

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: P266388

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
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-T4W-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4578.6 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U2 - 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

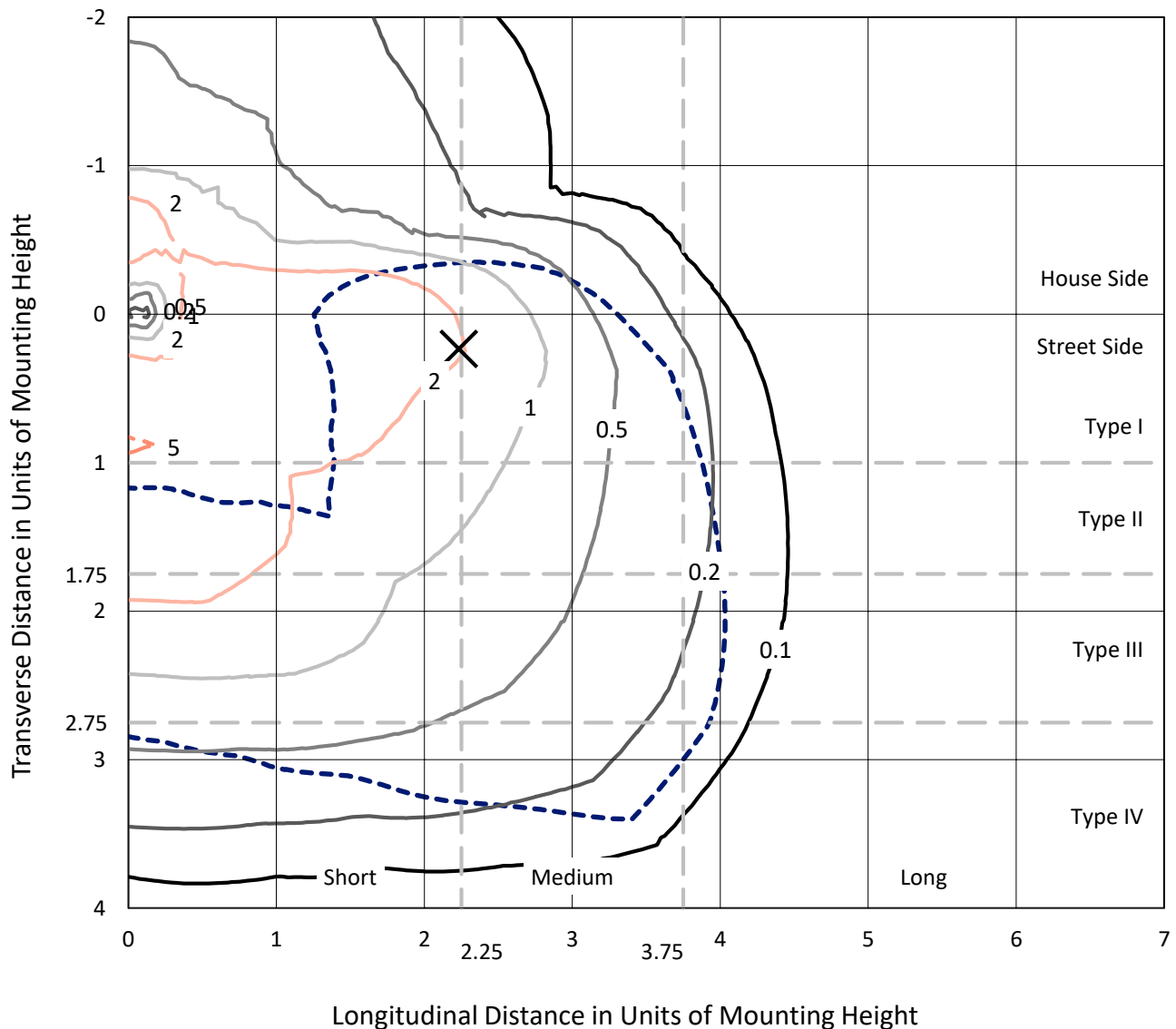


REPORT NUMBER: P266388

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

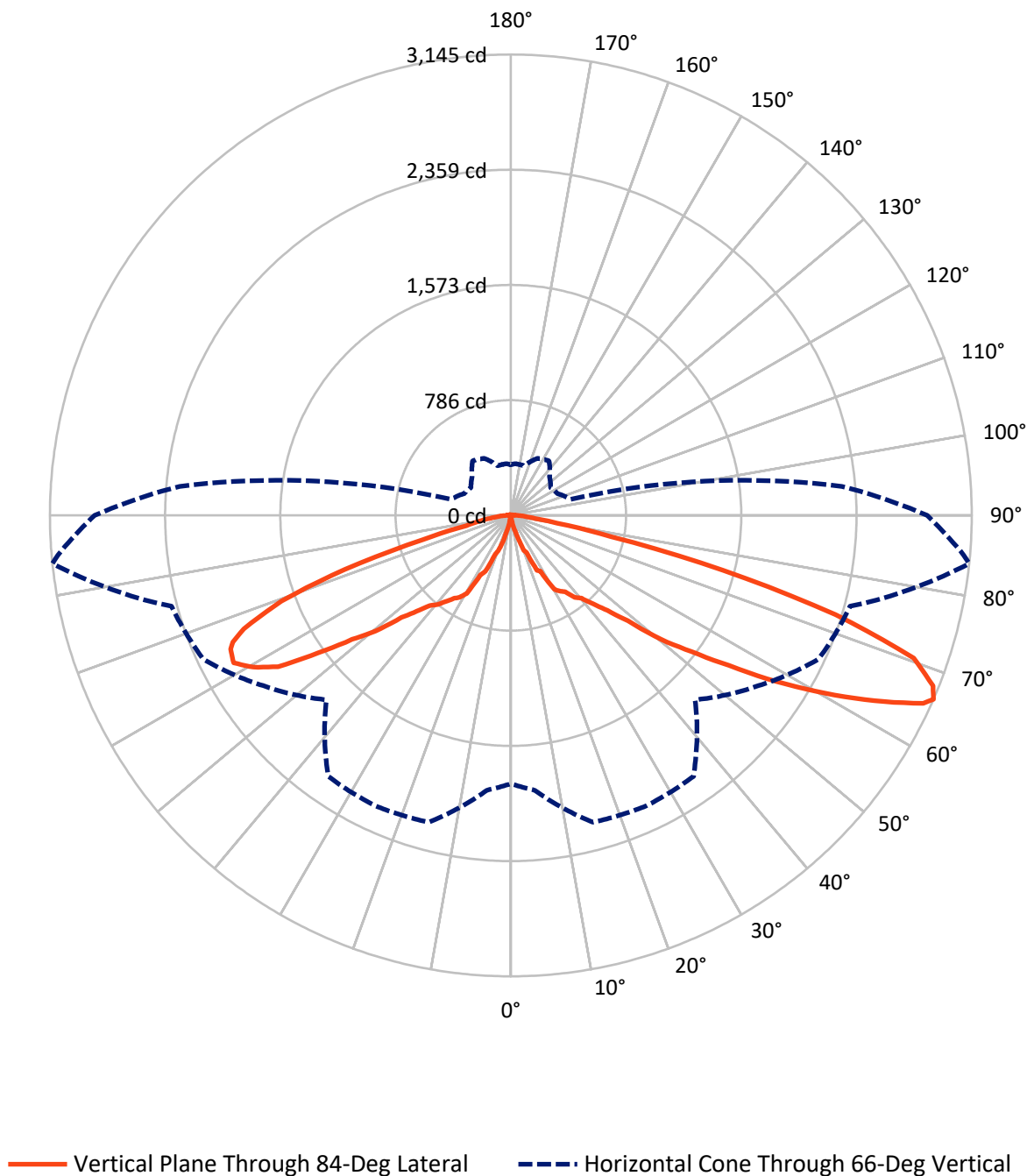


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P266388

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266388

