

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: P240040

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-A-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-SL3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4403.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 54
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



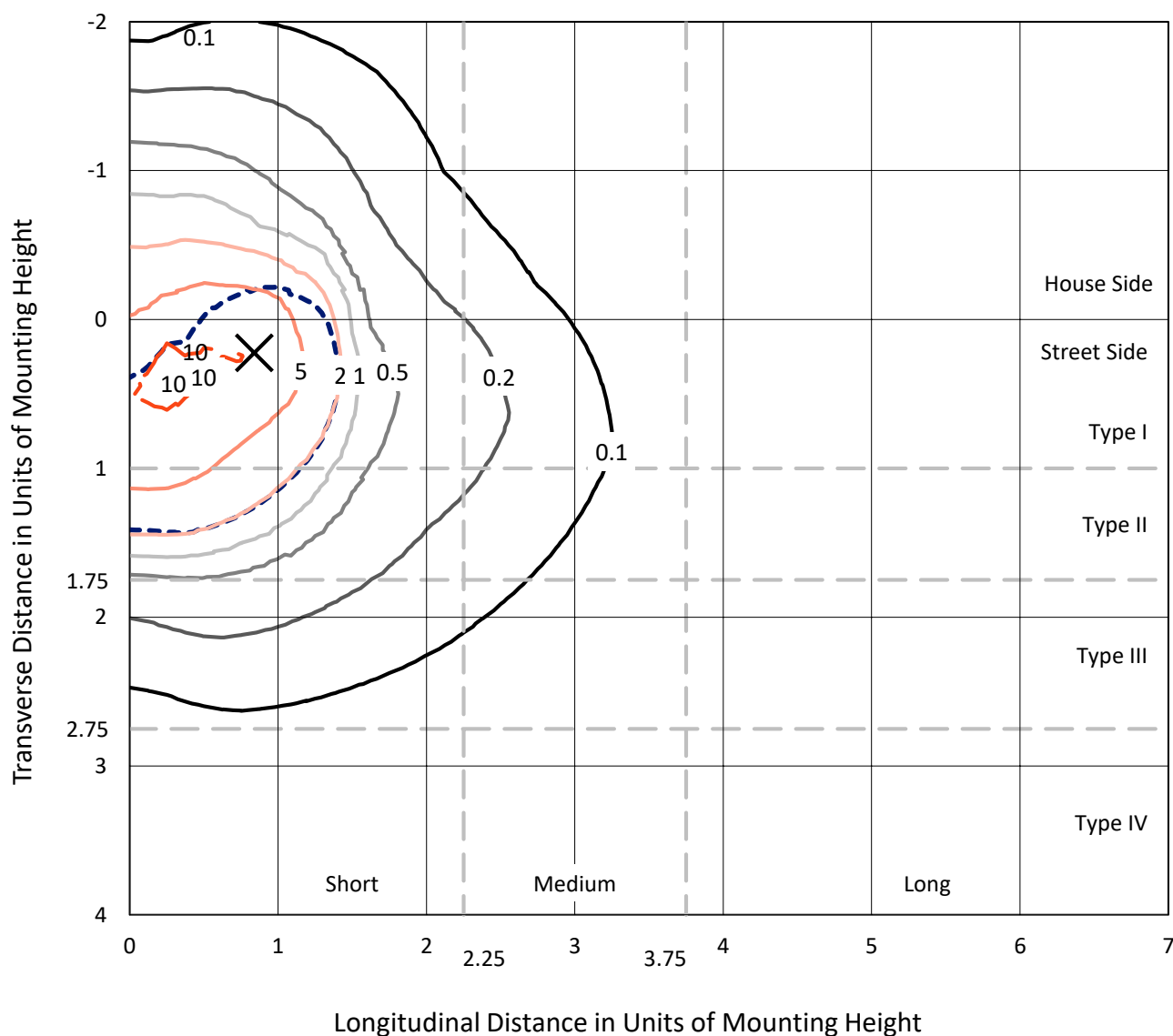
REPORT NUMBER: P240040

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

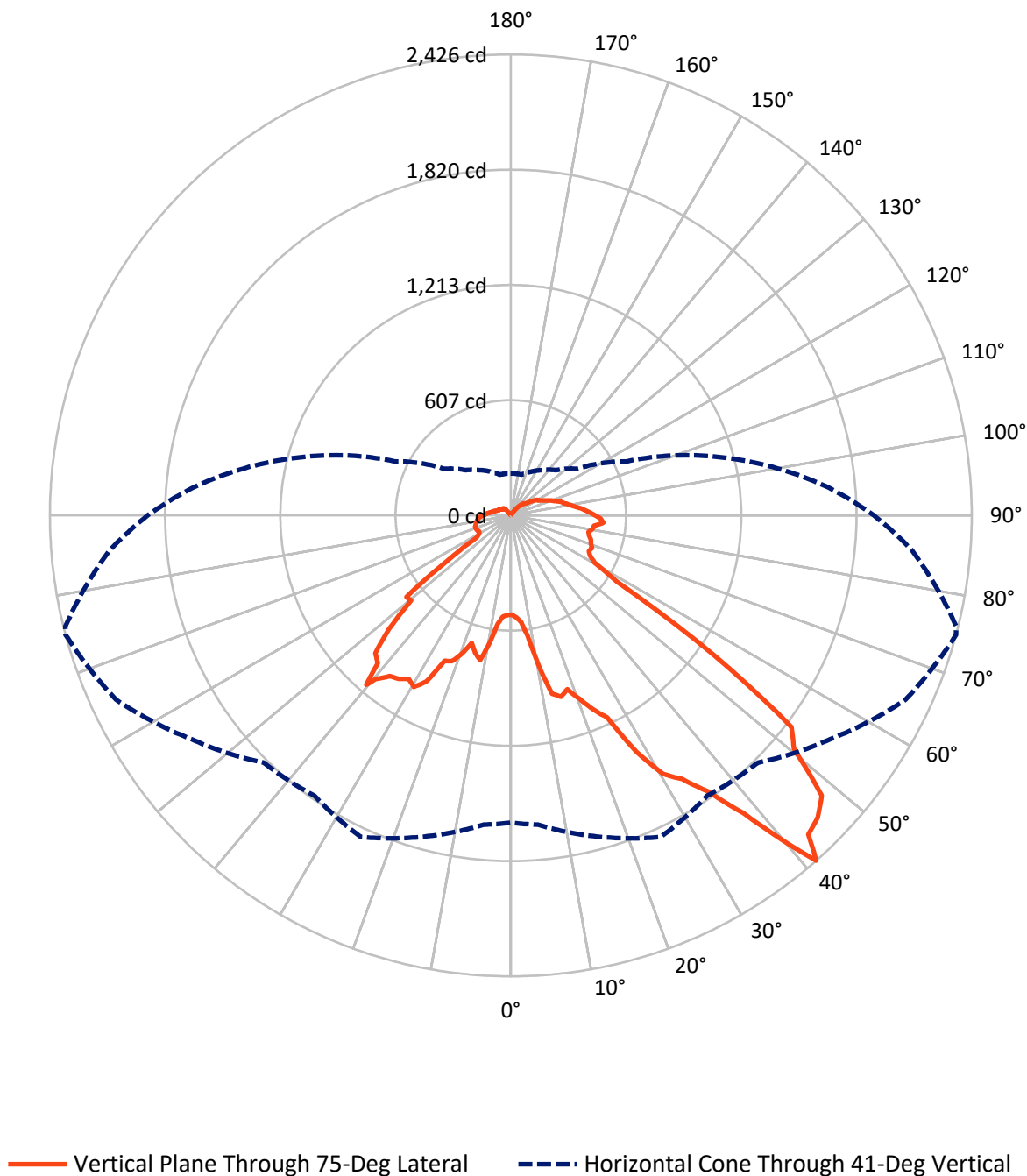


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P240040

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240040

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

