

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: STREETWORKS

Report Number: P157016

Luminaire Tested: **UTLD-F02-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157016
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33667)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F02-LED-E-U-RW-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4447.9 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 55
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: 28.75 FT

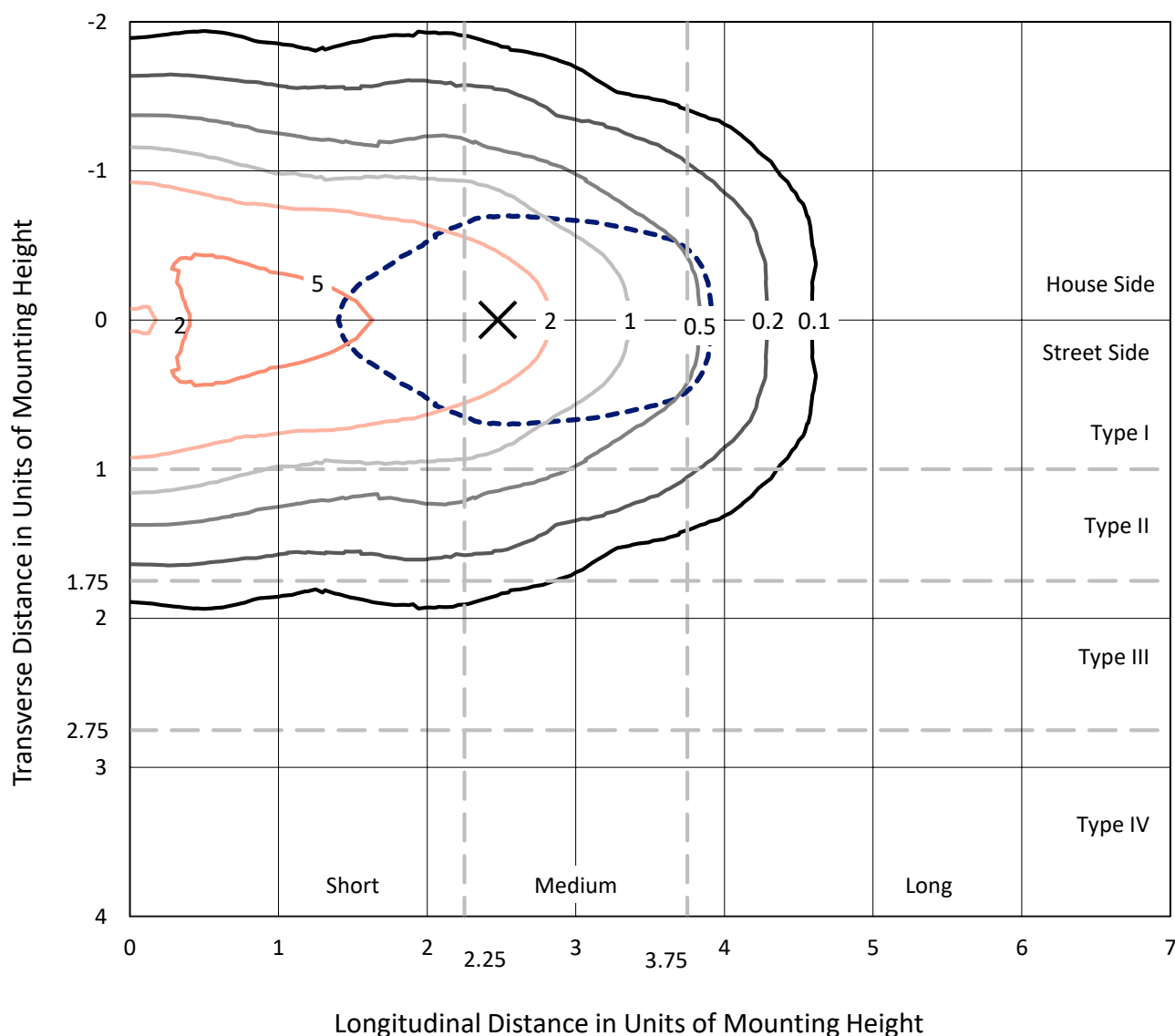


REPORT NUMBER: P157016

CATALOG NUMBER: UTLD-F02-LED-E-U-RW-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

