

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: P241079

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241079
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-AF24-90-D-U-SL3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8062 lumens
Efficiency: N/A
Efficacy: 85.8 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): 94
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

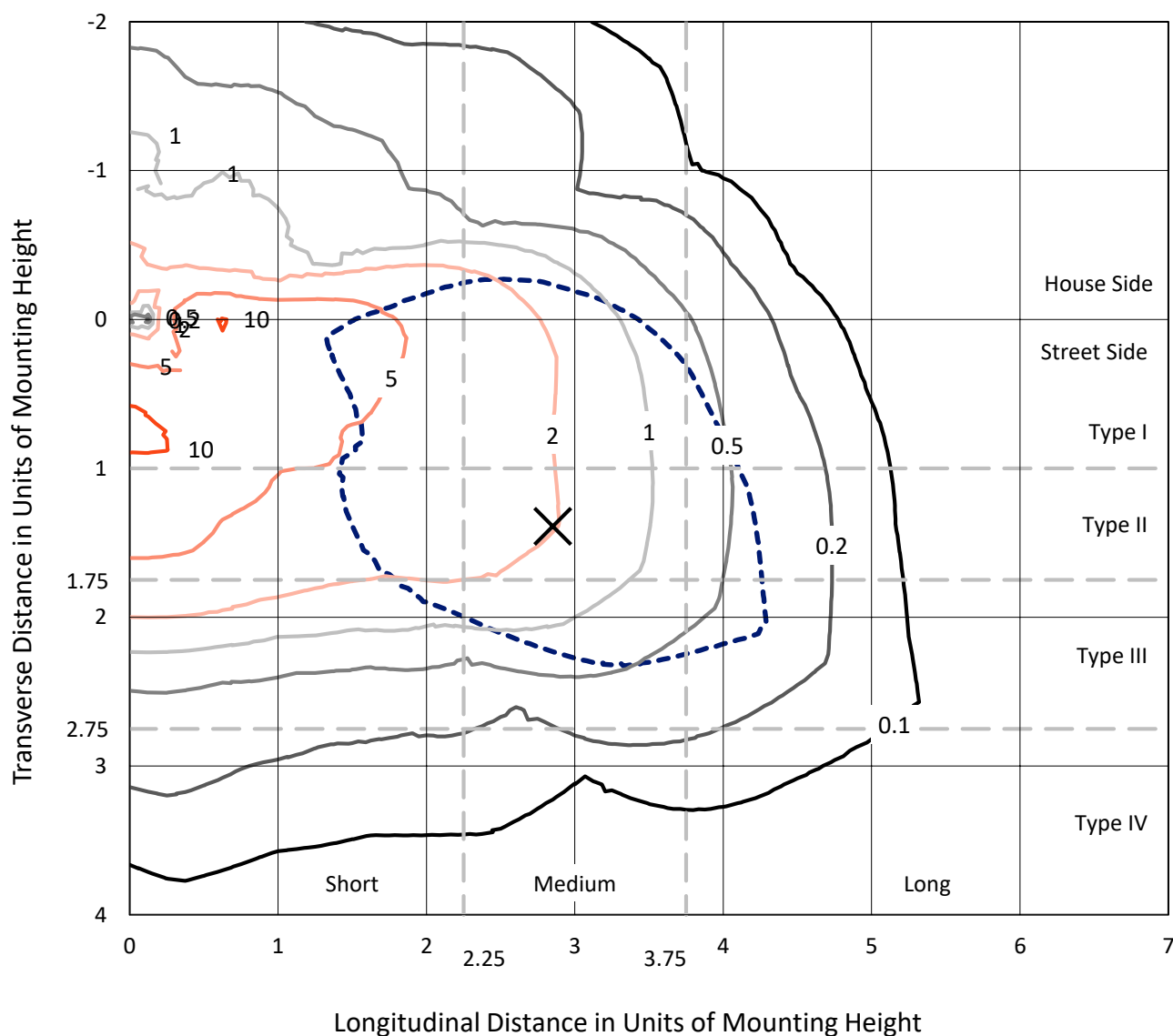


REPORT NUMBER: P241079

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-CL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

