

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: P157145

Luminaire Tested: **UTLD-F03-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157145
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33661)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F03-LED-E-U-T2
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6631.7 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 78.3
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

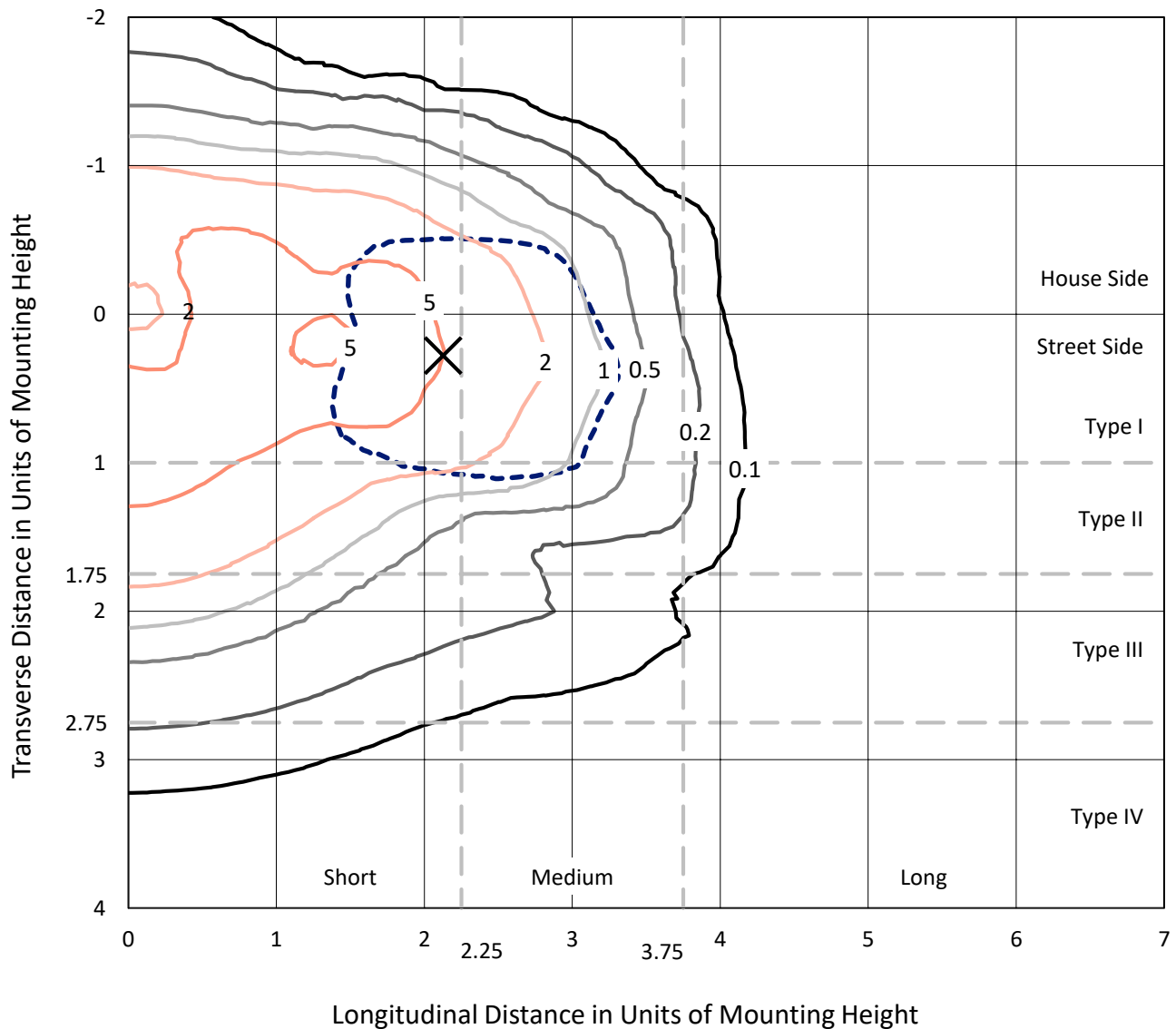


REPORT NUMBER: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

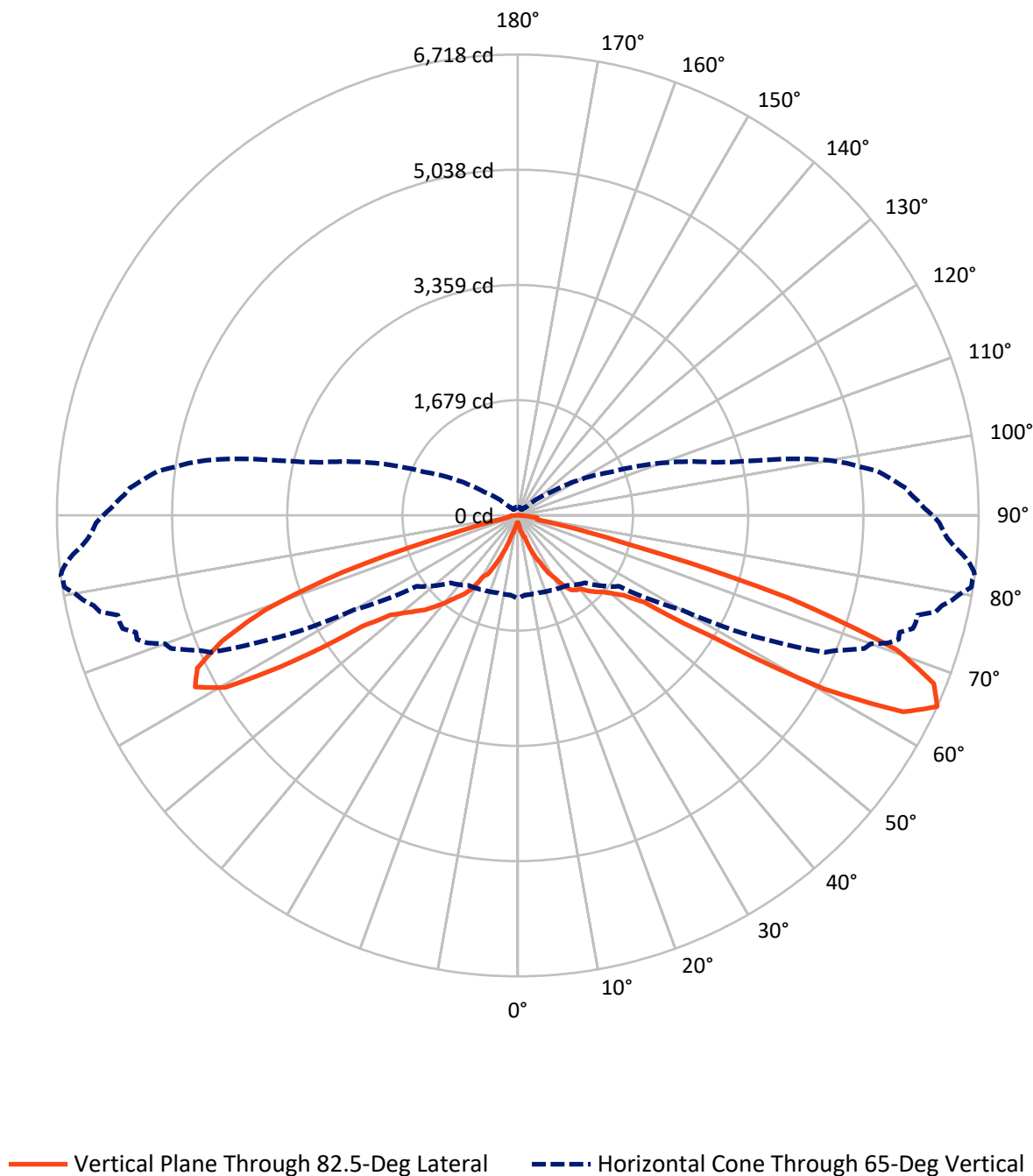


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

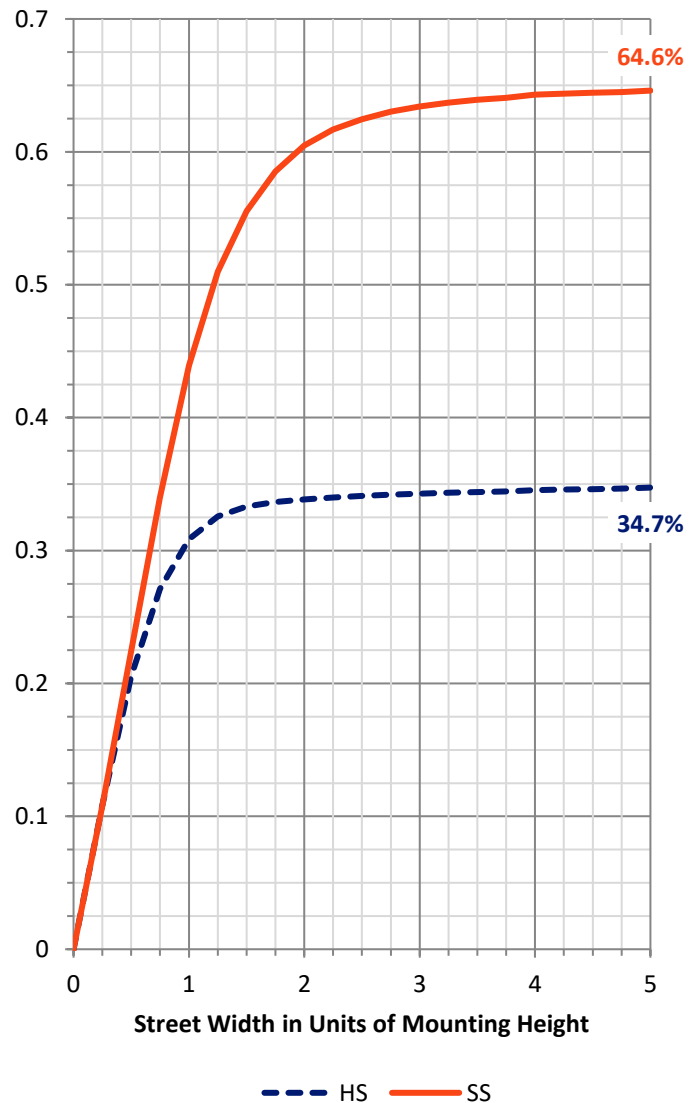
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2337.1	0.0	2337.1
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	4294.7	0.0	4294.7
	% Fixture	64.8	0.0	64.8
Total	Lumens	6631.7	0.0	6631.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.2
10°-20°	97.8	1.5
20°-30°	327.8	4.9
30°-40°	723.3	10.9
40°-50°	1143.2	17.2
50°-60°	1621.7	24.5
60°-70°	1929.4	29.1
70°-80°	652.4	9.8
80°-90°	121.0	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°	6631.7	100.0
0°-180°	6631.7	100.0

Coefficient of Utilization



REPORT NUMBER: P157145

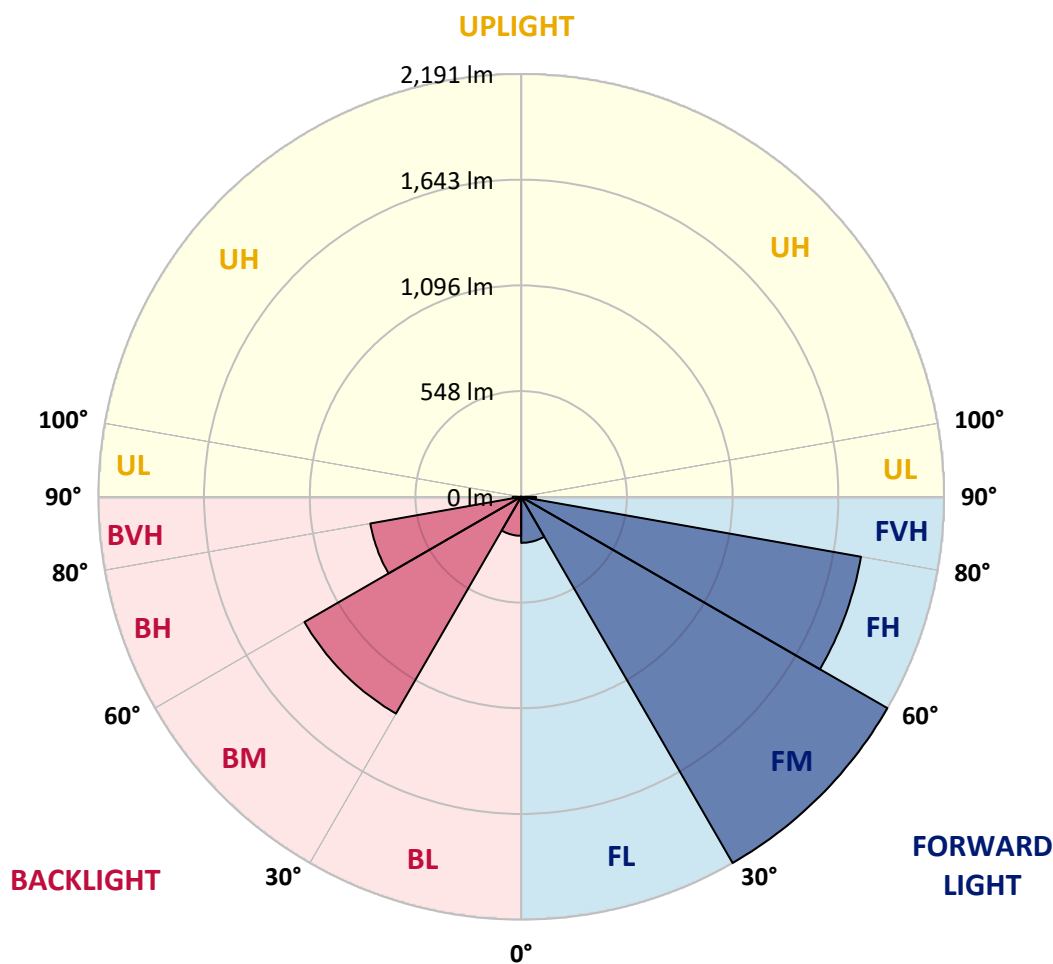
CATALOG NUMBER: UTLD-F03-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.6	3.6			
FM	(30°-60°)	2191.2	33.0			
FH	(60°-80°)	1788.1	27.0			G1/1800
FVH	(80°-90°)	76.7	1.2			G1/100
BL	(0°-30°)	202.1	3.0	B1/500		
BM	(30°-60°)	1297.0	19.6	B2/2500		
BH	(60°-80°)	793.8	12.0	B2/1000		G2/1000
BVH	(80°-90°)	44.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	151.1	151.1	151.1	158.5	177.1	177.1	175.8	177.1	174.6	172.1	168.4
5°	157.3	161.0	158.5	157.3	154.8	153.5	152.3	151.1	151.1	153.5	159.7
7.5°	240.2	241.5	240.2	242.7	235.3	169.6	158.5	157.3	161.0	162.2	159.7
10°	286.0	267.5	261.3	256.3	250.1	239.0	237.8	231.6	229.1	227.8	221.7
12.5°	365.3	365.3	362.8	346.7	330.6	322.0	329.4	312.0	309.6	302.1	279.9
15°	481.7	480.5	398.7	380.2	427.2	406.2	343.0	362.8	382.6	380.2	381.4
17.5°	515.1	515.1	508.9	489.1	460.6	432.2	464.4	406.2	404.9	406.2	412.3
