

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: P197863

Luminaire Tested: **TT-C5-LED-E1-WQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
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-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8408 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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

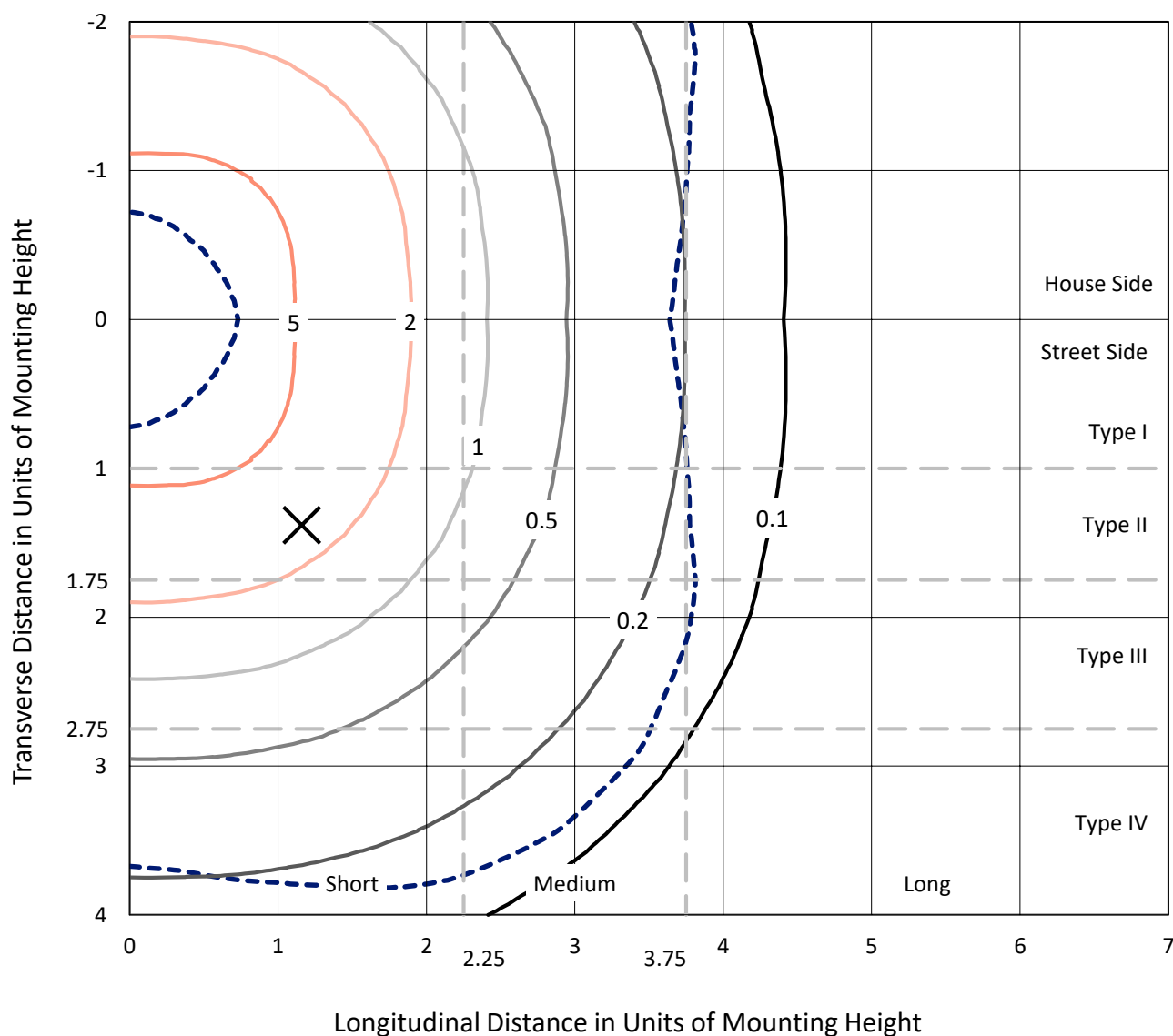


REPORT NUMBER: P197863

CATALOG NUMBER: TT-C5-LED-E1-WQ-CG-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

