

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: P240038

Luminaire Tested: **UTLD-AF24-30-D-U-SL3-A-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240038
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-AF24-30-D-U-SL3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA 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: 2641.9 lumens
Efficiency: N/A
Efficacy: 85.2 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): 31
Input Voltage (V): NR
Input Current (A_{in}): 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

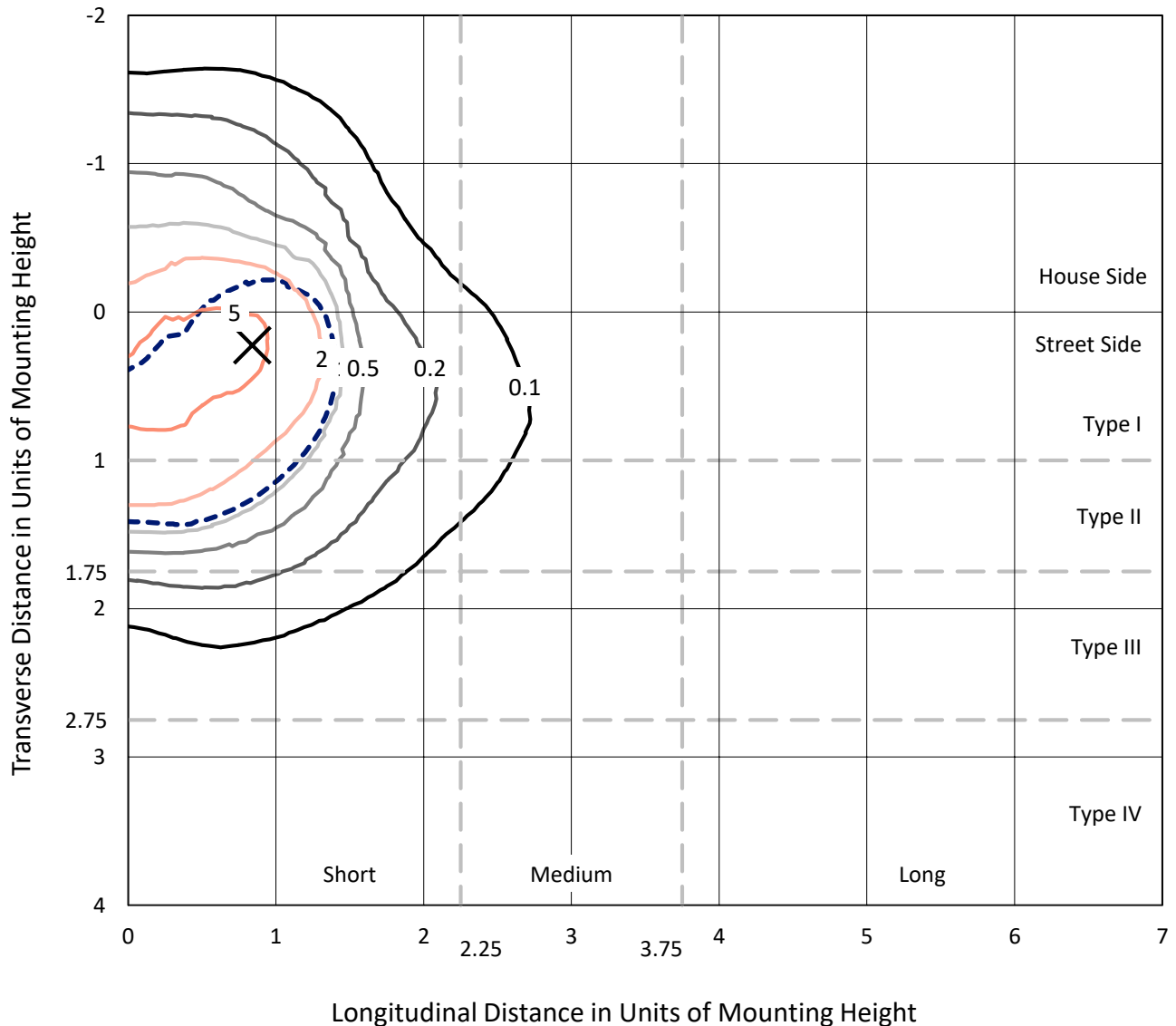


REPORT NUMBER: P240038

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

Iso-Footcandle Lines of Horizontal Illumination

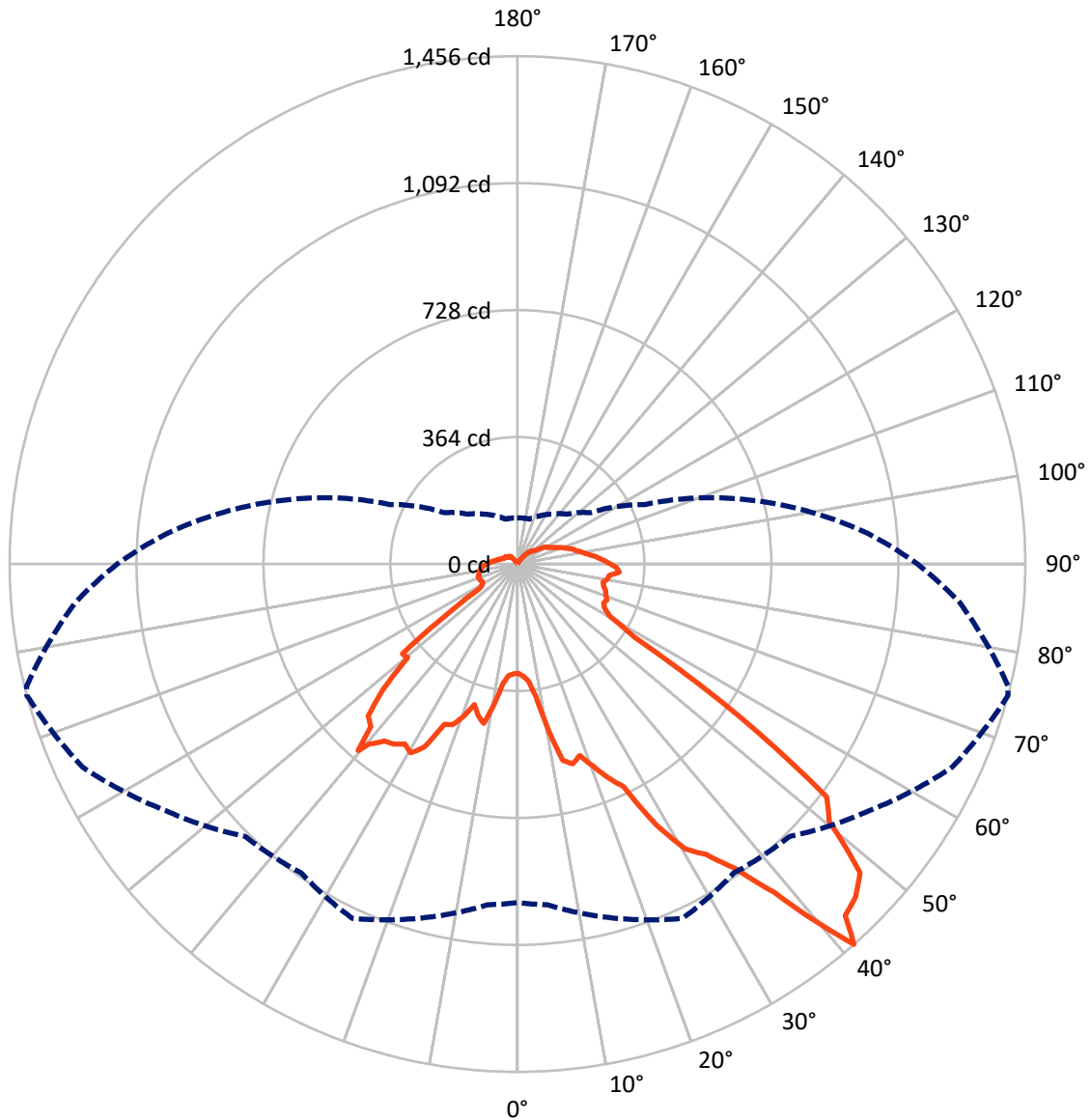
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P240038
CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 41-Deg Vertical