20°	639.0	639.0	614.2	570.9	544.8	516.4	497.8	543.6	528.7	517.6	508.9
22.5°	643.9	643.9	626.6	660.0	614.2	586.9	636.5	646.4	658.8	660.0	646.4
25°	744.2	745.4	728.1	678.6	686.0	672.4	699.6	766.5	766.5	755.4	787.6
27.5°	849.5	850.7	743.0	764.0	739.3	788.8	861.8	895.3	870.5	879.2	881.7
30°	899.0	900.2	894.0	886.6	856.9	876.7	913.9	944.8	960.9	1020.3	1001.8
32.5°	1109.5	1110.7	1071.1	979.5	996.8	1034.0	1050.1	1057.5	1076.1	1086.0	1086.0
35°	1359.6	1355.9	1284.1	1203.6	1151.6	1144.2	1164.0	1227.1	1259.3	1228.4	1242.0
37.5°	1560.2	1542.9	1462.4	1410.4	1354.7	1339.8	1355.9	1347.3	1349.7	1310.1	1310.1
40°	1698.9	1700.2	1655.6	1611.0	1526.8	1552.8	1508.2	1495.9	1462.4	1455.0	1422.8
42.5°	1845.0	1851.2	1794.3	1738.6	1659.3	1729.9	1690.3	1671.7	1597.4	1618.4	1577.6
45°	1997.4	2002.3	1936.7	1859.9	1790.6	1898.3	1889.6	1858.7	1820.3	1824.0	1780.7
47.5°	2110.0	2119.9	2045.7	1955.3	1908.2	2035.7	2079.1	2076.6	2071.7	2037.0	2019.6
50°	2175.7	2181.9	2100.1	2033.3	1975.1	2138.5	2274.7	2297.0	2336.6	2268.5	2314.4
52.5°	2196.7	2200.4	2118.7	2045.7	1989.9	2195.5	2423.3	2545.9	2574.4	2562.0	2633.8
55°	2138.5	2143.5	2082.8	2017.2	1967.6	2204.2	2542.2	2781.2	2798.5	2834.4	2978.1
57.5°	2043.2	2040.7	2028.3	1959.0	1954.0	2196.7	2641.3	3080.9	3090.8	3265.4	3522.9
60°	1920.6	1925.5	1919.3	1883.4	1905.7	2117.5	2620.2	3249.3	3364.4	3633.1	4040.5
62.5°	1728.6	1737.3	1711.3	1661.8	1679.1	1843.8	2372.6	3171.3	3440.0	3789.2	4284.5
65°	1208.6	1165.2	1167.7	1197.4	1248.2	1389.4	1802.9	2746.5	3170.0	3577.4	4230.0
67.5°	695.9	708.3	707.1	736.8	798.7	910.1	1152.8	1838.9	2221.5	2694.5	3514.3
70°	534.9	534.9	552.3	591.9	630.3	759.1	828.4	995.6	1171.4	1489.7	2250.0
72.5°	402.4	401.2	417.3	454.5	531.2	694.7	969.6	688.5	712.0	773.9	1217.2
75°	234.0	227.8	234.0	260.0	324.4	518.8	980.7	766.5	731.8	687.2	765.3
77.5°	121.4	121.4	127.5	133.7	165.9	266.2	707.1	936.1	906.4	830.9	780.1
80°	69.3	71.8	76.8	76.8	80.5	110.2	307.1	916.3	1011.7	1035.2	1015.4
82.5°	34.7	39.6	54.5	54.5	53.2	55.7	115.2	537.4	731.8	907.7	1223.4
85°	19.8	21.1	35.9	39.6	38.4	33.4	53.2	240.2	322.0	468.1	699.6
87.5°	7.4	11.1	17.3	19.8	22.3	17.3	31.0	68.1	91.6	126.3	154.8
