

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: P197742

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8103.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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

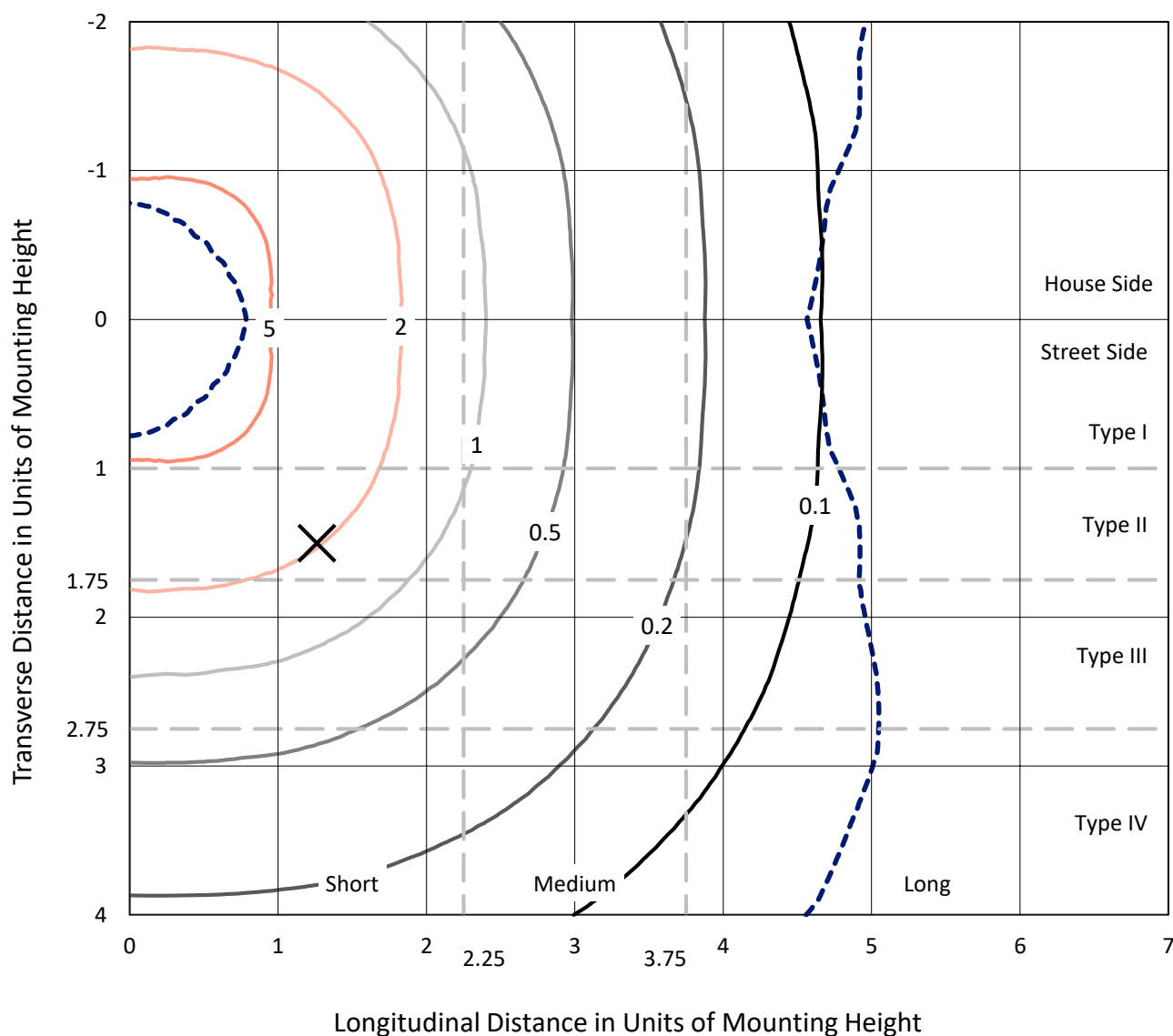


REPORT NUMBER: P197742

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

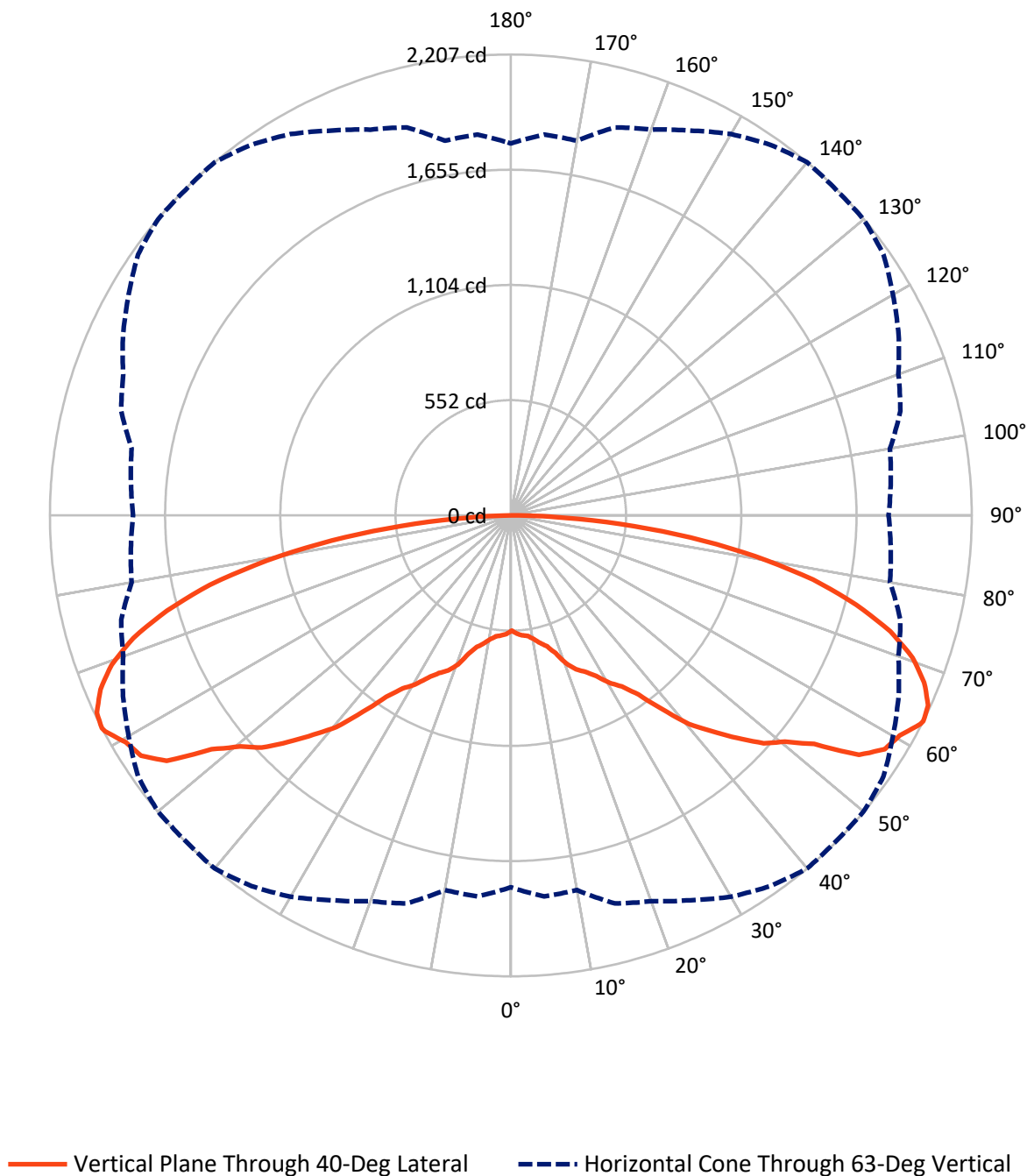