REPORT NUMBER: P240038

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

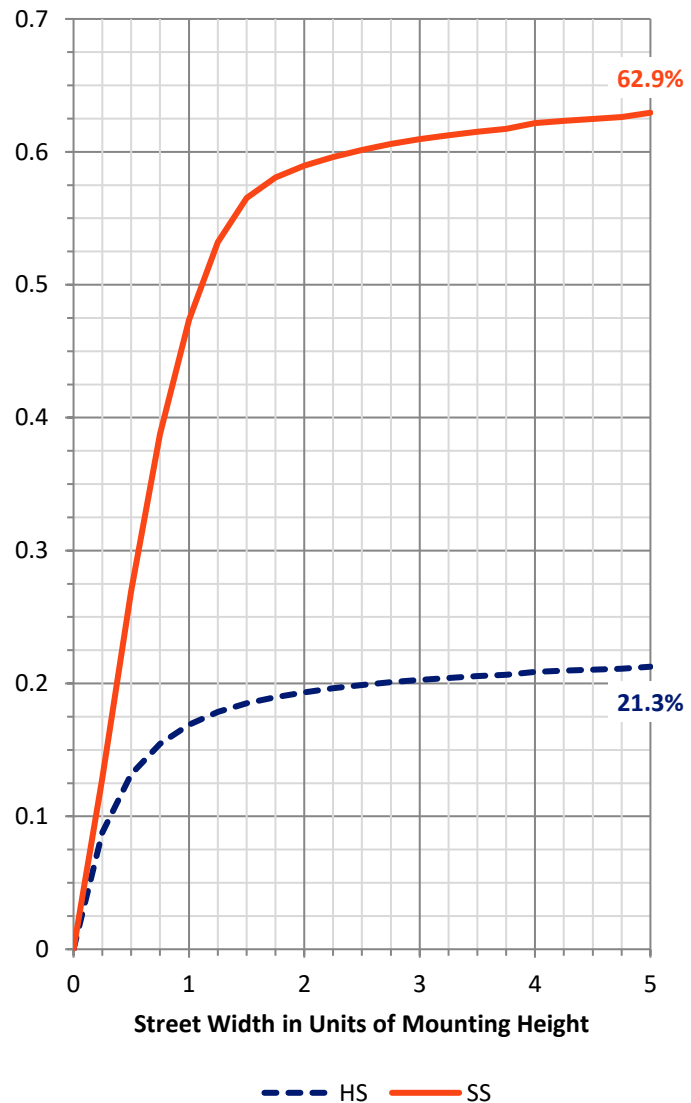
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	582.8	74.3	657.1
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	1713.9	270.8	1984.8
	% Fixture	64.9	10.3	75.1
Total	Lumens	2296.7	345.2	2641.9
	% Fixture	86.9	13.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.2
10°-20°	130.7	4.9
20°-30°	268.6	10.2
30°-40°	437.3	16.6
40°-50°	568.0	21.5
50°-60°	402.7	15.2
60°-70°	163.7	6.2
70°-80°	148.1	5.6
80°-90°	144.7	5.5
90°-100°	124.1	4.7
100°-110°	89.9	3.4
110°-120°	61.3	2.3
120°-130°	39.8	1.5
130°-140°	23.7	0.9
140°-150°	6.0	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2296.7	86.9
0°-180°	2641.9	100.0