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: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	168.4	162.2	164.7	158.5	147.4	142.4	141.2	139.9	138.7	131.3	131.3
5°	164.7	165.9	169.6	170.9	170.9	172.1	174.6	173.4	174.6	172.1	170.9
7.5°	157.3	153.5	149.8	147.4	147.4	147.4	147.4	148.6	153.5	161.0	164.7
10°	220.4	220.4	221.7	219.2	222.9	221.7	221.7	220.4	220.4	221.7	221.7
12.5°	245.2	237.8	236.5	234.0	235.3	234.0	235.3	241.5	240.2	241.5	239.0
15°	388.8	387.6	386.3	380.2	360.3	343.0	339.3	336.8	323.2	318.2	315.8
17.5°	411.1	404.9	411.1	408.6	402.4	396.3	391.3	381.4	352.9	352.9	349.2
20°	517.6	532.5	537.4	564.7	560.9	570.9	570.9	567.1	568.4	564.7	549.8
22.5°	629.0	614.2	605.5	619.1	621.6	615.4	629.0	626.6	657.5	642.7	684.8
25°	791.3	823.5	843.3	824.7	816.0	819.7	830.9	817.3	824.7	819.7	822.2
27.5°	882.9	899.0	887.9	886.6	891.6	895.3	879.2	879.2	877.9	908.9	938.6
30°	1027.8	1014.2	1014.2	1021.6	1032.7	1032.7	1019.1	1015.4	1029.0	1016.6	1031.5
32.5°	1082.3	1074.8	1100.8	1186.3	1190.0	1172.7	1173.9	1190.0	1191.2	1208.6	1211.0
35°	1227.1	1248.2	1263.1	1266.8	1251.9	1250.7	1266.8	1275.4	1292.8	1294.0	1308.9
37.5°	1325.0	1333.6	1334.9	1329.9	1307.6	1322.5	1331.2	1342.3	1342.3	1354.7	1348.5
40°	1433.9	1437.7	1436.4	1396.8	1390.6	1407.9	1412.9	1409.2	1407.9	1410.4	1405.5
42.5°	1576.3	1568.9	1531.8	1502.0	1508.2	1508.2	1500.8	1483.5	1492.1	1473.6	1464.9
45°	1762.1	1743.5	1684.1	1658.1	1659.3	1635.8	1607.3	1603.6	1580.1	1557.8	1578.8
47.5°	2013.5	1955.3	1897.1	1873.5	1848.8	1811.6	1763.3	1744.7	1708.8	1689.0	1691.5
50°	2314.4	2227.7	2189.3	2194.2	2144.7	2075.4	2035.7	1978.8	1913.2	1907.0	1879.7
52.5°	2610.3	2563.3	2574.4	2570.7	2510.0	2445.6	2410.9	2366.4	2294.5	2262.4	2185.6
55°	2916.2	2939.7	3005.3	3002.8	2973.1	2964.5	2947.1	2908.7	2919.9	2838.2	2742.8
57.5°	3500.6	3618.3	3775.5	3836.2	3830.0	3854.8	3915.5	3981.1	4031.9	3967.5	3977.4
60°	4200.3	4447.9	4682.0	4786.0	4961.8	5043.5	5179.8	5356.8	5476.9	5387.8	5541.3
62.5°	4556.9	4912.3	5090.6	5212.0	5444.7	5561.1	5739.5	5940.1	5989.6	6057.7	6228.6
65°	4594.0	4906.1	5034.9	5224.3	5410.1	5473.2	5709.7	5838.5	5820.0	5989.6	6008.2
67.5°	4036.8	4303.0	4507.4	4786.0	4927.1	5073.3	5268.9	5293.7	5371.7	5509.1	5412.6