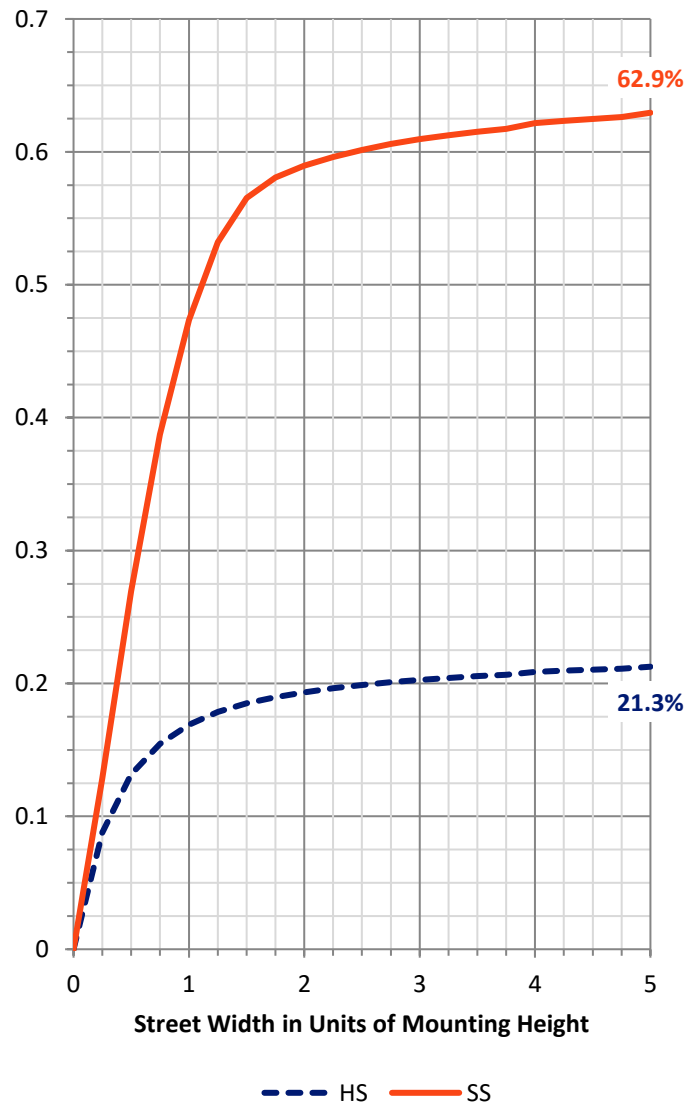
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.3	123.8	1095.1
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	2856.6	451.4	3308.0
	% Fixture	64.9	10.3	75.1
Total	Lumens	3827.9	575.2	4403.1
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.2
10°-20°	217.9	4.9
20°-30°	447.7	10.2
30°-40°	728.8	16.6
40°-50°	946.6	21.5
50°-60°	671.2	15.2
60°-70°	272.8	6.2
70°-80°	246.8	5.6
80°-90°	241.1	5.5
90°-100°	206.8	4.7
100°-110°	149.8	3.4
110°-120°	102.2	2.3
120°-130°	66.4	1.5
130°-140°	39.6	0.9
140°-150°	10.0	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3827.9	86.9
0°-180°	4403.1	100.0