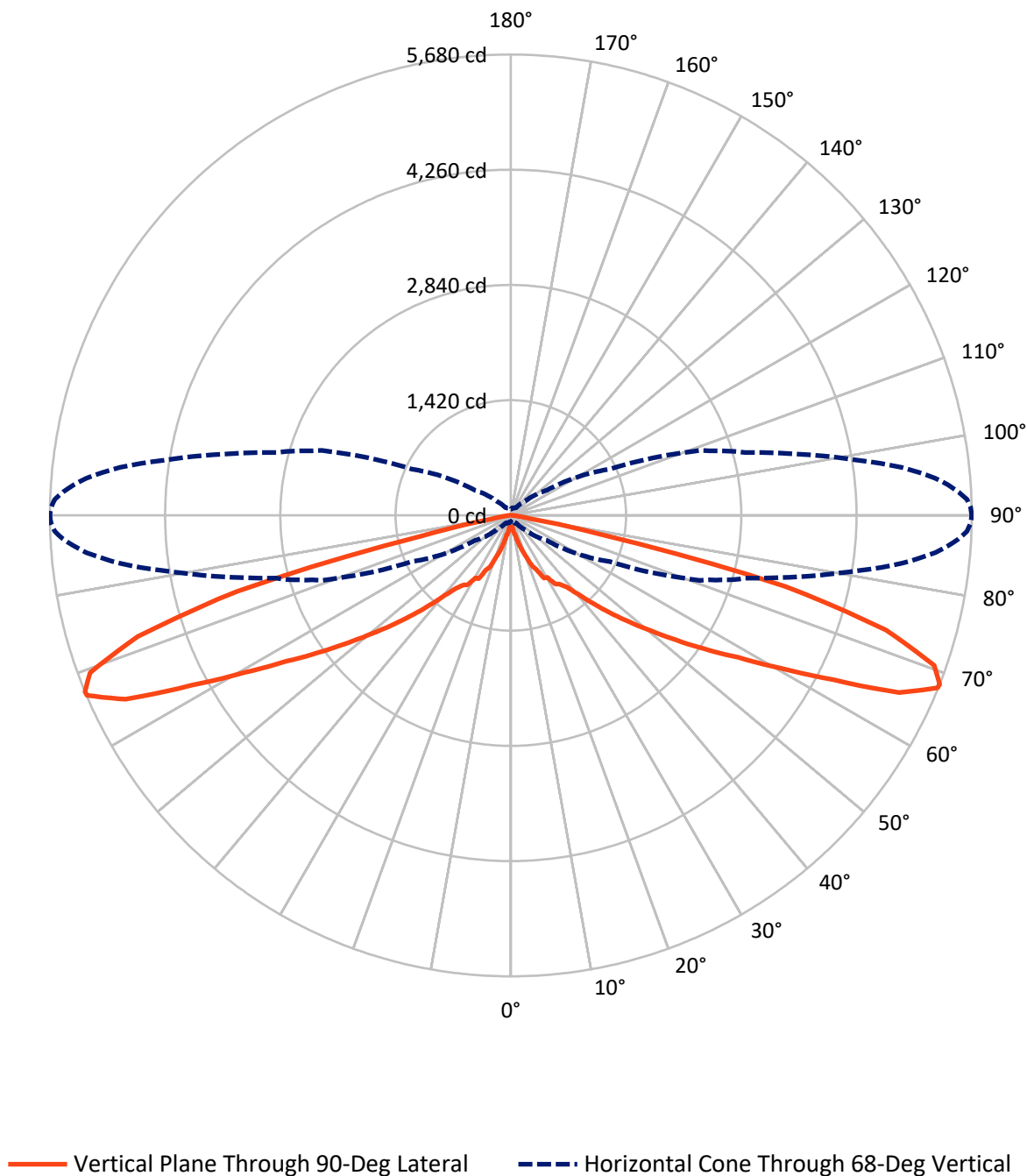


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P157016

CATALOG NUMBER: UTLD-F02-LED-E-U-RW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P157016