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197742

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

Luminous Intensity Polar Plot



REPORT NUMBER: P197742

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

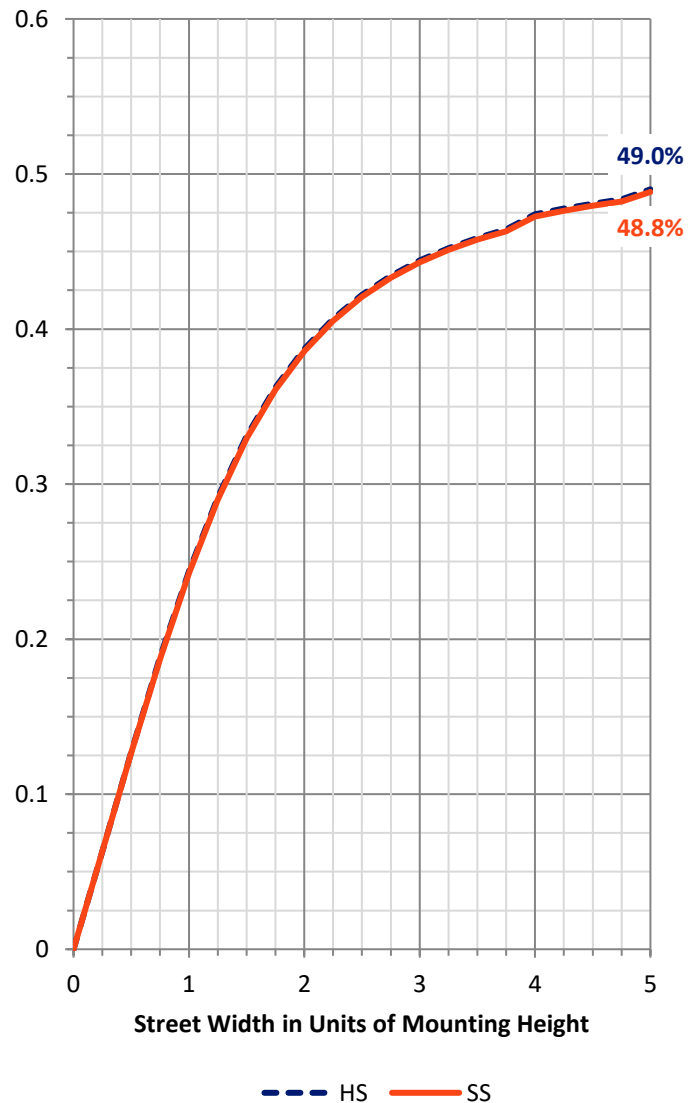
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4052.0	0.0	4052.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4052.0	0.0	4052.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8103.9	0.0	8103.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	0.7
10°-20°	189.3	2.3
20°-30°	384.9	4.7
30°-40°	663.4	8.2
40°-50°	1117.5	13.8
50°-60°	1645.5	20.3
60°-70°	1956.8	24.1
70°-80°	1584.1	19.5
80°-90°	506.8	6.3
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°	8103.9	100.0
0°-180°	8103.9	100.0