Coefficient of Utilization



REPORT NUMBER: P240040

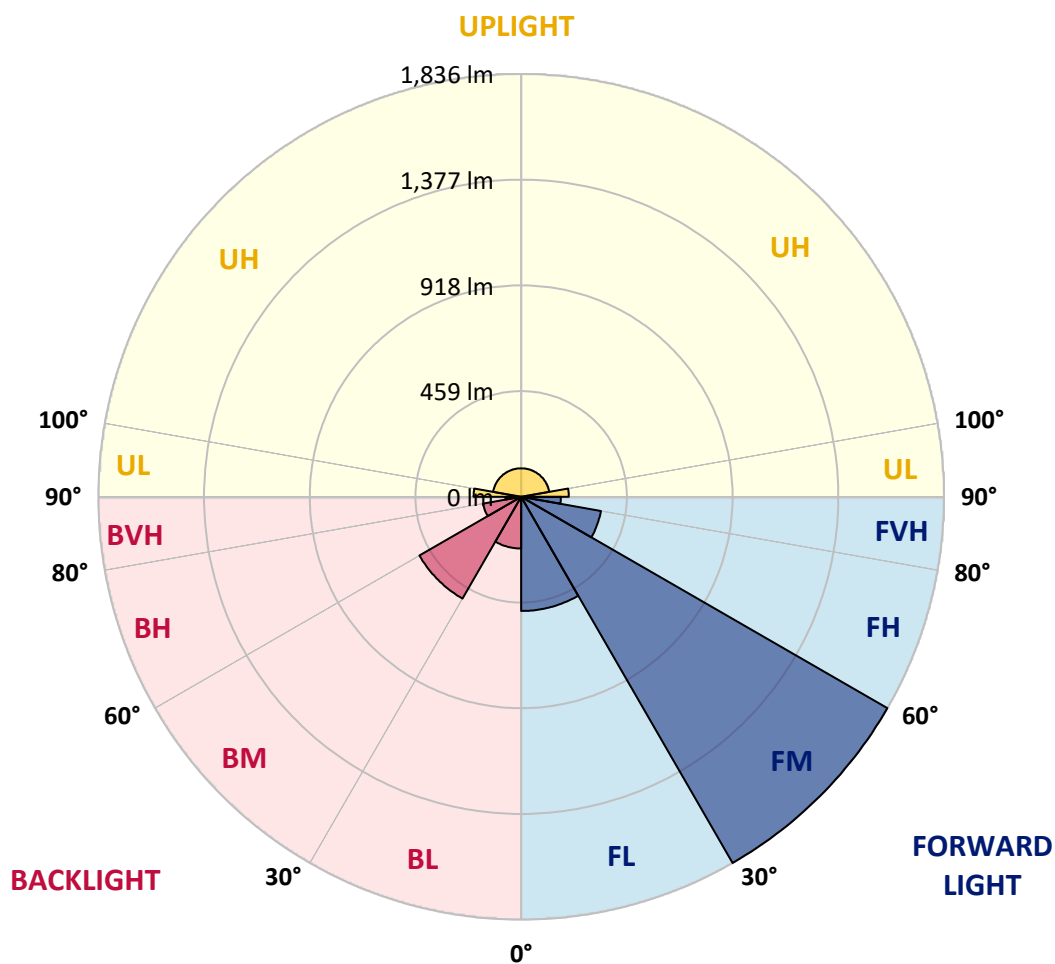
CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	495.8	11.3			
FM	(30°-60°)	1836.4	41.7			
FH	(60°-80°)	351.6	8.0			G0/660
FVH	(80°-90°)	172.7	3.9			G2/225
BL	(0°-30°)	224.7	5.1	B1/500		
BM	(30°-60°)	510.1	11.6	B1/1000		
BH	(60°-80°)	168.0	3.8	B1/500		G1/500
BVH	(80°-90°)	68.4	1.6			G1/100
UL	(90°-100°)	206.8	4.7		U3/500	
UH	(100°-180°)	123.8	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