CATALOG NUMBER: UTLD-F02-LED-E-U-RW-7050

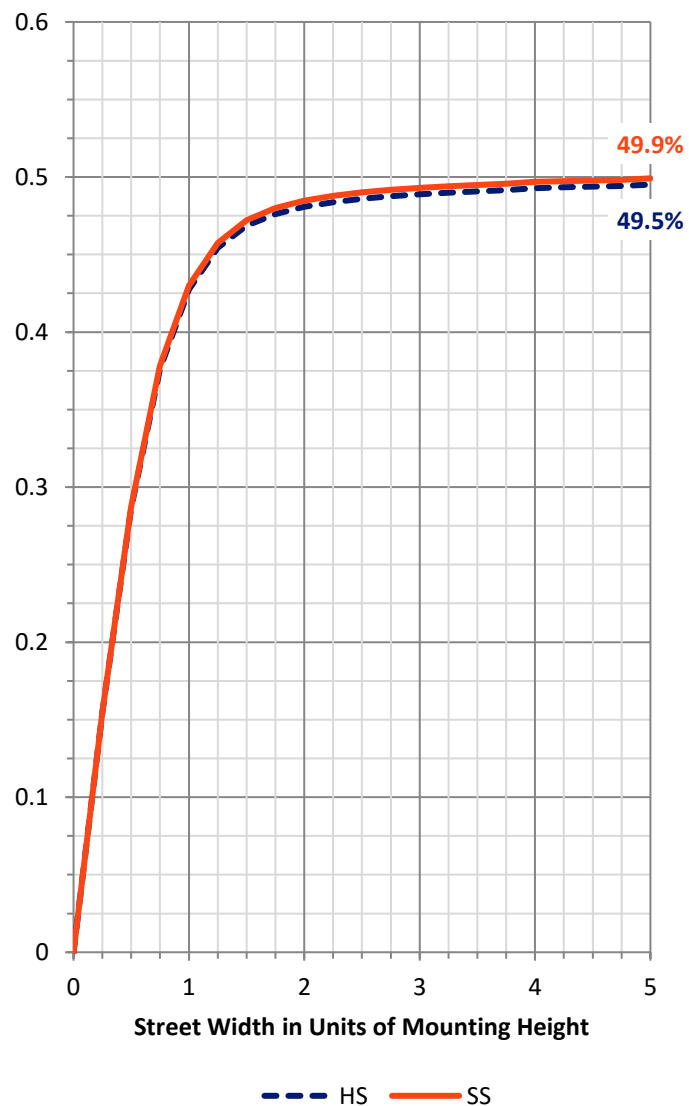
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2223.9	0.0	2223.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2223.9	0.0	2223.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4447.9	0.0	4447.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.4
10°-20°	116.4	2.6
20°-30°	318.3	7.2
30°-40°	524.0	11.8
40°-50°	703.7	15.8
50°-60°	884.1	19.9
60°-70°	1136.0	25.5
70°-80°	666.0	15.0
80°-90°	79.5	1.8
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°	4447.9	100.0
0°-180°	4447.9	100.0