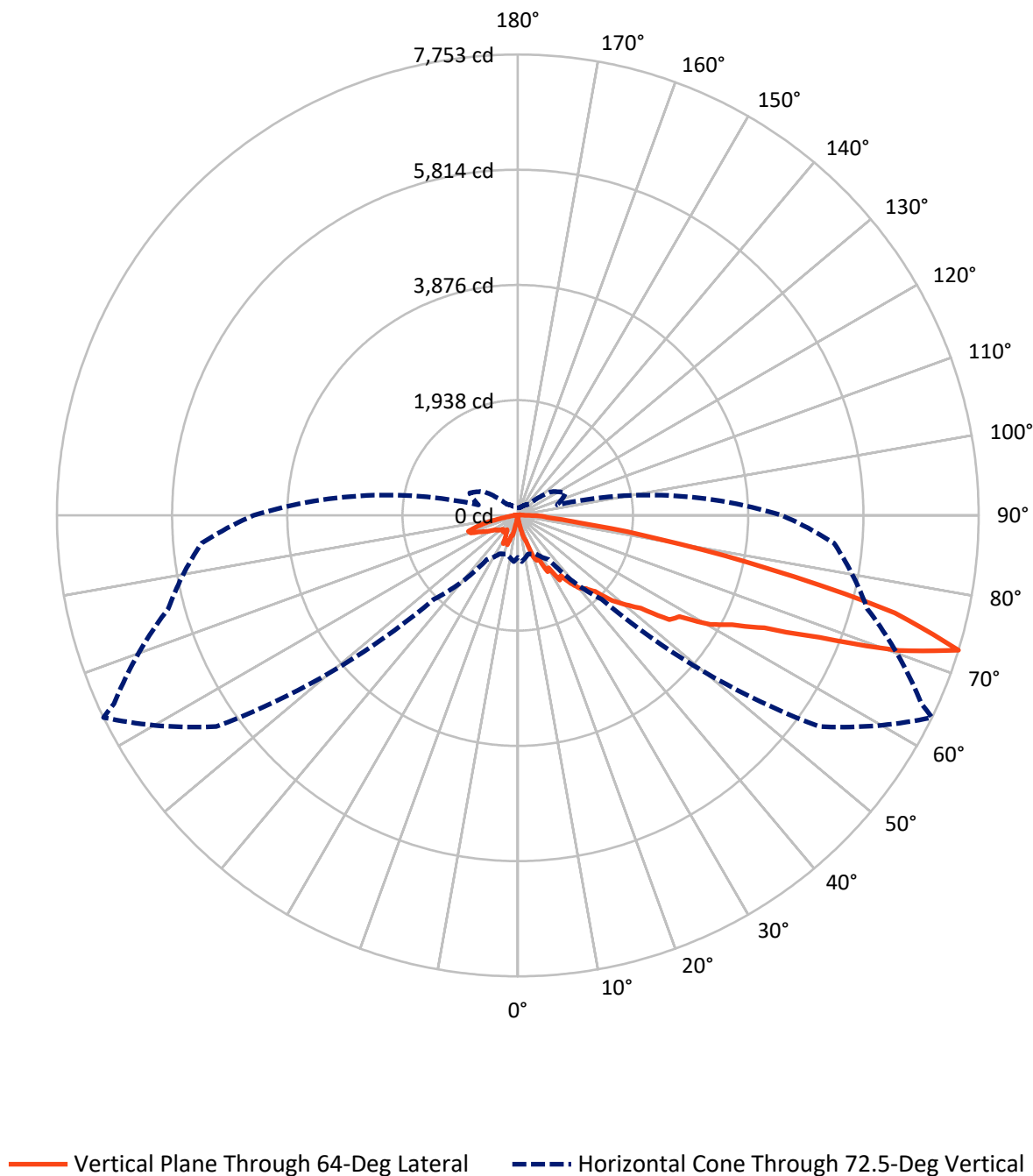


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P241079

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-CL

Luminous Intensity Polar Plot



REPORT NUMBER: P241079

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-CL

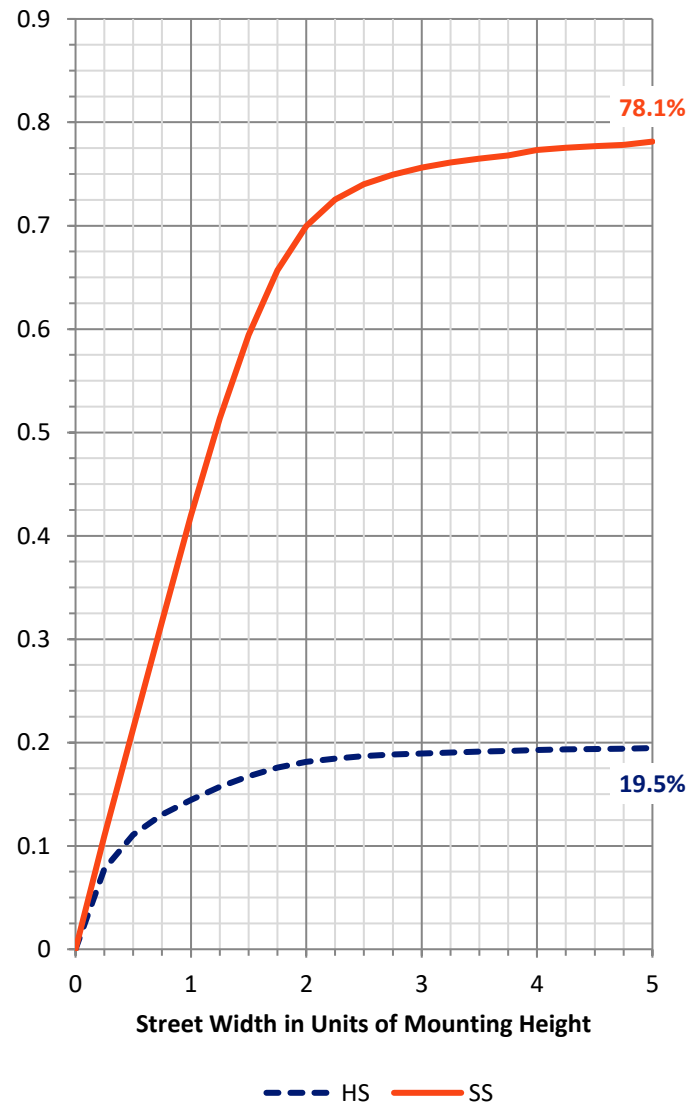
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1595.9	49.7	1645.6
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	6364.9	51.4	6416.3
	% Fixture	79.0	0.6	79.6
Total	Lumens	7960.8	101.2	8062.0
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.1
10°-20°	107.6	1.3
20°-30°	316.7	3.9
30°-40°	628.2	7.8
40°-50°	1084.0	13.4
50°-60°	1752.4	21.7
60°-70°	2221.0	27.5
70°-80°	1591.3	19.7
80°-90°	249.6	3.1
90°-100°	50.3	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°	7960.8	98.7
0°-180°	8062.0	100.0

