

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: P241080

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-SL3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8079.2 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 96
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



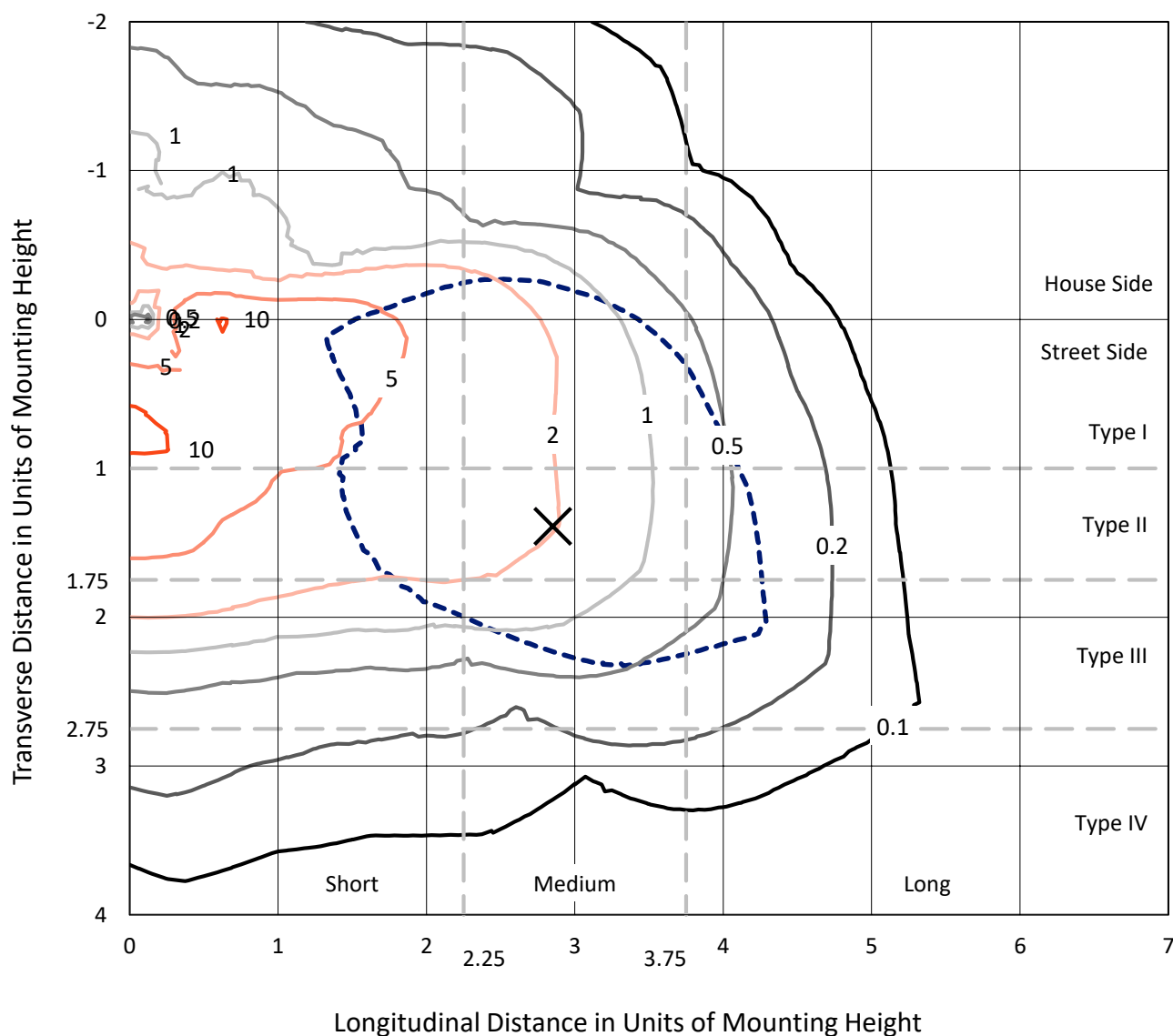
REPORT NUMBER: P241080

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

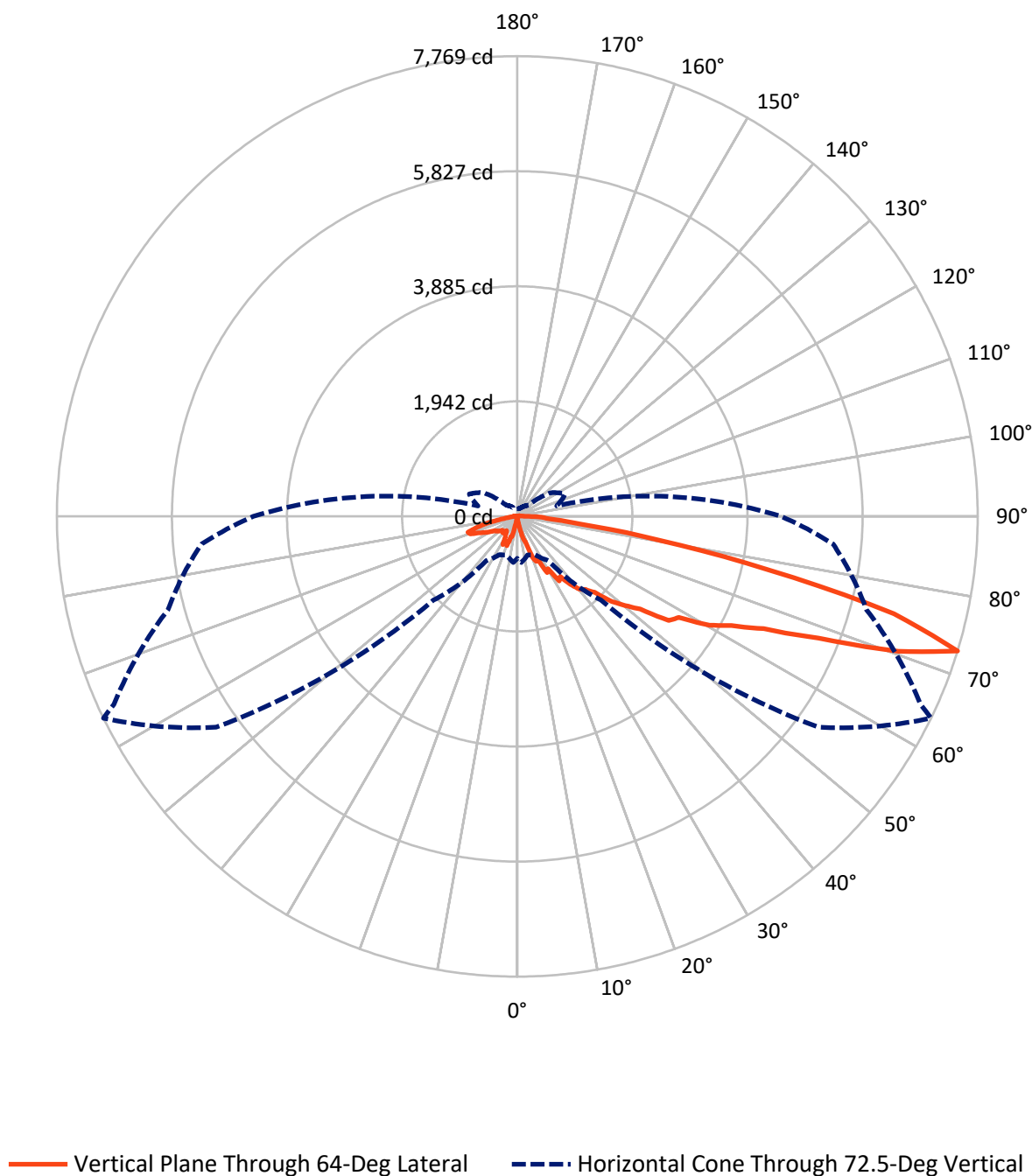


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P241080

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

Luminous Intensity Polar Plot



REPORT NUMBER: P241080

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