REPORT NUMBER: P240038

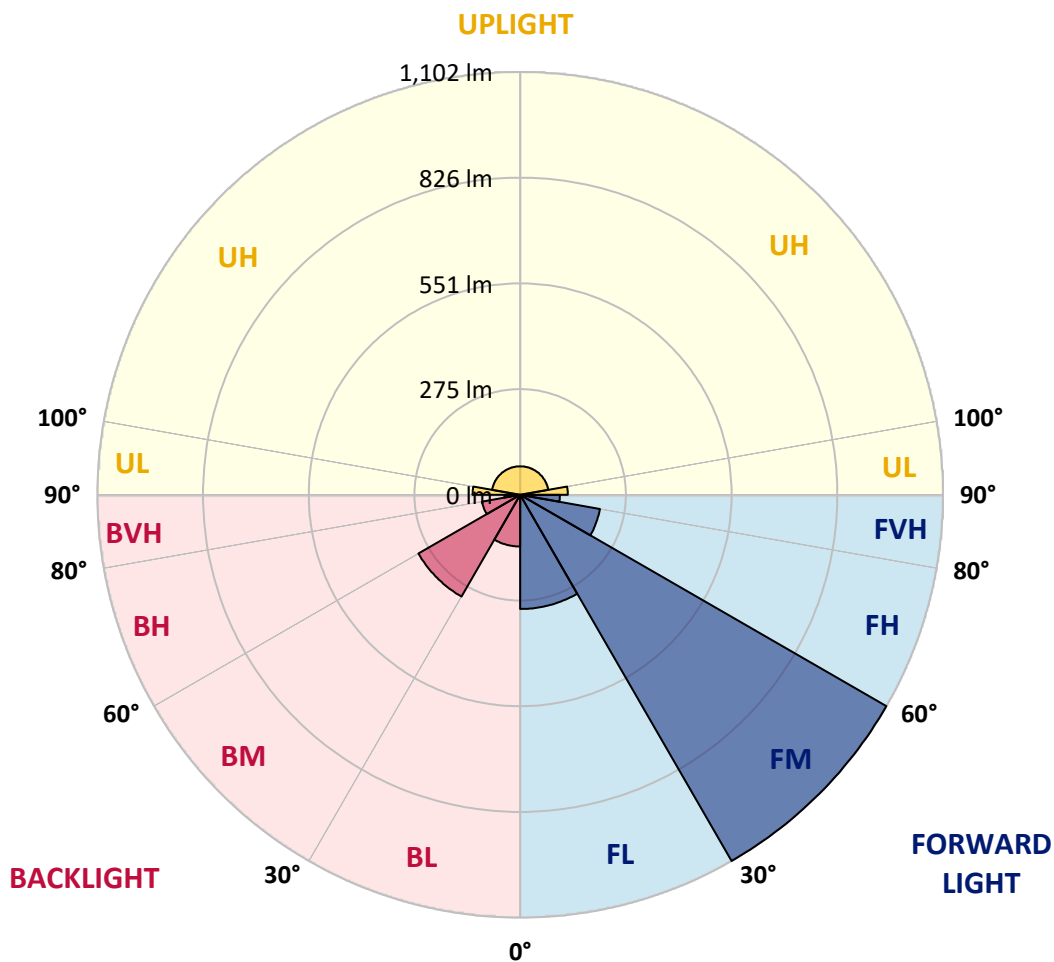
CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.5	11.3			
FM	(30°-60°)	1101.8	41.7			
FH	(60°-80°)	211.0	8.0			G0/660
FVH	(80°-90°)	103.6	3.9			G2/225
BL	(0°-30°)	134.8	5.1	B1/500		
BM	(30°-60°)	306.1	11.6	B1/1000		
BH	(60°-80°)	100.8	3.8	B0/110		G0/110
BVH	(80°-90°)	41.0	1.6			G1/100
UL	(90°-100°)	124.1	4.7		U3/500	
UH	(100°-180°)	74.3	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