REPORT NUMBER: P240040

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4
2.5°	558.7	560.0	557.4	555.6	554.3	550.5	547.4	543.0	536.8	536.1	533.6
5°	609.4	609.4	609.4	605.1	600.1	591.9	585.0	575.0	563.1	562.4	553.1
7.5°	691.6	691.6	687.9	681.6	670.3	657.7	656.5	655.2	638.9	637.1	620.1
10°	780.0	777.5	779.4	784.4	790.1	807.0	817.7	818.9	801.3	796.9	772.5
12.5°	814.5	817.0	839.0	879.1	946.8	1014.6	1049.7	1020.8	962.5	954.9	897.2
15°	867.2	870.4	906.8	973.8	1086.7	1184.5	1154.4	1082.2	990.1	983.3	894.2
17.5°	1008.3	1022.6	1057.8	1164.3	1279.1	1239.6	1138.1	1045.3	961.9	953.8	879.1
20°	1107.4	1115.5	1183.2	1285.4	1366.3	1306.0	1236.5	1143.1	1030.9	1030.9	972.5
22.5°	1189.5	1187.0	1242.2	1396.5	1443.5	1404.5	1323.6	1228.4	1109.2	1103.6	1027.7
25°	1318.6	1326.9	1422.1	1592.7	1549.4	1450.3	1343.8	1256.6	1178.3	1171.3	1095.5
27.5°	1393.9	1415.2	1524.9	1673.0	1645.3	1511.8	1418.4	1405.2	1410.9	1405.2	1322.4
30°	1412.7	1422.1	1557.6	1704.3	1685.5	1586.5	1586.5	1608.3	1579.5	1571.3	1460.4
32.5°	1459.7	1482.3	1612.1	1726.2	1680.4	1661.7	1671.6	1667.3	1654.7	1643.5	1514.4
35°	1536.1	1555.7	1677.3	1763.2	1679.9	1686.8	1777.0	1829.1	1783.8	1774.0	1581.4
37.5°	1737.5	1756.4	1866.0	1861.0	1724.3	1737.5	1901.2	1996.5	1988.3	1987.1	1796.4
40°	1697.4	1759.5	1892.4	1913.1	1790.8	1805.2	2000.9	2207.8	2303.0	2300.6	2064.2
41°	1617.1	1634.1	1750.0	1867.4	1801.4	1839.7	2052.9	2293.1	2426.0	2416.6	2120.6
42.5°	1646.0	1676.0	1745.1	1783.8	1788.9	1865.4	2093.6	2303.7	2296.8	2292.5	2050.4
45°	1891.8	1904.3	1933.2	1858.5	1732.6	1827.8	2071.1	2266.1	2265.5	2245.4	2136.3
47.5°	1773.3	1809.0	1931.9	1865.4	1726.9	1725.6	1885.5	2149.4	2202.1	2173.2	1901.7
50°	1677.3	1703.1	1774.5	1703.7	1642.8	1641.6	1792.1	1990.8	1930.6	1922.5	1549.4
52.5°	1488.0	1513.0	1563.8	1546.2	1511.8	1508.0	1622.7	1830.9	1849.8	1843.5	1563.8
55°	1131.2	1148.8	1339.9	1345.0	1319.3	1331.9	1424.6	1509.3	1298.5	1264.6	879.1
57.5°	664.7	709.8	895.4	1011.4	1064.7	1074.8	1042.8	892.8	659.1	635.3	405.7
60°	327.9	351.2	480.3	603.2	741.1	746.1	644.6	570.6	506.0	491.5	354.9
62.5°	234.0	247.7	332.3	397.6	474.6	487.2	451.5	482.2	468.4	459.7	345.5
65°	212.0	223.9	294.7	329.2	361.2	380.7	389.4	440.8	451.5	445.8	343.0
67.5°	193.7	205.6	269.0	295.3	319.1	350.5	369.3	420.1	460.8	457.1	363.8
70°	171.2	184.9	242.7	274.7	304.1	339.9	365.6	418.9	448.3	443.3	352.4
72.5°	149.9	162.4	209.4	247.0	290.3	331.0	369.3	408.2	440.8	436.4	356.7
75°	130.4	142.9	183.8	222.6	272.2	333.6	371.8	405.1	425.8	419.4	350.5
77.5°	117.2	129.8	164.9	203.1	258.3	337.4	406.3	418.9	418.3	412.0	343.0
80°	106.6	119.1	152.4	189.3	245.9	345.5	434.6	447.1	435.8	427.6	344.8
82.5°	103.5	115.4	146.1	186.9	248.3	350.5	442.7	474.0	442.1	432.0	343.0
85°	114.7	122.3	154.3	200.1	264.6	359.3	439.6	489.1	488.5	477.8	374.3
87.5°	136.7	142.9	174.3	220.7	282.2	364.3	478.4	498.4	472.1	467.2	378.1
90°	169.4	173.7	206.3	248.9	300.4	361.7	394.4	420.1	437.7	433.9	358.7
92.5°	201.2	206.9	236.4	267.8	290.9	311.1	343.0	402.5	405.1	402.0	344.8
95°	239.0	242.7	259.6	275.3	280.2	287.2	319.1	345.5	374.3	370.6	332.3
97.5°	259.6	261.4	269.0	267.1	255.2	256.4	292.2	320.4	337.9	333.6	290.9
100°	254.6	256.4	257.8	246.4	230.1	235.1	264.6	298.5	312.3	310.4	269.7
102.5°	238.3	241.5	242.0	230.7	215.7	217.0	245.9	271.5	285.9	283.4	251.4
105°	234.0	235.1	229.5	214.4	196.8	199.4	227.0	254.6	271.5	270.2	237.6
107.5°	210.7	212.0	203.8	189.3	183.1	190.0	215.0	232.6	243.8	243.8	212.0