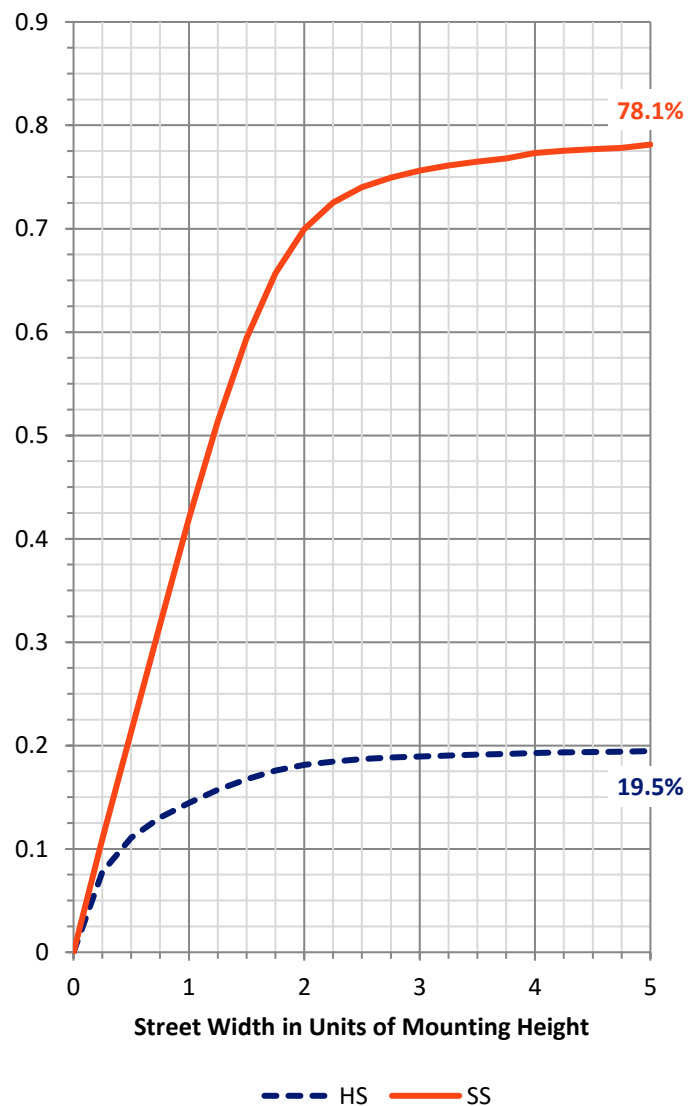
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1599.3	49.8	1649.1
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	6378.6	51.5	6430.1
	% Fixture	79.0	0.6	79.6
Total	Lumens	7977.9	101.3	8079.2
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.1
10°-20°	107.9	1.3
20°-30°	317.4	3.9
30°-40°	629.6	7.8
40°-50°	1086.4	13.4
50°-60°	1756.2	21.7
60°-70°	2225.7	27.5
70°-80°	1594.7	19.7
80°-90°	250.1	3.1
90°-100°	50.4	0.6
100°-110°	22.4	0.3
110°-120°	11.5	0.1
120°-130°	8.5	0.1
130°-140°	5.3	0.1
140°-150°	2.6	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7977.9	98.7
0°-180°	8079.2	100.0