REPORT NUMBER: P240038

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	335.2	336.0	334.5	333.3	332.5	330.3	328.5	325.8	322.1	321.7	320.1
5°	365.7	365.7	365.7	363.1	360.0	355.2	351.0	345.0	337.8	337.5	331.8
7.5°	414.9	414.9	412.7	408.9	402.2	394.7	393.9	393.2	383.4	382.2	372.1
10°	468.0	466.5	467.6	470.7	474.0	484.2	490.6	491.3	480.8	478.2	463.5
12.5°	488.7	490.2	503.3	527.5	568.1	608.7	629.8	612.5	577.6	572.9	538.3
15°	520.3	522.1	544.0	584.3	651.9	710.7	692.6	649.3	594.1	589.9	536.5
17.5°	605.0	613.6	634.7	698.6	767.4	743.8	682.9	627.1	577.1	572.2	527.5
20°	664.4	669.3	709.9	771.3	819.8	783.7	741.9	685.8	618.5	618.5	583.6
22.5°	713.7	712.2	745.2	837.8	866.1	842.7	794.2	737.1	665.5	662.1	616.7
25°	791.1	796.1	853.4	955.6	929.7	870.2	806.3	754.0	706.9	702.7	657.3
27.5°	836.4	849.2	914.9	1003.8	987.1	907.1	851.0	843.2	846.5	843.2	793.4
30°	847.7	853.4	934.5	1022.5	1011.3	951.8	951.8	965.0	947.8	942.8	876.3
32.5°	875.8	889.4	967.3	1035.8	1008.3	997.0	1003.0	1000.4	992.8	986.1	908.6
35°	921.7	933.4	1006.4	1057.9	1007.9	1012.1	1066.3	1097.4	1070.3	1064.3	948.8
37.5°	1042.6	1053.8	1119.7	1116.6	1034.5	1042.6	1140.6	1197.9	1193.0	1192.2	1077.9
40°	1018.4	1055.7	1135.4	1147.9	1074.4	1083.1	1200.5	1324.7	1381.9	1380.4	1238.6
41°	970.2	980.4	1050.0	1120.4	1080.9	1103.8	1231.8	1375.8	1455.6	1450.0	1272.5
42.5°	987.6	1005.6	1047.0	1070.3	1073.4	1119.3	1256.2	1382.2	1378.1	1375.5	1230.3
45°	1135.1	1142.7	1159.9	1115.1	1039.5	1096.6	1242.6	1359.6	1359.3	1347.2	1281.8
47.5°	1063.9	1085.4	1159.1	1119.3	1036.1	1035.3	1131.3	1289.7	1321.3	1304.0	1141.1
50°	1006.4	1021.8	1064.7	1022.2	985.7	985.0	1075.2	1194.5	1158.3	1153.4	929.7
52.5°	892.7	907.8	938.3	927.7	907.1	904.7	973.6	1098.6	1109.8	1106.1	938.3
55°	678.7	689.2	804.0	807.0	791.6	799.1	854.7	905.5	779.1	758.8	527.5
57.5°	398.8	425.9	537.2	606.8	638.8	644.8	625.6	535.7	395.4	381.1	243.4
60°	196.7	210.7	288.2	361.9	444.6	447.8	386.8	342.3	303.6	295.0	212.9
62.5°	140.3	148.6	199.4	238.5	284.8	292.4	270.9	289.3	281.1	275.8	207.3
65°	127.2	134.3	176.8	197.5	216.7	228.4	233.6	264.5	270.9	267.4	205.9
67.5°	116.3	123.4	161.3	177.2	191.5	210.4	221.6	252.1	276.5	274.2	218.2
70°	102.7	111.0	145.7	164.8	182.5	203.9	219.3	251.3	269.0	265.9	211.4
72.5°	89.9	97.5	125.6	148.3	174.2	198.7	221.6	245.0	264.5	261.9	214.0
75°	78.2	85.8	110.3	133.6	163.3	200.2	223.1	243.0	255.4	251.8	210.4
77.5°	70.4	77.9	99.0	122.0	155.0	202.4	243.7	251.3	251.0	247.2	205.9
80°	63.9	71.4	91.4	113.6	147.5	207.3	260.7	268.2	261.4	256.5	206.9
82.5°	62.1	69.3	87.6	112.1	149.0	210.4	265.6	284.4	265.3	259.2	205.9
85°	68.9	73.3	92.6	119.9	158.8	215.6	263.8	293.5	293.1	286.7	224.6
87.5°	82.1	85.8	104.6	132.4	169.4	218.6	287.1	299.1	283.3	280.2	226.8
90°	101.6	104.3	123.8	149.3	180.2	217.1	236.6	252.1	262.6	260.4	215.2
92.5°	120.7	124.1	141.8	160.6	174.6	186.7	205.9	241.6	243.0	241.1	206.9
95°	143.3	145.7	155.8	165.2	168.2	172.3	191.5	207.3	224.6	222.4	199.4
97.5°	155.8	156.9	161.3	160.3	153.1	153.8	175.4	192.3	202.7	200.2	174.6
100°	152.8	153.8	154.6	147.8	138.1	141.1	158.8	179.0	187.4	186.2	161.8
102.5°	142.9	144.9	145.2	138.4	129.5	130.1	147.5	162.9	171.5	170.0	150.9
105°	140.3	141.1	137.6	128.7	118.1	119.6	136.2	152.8	162.9	162.1	142.6
107.5°	126.4	127.2	122.3	113.6	109.8	113.9	129.0	139.6	146.3	146.3	127.2