REPORT NUMBER: P240040

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	176.8	176.8	175.0	171.7	173.0	183.1	203.8	215.0	224.5	223.9	193.7
112.5°	171.2	169.9	168.0	165.5	161.8	169.9	183.8	197.5	199.4	198.8	173.0
115°	168.7	166.8	160.5	153.6	149.2	155.4	166.2	178.7	183.8	183.1	164.9
117.5°	149.2	149.2	144.2	139.2	137.3	145.5	158.7	166.8	167.3	168.7	151.1
120°	133.6	133.6	130.4	128.0	129.2	133.0	147.4	154.3	160.5	159.8	144.9
122.5°	121.6	122.3	119.7	114.7	119.1	122.9	131.0	138.0	144.9	144.2	133.6
125°	109.7	109.2	106.6	100.9	111.0	116.1	116.6	116.1	122.9	122.9	113.5
127.5°	97.2	96.5	94.1	90.9	104.2	111.0	109.7	99.7	104.2	103.5	99.1
130°	95.9	95.3	90.9	87.2	93.4	105.3	99.7	92.8	96.5	97.2	92.8
132.5°	95.3	94.7	90.2	84.0	82.2	94.7	84.6	85.9	90.2	90.2	86.6
135°	89.0	88.4	84.6	75.8	67.0	78.3	67.0	74.0	79.6	79.6	76.5
137.5°	78.3	77.8	74.0	66.4	54.0	55.8	50.8	62.1	68.4	69.0	66.4
140°	62.1	62.8	58.9	51.5	38.9	29.5	33.3	48.3	54.5	54.5	54.0
142.5°	46.4	46.4	42.6	35.1	22.6	10.7	18.8	29.5	37.0	37.5	38.9
145°	32.6	32.6	28.9	22.6	11.3	1.8	8.7	17.6	23.2	23.2	25.1
147.5°	21.3	21.3	18.1	12.6	3.2	0.6	2.5	8.7	13.7	13.7	15.1
150°	13.2	13.2	10.1	3.8	0.6	0.0	0.6	1.8	6.2	6.2	8.2
152.5°	4.4	3.8	1.8	1.2	0.6	0.0	0.0	0.6	0.6	0.6	1.8
155°	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P240040

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4
2.5°	530.5	529.3	524.9	519.2	512.3	503.4	497.9	495.4	492.2	489.7	491.0
5°	548.1	543.7	533.6	515.3	498.4	485.9	476.0	467.2	462.7	459.0	459.0
7.5°	612.0	604.4	576.3	545.5	507.3	472.8	448.3	435.8	421.4	417.6	417.0
10°	751.1	741.8	682.3	608.2	536.1	468.4	407.0	373.6	358.1	349.8	351.9
12.5°	866.5	845.2	777.5	693.5	593.9	484.7	399.5	339.9	313.5	303.5	299.7
15°	857.1	821.4	748.1	668.4	590.6	511.0	425.8	358.7	304.1	285.9	282.2
17.5°	836.5	798.8	701.7	599.4	508.5	459.7	412.0	363.1	321.7	294.1	289.1
20°	941.9	899.2	772.5	671.0	543.0	419.4	364.9	337.4	311.1	297.1	294.1
22.5°	986.9	943.7	827.1	698.5	571.9	465.2	376.2	325.5	304.8	302.2	298.5
25°	1054.7	1000.2	841.6	679.7	557.4	470.3	376.8	326.6	296.0	296.0	294.1
27.5°	1273.5	1193.8	982.6	755.0	578.7	452.2	367.4	312.3	275.3	260.8	257.8
30°	1371.3	1295.5	1036.6	774.4	588.2	456.4	349.8	286.6	262.1	251.4	250.2