Coefficient of Utilization



REPORT NUMBER: P157016

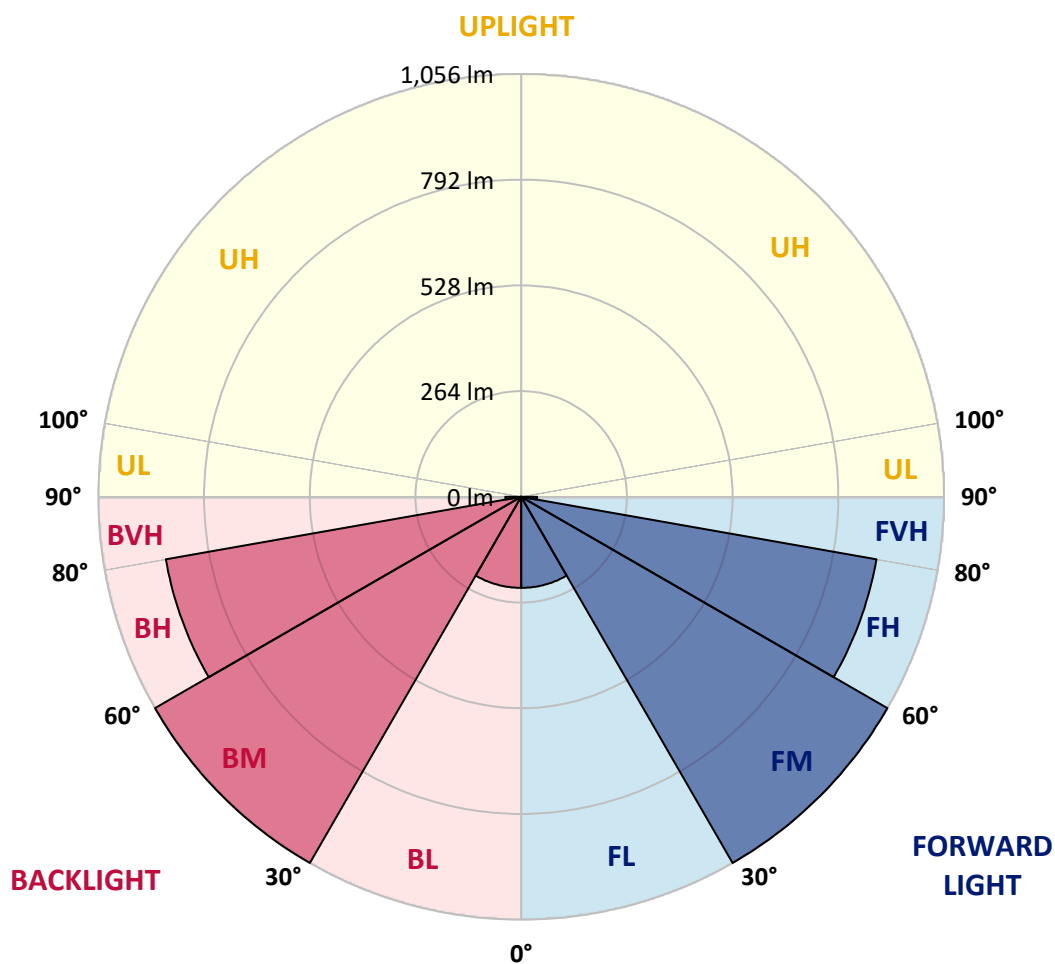
CATALOG NUMBER: UTLD-F02-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.3	5.1			
FM	(30°-60°)	1055.9	23.7			
FH	(60°-80°)	901.0	20.3			G1/1800
FVH	(80°-90°)	39.8	0.9			G1/100
BL	(0°-30°)	227.3	5.1	B1/500		
BM	(30°-60°)	1055.9	23.7	B2/2500		
BH	(60°-80°)	901.0	20.3	B2/1000		G1/1800
BVH	(80°-90°)	39.8	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Medium