Coefficient of Utilization



REPORT NUMBER: P241080

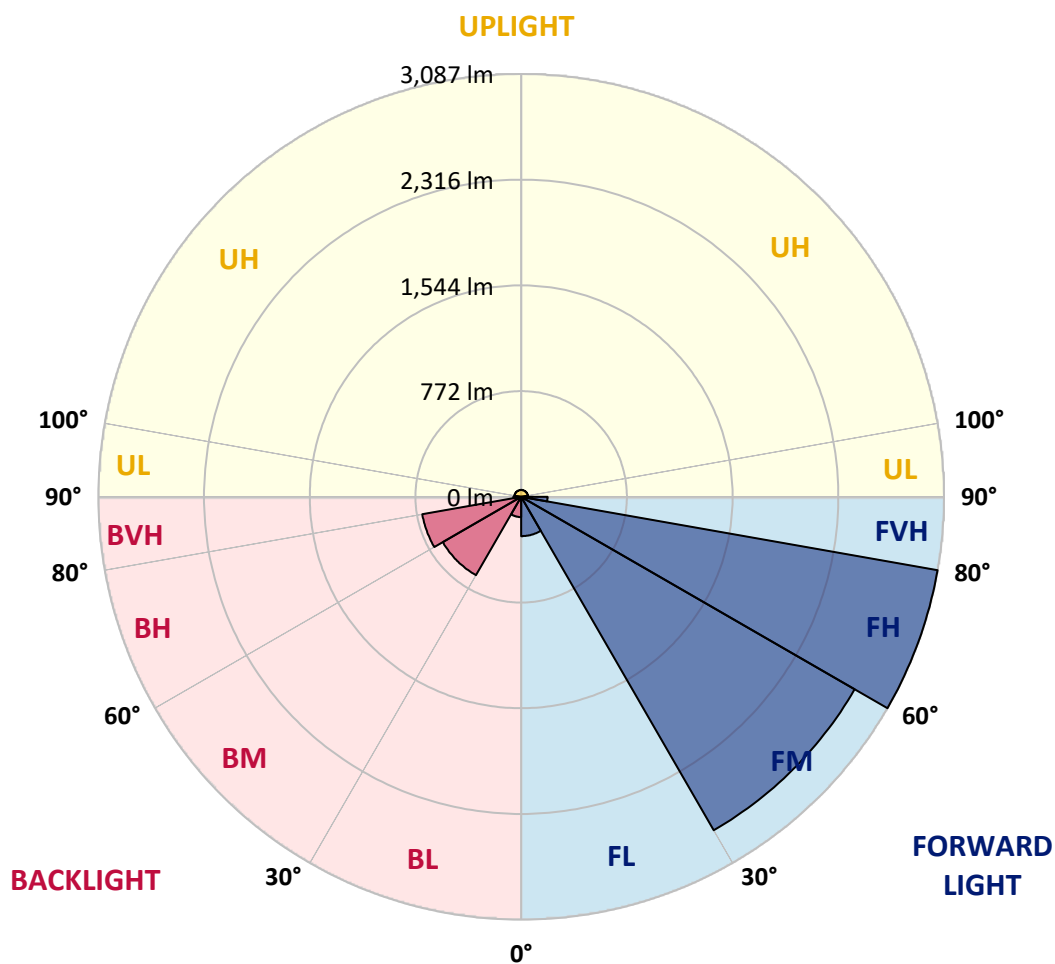
CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.3	3.6			
FM	(30°-60°)	2811.4	34.8			
FH	(60°-80°)	3087.4	38.2			G2/5000
FVH	(80°-90°)	192.5	2.4			G2/225
BL	(0°-30°)	148.0	1.8	B1/500		
BM	(30°-60°)	660.7	8.2	B1/1000		
BH	(60°-80°)	733.0	9.1	B2/1000		G2/1000
BVH	(80°-90°)	57.6	0.7			G1/100
UL	(90°-100°)	50.4	0.6		U3/500	
UH	(100°-180°)	49.8	0.6		U2/50	