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

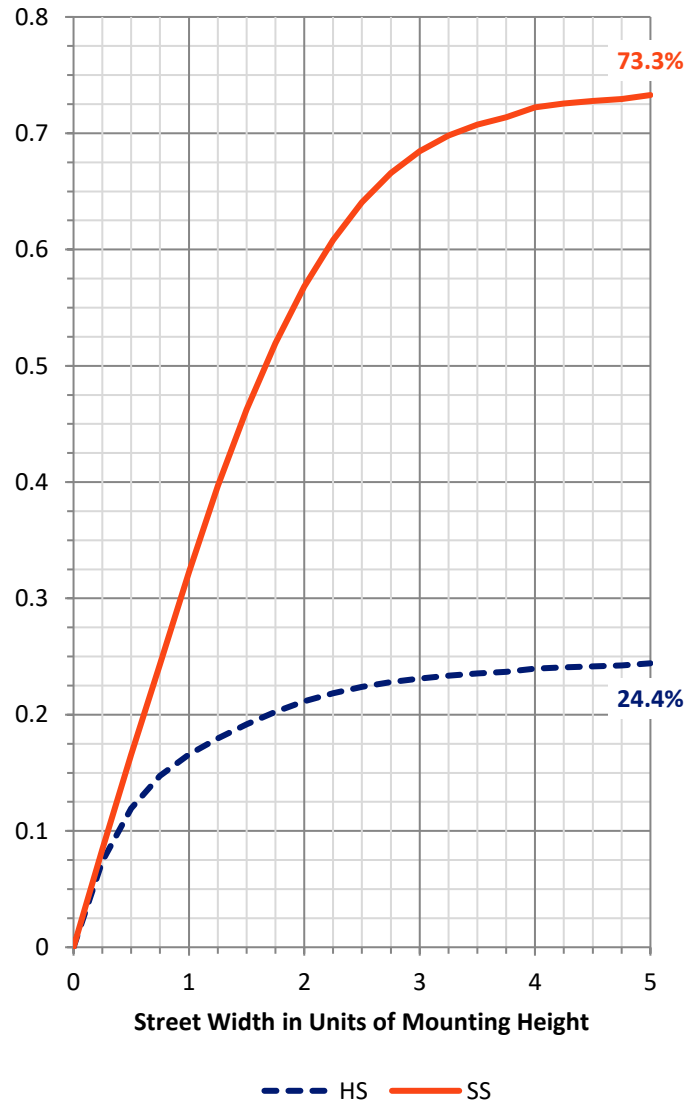
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.7	27.9	1173.6
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	3378.8	26.2	3405.0
	% Fixture	73.8	0.6	74.4
Total	Lumens	4524.5	54.1	4578.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	42.5	0.9
20°-30°	157.1	3.4
30°-40°	322.9	7.1
40°-50°	535.8	11.7
50°-60°	934.2	20.4
60°-70°	1376.2	30.1
70°-80°	1004.3	21.9
80°-90°	148.2	3.2
90°-100°	27.6	0.6
100°-110°	12.6	0.3
110°-120°	6.0	0.1
120°-130°	4.1	0.1
130°-140°	2.4	0.1
140°-150°	1.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4524.5	98.8
0°-180°	4578.6	100.0