REPORT NUMBER: P240038

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	106.1	106.1	105.0	103.0	103.8	109.8	122.3	129.0	134.7	134.3	116.3
112.5°	102.7	101.9	100.8	99.3	97.0	101.9	110.3	118.5	119.6	119.3	103.8
115°	101.2	100.1	96.3	92.3	89.6	93.3	99.7	107.2	110.3	109.8	99.0
117.5°	89.6	89.6	86.6	83.5	82.4	87.3	95.2	100.1	100.4	101.2	90.6
120°	80.1	80.1	78.2	76.7	77.5	79.8	88.4	92.6	96.3	95.9	86.9
122.5°	72.9	73.3	71.9	68.9	71.4	73.8	78.6	82.8	86.9	86.6	80.1
125°	65.9	65.4	63.9	60.5	66.5	69.6	69.9	69.6	73.8	73.8	68.1
127.5°	58.4	57.9	56.5	54.5	62.5	66.5	65.9	59.8	62.5	62.1	59.4
130°	57.6	57.2	54.5	52.3	56.0	63.2	59.8	55.7	57.9	58.4	55.7
132.5°	57.2	56.9	54.2	50.4	49.2	56.9	50.8	51.6	54.2	54.2	51.9
135°	53.4	53.1	50.8	45.6	40.2	47.0	40.2	44.4	47.7	47.7	45.9
137.5°	47.0	46.7	44.4	39.9	32.3	33.5	30.5	37.2	41.0	41.4	39.9
140°	37.2	37.5	35.4	30.8	23.3	17.7	19.8	29.0	32.8	32.8	32.3
142.5°	27.9	27.9	25.5	21.1	13.5	6.4	11.3	17.7	22.2	22.6	23.3
145°	19.5	19.5	17.3	13.5	6.8	1.1	5.3	10.5	13.8	13.8	15.1
147.5°	12.8	12.8	10.9	7.5	1.8	0.3	1.5	5.3	8.3	8.3	9.1
150°	7.8	7.8	6.0	2.3	0.3	0.0	0.3	1.1	3.8	3.8	4.9
152.5°	2.6	2.3	1.1	0.8	0.3	0.0	0.0	0.3	0.3	0.3	1.1
155°	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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: P240038

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	318.3	317.5	314.8	311.5	307.3	302.1	298.8	297.1	295.3	293.8	294.6
5°	328.9	326.1	320.1	309.2	299.1	291.6	285.6	280.2	277.6	275.5	275.5
7.5°	367.2	362.6	345.7	327.3	304.4	283.6	269.0	261.4	252.8	250.5	250.2
10°	450.7	445.1	409.2	364.9	321.7	281.1	244.2	224.2	214.8	209.9	211.1
12.5°	520.0	507.2	466.5	416.1	356.3	290.8	239.6	203.9	188.2	182.1	179.8
15°	514.3	492.9	448.8	401.1	354.4	306.6	255.4	215.2	182.5	171.5	169.4
17.5°	501.8	479.3	420.9	359.7	305.2	275.8	247.2	217.9	193.0	176.5	173.4
20°	565.1	539.5	463.5	402.5	325.8	251.8	218.9	202.4	186.7	178.3	176.5
22.5°	592.1	566.2	496.2	419.1	343.1	279.1	225.7	195.2	182.8	181.4	179.0
25°	632.8	600.1	504.9	407.9	334.5	282.2	226.0	196.0	177.5	177.5	176.5
27.5°	764.2	716.3	589.6	453.0	347.2	271.3	220.4	187.4	165.2	156.5	154.6
30°	822.8	777.3	621.9	464.7	352.9	273.9	209.9	172.0	157.3	150.9	150.1
32.5°	865.4	805.9	608.3	436.4	324.3	255.7	200.9	166.3	151.7	146.0	144.4
35°	886.4	808.1	626.4	426.2	307.0	234.8	190.3	159.8	150.9	146.3	146.3
37.5°	989.2	892.0	635.5	423.6	293.8	214.4	181.0	160.3	141.1	134.7	135.1
40°	1131.0	992.8	669.3	404.0	268.2	207.3	175.0	153.1	135.5	131.3	129.8
41°	1146.6	1007.5	703.2	403.7	256.2	202.0	174.6	152.4	133.2	132.4	132.1
42.5°	1104.6	960.5	627.1	366.8	240.4	193.4	173.8	151.7	130.9	132.9	132.4
45°	1152.8	1009.8	610.2	336.0	212.9	179.0	164.8	147.5	129.5	126.0	126.4
47.5°	1001.5	855.9	525.2	292.4	188.5	163.7	152.4	138.1	125.6	123.8	123.8
50°	797.6	671.2	413.1	257.0	166.0	150.9	140.3	130.9	118.1	113.2	114.7
52.5°	812.7	679.8	418.7	239.3	150.9	137.6	130.9	119.3	104.3	95.2	96.7
55°	447.0	387.6	245.0	183.5	140.0	128.0	119.9	107.9	91.4	81.3	82.4
57.5°	202.7	168.6	130.1	126.4	121.2	117.8	109.2	98.3	82.4	71.1	71.1
60°	181.4	148.6	116.3	105.8	108.3	108.7	99.7	89.1	73.8	60.5	60.9
62.5°	177.2	144.9	112.9	100.8	103.0	103.0	94.4	83.9	69.9	56.5	56.5
65°	176.5	143.3	113.2	99.3	100.8	101.2	92.6	83.9	74.6	64.7	65.4
67.5°	187.0	151.7	117.0	98.3	99.7	99.7	92.6	86.2	80.6	74.6	75.3
70°	181.4	149.0	116.3	98.3	97.5	97.5	92.3	86.6	83.5	78.2	78.6
72.5°	183.5	153.5	118.5	97.5	94.4	93.6	90.2	86.9	84.2	81.6	82.1
75°	180.2	152.0	114.7	93.6	89.9	88.4	86.2	85.4	85.8	84.6	83.9
77.5°	175.0	149.3	112.1	89.9	85.8	82.4	80.9	81.3	82.8	81.6	80.6
80°	174.2	149.6	111.0	87.6	80.6	74.9	72.9	73.8	74.1	71.9	69.6
82.5°	172.0	146.7	105.8	81.6	72.6	65.4	63.9	65.1	65.4	63.2	60.9
85°	185.0	154.6	104.3	76.1	65.9	58.4	55.7	56.0	53.4	50.0	47.7
87.5°	190.3	156.1	98.3	67.3	59.1	52.7	49.2	47.0	42.9	37.2	35.7
90°	181.0	148.3	88.4	57.9	51.9	47.0	42.9	39.9	34.6	29.0	27.1
92.5°	175.4	142.2	81.3	51.9	45.6	41.4	37.5	33.1	27.9	21.5	20.3
95°	172.0	140.0	76.7	46.3	40.7	36.5	32.8	28.6	23.3	18.5	17.7
97.5°	149.6	121.2	67.7	41.4	35.7	32.0	28.6	24.5	19.5	15.9	15.1
100°	139.2	112.9	62.9	37.2	31.5	28.2	25.2	21.9	17.7	15.1	14.6
102.5°	130.1	105.0	57.2	33.5	28.2	24.8	22.2	19.2	16.2	13.8	14.3
105°	123.4	100.1	54.9	30.8	25.2	22.6	19.5	17.3	14.3	12.8	12.8
107.5°	109.5	88.8	48.5	27.9	23.0	20.3	18.0	15.9	13.5	12.4	12.8