Coefficient of Utilization



REPORT NUMBER: P197742

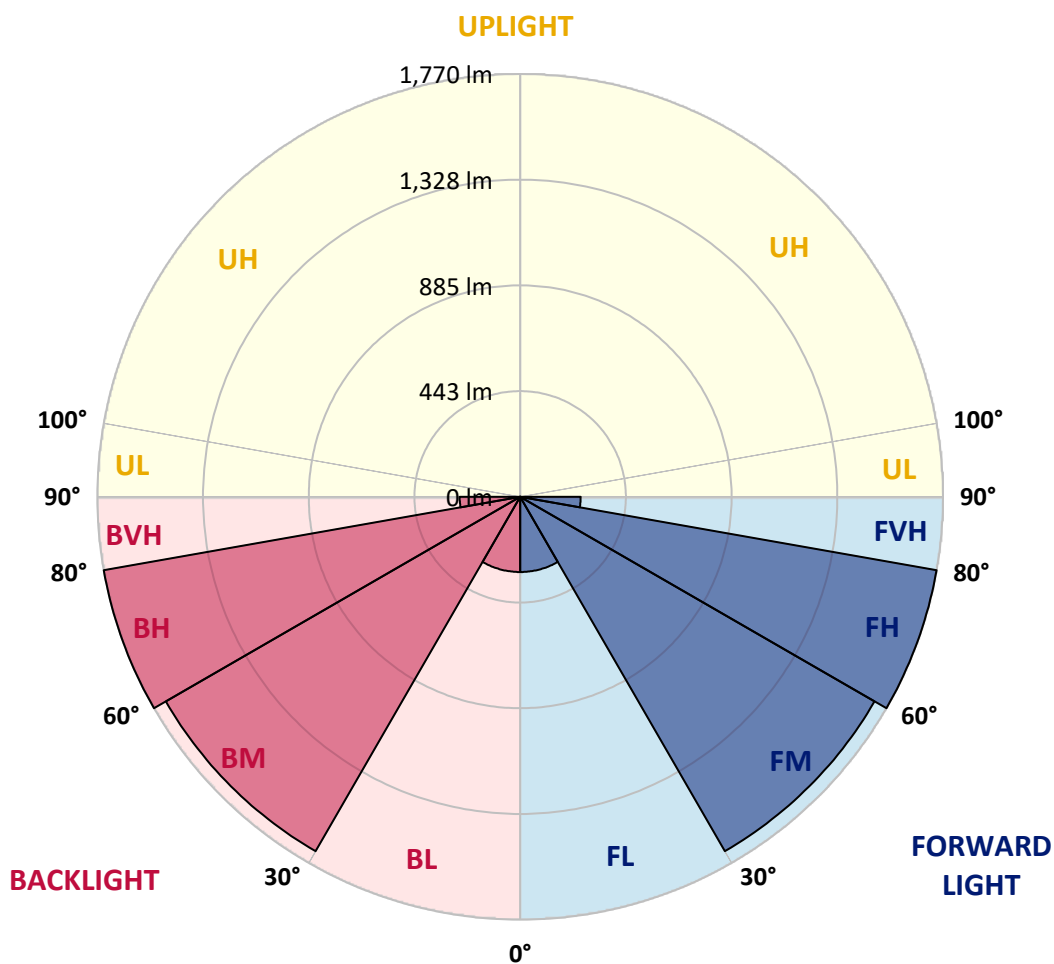
CATALOG NUMBER: TT-C5-LED-E1-WQ-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.0	3.9			
FM	(30°-60°)	1713.2	21.1			
FH	(60°-80°)	1770.4	21.8			G1/1800
FVH	(80°-90°)	253.4	3.1			G3/500
BL	(0°-30°)	315.0	3.9	B1/500		
BM	(30°-60°)	1713.2	21.1	B2/2500		
BH	(60°-80°)	1770.4	21.8	B3/2500		G1/1800
BVH	(80°-90°)	253.4	3.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