BUG Rating: B2-U3-G2

Type III Medium





REPORT NUMBER: P241080

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	56.3	50.1	52.2	46.0	38.9	31.7	26.6	23.5	23.5	22.5	20.5
5°	195.4	199.5	224.0	188.2	170.8	223.0	62.4	35.8	33.8	23.5	19.4
7.5°	260.9	273.1	195.4	162.6	152.4	245.5	183.1	100.2	82.9	30.7	21.5
10°	494.1	460.3	311.0	339.6	316.1	201.5	134.0	137.1	125.8	50.1	34.8
12.5°	441.9	447.0	457.3	415.3	427.6	317.1	162.6	267.0	285.4	321.2	301.8
15°	515.6	494.1	415.3	452.1	430.7	501.2	421.5	392.8	431.7	444.0	369.3
17.5°	699.7	684.4	794.8	542.2	393.8	563.6	501.2	459.3	436.8	486.9	588.2
20°	643.4	644.5	690.5	612.7	636.3	518.6	504.3	741.6	890.0	843.9	820.4
22.5°	968.7	939.1	780.5	608.7	672.1	594.3	708.9	827.6	785.6	766.2	827.6
25°	941.1	952.4	905.3	914.5	673.1	794.8	738.6	789.7	839.8	1205.0	1358.5
27.5°	1157.0	1093.5	1039.3	947.3	926.8	747.8	714.0	1073.1	1101.7	1208.1	1273.6
30°	1522.2	1490.4	1391.2	1081.3	967.7	804.0	976.9	1027.0	1045.5	1421.9	1759.5
32.5°	1932.4	1815.7	1529.3	1414.7	1052.6	992.3	919.6	1299.1	1277.7	1576.4	1777.9
35°	2234.1	2164.6	1894.5	1538.5	1265.4	1060.8	1237.8	1249.0	1358.5	1650.0	1794.3
37.5°	2170.7	2190.1	2078.6	1836.2	1392.2	1146.7	1339.0	1454.6	1464.9	1787.1	1901.7
40°	2335.4	2347.7	2308.8	2037.7	1606.0	1319.6	1504.8	1613.2	1527.3	1955.9	2032.6
42.5°	2431.6	2451.0	2525.7	2330.3	1811.6	1508.9	1764.6	1687.9	1612.2	2101.1	2311.9
45°	2641.3	2631.0	2663.8	2431.6	2116.5	1898.6	1852.6	1829.0	1857.7	2362.0	2580.9
47.5°	2933.8	2974.7	2813.1	2480.7	2345.6	1994.8	2099.1	2144.1	2252.5	2699.6	2854.0
50°	3366.5	3314.4	3121.0	2698.5	2571.7	2121.6	2571.7	2365.1	2308.8	3007.5	3262.2
52.5°	3542.5	3508.7	3234.6	2790.6	2712.9	2362.0	2651.5	2599.3	2579.9	3433.0	3716.4
55°	3612.0	3587.5	3473.9	2807.0	2840.7	2721.0	3041.2	3101.6	3068.9	3703.1	4174.7
57.5°	3427.9	3468.8	3477.0	2873.5	2927.7	2763.0	3654.0	3217.2	3451.4	4041.7	4530.6
60°	3178.3	3180.4	3288.8	2865.3	3008.5	3031.0	3787.0	3727.6	3946.5	4220.7	4628.9
62.5°	2561.5	2634.1	2813.1	2808.0	3121.0	3378.8	4440.6	4058.0	4144.0	4402.8	4936.8
65°	1699.1	1738.0	1954.9	2328.2	2920.5	3656.0	4977.7	4571.6	4693.3	4749.6	5384.8
67.5°	1013.7	1061.8	1092.5	1487.4	2438.7	3711.3	6091.7	5483.0	5372.5	5274.3	5833.9
70°	847.0	878.7	789.7	890.0	1490.4	3369.6	6628.7	6816.9	6457.9	5984.3	5929.0
72.5°	709.9	779.5	673.1	712.0	907.4	1999.9	6205.2	7769.3	7508.5	6102.9	5349.0
75°	526.8	624.0	560.6	639.3	837.8	1027.0	4682.0	6565.3	6483.5	5289.7	3970.1
77.5°	411.2	428.6	350.9	482.8	805.1	849.0	2809.0	4328.1	4257.5	3372.7	1841.3
80°	288.5	295.6	277.2	251.6	622.0	795.9	1422.9	2399.8	2250.5	1047.5	611.7
82.5°	182.1	194.4	216.9	170.8	301.8	742.7	784.6	1056.7	941.1	356.0	303.8
85°	109.5	119.7	134.0	119.7	141.2	567.7	607.6	543.2	496.1	216.9	192.3
87.5°	63.4	66.5	80.8	82.9	105.4	330.4	484.9	404.1	355.0	144.2	124.8
90°	44.0	40.9	40.9	43.0	54.2	144.2	237.3	141.2	142.2	75.7	65.5
92.5°	33.8	33.8	36.8	36.8	52.2	126.8	109.5	75.7	71.6	63.4	52.2
95°	25.6	27.6	27.6	29.7	35.8	38.9	54.2	56.3	56.3	57.3	46.0
97.5°	21.5	23.5	23.5	24.6	28.6	29.7	37.8	49.1	49.1	48.1	37.8
100°	20.5	21.5	20.5	20.5	23.5	22.5	30.7	41.9	44.0	41.9	32.7
102.5°	19.4	20.5	18.4	16.4	20.5	16.4	25.6	37.8	38.9	30.7	25.6
105°	19.4	19.4	16.4	13.3	16.4	13.3	21.5	26.6	26.6	21.5	24.6
107.5°	19.4	18.4	14.3	11.3	12.3	11.3	17.4	17.4	17.4	16.4	23.5
110°	17.4	16.4	13.3	10.2	9.2	9.2	12.3	12.3	12.3	14.3	23.5