70°	2867.9	3298.8	3574.9	3896.9	4119.8	4355.1	4540.8	4556.9	4683.2	4726.5	4677.0
72.5°	1551.6	1972.6	2304.5	2700.7	2962.0	3230.7	3399.1	3496.9	3546.5	3480.8	3604.7
75°	874.2	1046.4	1260.6	1466.1	1672.9	1775.7	1853.7	1890.9	1809.1	1784.4	1781.9
77.5°	739.3	730.6	747.9	710.8	720.7	694.7	699.6	636.5	593.1	624.1	621.6
80°	907.7	825.9	730.6	601.8	515.1	438.4	395.0	382.6	398.7	440.8	470.5
82.5°	1206.1	1191.2	1034.0	869.3	730.6	584.5	473.0	408.6	416.1	444.5	499.0
85°	828.4	864.3	766.5	718.2	590.7	495.3	408.6	328.1	300.9	287.3	273.7
87.5°	167.2	146.1	131.3	123.8	107.7	95.3	85.4	78.0	79.3	74.3	73.1
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: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	82.5°	83°	84°	85°
0°	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	123.8	117.6	118.9	115.2	112.7	111.4	115.2	115.2	113.9	112.7	107.7
5°	168.4	167.2	162.2	156.0	148.6	135.0	127.5	121.4	117.6	116.4	113.9
7.5°	167.2	165.9	164.7	164.7	164.7	163.5	163.5	159.7	156.0	144.9	120.1
10°	221.7	227.8	241.5	248.9	248.9	247.7	240.2	239.0	237.8	236.5	226.6
12.5°	239.0	232.8	232.8	234.0	242.7	251.4	256.3	253.8	253.8	253.8	250.1
15°	314.5	314.5	313.3	313.3	313.3	315.8	314.5	322.0	326.9	324.4	325.7
17.5°	349.2	354.2	351.7	351.7	344.2	330.6	356.6	325.7	324.4	365.3	400.0
20°	528.7	527.5	520.1	517.6	512.7	510.2	513.9	515.1	516.4	515.1	522.6
22.5°	681.1	660.0	643.9	640.2	656.3	662.5	655.1	656.3	651.3	652.6	641.4
25°	828.4	809.8	828.4	808.6	795.0	781.4	780.1	772.7	782.6	787.6	802.4
27.5°	959.7	969.6	968.3	979.5	962.1	947.3	948.5	942.3	953.5	965.9	952.2
30°	1034.0	1042.6	1037.7	1024.1	1030.3	1034.0	1057.5	1053.8	1048.8	1021.6	1009.2
32.5°	1221.0	1217.2	1207.3	1216.0	1244.5	1259.3	1222.2	1213.5	1214.8	1230.9	1221.0
35°	1301.4	1301.4	1303.9	1342.3	1352.2	1325.0	1323.7	1331.2	1347.3	1317.5	1300.2
37.5°	1342.3	1351.0	1384.4	1394.3	1364.6	1364.6	1386.9	1380.7	1367.1	1363.4	1379.5
40°	1403.0	1438.9	1450.0	1420.3	1421.6	1442.6	1420.3	1404.2	1415.4	1452.5	1453.7
42.5°	1498.3	1513.2	1482.2	1477.3	1507.0	1481.0	1481.0	1503.3	1516.9	1514.4	1528.0
45°	1591.2	1564.0	1545.4	1572.6	1554.1	1533.0	1582.5	1587.5	1587.5	1601.1	1620.9