Coefficient of Utilization



REPORT NUMBER: P266388

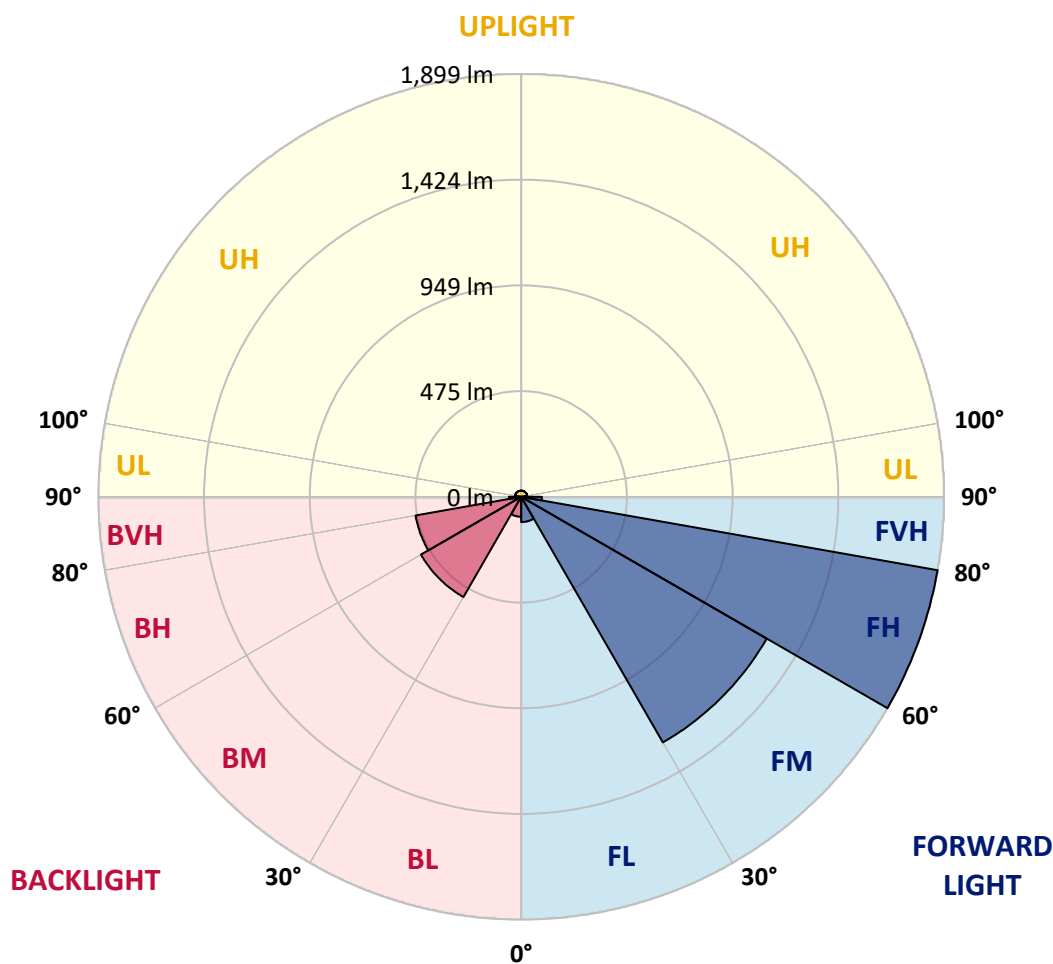
CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	113.3	2.5			
FM	(30°-60°)	1273.4	27.8			
FH	(60°-80°)	1898.9	41.5			G2/5000
FVH	(80°-90°)	93.2	2.0			G1/100
BL	(0°-30°)	89.6	2.0	B0/110		
BM	(30°-60°)	519.5	11.3	B1/1000		
BH	(60°-80°)	481.6	10.5	B1/500		G1/500
BVH	(80°-90°)	55.0	1.2			G1/100
UL	(90°-100°)	27.6	0.6		U2/50	
UH	(100°-180°)	27.9	0.6		U2/50	

