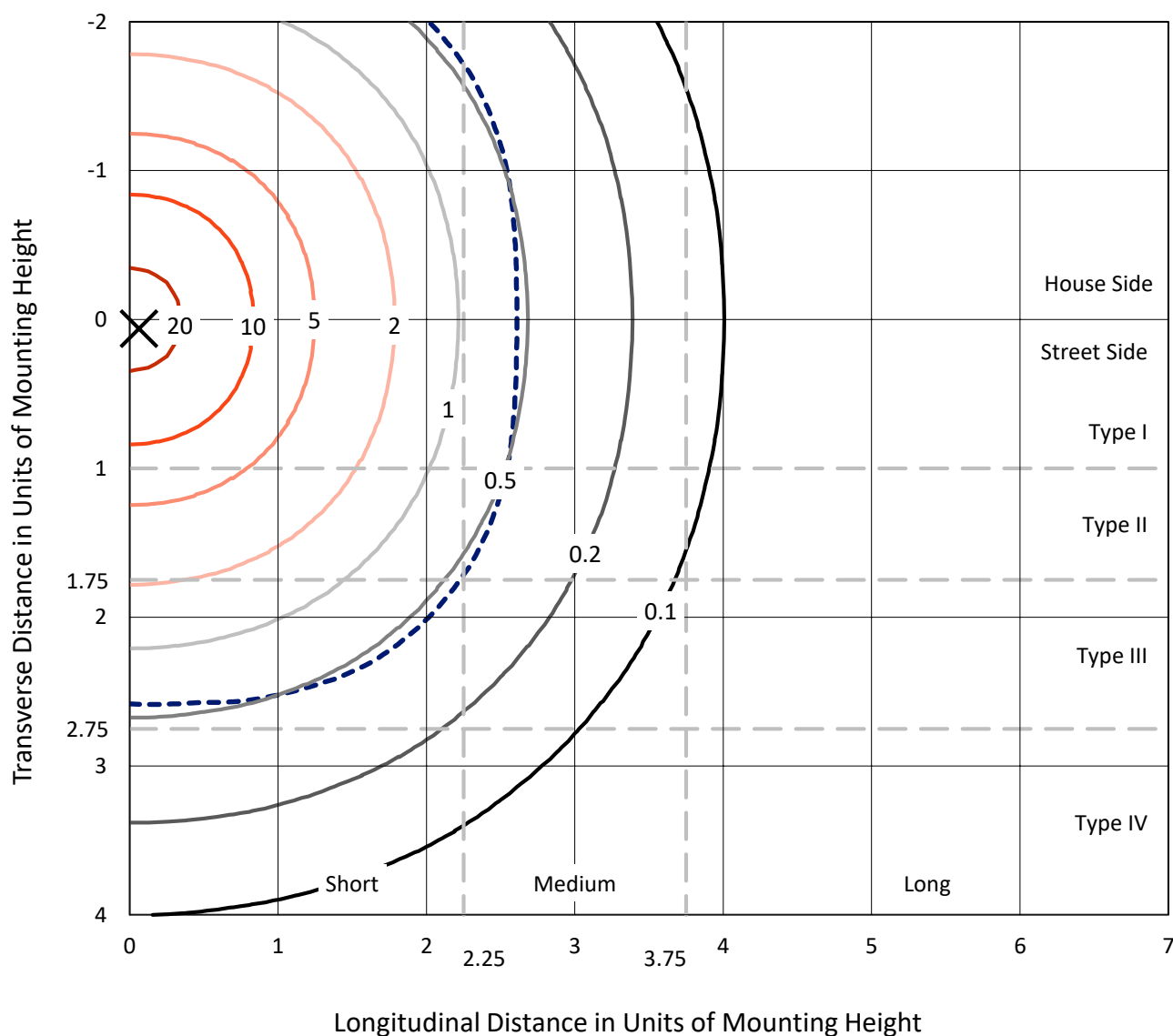
REPORT NUMBER: P197551

CATALOG NUMBER: TT-C5-LED-E1-CQ-MS/DIM-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