REPORT NUMBER: P157016

CATALOG NUMBER: UTLD-F02-LED-E-U-RW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	186.4	188.9	180.0	186.4	188.9	191.4	192.3	179.2	177.0	174.9	172.8
5°	173.6	177.9	174.1	175.4	180.4	216.0	211.4	183.4	184.0	184.6	185.2
7.5°	257.0	261.8	248.2	228.3	223.2	184.2	171.5	207.1	202.3	197.4	192.6
10°	286.7	278.6	278.7	277.8	271.9	233.0	243.2	255.8	264.6	273.4	282.2
12.5°	374.8	375.7	363.0	328.7	313.0	360.0	331.2	277.8	276.2	274.5	272.8
15°	424.0	419.3	385.4	381.2	454.5	411.2	378.2	422.2	414.5	406.8	399.1
17.5°	476.0	477.8	474.4	435.8	474.8	468.0	486.6	462.5	455.1	447.8	440.4
20°	515.4	516.8	513.8	541.7	541.2	552.8	516.7	565.8	574.0	582.1	590.2
22.5°	546.4	549.3	548.4	582.8	616.6	596.4	674.2	665.4	662.8	660.3	657.8
25°	595.9	596.4	571.4	601.0	656.1	692.9	732.3	795.0	801.9	808.9	815.8
27.5°	608.2	610.8	585.3	637.0	660.3	760.2	887.3	869.1	862.7	856.2	849.8
30°	604.0	609.5	624.7	650.6	708.6	799.2	893.2	960.6	956.0	951.5	946.9
32.5°	617.9	622.2	607.3	636.6	708.6	819.6	956.4	989.4	1000.2	1010.9	1021.6
35°	598.4	602.6	596.8	625.2	692.9	791.6	948.7	1095.3	1091.9	1088.5	1085.1
37.5°	587.4	587.0	585.3	613.7	681.0	784.0	989.4	1121.9	1126.6	1131.3	1135.9
40°	559.1	562.9	562.0	587.8	650.6	772.5	975.4	1158.4	1174.9	1191.4	1207.9
42.5°	500.6	503.6	512.9	549.0	615.4	745.8	964.0	1210.4	1231.6	1252.8	1274.0
45°	446.4	446.8	459.6	495.2	563.7	708.6	965.2	1274.4	1297.0	1319.5	1342.0
47.5°	391.4	393.0	407.0	443.0	504.4	657.8	960.2	1334.2	1363.5	1392.8	1422.1
50°	337.2	340.5	357.9	394.3	450.6	593.4	936.0	1401.1	1437.6	1474.1	1510.6
52.5°	280.8	284.2	304.6	345.2	403.2	533.7	881.8	1463.7	1511.6	1559.6	1607.6
55°	218.6	224.5	248.2	288.0	354.5	481.2	797.1	1520.5	1581.6	1642.7	1703.7
57.5°	160.1	163.4	187.2	228.7	301.2	432.8	704.8	1534.5	1611.8	1689.2	1766.5
60°	114.4	118.2	139.8	172.0	240.2	384.2	629.0	1497.6	1596.8	1696.0	1795.2
62.5°	94.0	97.0	116.0	132.2	183.9	331.6	576.4	1445.1	1575.3	1705.5	1835.7
65°	85.2	87.2	106.3	112.2	141.5	282.5	551.4	1429.0	1591.6	1754.3	1916.9
67.5°	77.9	81.3	98.7	101.6	120.2	255.4	543.0	1387.1	1566.7	1746.2	1925.8
68°	76.6	80.0	97.0	100.0	118.2	252.0	537.4	1350.7	1530.9	1711.0	1891.2
70°	72.4	75.4	90.6	93.6	115.2	235.4	477.4	1144.4	1312.5	1480.5	1648.6
72.5°	67.4	69.0	83.0	86.4	103.8	171.5	347.8	769.6	911.0	1052.3	1193.7
75°	58.8	61.8	75.0	79.6	80.1	103.4	219.8	451.1	545.0	638.8	732.7
77.5°	50.8	53.8	65.2	79.2	66.1	72.0	141.0	268.1	310.4	352.8	395.2
80°	44.0	47.4	58.0	81.3	57.2	59.7	111.0	219.0	239.5	260.0	280.5
82.5°	33.8	37.7	50.8	73.7	47.4	48.2	89.8	208.4	223.8	239.2	254.6
85°	22.0	24.5	40.2	56.4	36.8	30.4	63.6	170.7	182.0	193.4	204.8
87.5°	10.6	16.0	28.0	29.2	22.5	16.5	35.2	103.8	112.3	120.9	129.4
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: P157016