REPORT NUMBER: P241080

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	15.3	14.3	11.3	8.2	7.2	7.2	8.2	9.2	9.2	13.3	22.5
115°	13.3	13.3	10.2	8.2	6.1	6.1	7.2	8.2	8.2	12.3	21.5
117.5°	13.3	13.3	9.2	7.2	5.1	5.1	6.1	7.2	7.2	12.3	22.5
120°	13.3	13.3	9.2	6.1	5.1	4.1	5.1	6.1	6.1	13.3	23.5
122.5°	12.3	12.3	9.2	6.1	4.1	4.1	4.1	6.1	6.1	12.3	21.5
125°	12.3	12.3	8.2	6.1	4.1	4.1	4.1	5.1	6.1	13.3	21.5
127.5°	11.3	11.3	9.2	6.1	4.1	3.1	4.1	5.1	5.1	12.3	20.5
130°	11.3	11.3	8.2	5.1	3.1	3.1	3.1	4.1	5.1	11.3	18.4
132.5°	10.2	10.2	7.2	5.1	3.1	2.0	3.1	4.1	4.1	10.2	16.4
135°	10.2	10.2	8.2	5.1	3.1	2.0	3.1	4.1	4.1	9.2	14.3
137.5°	9.2	9.2	7.2	5.1	3.1	2.0	2.0	3.1	4.1	9.2	13.3
140°	9.2	9.2	8.2	6.1	3.1	2.0	2.0	3.1	3.1	7.2	10.2
142.5°	10.2	10.2	8.2	5.1	3.1	2.0	2.0	2.0	3.1	5.1	8.2
145°	9.2	9.2	7.2	5.1	3.1	1.0	1.0	2.0	3.1	5.1	7.2
147.5°	9.2	9.2	8.2	5.1	2.0	1.0	1.0	2.0	2.0	4.1	6.1
150°	8.2	8.2	6.1	3.1	1.0	0.0	1.0	2.0	2.0	3.1	5.1
152.5°	6.1	6.1	4.1	2.0	0.0	0.0	0.0	1.0	1.0	2.0	3.1
155°	3.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
157.5°	1.0	1.0	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



REPORT NUMBER: P241080

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	20.5	20.5	20.5	20.5	19.4	19.4	18.4	18.4	18.4	18.4	18.4
5°	19.4	19.4	19.4	18.4	17.4	16.4	17.4	16.4	16.4	16.4	16.4
7.5°	20.5	20.5	18.4	17.4	17.4	17.4	22.5	136.1	300.7	257.8	268.0
10°	37.8	35.8	30.7	25.6	23.5	135.0	257.8	236.3	180.0	150.4	154.5
12.5°	375.4	337.6	217.9	151.4	173.9	179.0	161.6	177.0	288.5	263.9	264.9
15°	375.4	384.6	315.1	355.0	306.9	143.2	276.2	329.4	320.2	294.6	308.9
17.5°	634.2	630.1	392.8	361.1	296.7	299.7	259.8	226.1	209.7	206.6	209.7
20°	940.1	783.6	748.8	545.2	333.5	305.9	214.8	182.1	232.2	286.4	293.6
22.5°	827.6	827.6	672.1	486.9	412.2	261.9	234.3	232.2	278.2	275.2	288.5
25°	1397.4	1214.2	870.5	469.5	360.1	266.0	237.3	215.8	242.4	279.3	276.2
27.5°	1288.9	1195.8	860.3	564.7	282.3	289.5	218.9	212.8	273.1	293.6	295.6
30°	1626.5	1498.6	869.5	424.5	284.4	223.0	202.5	216.9	228.1	247.6	249.6
32.5°	1684.8	1525.2	834.7	382.6	299.7	214.8	205.6	204.6	232.2	267.0	270.1