32.5°	1442.2	1343.2	1013.9	727.3	540.5	426.3	334.9	277.2	252.7	243.3	240.8
35°	1477.3	1346.8	1044.0	710.4	511.7	391.2	317.3	266.5	251.4	243.8	243.8
37.5°	1648.5	1486.7	1059.0	706.1	489.7	357.4	301.5	267.1	235.1	224.5	225.1
40°	1884.8	1654.7	1115.5	673.5	447.1	345.5	291.6	255.2	225.7	218.8	216.4
41°	1911.2	1679.2	1172.0	672.8	426.9	336.7	290.9	253.9	222.1	220.7	220.0
42.5°	1841.0	1600.8	1045.3	611.3	400.7	322.4	289.6	252.7	218.2	221.4	220.7
45°	1921.3	1682.9	1017.1	560.0	354.9	298.5	274.7	245.9	215.7	210.1	210.7
47.5°	1669.2	1426.5	875.3	487.2	314.1	272.7	253.9	230.1	209.4	206.3	206.3
50°	1329.3	1118.6	688.5	428.3	276.5	251.4	234.0	218.2	196.8	188.7	191.2
52.5°	1354.4	1133.0	697.8	398.8	251.4	229.5	218.2	198.8	173.7	158.7	161.1
55°	744.9	645.8	408.2	306.0	233.3	213.2	200.1	180.0	152.4	135.5	137.3
57.5°	337.9	280.9	217.0	210.7	201.9	196.2	181.8	163.7	137.3	118.5	118.5
60°	302.2	247.7	193.7	176.2	180.6	181.3	166.2	148.6	122.9	100.9	101.6
62.5°	295.3	241.5	188.2	168.0	171.7	171.7	157.4	139.9	116.6	94.1	94.1
65°	294.1	239.0	188.7	165.5	168.0	168.7	154.3	139.9	124.1	107.8	109.2
67.5°	311.6	252.7	195.0	163.7	166.2	166.2	154.3	143.5	134.2	124.1	125.4
70°	302.2	248.3	193.7	163.7	162.4	162.4	153.6	144.2	139.2	130.4	131.0
72.5°	306.0	255.7	197.5	162.4	157.4	156.1	150.4	144.9	140.5	136.0	136.7
75°	300.4	253.4	191.2	156.1	149.9	147.4	143.5	142.4	142.9	141.1	139.9
77.5°	291.6	248.9	186.9	149.9	142.9	137.3	134.8	135.5	138.0	136.0	134.2
80°	290.3	249.5	184.9	146.1	134.2	124.8	121.6	122.9	123.6	119.7	116.1
82.5°	286.6	244.5	176.2	136.0	121.1	109.2	106.6	108.5	109.2	105.3	101.6
85°	308.5	257.8	173.7	126.6	109.7	97.2	92.8	93.4	89.0	83.4	79.6
87.5°	317.3	260.2	163.7	112.2	98.5	87.7	82.2	78.3	71.4	62.1	59.5
90°	301.5	247.0	147.4	96.5	86.6	78.3	71.4	66.4	57.7	48.3	45.2
92.5°	292.2	237.0	135.5	86.6	75.8	69.0	62.8	55.1	46.4	35.7	33.9
95°	286.6	233.3	128.0	77.1	67.7	60.8	54.5	47.6	38.9	30.7	29.5
97.5°	249.5	201.9	112.9	69.0	59.5	53.3	47.6	40.8	32.6	26.3	25.1
100°	231.9	188.2	104.7	62.1	52.7	47.0	42.1	36.4	29.5	25.1	24.5
102.5°	217.0	175.0	95.3	55.8	47.0	41.4	37.0	32.0	27.0	23.2	23.8
105°	205.6	166.8	91.6	51.5	42.1	37.5	32.6	28.9	23.8	21.3	21.3
107.5°	182.5	147.9	80.9	46.4	38.2	33.9	30.0	26.3	22.6	20.6	21.3