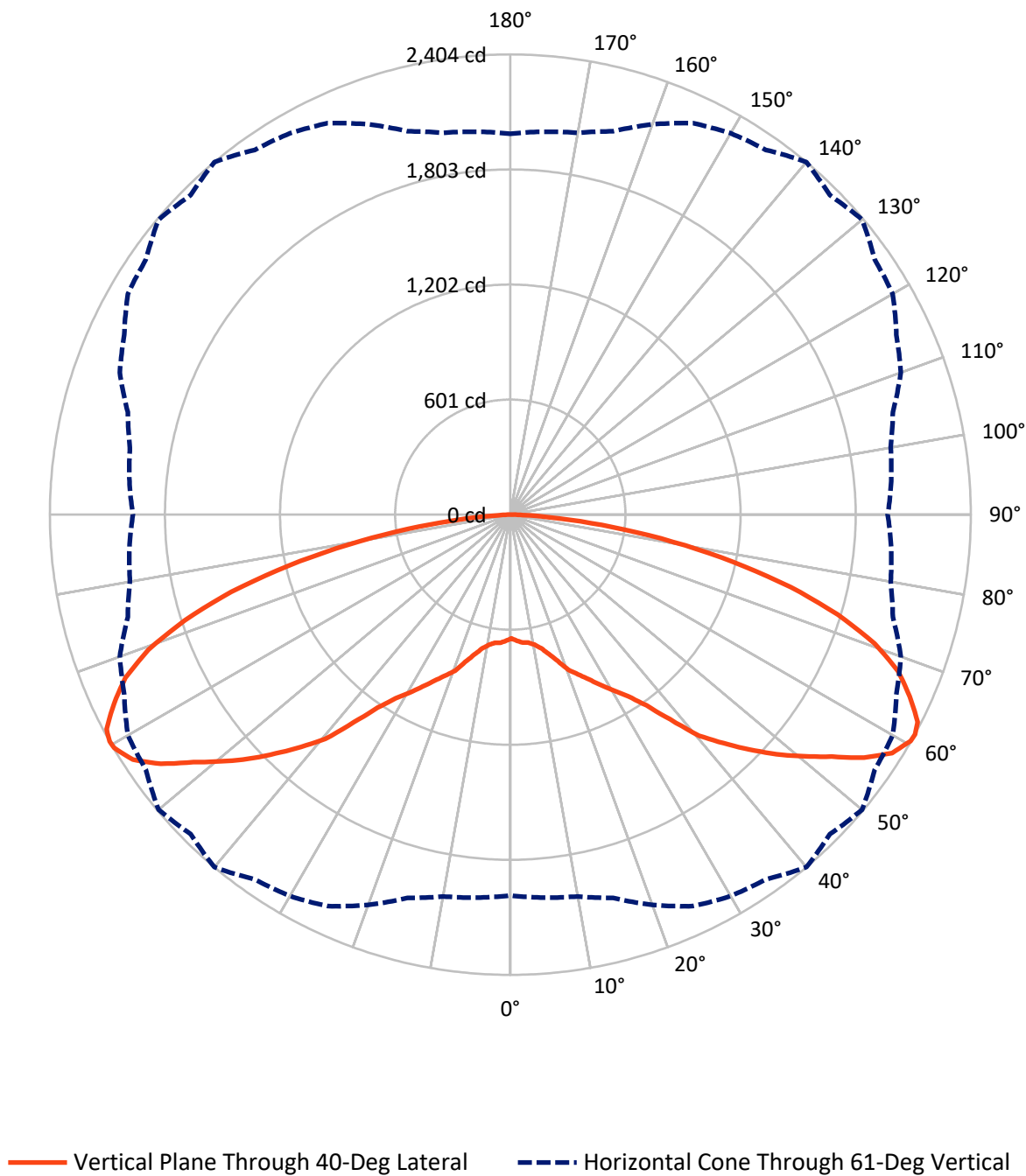


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197863

CATALOG NUMBER: TT-C5-LED-E1-WQ-CG-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197863