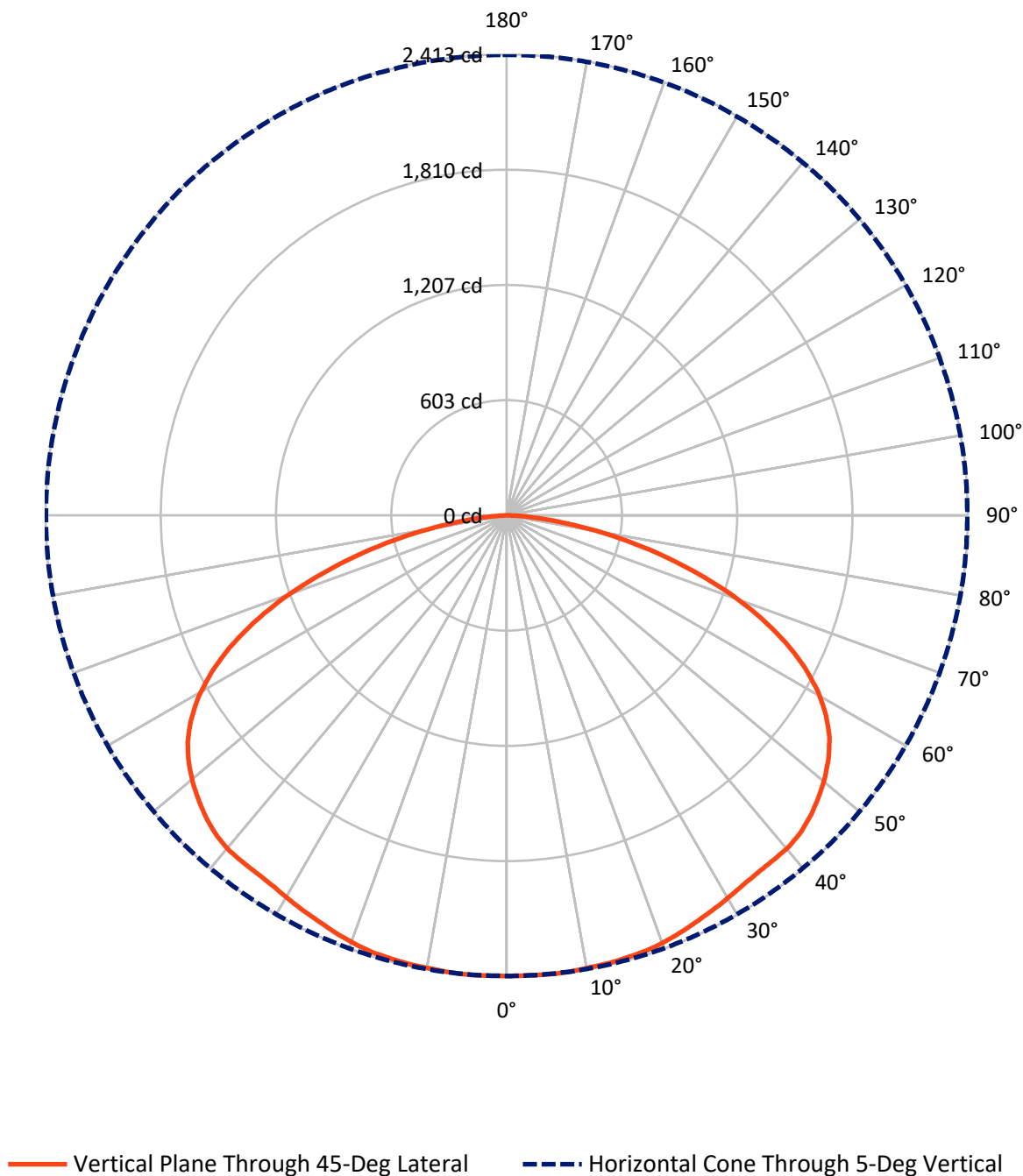


Based on 10 foot mounting height. Maximum calculated value = 24.1 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P197551