47.5°	1679.1	1634.5	1653.1	1642.0	1601.1	1658.1	1669.2	1668.0	1675.4	1698.9	1692.7
50°	1809.1	1778.2	1772.0	1715.0	1749.7	1772.0	1770.8	1785.6	1799.2	1791.8	1846.3
52.5°	2075.4	2064.2	1960.2	1925.5	1942.9	1923.1	1942.9	1933.0	1931.7	1977.5	1981.3
55°	2652.4	2589.3	2407.2	2399.8	2305.7	2227.7	2253.7	2228.9	2240.1	2269.8	2290.8
57.5°	3973.7	3786.7	3735.9	3709.9	3525.4	3314.9	3292.6	3322.3	3318.6	3271.6	3349.6
60°	5543.8	5412.6	5552.5	5450.9	5307.3	5238.0	5136.4	5132.7	5089.4	5053.5	4971.7
62.5°	6118.4	6284.3	6415.6	6420.5	6452.7	6416.8	6366.0	6305.4	6314.0	6213.7	6181.5
65°	6006.9	6252.1	6320.2	6454.0	6554.3	6692.9	6695.4	6717.7	6697.9	6618.6	6507.2
67.5°	5635.4	5753.1	5828.6	5987.1	6186.5	6369.8	6519.6	6541.9	6555.5	6509.7	6345.0
70°	4893.7	4943.2	5049.7	5209.5	5450.9	5633.0	5837.3	5858.3	5901.7	5853.4	5738.2
72.5°	3623.2	3608.4	3664.1	3774.3	3888.2	4014.5	4144.5	4153.2	4248.6	4153.2	4020.7
75°	1684.1	1640.7	1604.8	1598.6	1612.3	1649.4	1645.7	1596.2	1582.5	1469.8	1389.4
77.5°	577.0	562.2	532.5	486.6	434.6	371.5	325.7	303.4	282.3	251.4	240.2
80°	508.9	542.4	538.7	502.7	442.1	370.2	302.1	268.7	240.2	193.2	174.6
82.5°	586.9	661.2	717.0	678.6	583.2	474.3	344.2	287.3	235.3	159.7	130.0
85°	281.1	277.4	304.6	258.8	245.2	179.6	135.0	113.9	104.0	85.4	79.3
87.5°	74.3	75.5	78.0	78.0	75.5	70.6	69.3	66.9	65.6	60.7	57.0
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: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°
0°	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	107.7	106.5	106.5	105.3	105.3	105.3	105.3	105.3	104.0	104.0	104.0
5°	115.2	115.2	113.9	110.2	107.7	107.7	106.5	106.5	105.3	105.3	105.3
7.5°	110.2	109.0	107.7	109.0	111.4	112.7	112.7	111.4	110.2	111.4	111.4
10°	191.9	178.3	174.6	173.4	170.9	170.9	169.6	167.2	163.5	162.2	162.2
12.5°	243.9	198.1	191.9	190.7	188.2	187.0	185.7	179.6	177.1	179.6	180.8
15°	324.4	307.1	269.9	271.2	272.4	271.2	271.2	268.7	265.0	261.3	261.3
17.5°	375.2	388.8	344.2	357.9	348.0	359.1	352.9	348.0	355.4	326.9	335.6
20°	518.8	518.8	499.0	469.3	473.0	478.0	484.2	482.9	476.7	465.6	460.6
22.5°	651.3	643.9	651.3	632.8	626.6	635.2	596.9	616.7	610.5	617.9	619.1
25°	808.6	811.1	785.1	762.8	744.2	746.7	761.5	757.8	739.3	745.4	764.0