CATALOG NUMBER: TT-C5-LED-E1-WQ-CG-7050

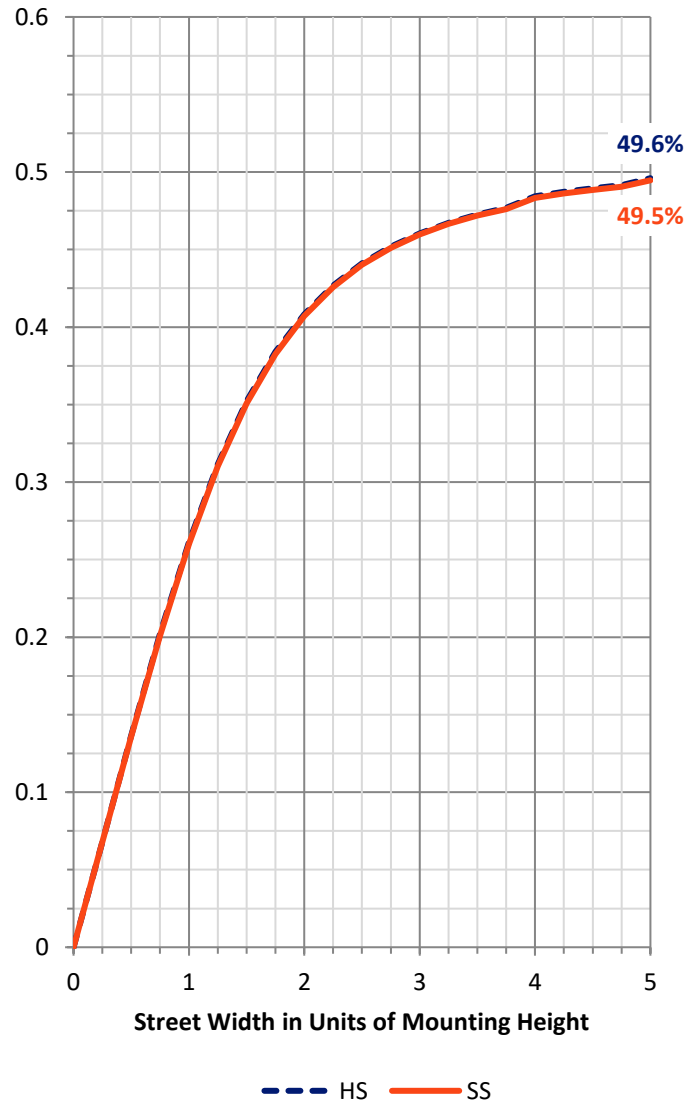
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4204.0	0.0	4204.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4204.0	0.0	4204.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8408.0	0.0	8408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	0.8
10°-20°	217.4	2.6
20°-30°	440.9	5.2
30°-40°	766.7	9.1
40°-50°	1290.7	15.4
50°-60°	1859.6	22.1
60°-70°	2063.5	24.5
70°-80°	1401.3	16.7
80°-90°	303.5	3.6
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°	8408.0	100.0
0°-180°	8408.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197863