CATALOG NUMBER: TT-C5-LED-E1-CQ-MS/DIM-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197551

CATALOG NUMBER: TT-C5-LED-E1-CQ-MS/DIM-7050

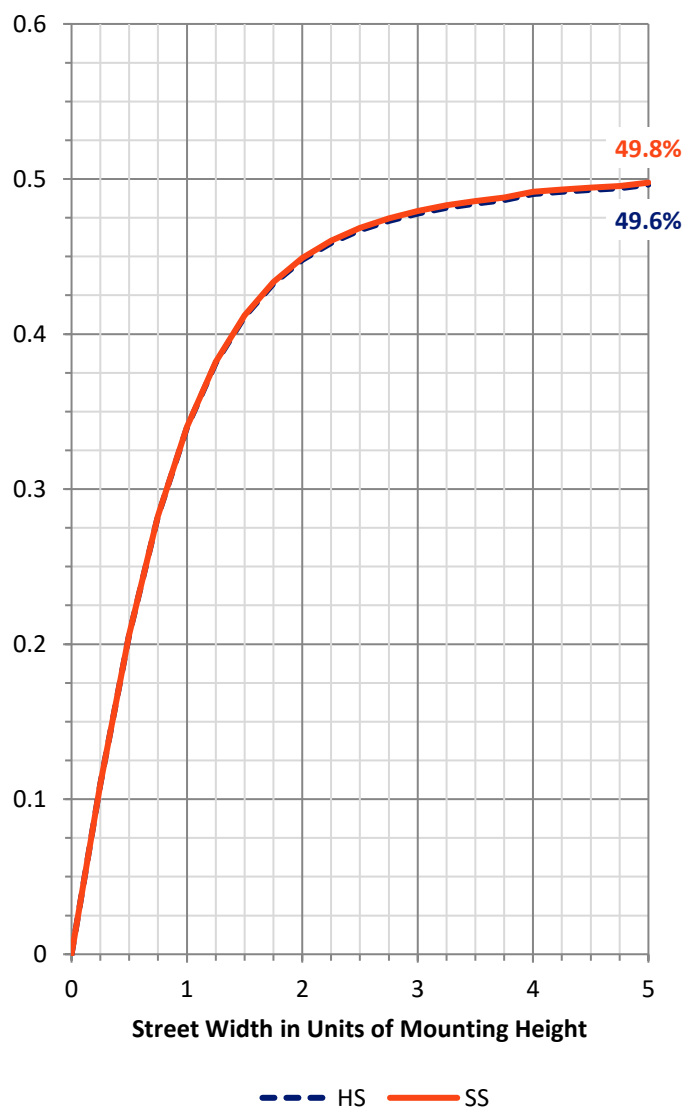
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4719.4	0.0	4719.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4719.4	0.0	4719.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9438.9	0.0	9438.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	2.4
10°-20°	678.4	7.2
20°-30°	1082.6	11.5
30°-40°	1426.0	15.1
40°-50°	1696.3	18.0
50°-60°	1775.3	18.8
60°-70°	1509.7	16.0
70°-80°	858.0	9.1
80°-90°	182.4	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°	9438.9	100.0
0°-180°	9438.9	100.0