35°	1649.0	1463.8	786.6	322.2	300.7	216.9	210.7	233.2	212.8	248.6	253.7
37.5°	1894.5	1494.5	709.9	300.7	276.2	223.0	276.2	223.0	222.0	233.2	235.3
40°	1891.4	1563.1	623.0	367.2	276.2	367.2	288.5	232.2	199.5	218.9	219.9
42.5°	2043.9	1601.9	546.3	378.5	297.7	425.5	269.0	226.1	237.3	249.6	261.9
45°	2219.8	1724.7	511.5	340.6	335.5	329.4	280.3	294.6	214.8	344.7	359.1
47.5°	2460.2	1882.2	464.4	333.5	455.2	331.4	534.0	274.2	236.3	408.2	416.3
50°	2819.3	2159.4	468.5	366.2	417.4	355.0	359.1	297.7	319.2	424.5	426.6
52.5°	3201.8	2391.7	440.9	404.1	410.2	435.8	382.6	445.0	314.0	408.2	408.2
55°	3540.4	2734.3	454.2	425.5	428.6	379.5	539.1	328.4	313.0	410.2	420.4
57.5°	3982.3	3100.6	545.2	445.0	439.9	405.1	416.3	407.1	368.3	417.4	423.5
60°	4216.6	3367.6	683.3	500.2	460.3	467.5	493.1	391.8	334.5	487.9	507.4
62.5°	4587.9	3752.2	865.4	566.7	584.1	478.7	420.4	426.6	356.0	388.7	392.8
65°	5016.6	4152.2	955.4	632.2	629.1	531.9	476.7	331.4	231.2	213.8	212.8
67.5°	5338.8	4306.6	874.6	706.9	784.6	510.5	327.3	235.3	178.0	167.8	170.8
70°	5131.1	3953.7	748.8	848.0	793.8	395.9	282.3	187.2	152.4	143.2	148.3
72.5°	4451.9	3194.7	687.4	895.1	696.6	267.0	210.7	164.7	137.1	127.9	129.9
75°	3146.6	2053.1	705.8	758.0	495.1	193.3	182.1	137.1	121.7	109.5	109.5
77.5°	1382.0	879.7	553.4	546.3	317.1	153.4	154.5	113.5	105.4	94.1	94.1
80°	556.5	465.4	325.3	316.1	211.8	120.7	122.8	94.1	95.1	79.8	74.7
82.5°	294.6	266.0	181.1	169.8	151.4	93.1	87.0	80.8	79.8	65.5	57.3
85°	193.3	174.9	118.7	110.5	112.5	68.5	72.6	76.7	70.6	54.2	37.8
87.5°	119.7	118.7	83.9	79.8	83.9	49.1	59.3	62.4	59.3	40.9	24.6
90°	56.3	61.4	56.3	55.2	55.2	23.5	46.0	49.1	48.1	32.7	19.4
92.5°	44.0	50.1	52.2	53.2	53.2	24.6	48.1	51.1	49.1	33.8	21.5
95°	37.8	44.0	51.1	51.1	50.1	19.4	45.0	50.1	47.1	31.7	20.5
97.5°	31.7	36.8	44.0	44.0	48.1	16.4	41.9	48.1	47.1	33.8	21.5
100°	29.7	34.8	38.9	39.9	44.0	15.3	37.8	43.0	41.9	27.6	22.5
102.5°	27.6	29.7	30.7	31.7	32.7	14.3	29.7	32.7	31.7	20.5	20.5
105°	25.6	25.6	22.5	21.5	21.5	13.3	18.4	22.5	18.4	16.4	18.4
107.5°	25.6	24.6	18.4	16.4	16.4	12.3	14.3	14.3	12.3	16.4	17.4
110°	25.6	23.5	16.4	14.3	13.3	11.3	11.3	10.2	10.2	16.4	17.4