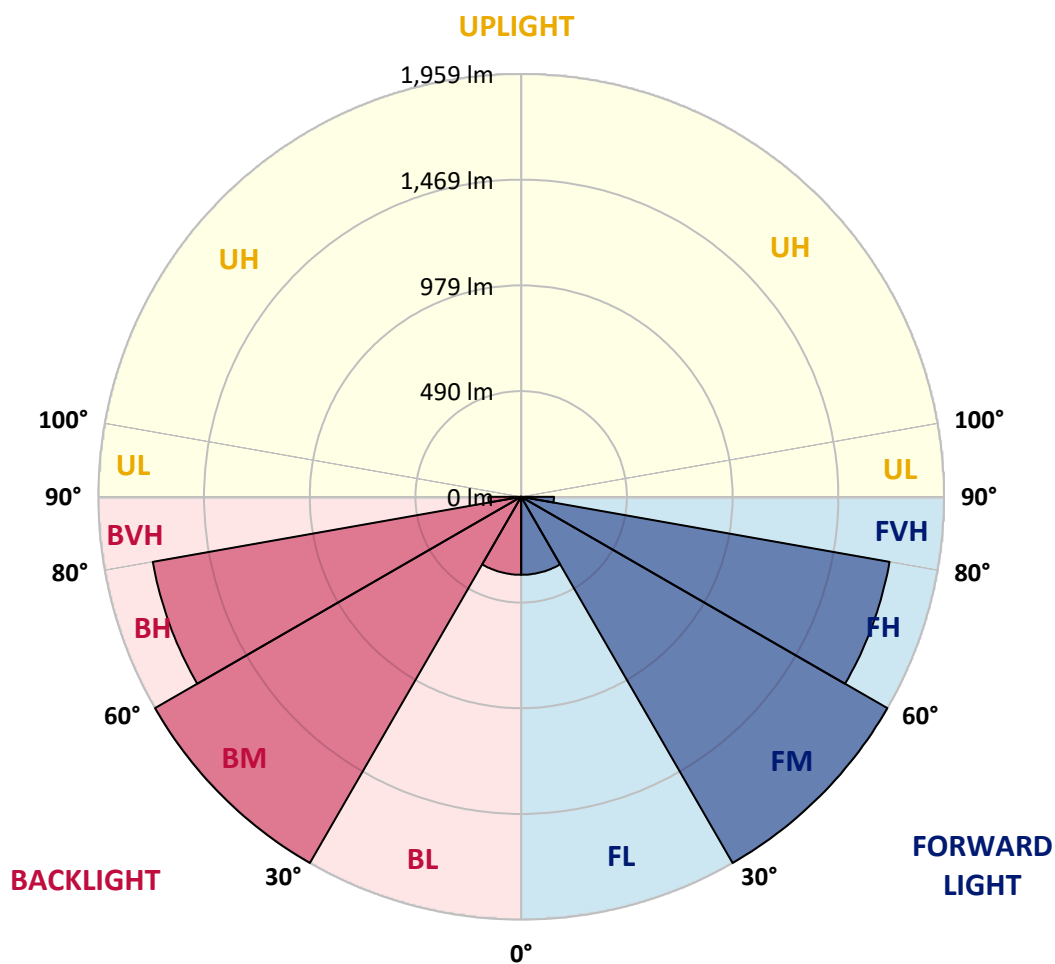
CATALOG NUMBER: TT-C5-LED-E1-WQ-CG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.3	4.3			
FM	(30°-60°)	1958.5	23.3			
FH	(60°-80°)	1732.4	20.6			G1/1800
FVH	(80°-90°)	151.8	1.8			G2/225
BL	(0°-30°)	361.3	4.3	B1/500		
BM	(30°-60°)	1958.5	23.3	B2/2500		
BH	(60°-80°)	1732.4	20.6	B3/2500		G1/1800
BVH	(80°-90°)	151.8	1.8			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: P197863