Coefficient of Utilization



REPORT NUMBER: P197551

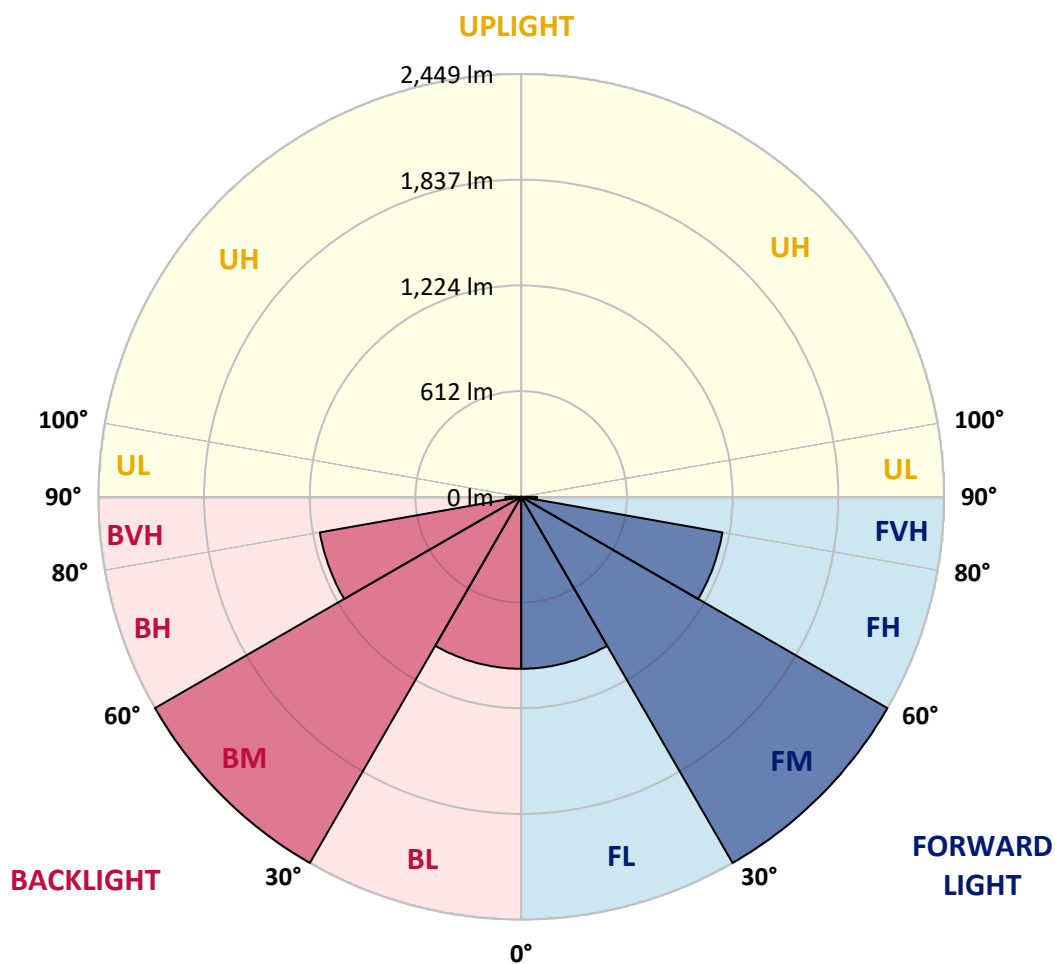
CATALOG NUMBER: TT-C5-LED-E1-CQ-MS/DIM-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	995.5	10.5			
FM	(30°-60°)	2448.8	25.9			
FH	(60°-80°)	1183.9	12.5			G1/1800
FVH	(80°-90°)	91.2	1.0			G1/100
BL	(0°-30°)	995.5	10.5	B2/1000		
BM	(30°-60°)	2448.8	25.9	B2/2500		
BH	(60°-80°)	1183.9	12.5	B3/2500		G1/1800
BVH	(80°-90°)	91.2	1.0			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: P197551