BUG Rating: B1-U2-G2

Type IV Short





REPORT NUMBER: P266388

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	26.9	24.3	24.3	23.0	20.8	18.5	14.6	12.3	10.7	10.7	10.2
5°	51.8	54.6	63.2	58.0	47.9	62.5	28.1	18.5	11.9	10.2	10.2
7.5°	82.3	86.7	66.5	59.2	59.2	63.2	51.3	31.0	15.8	11.9	11.3
10°	172.4	162.8	113.1	115.0	97.5	68.1	46.7	41.1	24.3	19.1	17.4
12.5°	167.3	165.0	168.4	147.1	148.1	107.5	59.6	95.8	86.7	82.9	91.3
15°	215.8	213.4	171.2	174.6	158.3	164.5	138.6	138.0	133.5	112.1	107.5
17.5°	299.7	297.3	335.1	223.0	158.8	205.6	178.6	153.8	159.4	168.4	175.2
20°	299.0	295.7	311.4	267.5	270.8	212.3	190.4	279.9	255.7	256.8	242.3
22.5°	441.5	421.2	370.0	279.4	305.2	248.4	282.2	276.6	258.0	273.2	268.7
25°	428.6	436.4	419.1	413.4	311.0	356.0	310.4	319.3	394.3	414.6	415.0
27.5°	497.3	482.1	468.6	424.7	417.9	346.3	319.3	425.3	412.9	431.5	430.8
30°	593.2	588.0	584.6	472.0	452.2	381.9	430.3	434.2	501.3	585.8	603.2
32.5°	685.4	661.2	606.6	546.3	454.0	451.2	427.6	539.6	575.0	615.1	621.3
35°	831.9	831.3	738.9	584.1	508.0	479.3	553.6	581.3	580.8	641.0	677.6
37.5°	957.0	963.2	866.2	705.2	525.5	484.4	577.9	626.8	629.2	710.7	696.7
40°	1147.3	1131.0	1044.2	842.0	600.3	516.4	633.7	641.0	687.2	741.8	762.0
42.5°	1282.5	1276.3	1248.1	1002.0	687.2	575.6	699.5	668.0	727.6	826.8	848.2
45°	1367.0	1336.6	1364.2	1119.2	826.4	702.4	714.2	756.5	820.1	924.9	985.1
47.5°	1452.0	1475.0	1410.3	1207.6	951.3	761.0	785.7	919.1	980.6	1074.6	1113.0
50°	1599.6	1574.8	1552.4	1340.5	1143.9	854.4	982.8	964.8	1137.2	1329.2	1336.0
52.5°	1689.7	1689.7	1653.2	1456.5	1276.9	992.4	1048.7	1113.0	1369.7	1543.8	1606.9
55°	1817.6	1844.0	1837.3	1593.5	1433.4	1180.0	1221.1	1356.4	1582.8	1806.3	1962.3
57.5°	1908.2	1944.8	2024.3	1739.8	1585.5	1256.5	1473.0	1623.2	1868.8	2140.9	2329.6
60°	2042.8	2043.5	2125.1	1869.5	1777.6	1402.4	1570.2	1871.1	2025.9	2462.4	2562.1
62.5°	2056.4	2079.4	2250.8	2071.0	1969.1	1554.5	1889.0	1998.9	2202.9	2785.7	2873.0
65°	1893.1	1955.0	2241.7	2165.6	2144.3	1694.8	1982.6	2251.8	2346.5	3092.1	3067.4
66°	1830.6	1882.8	2167.3	2186.5	2173.0	1778.7	2037.3	2317.6	2396.6	3145.1	3101.8
67.5°	1808.6	1846.8	2078.4	2209.0	2270.3	1930.7	2170.8	2349.8	2488.3	3106.8	3089.4
70°	1655.9	1703.7	1921.1	2357.7	2478.2	2209.7	2342.5	2427.5	2553.2	2916.9	2841.5
72.5°	1262.7	1311.7	1472.3	1945.4	2495.8	2621.9	2608.9	2525.6	2342.5	2317.6	2196.6
75°	626.3	678.7	791.9	1133.8	1942.0	2575.7	2593.6	2277.2	1893.1	1494.8	1401.8
77.5°	323.8	365.0	305.9	434.2	998.6	1827.2	1835.5	1501.5	1097.2	698.4	652.2
80°	220.9	229.7	208.3	214.1	411.2	933.9	870.7	799.2	441.5	320.4	334.6
82.5°	162.2	149.7	143.5	156.0	221.9	291.8	313.1	345.8	236.0	162.8	171.8
85°	76.5	84.5	82.9	95.2	135.1	99.7	153.3	207.9	157.2	104.7	103.0
87.5°	47.9	47.3	50.7	58.6	81.7	65.8	83.9	103.0	94.6	65.3	64.1
90°	31.5	28.1	26.5	31.5	45.6	32.7	45.0	58.6	53.4	35.6	33.2
92.5°	21.4	21.4	23.0	26.5	39.4	34.9	32.1	33.2	33.2	27.6	26.5
95°	15.8	16.9	19.1	19.8	23.6	20.3	26.0	28.7	29.3	22.5	22.0
97.5°	13.6	14.6	15.8	16.3	19.8	16.3	21.4	25.3	24.8	18.1	18.5
100°	12.3	13.6	13.6	14.1	15.8	12.3	17.4	23.6	22.5	15.8	15.2
102.5°	11.9	11.9	11.3	11.3	12.3	9.6	14.6	20.8	16.9	12.9	11.9
105°	11.3	11.3	9.6	9.1	9.6	7.8	11.9	15.8	11.9	10.7	10.7
107.5°	10.7	10.2	8.4	7.4	7.8	6.2	9.6	10.2	8.4	9.6	10.2