CATALOG NUMBER: TT-C5-LED-E1-WQ-CG-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
2.5°	661.3	661.3	661.3	661.3	661.3	659.6	661.3	659.6	659.6	659.6	659.6
5°	666.4	668.1	668.1	668.1	668.1	669.8	669.8	671.5	671.5	671.5	671.5
7.5°	671.5	671.5	671.5	671.5	671.5	671.5	673.2	673.2	674.9	674.9	676.6
10°	691.9	691.9	693.6	693.6	691.9	691.9	691.9	690.2	690.2	688.5	688.5
12.5°	720.8	720.8	722.5	724.2	724.2	722.5	720.8	717.4	715.7	715.7	715.7
15°	742.9	744.6	748.0	751.4	753.1	753.1	754.8	754.8	754.8	753.1	751.4
17.5°	785.3	785.3	787.0	788.7	788.7	790.4	793.8	797.2	804.0	805.7	800.6
20°	846.5	848.2	853.3	851.6	851.6	855.0	858.4	860.1	865.2	868.6	868.6
22.5°	892.4	895.8	902.6	902.6	900.9	902.6	906.0	906.0	906.0	904.3	907.7
25°	928.1	931.5	936.6	936.6	940.0	948.5	958.7	957.0	951.9	951.9	950.2
27.5°	975.7	977.4	980.8	980.8	985.9	991.0	997.8	1004.6	1008.0	1006.3	1002.9
30°	1035.2	1038.6	1042.0	1036.9	1045.4	1050.5	1053.9	1053.9	1067.5	1074.3	1062.4
32.5°	1079.4	1086.2	1093.0	1098.1	1115.1	1123.6	1118.5	1123.6	1130.4	1137.2	1137.2
35°	1152.5	1159.3	1164.4	1167.8	1184.8	1196.7	1210.3	1223.9	1222.2	1217.1	1227.3
37.5°	1257.9	1264.7	1269.8	1276.6	1298.7	1307.2	1317.4	1346.3	1356.5	1342.9	1349.7
40°	1370.1	1382.0	1399.0	1419.4	1451.7	1461.9	1478.9	1499.3	1518.0	1524.8	1507.8
42.5°	1467.0	1480.6	1484.0	1516.3	1555.4	1586.0	1609.8	1614.9	1631.9	1647.2	1635.3
45°	1570.7	1582.6	1591.1	1618.3	1640.4	1682.9	1722.0	1740.7	1749.2	1747.5	1761.1
47.5°	1667.6	1681.2	1693.1	1722.0	1749.2	1784.9	1810.4	1854.6	1869.9	1849.5	1871.6
50°	1727.1	1744.1	1759.4	1813.8	1861.4	1898.8	1919.2	1956.6	1983.8	1970.2	1975.3
52.5°	1825.7	1832.5	1844.4	1875.0	1937.9	2024.6	2045.0	2065.4	2099.4	2116.4	2085.8
55°	1951.5	1970.2	1987.2	2026.3	2058.6	2123.2	2216.7	2242.2	2240.5	2293.2	2245.6
57.5°	1978.7	2005.9	2039.9	2111.3	2174.2	2211.6	2271.1	2342.4	2349.2	2352.6	2359.4
60°	1982.1	1999.1	2021.2	2080.7	2191.2	2259.2	2293.2	2339.0	2400.2	2356.0	2401.9
61°	1988.9	2007.6	2024.6	2072.2	2169.1	2255.8	2300.0	2325.4	2403.6	2359.4	2396.8
62.5°	1977.0	1999.1	2024.6	2070.5	2135.1	2223.5	2308.5	2308.5	2386.6	2357.7	2378.1
65°	1905.6	1926.0	1975.3	2034.8	2113.0	2158.9	2247.3	2303.4	2291.5	2342.4	2291.5
67.5°	1784.9	1801.9	1844.4	1914.1	1999.1	2063.7	2104.5	2194.6	2182.7	2235.4	2177.6
70°	1614.9	1637.0	1689.7	1737.3	1817.2	1885.2	1939.6	1994.0	2017.8	2012.7	2016.1
72.5°	1410.9	1426.2	1473.8	1526.5	1589.4	1665.9	1715.2	1749.2	1786.6	1784.9	1791.7
75°	1174.6	1188.2	1229.0	1268.1	1329.3	1388.8	1444.9	1480.6	1511.2	1509.5	1502.7
77.5°	906.0	921.3	967.2	1001.2	1030.1	1096.4	1138.9	1162.7	1188.2	1188.2	1191.6
80°	632.4	642.6	678.3	714.0	741.2	773.5	827.8	832.9	861.8	855.0	861.8
82.5°	380.8	387.6	414.8	435.2	453.9	484.5	510.0	520.2	537.2	530.4	540.6
85°	171.7	175.1	192.1	204.0	212.5	229.5	243.1	248.2	256.7	255.0	261.8
87.5°	35.7	39.1	44.2	47.6	49.3	56.1	61.2	61.2	64.6	64.6	66.3
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: P197863