REPORT NUMBER: P197742

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7
2.5°	569.1	569.1	569.1	569.1	569.1	569.1	567.4	569.1	567.4	567.4	567.4
5°	580.1	580.1	580.1	580.1	578.3	578.3	576.8	576.8	576.8	575.2	576.8
7.5°	584.7	584.7	584.7	584.7	583.1	583.1	583.1	583.1	583.1	583.1	583.1
10°	595.7	595.7	597.2	598.8	601.8	601.8	601.8	603.6	601.8	601.8	601.8
12.5°	619.2	617.6	620.7	623.8	627.1	628.6	628.6	628.6	627.1	627.1	628.6
15°	652.1	648.9	650.6	652.1	653.7	655.2	655.2	653.7	650.6	650.6	650.6
17.5°	694.3	689.7	688.2	686.6	686.6	689.7	692.8	691.3	692.8	691.3	692.8
20°	744.6	741.4	741.4	741.4	742.9	749.3	755.6	758.7	757.2	753.9	758.7
22.5°	777.4	779.1	786.8	785.3	783.8	790.1	797.8	804.2	800.9	796.3	799.4
25°	813.6	813.6	824.4	829.2	824.4	824.4	827.7	832.3	829.2	826.1	829.2
27.5°	854.3	854.3	858.9	863.7	860.6	860.6	865.3	873.2	871.5	869.9	871.5
30°	902.9	896.7	891.9	899.8	907.7	909.2	913.8	926.4	929.5	927.9	931.2
32.5°	948.3	938.9	942.2	946.8	963.9	970.3	968.8	978.2	976.5	971.8	978.2
35°	992.3	1003.2	1009.4	1018.9	1025.2	1032.9	1032.9	1050.3	1053.4	1048.7	1053.4
37.5°	1076.9	1081.5	1098.8	1100.4	1108.3	1138.0	1141.2	1164.7	1177.3	1170.9	1172.5
40°	1192.9	1191.3	1203.9	1222.6	1238.4	1275.9	1286.9	1302.5	1313.5	1308.9	1315.1
42.5°	1286.9	1274.4	1283.8	1324.5	1341.8	1370.0	1384.1	1392.0	1412.4	1406.0	1413.9
45°	1354.4	1359.0	1371.5	1412.4	1423.4	1446.9	1479.6	1493.9	1520.5	1512.6	1517.4
47.5°	1420.1	1442.1	1453.0	1471.9	1506.4	1537.7	1578.5	1592.6	1630.2	1627.1	1622.4
50°	1506.4	1523.6	1536.1	1550.2	1597.4	1649.0	1683.5	1689.7	1702.2	1693.0	1708.6
52.5°	1598.9	1597.4	1608.2	1647.5	1713.2	1733.6	1763.5	1791.6	1818.2	1827.7	1818.2
55°	1721.1	1682.0	1727.5	1783.7	1812.1	1860.6	1932.7	1972.0	2023.7	2031.6	2015.8
57.5°	1771.2	1771.2	1818.2	1851.2	1903.0	1989.2	2066.0	2084.8	2111.4	2097.3	2113.1
60°	1765.0	1824.6	1824.6	1882.6	1967.2	2044.1	2072.2	2103.6	2139.7	2138.1	2138.1
62.5°	1772.9	1830.8	1815.1	1915.5	1967.2	2029.8	2092.6	2150.7	2200.8	2199.2	2197.7
63°	1780.7	1830.8	1821.5	1923.3	1965.7	2033.1	2108.3	2166.3	2207.1	2203.9	2205.4
65°	1804.2	1790.1	1846.6	1910.7	1959.3	2059.7	2122.3	2167.8	2196.1	2194.6	2194.6
67.5°	1760.2	1727.5	1807.3	1832.5	1925.0	2014.2	2062.8	2114.6	2134.9	2134.9	2131.8
70°	1625.5	1639.6	1694.5	1735.2	1829.2	1909.2	1950.0	2015.8	2040.8	2040.8	2039.3
72.5°	1489.1	1512.6	1550.2	1608.2	1697.6	1760.2	1809.0	1868.5	1901.3	1899.8	1899.8
75°	1315.1	1337.0	1381.0	1435.9	1514.1	1575.4	1614.5	1671.0	1708.6	1722.7	1707.0
77.5°	1119.3	1125.4	1166.3	1222.6	1291.6	1333.9	1393.5	1448.4	1479.6	1478.1	1473.5
80°	880.9	888.8	923.3	987.5	1025.2	1075.3	1130.2	1159.9	1186.5	1186.5	1183.4
82.5°	608.2	625.4	659.9	702.2	741.4	785.3	815.2	844.9	866.8	865.3	860.6
85°	343.2	351.1	384.1	410.7	440.5	468.7	489.1	507.8	526.7	526.7	523.6
87.5°	103.5	92.5	111.4	122.2	138.0	152.0	161.5	180.2	192.7	178.6	178.6
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: P197742