CATALOG NUMBER: UTLD-F02-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	170.7	168.6	167.8	164.4	161.4	159.2	157.2	155.0	152.4	150.4	150.4
5°	185.8	186.4	188.9	188.9	188.9	187.6	185.1	182.6	181.2	175.8	169.8
7.5°	187.8	183.0	173.2	172.0	175.4	180.0	181.3	183.0	184.2	183.4	182.5
10°	291.0	299.8	300.7	297.8	295.6	287.2	280.0	266.0	267.2	274.4	277.0
12.5°	271.0	269.4	274.9	290.2	306.6	308.8	310.4	308.4	301.6	289.7	277.8
15°	391.4	383.7	383.7	382.9	380.3	376.6	382.8	396.8	401.9	401.1	399.8
17.5°	433.0	425.6	420.6	403.2	392.2	388.4	385.4	387.5	391.4	407.5	418.9
20°	598.4	606.5	616.2	609.0	604.8	593.3	578.6	574.3	571.0	574.8	578.6
22.5°	655.2	652.7	657.3	633.6	678.1	669.2	677.2	692.5	683.2	676.4	670.0
25°	822.8	829.8	822.5	820.0	806.4	796.2	802.6	800.0	780.2	768.8	771.2
27.5°	843.3	836.9	826.8	822.0	820.0	836.0	851.4	828.0	874.2	862.8	881.4
30°	942.3	937.8	923.3	919.9	931.4	924.6	908.4	909.8	912.8	912.3	903.0
32.5°	1032.4	1043.2	1034.2	1058.4	1049.1	1029.6	1032.2	1044.8	1041.4	1027.1	1021.6
35°	1081.7	1078.4	1097.8	1099.5	1079.2	1078.0	1087.6	1086.4	1074.9	1077.0	1077.5
37.5°	1140.6	1145.2	1163.8	1144.8	1147.0	1158.4	1159.6	1147.4	1148.6	1153.7	1158.8
40°	1224.4	1240.9	1227.8	1225.7	1243.5	1263.0	1251.2	1252.0	1262.1	1274.8	1263.4
42.5°	1295.2	1316.4	1311.7	1334.2	1361.2	1372.3	1379.8	1400.6	1422.6	1415.1	1442.2
45°	1364.5	1387.1	1407.8	1450.6	1478.6	1487.5	1530.2	1562.4	1573.4	1592.1	1627.2
47.5°	1451.4	1480.7	1524.7	1570.4	1587.0	1633.2	1683.6	1713.6	1734.4	1791.2	1807.6
50°	1547.1	1583.6	1641.6	1680.2	1712.4	1770.8	1829.2	1856.8	1924.2	1964.0	1997.4
52.5°	1655.5	1703.4	1761.0	1786.5	1842.0	1921.6	1958.0	2007.6	2082.6	2131.6	2211.7
55°	1764.8	1825.9	1865.6	1911.0	1976.2	2046.5	2081.7	2175.7	2230.4	2312.5	2420.6
57.5°	1843.8	1921.2	1952.5	2027.0	2103.2	2143.6	2221.4	2306.6	2373.1	2507.4	2617.0
60°	1894.4	1993.6	2057.6	2144.0	2217.6	2269.7	2376.9	2456.9	2574.6	2726.3	2857.2
62.5°	1965.9	2096.1	2212.1	2328.6	2371.4	2478.1	2587.0	2683.2	2871.5	3038.9	3206.2
65°	2079.6	2242.2	2409.5	2534.8	2620.0	2761.5	2876.2	3033.8	3245.6	3457.4	3650.0
67.5°	2105.4	2285.0	2489.2	2602.6	2742.0	2888.5	3006.7	3216.8	3427.7	3651.4	3880.8
68°	2071.3	2251.5	2459.5	2574.2	2720.4	2867.4	2989.8	3197.7	3408.6	3631.0	3865.2
70°	1816.6	1984.7	2177.0	2316.8	2485.8	2601.4	2760.6	2955.0	3154.1	3386.6	3623.8
72.5°	1335.1	1476.4	1659.8	1797.1	1977.5	2075.8	2234.2	2401.4	2598.4	2828.0	3064.3
75°	826.5	920.4	1065.6	1188.8	1315.5	1409.5	1548.4	1701.0	1850.0	2032.1	2239.2
77.5°	437.5	479.8	565.4	626.4	692.0	736.2	781.0	870.4	911.4	960.6	1026.2
80°	301.0	321.5	350.7	367.2	359.6	329.1	287.2	272.8	259.6	241.8	225.4
82.5°	270.0	285.5	304.5	320.2	321.0	292.2	239.7	201.2	174.1	147.8	127.4
85°	216.1	227.4	239.7	252.4	264.7	246.5	208.4	163.5	126.2	101.2	86.8
87.5°	138.0	146.6	154.6	169.5	175.8	170.7	151.6	120.2	89.4	68.6	57.2
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: P157016