REPORT NUMBER: P266388

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	9.6	9.6	7.4	6.2	6.2	5.1	6.7	7.4	7.4	9.6	10.2
112.5°	9.1	8.4	6.2	5.1	5.1	4.5	5.1	5.6	6.2	9.1	9.6
115°	8.4	7.8	5.6	4.5	4.0	3.4	4.0	4.5	5.6	9.1	9.1
117.5°	7.8	7.4	5.1	4.0	3.4	2.9	3.4	4.0	5.6	9.1	9.1
120°	7.8	7.4	5.1	3.4	2.9	2.9	2.9	3.4	6.2	9.1	9.6
122.5°	7.4	7.4	5.1	3.4	2.9	2.2	2.2	3.4	5.6	8.4	8.4
125°	7.4	7.4	4.5	2.9	2.2	2.2	2.2	2.9	5.6	7.8	8.4
127.5°	6.7	6.7	4.5	2.9	2.2	1.6	1.6	2.9	5.1	7.8	7.8
130°	6.7	6.7	4.5	2.2	1.6	1.6	1.6	2.2	5.1	7.4	7.4
132.5°	5.6	5.6	4.0	2.2	1.6	1.1	1.6	2.2	4.5	6.2	6.7
135°	5.6	5.6	4.0	2.2	1.6	1.1	1.1	2.2	4.0	5.6	5.6
137.5°	5.1	5.1	3.4	2.2	1.6	1.1	1.1	1.6	3.4	5.1	5.1
140°	4.5	4.5	4.0	2.2	1.6	1.1	1.1	1.1	2.9	4.0	4.0
142.5°	4.5	4.5	3.4	2.2	1.1	0.5	0.5	1.1	2.2	2.9	2.9
145°	4.0	4.0	3.4	2.2	1.1	0.5	0.5	1.1	1.6	2.2	2.2
147.5°	4.0	4.0	3.4	1.6	0.5	0.5	0.5	1.1	1.6	2.2	2.2
150°	3.4	3.4	2.2	1.1	0.0	0.0	0.5	0.5	1.1	1.6	1.6
152.5°	2.2	2.2	1.6	0.5	0.0	0.0	0.0	0.5	1.1	1.1	1.1
155°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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: P266388

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	10.2	10.2	10.2	10.2	10.2	10.2	9.6	9.6	9.6	9.6	9.6
5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	10.2	10.7	10.7	10.7
7.5°	10.7	10.7	10.2	9.6	10.2	11.3	16.9	38.8	57.0	69.9	69.3
10°	17.4	17.4	16.3	14.1	17.4	38.3	75.5	76.0	63.2	58.0	60.2
12.5°	92.3	82.3	69.9	57.4	56.4	68.1	64.1	89.6	100.3	107.5	106.4
15°	105.9	112.1	102.4	115.0	117.7	69.9	109.2	146.5	157.7	162.2	167.3
17.5°	174.6	193.1	138.0	130.7	131.2	139.6	147.6	154.9	158.3	156.6	157.2
20°	263.1	250.6	269.2	229.7	175.7	186.9	171.2	169.1	223.0	270.8	264.7
22.5°	268.7	290.1	265.3	242.7	268.7	190.4	236.0	250.6	258.0	264.1	272.0
25°	434.8	424.7	371.7	278.8	265.3	254.0	256.2	261.9	276.0	297.3	310.4
27.5°	461.9	459.7	411.2	375.8	282.7	317.7	263.1	316.6	341.9	364.4	368.9
30°	621.3	627.5	473.0	360.9	327.8	272.0	305.2	326.2	345.8	377.4	377.9
32.5°	660.2	673.1	523.3	399.3	343.6	281.6	307.0	322.8	397.6	427.0	428.0
35°	670.2	703.6	539.6	385.3	331.7	280.5	283.3	337.4	374.6	434.2	455.7
