

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: P239931

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T4W-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3237 lumens
Efficiency: N/A
Efficacy: 80.9 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): 40
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

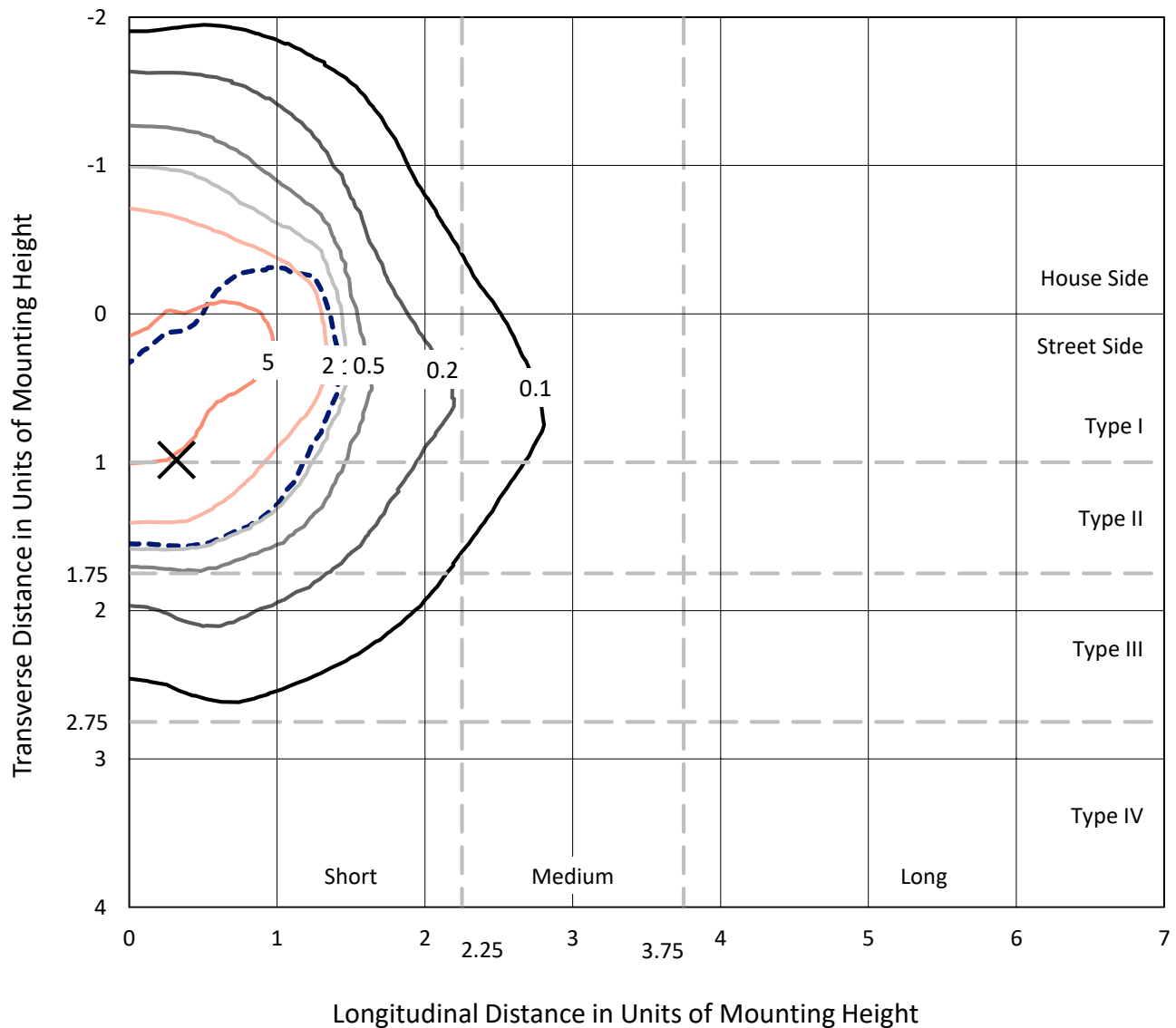


REPORT NUMBER: P239931

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

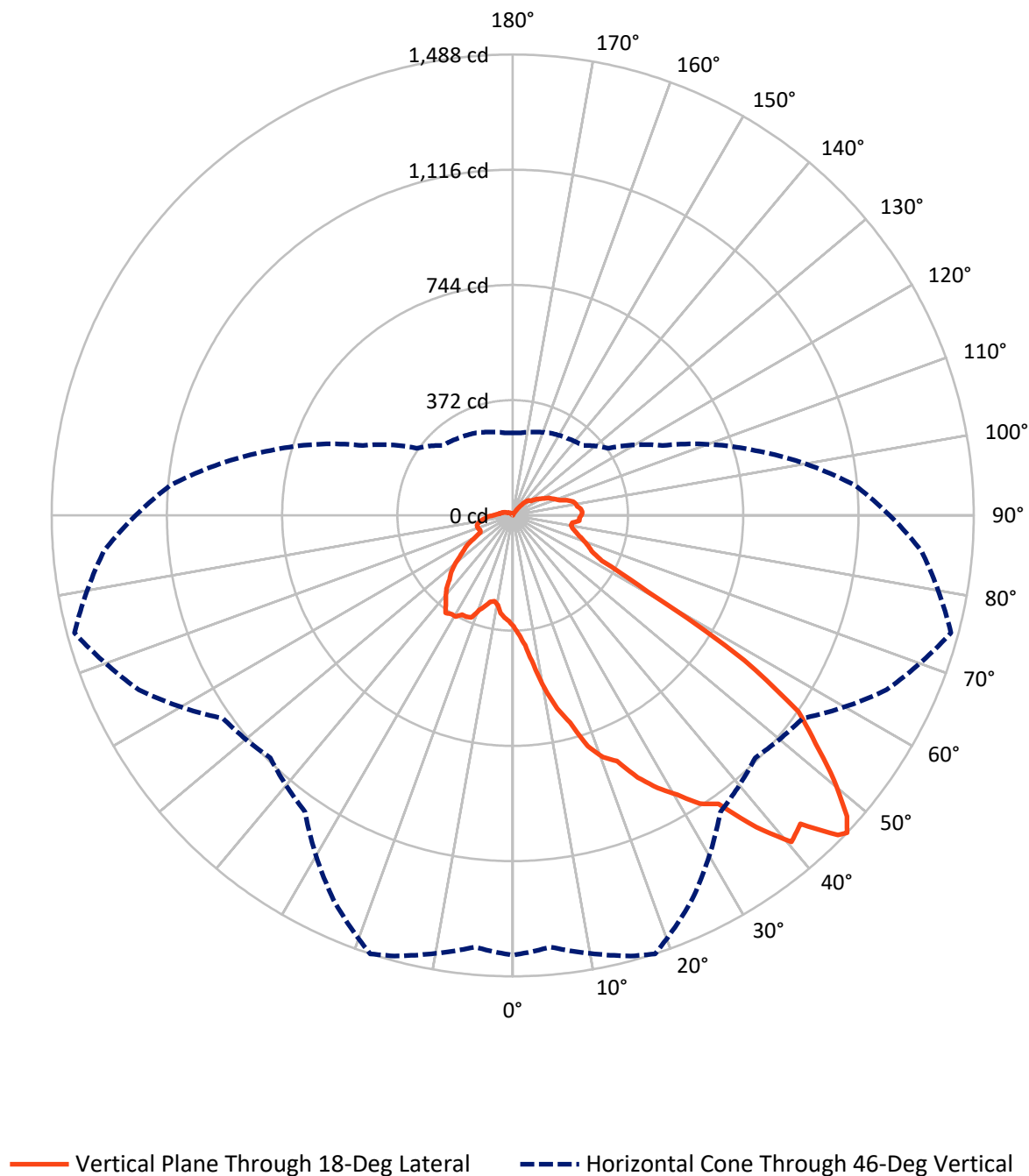


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - Non-Cutoff

REPORT NUMBER: P239931

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P239931