Coefficient of Utilization



REPORT NUMBER: P241079

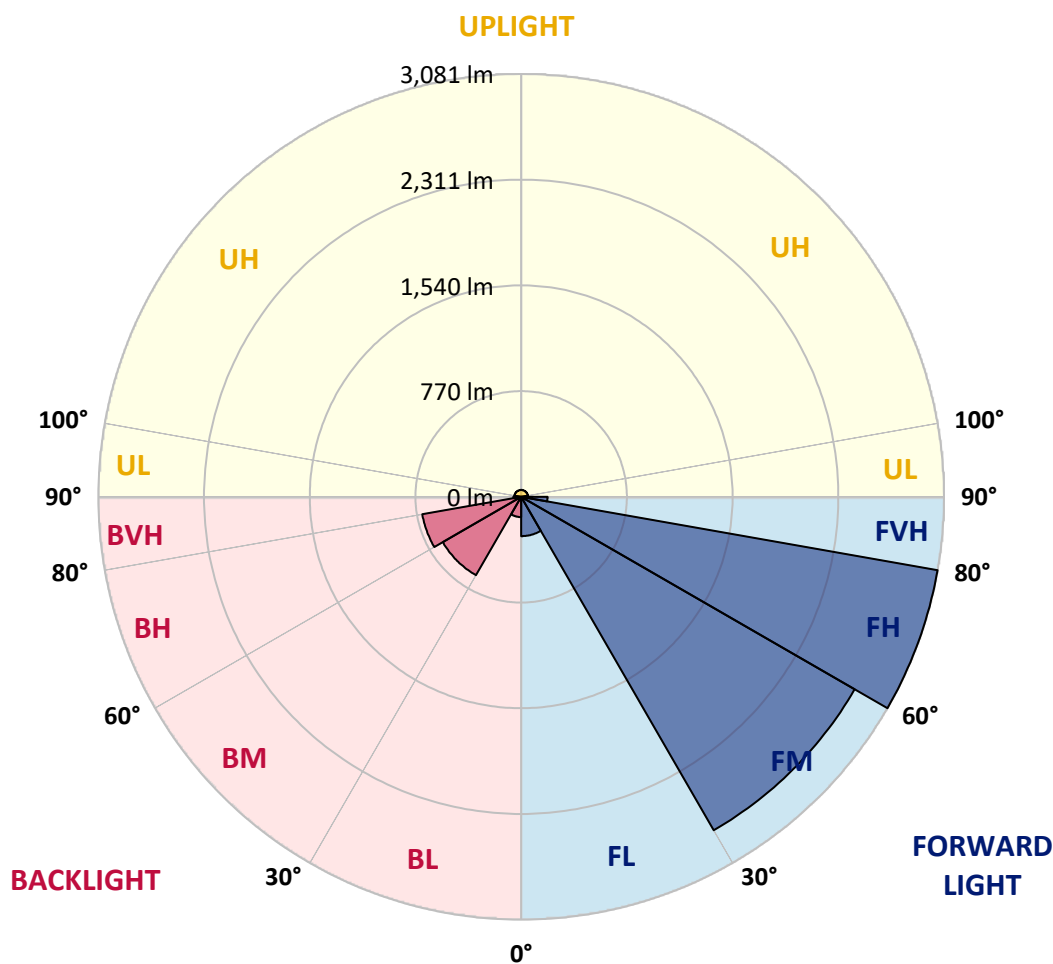
CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.7	3.6			
FM	(30°-60°)	2805.4	34.8			
FH	(60°-80°)	3080.8	38.2			G2/5000
FVH	(80°-90°)	192.0	2.4			G2/225
BL	(0°-30°)	147.7	1.8	B1/500		
BM	(30°-60°)	659.3	8.2	B1/1000		
BH	(60°-80°)	731.4	9.1	B2/1000		G2/1000
BVH	(80°-90°)	57.5	0.7			G1/100
UL	(90°-100°)	50.3	0.6		U3/500	
UH	(100°-180°)	49.7	0.6		U2/50	