37.5°	776.8	752.5	573.4	390.4	310.4	269.9	305.9	323.8	382.5	420.8	428.0
40°	821.8	808.2	595.3	400.5	306.4	300.3	283.3	301.9	329.5	357.0	357.0
42.5°	905.8	852.8	607.8	393.2	298.0	322.1	258.5	279.4	305.2	289.0	295.7
45°	1017.2	946.3	650.0	354.3	282.2	273.8	248.4	280.5	264.1	264.1	260.8
47.5°	1161.4	1064.5	635.9	340.7	317.7	259.2	327.8	263.7	243.4	252.3	253.0
50°	1389.5	1274.7	679.3	331.7	301.3	254.0	280.5	254.6	254.6	260.8	258.5
52.5°	1675.6	1449.1	697.9	331.1	285.0	295.7	278.3	304.7	263.7	285.5	282.7
55°	1985.4	1712.2	716.9	326.7	282.2	266.9	340.2	291.8	273.8	313.7	314.9
57.5°	2378.0	2017.0	795.9	317.7	283.3	267.5	321.1	326.7	333.5	360.0	363.9
60°	2622.4	2185.9	726.0	334.6	280.5	305.2	373.4	365.0	344.1	442.1	456.8
62.5°	2808.9	2313.8	598.1	348.6	331.7	307.5	385.8	425.7	406.7	446.1	457.3
65°	2842.6	2302.5	457.3	348.6	327.3	358.2	462.9	424.7	362.1	366.1	361.6
66°	2840.4	2268.1	421.2	351.4	331.7	373.4	454.5	429.7	350.2	354.3	345.8
67.5°	2747.5	2159.4	366.1	347.6	363.3	383.5	446.6	401.1	336.9	337.9	329.5
70°	2389.9	1821.6	311.4	357.0	376.7	384.7	488.3	373.4	309.2	301.3	299.7
72.5°	1757.9	1292.0	291.8	355.4	382.5	372.8	411.8	307.0	266.9	251.2	249.5
75°	988.5	660.2	290.6	340.7	338.5	319.9	311.4	236.6	220.9	202.2	198.9
77.5°	455.7	318.2	246.1	274.3	255.7	253.0	232.0	197.2	188.1	175.7	170.7
80°	263.7	224.8	175.2	181.9	183.7	178.6	187.6	177.4	167.9	158.8	150.3
82.5°	153.8	142.6	127.9	120.0	120.0	128.4	154.2	147.6	140.2	132.4	113.7
85°	96.3	92.3	87.2	83.9	83.9	77.2	111.0	123.3	116.6	99.7	89.0
87.5°	63.2	65.8	58.6	59.2	57.4	51.3	74.9	82.9	71.0	57.0	47.3
90°	28.7	31.5	34.3	33.7	36.7	28.1	41.1	42.2	37.6	26.0	18.5
92.5°	22.0	26.0	28.7	28.7	31.5	19.1	29.9	33.2	31.0	24.3	17.4
95°	18.5	23.0	27.6	26.9	26.9	15.2	27.6	31.0	29.3	20.8	15.2
97.5°	15.2	18.5	22.5	22.5	24.8	12.9	25.3	29.9	28.1	20.8	14.6
100°	14.1	16.9	19.8	20.3	22.5	10.2	23.0	28.1	25.3	17.4	14.1
102.5°	12.9	14.1	16.3	16.3	16.9	9.1	18.5	23.0	20.3	13.6	13.6
105°	11.9	11.9	11.9	10.7	10.7	7.4	11.3	15.8	12.3	10.7	11.9
107.5°	11.3	10.7	9.1	8.4	7.8	6.2	7.8	9.6	7.4	9.6	10.7