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

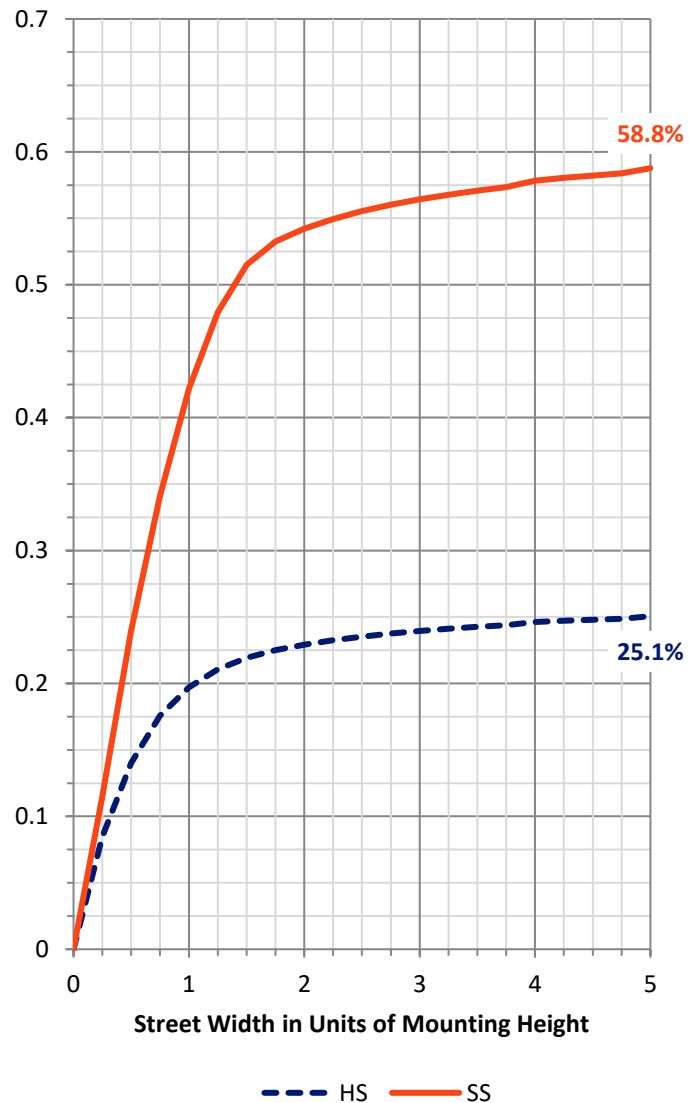
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.0	104.8	946.8
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	1975.9	314.2	2290.1
	% Fixture	61.0	9.7	70.7
Total	Lumens	2817.9	419.1	3237.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	1.2
10°-20°	156.7	4.8
20°-30°	318.7	9.8
30°-40°	521.8	16.1
40°-50°	679.1	21.0
50°-60°	508.2	15.7
60°-70°	211.7	6.5
70°-80°	192.6	5.9
80°-90°	190.9	5.9
90°-100°	153.5	4.7
100°-110°	109.1	3.4
110°-120°	73.8	2.3
120°-130°	47.5	1.5
130°-140°	28.1	0.9
140°-150°	6.8	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2817.9	87.1
0°-180°	3237.0	100.0