27.5°	938.6	948.5	967.1	941.1	925.0	920.0	915.1	918.8	944.8	942.3	920.0
30°	1021.6	1008.0	1004.3	1016.6	1037.7	1021.6	1042.6	1010.4	1000.5	1031.5	1030.3
32.5°	1182.6	1202.4	1221.0	1217.2	1219.7	1242.0	1229.6	1232.1	1223.4	1214.8	1232.1
35°	1321.3	1322.5	1310.1	1327.4	1322.5	1328.7	1344.8	1346.0	1351.0	1348.5	1349.7
37.5°	1378.2	1388.1	1393.1	1362.1	1395.5	1398.0	1412.9	1425.3	1450.0	1468.6	1477.3
40°	1469.8	1463.7	1452.5	1485.9	1455.0	1474.8	1510.7	1534.2	1561.5	1598.6	1611.0
42.5°	1542.9	1542.9	1562.7	1554.1	1592.4	1585.0	1625.9	1665.5	1700.2	1708.8	1775.7
45°	1622.2	1659.3	1663.0	1682.8	1707.6	1753.4	1757.1	1789.3	1827.7	1876.0	1898.3
47.5°	1742.3	1746.0	1791.8	1817.8	1852.5	1892.1	1914.4	1925.5	1973.8	2013.5	2038.2
50°	1842.6	1905.7	1933.0	1975.1	2020.9	2040.7	2075.4	2102.6	2121.2	2147.2	2163.3
52.5°	2029.6	2071.7	2132.3	2173.2	2219.0	2252.4	2282.2	2331.7	2332.9	2330.5	2347.8
55°	2341.6	2428.3	2523.6	2554.6	2642.5	2684.6	2736.6	2766.3	2810.9	2766.3	2777.5
57.5°	3405.3	3544.0	3620.8	3723.5	3804.0	3864.7	3879.6	3915.5	3979.9	3972.4	3931.6
60°	5063.4	5079.5	5140.1	5218.1	5213.2	5283.8	5239.2	5293.7	5197.1	5185.9	5085.6
62.5°	6123.3	6091.1	6084.9	6076.3	6047.8	5995.8	5928.9	5875.7	5790.2	5666.4	5581.0
65°	6369.8	6269.4	6201.3	6148.1	6042.8	5931.4	5842.2	5743.2	5672.6	5543.8	5415.0
67.5°	6177.8	6055.2	5932.6	5772.9	5657.7	5520.3	5387.8	5301.1	5171.1	5099.3	4890.0
70°	5604.5	5384.1	5178.5	4971.7	4871.4	4686.9	4563.1	4499.9	4369.9	4290.7	4135.9
72.5°	3915.5	3737.2	3437.5	3280.2	3246.8	3113.1	3058.6	3028.9	2965.7	2893.9	2813.4
75°	1322.5	1261.8	1186.3	1034.0	1076.1	1016.6	978.2	1034.0	1012.9	1014.2	974.5
77.5°	231.6	224.1	214.2	203.1	199.4	203.1	198.1	205.6	206.8	210.5	206.8
80°	165.9	157.3	151.1	146.1	142.4	143.6	139.9	141.2	139.9	141.2	139.9
82.5°	118.9	113.9	107.7	104.0	102.8	104.0	101.5	105.3	107.7	111.4	115.2
85°	74.3	73.1	69.3	68.1	68.1	66.9	68.1	73.1	78.0	84.2	87.9
87.5°	53.2	53.2	50.8	53.2	53.2	55.7	59.4	65.6	71.8	78.0	85.4
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: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	97°	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°