REPORT NUMBER: P266388

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	10.7	10.7	8.4	7.4	6.7	5.6	6.7	6.2	6.2	9.6	10.2
112.5°	10.7	10.2	7.4	6.2	5.6	5.1	5.6	4.5	5.6	9.6	10.2
115°	10.2	10.2	6.7	5.6	5.6	4.5	4.5	4.0	5.1	9.1	10.2
117.5°	10.2	10.2	6.7	5.1	4.5	4.0	4.0	4.0	5.1	9.1	10.2
120°	10.2	9.6	6.7	5.1	4.0	3.4	3.4	3.4	5.1	9.1	9.6
122.5°	9.6	9.1	6.2	4.5	4.0	3.4	2.9	3.4	5.1	8.4	9.1
125°	9.1	9.1	6.2	4.0	3.4	2.9	2.2	2.9	5.1	8.4	9.1
127.5°	9.1	8.4	5.6	3.4	2.9	2.9	2.2	2.9	5.1	7.8	8.4
130°	7.8	7.8	5.1	3.4	2.2	2.2	1.6	2.2	5.1	7.8	7.8
132.5°	7.4	6.7	4.5	2.9	2.2	1.6	1.6	1.6	4.5	6.7	7.4
135°	6.2	5.6	4.0	2.2	1.6	1.6	1.1	1.6	4.0	6.2	6.2
137.5°	5.1	5.1	4.0	2.2	1.6	1.1	1.1	1.6	4.0	5.6	6.2
140°	4.5	4.0	2.9	1.6	1.1	1.1	1.1	1.6	3.4	4.5	5.1
142.5°	3.4	3.4	2.2	1.6	1.1	1.1	0.5	1.1	2.9	4.0	4.0
145°	2.9	2.9	2.2	1.1	1.1	0.5	0.5	0.5	2.2	2.9	3.4
147.5°	2.2	2.2	1.6	1.1	0.5	0.5	0.0	0.5	1.6	2.2	2.2
150°	1.6	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.5	1.1	1.1
152.5°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)