CATALOG NUMBER: TT-C5-LED-E1-CQ-MS/DIM-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6
2.5°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6
5°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2413.4	2411.6
7.5°	2409.7	2409.7	2409.7	2409.7	2411.6	2409.7	2409.7	2411.6	2411.6	2411.6	2411.6
10°	2406.0	2404.1	2404.1	2406.0	2406.0	2406.0	2406.0	2406.0	2407.8	2406.0	2406.0
12.5°	2400.4	2398.5	2400.4	2400.4	2400.4	2402.3	2402.3	2402.3	2404.1	2404.1	2402.3
15°	2394.8	2394.8	2394.8	2394.8	2394.8	2396.7	2396.7	2398.5	2398.5	2398.5	2398.5
17.5°	2387.4	2387.4	2387.4	2389.2	2389.2	2391.1	2391.1	2391.1	2393.0	2393.0	2393.0
20°	2374.3	2372.5	2374.3	2374.3	2376.2	2378.1	2378.1	2379.9	2379.9	2379.9	2379.9
22.5°	2355.7	2355.7	2357.6	2357.6	2359.5	2361.3	2361.3	2363.2	2363.2	2363.2	2363.2
25°	2337.1	2339.0	2339.0	2340.9	2340.9	2342.7	2344.6	2344.6	2344.6	2344.6	2344.6
27.5°	2318.5	2320.4	2320.4	2320.4	2322.2	2324.1	2326.0	2327.8	2329.7	2327.8	2327.8
30°	2298.1	2298.1	2299.9	2301.8	2303.6	2305.5	2309.2	2311.1	2312.9	2311.1	2311.1
32.5°	2275.7	2277.6	2279.4	2281.3	2285.0	2288.7	2292.5	2294.3	2296.2	2294.3	2294.3
35°	2259.0	2259.0	2262.7	2266.4	2270.1	2275.7	2279.4	2283.2	2286.9	2285.0	2283.2
37.5°	2242.2	2242.2	2246.0	2251.5	2259.0	2266.4	2273.9	2279.4	2281.3	2281.3	2279.4
40°	2221.8	2223.6	2227.3	2236.6	2247.8	2257.1	2266.4	2273.9	2277.6	2277.6	2273.9
42.5°	2199.4	2201.3	2206.9	2216.2	2229.2	2240.4	2251.5	2257.1	2262.7	2262.7	2259.0
45°	2167.8	2169.7	2177.1	2186.4	2199.4	2210.6	2223.6	2229.2	2236.6	2234.8	2232.9
47.5°	2126.9	2128.7	2136.2	2145.5	2158.5	2171.5	2184.5	2193.9	2199.4	2199.4	2197.6
50°	2076.6	2078.5	2085.9	2095.2	2112.0	2126.9	2139.9	2149.2	2158.5	2158.5	2156.6
52.5°	2013.4	2017.1	2022.7	2035.7	2054.3	2071.0	2087.8	2102.7	2108.3	2110.1	2108.3
55°	1935.2	1938.9	1946.4	1961.3	1981.7	2002.2	2020.8	2037.5	2045.0	2050.6	2046.8
57.5°	1844.0	1847.7	1857.1	1873.8	1896.1	1916.6	1940.8	1959.4	1965.0	1970.6	1968.7
60°	1736.1	1741.7	1751.0	1769.6	1791.9	1814.3	1836.6	1858.9	1864.5	1871.9	1868.2
62.5°	1609.6	1615.2	1624.5	1644.9	1669.1	1689.6	1715.6	1736.1	1741.7	1749.1	1747.3
65°	1464.4	1470.0	1479.3	1501.6	1524.0	1546.3	1570.5	1592.8	1598.4	1605.8	1604.0
67.5°	1298.8	1304.4	1313.7	1339.8	1362.1	1384.4	1404.9	1427.2	1430.9	1438.4	1436.5
70°	1123.9	1131.3	1138.8	1163.0	1183.5	1202.1	1224.4	1243.0	1250.4	1254.2	1250.4
72.5°	949.0	954.6	962.0	978.8	993.7	1010.4	1032.7	1045.8	1051.3	1053.2	1053.2
75°	768.5	774.1	774.1	792.7	803.9	813.2	831.8	841.1	844.8	848.5	848.5
77.5°	597.3	593.6	597.3	604.8	612.2	619.6	630.8	636.4	640.1	647.5	643.8
80°	418.7	420.5	422.4	428.0	431.7	433.6	441.0	442.9	444.7	452.2	448.4
82.5°	269.8	266.1	269.8	268.0	271.7	266.1	269.8	275.4	271.7	275.4	277.3
85°	141.4	135.8	135.8	137.7	139.6	135.8	137.7	135.8	135.8	139.6	137.7
87.5°	44.7	42.8	44.7	42.8	44.7	42.8	44.7	46.5	44.7	44.7	46.5
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: P197551