REPORT NUMBER: P241080

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.6	22.5	14.3	12.3	12.3	10.2	9.2	8.2	9.2	16.4	18.4
115°	23.5	21.5	13.3	12.3	11.3	9.2	8.2	6.1	9.2	17.4	19.4
117.5°	23.5	21.5	13.3	11.3	10.2	8.2	7.2	6.1	9.2	17.4	19.4
120°	24.6	21.5	13.3	10.2	9.2	7.2	6.1	6.1	9.2	17.4	19.4
122.5°	23.5	20.5	12.3	9.2	8.2	7.2	6.1	6.1	9.2	17.4	18.4
125°	22.5	20.5	12.3	8.2	7.2	6.1	5.1	5.1	10.2	17.4	18.4
127.5°	21.5	19.4	11.3	7.2	6.1	6.1	5.1	5.1	10.2	16.4	17.4
130°	19.4	17.4	11.3	7.2	5.1	5.1	4.1	4.1	10.2	16.4	17.4
132.5°	17.4	16.4	10.2	6.1	4.1	4.1	4.1	4.1	9.2	14.3	15.3
135°	15.3	13.3	9.2	5.1	4.1	3.1	3.1	3.1	8.2	12.3	13.3
137.5°	13.3	12.3	8.2	5.1	3.1	3.1	2.0	2.0	7.2	11.3	12.3
140°	11.3	10.2	7.2	4.1	3.1	3.1	2.0	2.0	5.1	8.2	9.2
142.5°	8.2	8.2	6.1	4.1	3.1	2.0	2.0	2.0	5.1	7.2	8.2
145°	7.2	7.2	6.1	4.1	3.1	2.0	1.0	1.0	3.1	5.1	5.1
147.5°	6.1	6.1	5.1	4.1	2.0	1.0	1.0	1.0	2.0	3.1	3.1
150°	5.1	5.1	4.1	3.1	2.0	1.0	0.0	0.0	1.0	2.0	2.0
152.5°	3.1	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	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)