CATALOG NUMBER: TT-C5-LED-E1-WQ-CG-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
2.5°	659.6	661.3	659.6	659.6	659.6	661.3	659.6	661.3
5°	671.5	671.5	671.5	669.8	668.1	668.1	668.1	666.4
7.5°	678.3	678.3	676.6	674.9	673.2	674.9	674.9	674.9
10°	691.9	695.3	697.0	697.0	695.3	695.3	695.3	693.6
12.5°	715.7	717.4	722.5	724.2	725.9	724.2	719.1	717.4
15°	748.0	748.0	749.7	753.1	753.1	746.3	741.2	739.5
17.5°	793.8	792.1	788.7	788.7	790.4	787.0	781.9	781.9
20°	863.5	856.7	853.3	848.2	853.3	853.3	843.1	838.0
22.5°	912.8	906.0	897.5	892.4	899.2	904.3	892.4	885.6
25°	955.3	957.0	943.4	936.6	938.3	941.7	926.4	924.7
27.5°	999.5	1002.9	996.1	984.2	980.8	987.6	975.7	972.3
30°	1053.9	1052.2	1055.6	1040.3	1033.5	1038.6	1036.9	1028.4
32.5°	1125.3	1116.8	1120.2	1106.6	1093.0	1093.0	1082.8	1072.6
35°	1223.9	1205.2	1196.7	1188.2	1162.7	1164.4	1155.9	1147.4
37.5°	1353.1	1324.2	1300.4	1305.5	1268.1	1264.7	1259.6	1247.7
40°	1501.0	1487.4	1460.2	1444.9	1405.8	1387.1	1380.3	1358.2
42.5°	1611.5	1614.9	1574.1	1546.9	1516.3	1484.0	1480.6	1458.5
45°	1730.5	1718.6	1681.2	1637.0	1623.4	1584.3	1579.2	1557.1
47.5°	1849.5	1808.7	1786.6	1740.7	1718.6	1669.3	1672.7	1652.3
50°	1961.7	1914.1	1893.7	1839.3	1805.3	1756.0	1744.1	1710.1
52.5°	2080.7	2036.5	2004.2	1934.5	1885.2	1847.8	1827.4	1813.8
55°	2240.5	2196.3	2123.2	2058.6	2017.8	1956.6	1949.8	1926.0
57.5°	2315.3	2283.0	2203.1	2157.2	2084.1	2021.2	2000.8	1953.2
60°	2323.7	2310.2	2225.2	2181.0	2073.9	2022.9	1997.4	1968.5
61°	2322.0	2305.1	2223.5	2169.1	2067.1	2016.1	1995.7	1970.2
62.5°	2315.3	2294.9	2204.8	2148.7	2053.5	2004.2	1987.2	1949.8
65°	2293.2	2237.1	2158.9	2107.9	2004.2	1960.0	1919.2	1881.8
67.5°	2196.3	2090.9	2058.6	1994.0	1888.6	1839.3	1801.9	1769.6
70°	1988.9	1919.2	1885.2	1805.3	1720.3	1679.5	1637.0	1596.2
72.5°	1745.8	1699.9	1671.0	1574.1	1511.2	1470.4	1431.3	1392.2
75°	1473.8	1439.8	1387.1	1314.0	1257.9	1217.1	1181.4	1162.7
77.5°	1157.6	1135.5	1094.7	1021.6	991.0	955.3	919.6	890.7
80°	832.9	815.9	783.6	731.0	705.5	669.8	644.3	620.5
82.5°	518.5	504.9	486.2	447.1	436.9	414.8	391.0	374.0
85°	248.2	239.7	232.9	207.4	205.7	187.0	178.5	168.3
87.5°	64.6	62.9	59.5	51.0	49.3	44.2	40.8	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)