CATALOG NUMBER: TT-C5-LED-E1-CQ-MS/DIM-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6
2.5°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6
5°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6
7.5°	2409.7	2409.7	2409.7	2409.7	2409.7	2409.7	2407.8	2409.7
10°	2406.0	2406.0	2406.0	2406.0	2404.1	2404.1	2404.1	2404.1
12.5°	2402.3	2402.3	2400.4	2400.4	2400.4	2400.4	2398.5	2398.5
15°	2398.5	2396.7	2396.7	2394.8	2394.8	2394.8	2393.0	2394.8
17.5°	2393.0	2391.1	2391.1	2389.2	2389.2	2387.4	2387.4	2387.4
20°	2379.9	2378.1	2378.1	2376.2	2376.2	2374.3	2372.5	2372.5
22.5°	2361.3	2361.3	2361.3	2359.5	2357.6	2357.6	2355.7	2355.7
25°	2344.6	2342.7	2342.7	2340.9	2339.0	2339.0	2337.1	2337.1
27.5°	2327.8	2326.0	2324.1	2320.4	2320.4	2318.5	2316.7	2314.8
30°	2309.2	2305.5	2301.8	2299.9	2298.1	2294.3	2292.5	2290.6
32.5°	2290.6	2286.9	2283.2	2279.4	2273.9	2272.0	2268.3	2268.3
35°	2279.4	2273.9	2268.3	2260.8	2255.3	2249.7	2246.0	2244.1
37.5°	2273.9	2266.4	2257.1	2247.8	2238.5	2231.1	2225.5	2225.5
40°	2266.4	2257.1	2246.0	2232.9	2221.8	2212.5	2206.9	2205.0
42.5°	2251.5	2242.2	2227.3	2216.2	2201.3	2192.0	2184.5	2182.7
45°	2225.5	2216.2	2203.2	2188.3	2173.4	2162.2	2154.8	2152.9
47.5°	2192.0	2180.8	2165.9	2151.1	2136.2	2123.1	2115.7	2113.8
50°	2149.2	2138.0	2123.1	2108.3	2091.5	2078.5	2069.2	2069.2
52.5°	2100.8	2087.8	2071.0	2054.3	2035.7	2022.7	2013.4	2011.5
55°	2037.5	2022.7	2005.9	1987.3	1966.8	1951.9	1940.8	1938.9
57.5°	1959.4	1942.6	1924.0	1903.6	1883.1	1866.4	1853.3	1851.5
60°	1860.8	1842.2	1823.6	1803.1	1780.8	1762.2	1749.1	1745.4
62.5°	1739.8	1719.4	1698.9	1680.3	1656.1	1637.5	1624.5	1620.7
65°	1596.5	1579.8	1559.3	1537.0	1510.9	1492.3	1479.3	1477.5
67.5°	1429.1	1412.3	1391.9	1371.4	1345.3	1328.6	1315.6	1311.8
70°	1244.9	1230.0	1213.2	1192.8	1170.4	1153.7	1140.7	1138.8
72.5°	1049.5	1036.5	1021.6	1006.7	984.3	971.3	960.2	958.3
75°	848.5	835.5	824.3	813.2	796.4	787.1	775.9	775.9
77.5°	643.8	640.1	632.7	619.6	610.3	602.9	597.3	593.6
80°	450.3	446.6	442.9	435.4	429.8	428.0	424.3	420.5
82.5°	275.4	273.5	275.4	271.7	269.8	269.8	268.0	264.2
85°	139.6	141.4	139.6	137.7	137.7	137.7	137.7	135.8
87.5°	44.7	46.5	44.7	42.8	42.8	42.8	42.8	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)