REPORT NUMBER: P240040

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	168.7	137.3	77.1	44.5	36.4	31.3	27.7	23.8	20.1	20.1	20.1
112.5°	149.9	123.6	71.4	42.1	33.9	29.5	25.6	21.3	17.6	18.1	18.8
115°	143.5	119.1	69.0	40.1	32.6	28.2	23.8	20.1	15.7	16.9	17.6
117.5°	132.3	110.4	67.0	40.1	31.3	26.3	22.6	18.8	15.1	16.3	16.3
120°	128.5	108.5	67.0	39.6	30.0	25.1	21.3	16.3	13.7	15.1	15.1
122.5°	119.7	101.6	63.9	38.9	28.9	23.8	20.6	13.7	11.9	13.2	13.2
125°	102.8	88.4	57.7	36.4	27.7	23.8	20.1	11.3	11.3	12.6	12.6
127.5°	89.7	77.8	52.7	35.7	28.2	25.1	18.8	9.4	10.1	11.3	11.3
130°	85.2	75.8	54.5	38.9	30.7	26.3	13.7	8.7	9.4	10.7	11.3
132.5°	80.9	73.3	55.8	42.1	32.6	25.6	11.3	8.2	8.7	10.1	10.1
135°	72.1	66.4	52.0	40.1	30.7	20.6	8.2	6.9	8.2	9.4	9.4
137.5°	63.4	58.9	47.6	37.0	28.2	16.3	5.7	6.2	6.9	7.5	7.5
140°	52.0	48.3	39.6	30.0	20.6	8.7	3.8	5.0	5.7	6.2	6.2
142.5°	37.5	35.1	28.2	20.1	11.9	3.2	2.5	3.8	4.4	5.0	5.0
145°	25.1	23.2	18.1	12.6	4.4	1.8	1.2	2.5	3.8	3.8	4.4
147.5°	15.1	14.4	10.7	5.7	1.8	1.2	1.2	1.8	2.5	3.2	3.2
150°	7.5	7.5	5.0	1.8	1.2	0.6	0.6	0.6	1.2	1.8	1.8
152.5°	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)