BUG Rating: B2-U3-G2

Type III Medium





REPORT NUMBER: P241079

CATALOG NUMBER: UTLD-AF24-90-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°	56.2	50.0	52.1	45.9	38.8	31.6	26.5	23.5	23.5	22.5	20.5
5°	195.0	199.1	223.5	187.8	170.4	222.5	62.3	35.7	33.7	23.5	19.4
7.5°	260.3	272.5	195.0	162.3	152.1	245.0	182.7	100.0	82.7	30.6	21.5
10°	493.1	459.3	310.3	338.9	315.4	201.1	133.7	136.8	125.5	50.0	34.7
12.5°	441.0	446.1	456.2	414.4	426.7	316.4	162.3	266.4	284.8	320.5	301.2
15°	514.4	493.1	414.4	451.2	429.7	500.1	420.5	392.0	430.8	443.0	368.5
17.5°	698.2	682.9	793.1	541.0	393.0	562.4	500.1	458.3	435.9	485.9	587.0
20°	642.0	643.0	689.1	611.4	634.9	517.5	503.2	740.0	888.0	842.1	818.7
22.5°	966.7	937.0	778.9	607.3	670.6	593.1	707.4	825.8	784.0	764.6	825.8
25°	939.1	950.3	903.4	912.6	671.7	793.1	737.0	788.0	838.0	1202.5	1355.5
27.5°	1154.5	1091.2	1037.1	945.2	924.8	746.1	712.5	1070.7	1099.4	1205.5	1270.8
30°	1518.9	1487.3	1388.2	1078.9	965.7	802.3	974.9	1024.8	1043.2	1418.8	1755.7
32.5°	1928.2	1811.9	1526.0	1411.7	1050.4	990.1	917.7	1296.4	1274.9	1573.0	1774.1
35°	2229.3	2160.0	1890.4	1535.2	1262.6	1058.5	1235.1	1246.4	1355.5	1646.4	1790.4
37.5°	2166.0	2185.4	2074.1	1832.2	1389.3	1144.3	1336.2	1451.5	1461.7	1783.3	1897.6
40°	2330.4	2342.7	2303.9	2033.3	1602.6	1316.7	1501.5	1609.7	1524.0	1951.7	2028.2
42.5°	2426.3	2445.8	2520.2	2325.3	1807.8	1505.6	1760.8	1684.3	1608.7	2096.6	2306.9
45°	2635.6	2625.4	2658.0	2426.3	2112.0	1894.5	1848.6	1825.1	1853.7	2356.9	2575.4
47.5°	2927.5	2968.4	2807.1	2475.3	2340.6	1990.5	2094.6	2139.5	2247.7	2693.7	2847.9
50°	3359.3	3307.2	3114.4	2692.7	2566.2	2117.0	2566.2	2359.9	2303.9	3001.0	3255.2
52.5°	3534.9	3501.2	3227.6	2784.6	2707.0	2356.9	2645.8	2593.7	2574.4	3425.7	3708.4
55°	3604.3	3579.8	3466.5	2800.9	2834.6	2715.2	3034.7	3094.9	3062.3	3695.1	4165.7
57.5°	3420.5	3461.4	3469.5	2867.3	2921.4	2757.1	3646.1	3210.2	3444.1	4033.0	4520.9
60°	3171.5	3173.5	3281.7	2859.1	3002.1	3024.5	3778.9	3719.7	3938.1	4211.6	4618.9
62.5°	2555.9	2628.5	2807.1	2802.0	3114.4	3371.5	4431.1	4049.4	4135.1	4393.4	4926.1
65°	1695.4	1734.3	1950.7	2323.2	2914.3	3648.1	4967.0	4561.7	4683.3	4739.3	5373.3
67.5°	1011.6	1059.6	1090.2	1484.2	2433.5	3703.3	6078.6	5471.3	5361.0	5263.0	5821.4
70°	845.2	876.9	788.0	888.0	1487.3	3362.3	6614.5	6802.3	6444.1	5971.4	5916.3
72.5°	708.4	777.9	671.7	710.4	905.4	1995.6	6191.9	7752.6	7492.3	6089.8	5337.6
75°	525.7	622.7	559.3	638.0	836.0	1024.8	4672.0	6551.2	6469.6	5278.3	3961.6
77.5°	410.3	427.7	350.2	481.8	803.3	847.2	2803.0	4318.8	4248.4	3365.4	1837.3
80°	287.9	295.0	276.6	251.1	620.6	794.1	1419.9	2394.7	2245.7	1045.3	610.4
82.5°	181.7	194.0	216.4	170.4	301.2	741.0	783.0	1054.5	939.1	355.3	303.2
85°	109.3	119.4	133.7	119.4	140.9	566.5	606.3	542.1	495.1	216.4	191.9
87.5°	63.3	66.4	80.6	82.7	105.2	329.7	483.9	403.2	354.2	143.9	124.5
90°	43.9	40.8	40.8	42.9	54.1	143.9	236.8	140.9	141.9	75.5	65.4
92.5°	33.7	33.7	36.7	36.7	52.1	126.5	109.3	75.5	71.4	63.3	52.1
95°	25.5	27.5	27.5	29.6	35.7	38.8	54.1	56.2	56.2	57.2	45.9
97.5°	21.5	23.5	23.5	24.4	28.5	29.6	37.7	49.0	49.0	48.0	37.7
100°	20.5	21.5	20.5	20.5	23.5	22.5	30.6	41.8	43.9	41.8	32.6
102.5°	19.4	20.5	18.4	16.4	20.5	16.4	25.5	37.7	38.8	30.6	25.5
105°	19.4	19.4	16.4	13.3	16.4	13.3	21.5	26.5	26.5	21.5	24.4
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: P241079

CATALOG NUMBER: UTLD-AF24-90-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: P241079