REPORT NUMBER: P240038

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	101.2	82.4	46.3	26.7	21.9	18.8	16.6	14.3	12.0	12.0	12.0
112.5°	89.9	74.1	42.9	25.2	20.3	17.7	15.4	12.8	10.5	10.9	11.3
115°	86.2	71.4	41.4	24.0	19.5	16.9	14.3	12.0	9.4	10.2	10.5
117.5°	79.4	66.2	40.2	24.0	18.8	15.9	13.5	11.3	9.1	9.9	9.9
120°	77.1	65.1	40.2	23.7	18.0	15.1	12.8	9.9	8.3	9.1	9.1
122.5°	71.9	60.9	38.4	23.3	17.3	14.3	12.4	8.3	7.1	7.8	7.8
125°	61.7	53.1	34.6	21.9	16.6	14.3	12.0	6.8	6.8	7.5	7.5
127.5°	53.7	46.7	31.5	21.5	16.9	15.1	11.3	5.7	6.0	6.8	6.8
130°	51.2	45.6	32.8	23.3	18.5	15.9	8.3	5.3	5.7	6.4	6.8
132.5°	48.5	44.0	33.5	25.2	19.5	15.4	6.8	4.9	5.3	6.0	6.0
135°	43.2	39.9	31.2	24.0	18.5	12.4	4.9	4.2	4.9	5.7	5.7
137.5°	38.0	35.4	28.6	22.2	16.9	9.9	3.4	3.8	4.2	4.5	4.5
140°	31.2	29.0	23.7	18.0	12.4	5.3	2.3	3.1	3.4	3.8	3.8
142.5°	22.6	21.1	16.9	12.0	7.1	1.8	1.5	2.3	2.6	3.1	3.1
145°	15.1	13.8	10.9	7.5	2.6	1.1	0.8	1.5	2.3	2.3	2.6
147.5°	9.1	8.6	6.4	3.4	1.1	0.8	0.8	1.1	1.5	1.8	1.8
150°	4.5	4.5	3.1	1.1	0.8	0.3	0.3	0.3	0.8	1.1	1.1
152.5°	1.1	0.8	0.8	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.3	0.3	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)