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7
2.5°	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1
5°	576.8	578.3	578.3	580.1	580.1	580.1	580.1	580.1
7.5°	583.1	583.1	583.1	583.1	584.7	584.7	584.7	584.7
10°	601.8	603.6	601.8	601.8	598.8	597.2	597.2	597.2
12.5°	628.6	630.2	630.2	627.1	623.8	620.7	619.2	617.6
15°	653.7	658.3	655.2	653.7	650.6	652.1	652.1	653.7
17.5°	692.8	694.3	689.7	686.6	685.1	688.2	691.3	692.8
20°	760.2	757.2	747.7	744.6	741.4	741.4	744.6	744.6
22.5°	802.6	794.7	788.4	785.3	785.3	785.3	780.7	774.3
25°	832.3	827.7	822.9	826.1	829.2	824.4	813.6	811.9
27.5°	873.2	863.7	862.2	860.6	862.2	858.9	857.4	851.2
30°	926.4	913.8	910.7	907.7	898.2	895.0	898.2	902.9
32.5°	976.5	968.8	971.8	965.7	948.3	942.2	945.2	943.7
35°	1048.7	1034.5	1034.5	1022.0	1017.3	1015.8	1003.2	992.3
37.5°	1163.0	1144.3	1139.5	1111.4	1098.8	1101.9	1084.8	1072.2
40°	1302.5	1288.5	1275.9	1244.5	1227.4	1205.4	1194.4	1194.4
42.5°	1395.0	1385.6	1368.4	1346.5	1327.6	1290.0	1275.9	1283.8
45°	1497.0	1484.5	1448.4	1426.4	1409.1	1382.5	1366.9	1351.1
47.5°	1600.5	1583.1	1540.9	1512.6	1471.9	1464.0	1446.9	1424.9
50°	1691.4	1685.1	1655.2	1608.2	1556.5	1544.0	1528.4	1508.0
52.5°	1802.6	1765.0	1740.0	1719.6	1661.6	1620.9	1598.9	1608.2
55°	1984.5	1937.5	1873.2	1809.0	1796.4	1747.7	1693.0	1722.7
57.5°	2089.6	2062.8	2014.2	1912.3	1862.2	1829.2	1793.2	1766.6
60°	2114.6	2066.0	2055.1	1978.2	1898.2	1829.2	1843.5	1780.7
62.5°	2163.2	2097.3	2036.2	1975.1	1926.5	1832.5	1829.2	1796.4
63°	2178.8	2113.1	2048.7	1975.1	1931.2	1843.5	1826.1	1809.0
65°	2175.7	2119.2	2070.7	1975.1	1909.2	1874.7	1790.1	1829.2
67.5°	2116.2	2069.1	2012.7	1946.8	1837.1	1810.5	1751.0	1758.7
70°	2020.6	1959.3	1906.1	1845.0	1757.1	1696.1	1660.0	1630.2
72.5°	1871.6	1816.7	1760.2	1703.9	1625.5	1551.9	1526.7	1493.9
75°	1674.1	1620.9	1569.1	1515.9	1442.1	1376.3	1349.6	1326.1
77.5°	1448.4	1402.9	1329.3	1279.0	1236.8	1166.3	1141.2	1116.0
80°	1155.3	1133.3	1080.0	1014.2	992.3	923.3	904.4	871.5
82.5°	840.2	818.3	775.9	730.4	703.8	667.7	636.3	614.5
85°	512.6	489.1	467.1	426.3	410.7	384.1	359.0	346.5
87.5°	185.0	166.1	149.0	130.1	120.6	101.9	98.7	89.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)