CATALOG NUMBER: UTLD-AF24-90-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	135.7	300.1	257.3	267.4
10°	37.7	35.7	30.6	25.5	23.5	134.7	257.3	235.8	179.6	150.1	154.2
12.5°	374.6	336.9	217.4	151.1	173.5	178.6	161.3	176.6	287.9	263.3	264.3
15°	374.6	383.8	314.4	354.2	306.3	142.9	275.6	328.7	319.5	294.0	308.3
17.5°	632.9	628.8	392.0	360.3	296.0	299.1	259.3	225.6	209.3	206.2	209.3
20°	938.0	781.9	747.2	544.1	332.8	305.2	214.3	181.7	231.7	285.8	293.0
22.5°	825.8	825.8	670.6	485.9	411.3	261.4	233.7	231.7	277.6	274.6	287.9
25°	1394.4	1211.7	868.7	468.5	359.3	265.4	236.8	215.3	241.9	278.7	275.6
27.5°	1286.2	1193.3	858.5	563.4	281.7	288.9	218.4	212.4	272.5	293.0	295.0
30°	1623.0	1495.5	867.7	423.6	283.8	222.5	202.1	216.4	227.6	247.0	249.1
32.5°	1681.2	1521.9	832.9	381.8	299.1	214.3	205.2	204.2	231.7	266.4	269.4
35°	1645.4	1460.7	784.9	321.5	300.1	216.4	210.3	232.7	212.4	248.1	253.2
37.5°	1890.4	1491.4	708.4	300.1	275.6	222.5	275.6	222.5	221.5	232.7	234.8
40°	1887.3	1559.7	621.6	366.4	275.6	366.4	287.9	231.7	199.1	218.4	219.4
42.5°	2039.5	1598.5	545.1	377.7	297.1	424.6	268.4	225.6	236.8	249.1	261.4
45°	2215.0	1721.0	510.4	339.9	334.8	328.7	279.7	294.0	214.3	344.0	358.2
47.5°	2454.9	1878.2	463.4	332.8	454.2	330.7	532.9	273.5	235.8	407.2	415.4
50°	2813.2	2154.8	467.5	365.4	416.4	354.2	358.2	297.1	318.4	423.6	425.6
52.5°	3195.0	2386.5	440.0	403.2	409.3	434.9	381.8	444.1	313.3	407.2	407.2
55°	3532.9	2728.5	453.2	424.6	427.7	378.7	538.0	327.7	312.3	409.3	419.5
57.5°	3973.8	3093.9	544.1	444.1	438.9	404.3	415.4	406.2	367.4	416.4	422.6
60°	4207.6	3360.3	681.9	499.2	459.3	466.5	492.0	391.0	333.8	486.9	506.3
62.5°	4578.1	3744.1	863.6	565.5	582.9	477.7	419.5	425.6	355.3	387.9	392.0
65°	5005.8	4143.3	953.4	630.9	627.8	530.8	475.7	330.7	230.7	213.4	212.4
67.5°	5327.3	4297.4	872.8	705.3	783.0	509.3	326.6	234.8	177.6	167.4	170.4
70°	5120.1	3945.2	747.2	846.2	792.1	395.1	281.7	186.8	152.1	142.9	148.0
72.5°	4442.4	3187.8	686.0	893.1	695.1	266.4	210.3	164.4	136.8	127.6	129.6
75°	3139.8	2048.7	704.3	756.4	494.1	192.9	181.7	136.8	121.4	109.3	109.3
77.5°	1379.0	877.9	552.2	545.1	316.4	153.1	154.2	113.3	105.2	93.9	93.9
80°	555.3	464.4	324.6	315.4	211.3	120.4	122.4	93.9	94.9	79.6	74.5
82.5°	294.0	265.4	180.7	169.4	151.1	92.9	86.7	80.6	79.6	65.4	57.2
85°	192.9	174.5	118.5	110.3	112.3	68.4	72.4	76.5	70.5	54.1	37.7
87.5°	119.4	118.5	83.7	79.6	83.7	49.0	59.2	62.3	59.2	40.8	24.4
90°	56.2	61.3	56.2	55.1	55.1	23.5	45.9	49.0	48.0	32.6	19.4
92.5°	43.9	50.0	52.1	53.1	53.1	24.4	48.0	51.0	49.0	33.7	21.5
95°	37.7	43.9	51.0	51.0	50.0	19.4	44.9	50.0	47.0	31.6	20.5
97.5°	31.6	36.7	43.9	43.9	48.0	16.4	41.8	48.0	47.0	33.7	21.5
100°	29.6	34.7	38.8	39.8	43.9	15.3	37.7	42.9	41.8	27.5	22.5
102.5°	27.5	29.6	30.6	31.6	32.6	14.3	29.6	32.6	31.6	20.5	20.5
105°	25.5	25.5	22.5	21.5	21.5	13.3	18.4	22.5	18.4	16.4	18.4
107.5°	25.5	24.4	18.4	16.4	16.4	12.3	14.3	14.3	12.3	16.4	17.4
110°	25.5	23.5	16.4	14.3	13.3	11.3	11.3	10.2	10.2	16.4	17.4



REPORT NUMBER: P241079

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.4	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°	24.4	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)