CATALOG NUMBER: UTLD-F02-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	146.1	146.1	145.2	144.4	143.1	142.3	141.9	142.4	141.9	141.5	141.5
5°	165.2	159.6	154.6	151.6	148.2	146.6	148.2	144.9	143.6	142.8	143.2
7.5°	182.5	181.7	180.0	172.4	161.0	150.8	146.1	144.4	144.4	144.0	144.0
10°	277.8	275.3	271.1	266.4	262.6	251.2	237.6	232.6	229.2	228.8	227.9
12.5°	280.0	285.0	286.8	286.8	283.0	280.8	267.7	253.3	245.2	244.8	244.0
15°	389.6	372.2	376.1	382.0	381.2	380.8	381.6	364.2	352.8	351.1	350.7
17.5°	416.8	424.8	404.5	448.1	425.2	450.2	438.4	462.5	443.8	451.9	454.0
20°	590.0	587.8	584.9	576.4	575.2	582.4	590.0	583.6	565.4	555.7	549.8
22.5°	674.2	687.8	693.8	691.7	683.6	679.8	678.6	673.8	671.3	675.6	679.4
25°	775.9	770.0	776.8	776.3	769.2	763.6	772.6	778.0	777.2	755.6	740.3
27.5°	878.8	867.4	865.3	866.2	873.8	872.0	874.2	869.5	861.5	867.0	874.2
30°	893.6	889.0	895.4	888.2	890.7	886.9	880.6	875.9	895.4	892.4	885.2
32.5°	1019.4	1024.1	1010.1	1006.8	1006.4	993.6	994.4	1004.2	999.6	1005.9	1007.2
35°	1079.2	1066.4	1062.6	1054.6	1042.4	1053.8	1049.6	1048.2	1047.4	1046.6	1041.1
37.5°	1148.2	1157.6	1146.6	1133.8	1147.4	1140.6	1135.9	1134.7	1132.6	1125.0	1123.2
40°	1273.2	1283.3	1274.4	1290.9	1288.0	1291.8	1283.3	1279.9	1271.5	1275.7	1272.3
42.5°	1445.6	1448.5	1474.4	1492.2	1491.3	1491.3	1486.2	1485.8	1468.8	1470.6	1478.1
45°	1633.2	1668.8	1691.2	1712.4	1720.0	1722.6	1713.2	1722.5	1709.4	1694.2	1708.6
47.5°	1843.6	1891.5	1921.6	1943.2	1953.8	1952.1	1961.0	1956.7	1950.4	1961.0	1957.6
50°	2075.8	2117.7	2162.2	2180.4	2186.3	2200.7	2216.8	2230.0	2235.9	2224.0	2232.0
52.5°	2285.4	2351.5	2403.1	2430.2	2456.5	2476.4	2504.4	2530.2	2540.0	2548.8	2549.7
55°	2511.6	2598.8	2657.7	2704.7	2748.4	2786.0	2828.4	2861.8	2889.0	2908.0	2910.6
57.5°	2726.3	2823.7	2900.4	2990.2	3043.6	3116.4	3171.4	3225.6	3276.5	3288.4	3297.7
60°	2996.5	3116.4	3241.3	3330.3	3436.6	3550.5	3625.0	3701.7	3731.8	3788.2	3819.5
62.5°	3368.4	3508.2	3683.9	3818.6	3966.0	4107.4	4234.6	4329.4	4375.2	4436.6	4459.0
65°	3858.0	4077.8	4260.4	4475.5	4659.3	4830.8	4982.0	5115.5	5179.8	5252.3	5260.3
67.5°	4110.0	4348.9	4604.7	4850.0	5048.2	5247.2	5393.4	5520.0	5620.4	5658.9	5672.9
68°	4100.3	4340.4	4607.2	4853.7	5057.0	5251.5	5398.8	5526.8	5623.8	5666.1	5679.6
70°	3893.2	4124.4	4432.4	4670.8	4881.7	5091.8	5232.0	5359.5	5442.9	5490.8	5534.8
72.5°	3301.9	3575.1	3844.4	4068.5	4295.1	4468.3	4575.0	4716.5	4757.6	4814.8	4832.6
75°	2431.1	2667.4	2857.2	2997.0	3159.6	3278.6	3372.6	3372.6	3426.8	3436.2	3496.7
77.5°	1121.2	1136.4	1166.8	1144.8	1164.4	1197.0	1157.1	1111.8	1141.1	1063.5	1132.5
80°	232.1	218.6	225.3	217.7	219.4	222.8	229.2	225.7	225.3	221.9	226.2
82.5°	116.0	114.8	115.2	115.6	115.6	115.6	116.0	116.0	116.8	115.2	115.2
85°	78.4	75.0	75.4	73.7	72.8	72.4	69.9	67.4	68.6	67.8	64.4
87.5°	50.8	47.0	45.4	43.2	41.1	39.4	37.2	34.8	31.8	30.9	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)