0°	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	104.0	104.0	104.0	104.0	104.0	104.0	104.0	102.8	102.8	104.0	104.0
5°	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	109.0	163.5
7.5°	110.2	110.2	110.2	109.0	109.0	109.0	110.2	111.4	110.2	156.0	106.5
10°	164.7	167.2	169.6	168.4	169.6	170.9	172.1	172.1	188.2	165.9	113.9
12.5°	182.0	182.0	183.3	182.0	180.8	198.1	234.0	234.0	235.3	183.3	182.0
15°	257.6	253.8	257.6	268.7	303.4	308.3	309.6	308.3	293.5	273.7	262.5
17.5°	309.6	294.7	310.8	339.3	308.3	307.1	288.5	274.9	279.9	341.8	354.2
20°	468.1	485.4	494.1	508.9	497.8	468.1	456.9	458.2	455.7	466.8	395.0
22.5°	611.7	634.0	631.5	625.3	608.0	626.6	634.0	586.9	578.3	615.4	637.7
25°	795.0	783.8	786.3	773.9	767.7	770.2	777.6	813.6	812.3	880.4	709.5
27.5°	949.8	964.6	954.7	956.0	978.2	963.4	988.2	988.2	1038.9	962.1	951.0
30°	1014.2	1029.0	1057.5	1064.9	1087.2	1100.8	1098.4	1107.0	1110.7	1162.8	1037.7
32.5°	1265.5	1250.7	1273.0	1306.4	1318.8	1329.9	1364.6	1360.9	1341.1	1287.8	1185.0
35°	1380.7	1412.9	1412.9	1416.6	1471.1	1474.8	1471.1	1492.1	1476.0	1441.4	1249.4
37.5°	1494.6	1507.0	1546.6	1552.8	1544.1	1585.0	1586.2	1575.1	1591.2	1528.0	1368.3
40°	1629.6	1646.9	1653.1	1687.8	1670.4	1665.5	1712.6	1695.2	1684.1	1607.3	1404.2
42.5°	1783.1	1778.2	1788.1	1790.6	1809.1	1789.3	1788.1	1826.5	1796.8	1672.9	1400.5
45°	1937.9	1916.9	1907.0	1908.2	1905.7	1915.6	1884.7	1905.7	1909.4	1707.6	1368.3
47.5°	2035.7	2063.0	2038.2	2017.2	2003.5	2004.8	1994.9	1946.6	1985.0	1718.7	1317.5
50°	2188.1	2185.6	2183.1	2136.0	2122.4	2096.4	2084.0	2049.4	2022.1	1682.8	1261.8
52.5°	2358.9	2354.0	2360.2	2319.3	2267.3	2235.1	2198.0	2165.8	2102.6	1646.9	1199.9
55°	2781.2	2770.0	2736.6	2725.5	2630.1	2548.4	2446.9	2384.9	2329.2	1644.4	1128.1
57.5°	3919.2	3868.4	3781.7	3714.9	3535.3	3363.2	3204.7	3023.9	2898.8	1781.9	1073.6
60°	4969.2	4904.9	4793.4	4577.9	4391.0	4088.8	3801.5	3563.8	3345.9	1926.8	1011.7
62.5°	5392.7	5257.8	5093.1	4880.1	4561.9	4269.6	3877.1	3602.2	3327.3	1841.3	854.4
65°	5287.5	5060.9	4859.0	4620.1	4315.4	3950.1	3550.2	3219.5	2980.6	1487.2	593.1
67.5°	4786.0	4577.9	4376.1	4095.0	3758.2	3350.8	3007.8	2666.0	2451.8	1058.7	330.6
70°	4005.9	3847.4	3602.2	3329.8	3023.9	2653.6	2304.5	2007.3	1794.3	646.4	161.0
72.5°	2754.0	2619.0	2516.2	2284.6	1975.1	1640.7	1443.8	1212.3	1084.7	330.6	106.5
75°	995.6	1006.7	927.5	886.6	785.1	632.8	557.2	469.3	409.9	149.8	105.3
77.5°	231.6	227.8	240.2	246.4	229.1	209.3	188.2	173.4	162.2	117.6	111.4
80°	141.2	139.9	138.7	137.4	136.2	135.0	133.7	131.3	128.8	115.2	112.7
82.5°	117.6	118.9	118.9	118.9	120.1	120.1	121.4	121.4	120.1	115.2	113.9
85°	91.6	95.3	99.1	102.8	107.7	112.7	115.2	116.4	116.4	112.7	112.7
87.5°	91.6	96.6	102.8	110.2	117.6	123.8	128.8	131.3	131.3	113.9	111.4
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: P157145

CATALOG NUMBER: UTLD-F03-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	110.2	107.7	109.0	117.6	112.7	110.2
5°	165.9	128.8	107.7	106.5	105.3	104.0
7.5°	110.2	110.2	112.7	139.9	154.8	163.5
10°	123.8	177.1	185.7	182.0	183.3	180.8
12.5°	250.1	188.2	196.9	221.7	257.6	257.6
15°	271.2	330.6	268.7	271.2	267.5	267.5
17.5°	355.4	352.9	286.0	345.5	350.4	350.4
20°	449.5	407.4	423.5	371.5	365.3	364.1
22.5°	485.4	502.7	448.3	455.7	455.7	453.2
25°	646.4	565.9	528.7	470.5	522.6	511.4
27.5°	752.9	626.6	619.1	556.0	548.6	543.6
30°	892.8	785.1	661.2	632.8	631.5	626.6
32.5°	969.6	818.5	715.7	652.6	698.4	695.9
35°	1056.3	853.2	757.8	710.8	678.6	673.6
37.5°	1061.2	868.0	734.3	721.9	712.0	708.3
40°	1074.8	838.3	731.8	720.7	710.8	707.1
42.5°	1035.2	797.5	695.9	655.1	636.5	631.5
45°	980.7	734.3	621.6	575.8	553.5	548.6
47.5°	916.3	677.3	542.4	500.3	469.3	460.6
50°	849.5	603.0	464.4	413.6	383.9	374.0
52.5°	776.4	508.9	377.7	334.3	303.4	297.2
55°	688.5	409.9	294.7	265.0	246.4	241.5
57.5°	574.6	308.3	225.4	211.7	203.1	200.6
60°	440.8	216.7	169.6	173.4	169.6	172.1
62.5°	302.1	143.6	130.0	141.2	142.4	142.4
65°	175.8	104.0	105.3	118.9	120.1	121.4
67.5°	107.7	86.7	91.6	105.3	106.5	106.5
70°	90.4	80.5	85.4	99.1	100.3	100.3
72.5°	87.9	80.5	83.0	96.6	97.8	99.1
75°	89.2	79.3	83.0	96.6	95.3	94.1
77.5°	91.6	79.3	81.7	96.6	97.8	91.6
80°	90.4	76.8	78.0	102.8	99.1	84.2
82.5°	86.7	71.8	69.3	109.0	87.9	75.5
85°	80.5	64.4	57.0	118.9	86.7	54.5
87.5°	45.8	53.2	42.1	104.0	79.3	43.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)