Coefficient of Utilization



REPORT NUMBER: P239931

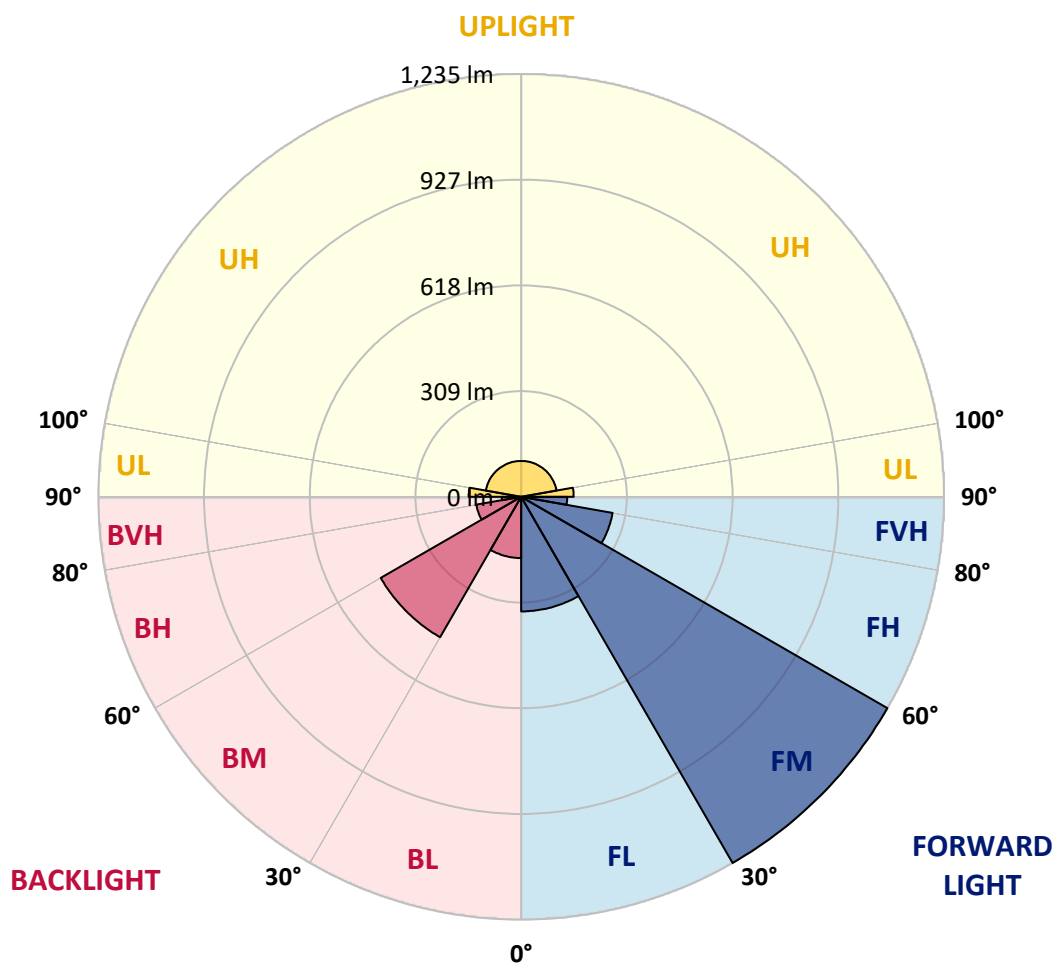
CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.8	10.3			
FM	(30°-60°)	1235.4	38.2			
FH	(60°-80°)	271.1	8.4			G0/660
FVH	(80°-90°)	134.6	4.2			G2/225
BL	(0°-30°)	179.0	5.5	B1/500		
BM	(30°-60°)	473.6	14.6	B1/1000		
BH	(60°-80°)	133.1	4.1	B1/500		G1/500
BVH	(80°-90°)	56.3	1.7			G1/100
UL	(90°-100°)	153.5	4.7		U3/500	
UH	(100°-180°)	104.8	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





REPORT NUMBER: P239931

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5
2.5°	385.4	383.6	384.5	384.5	382.2	381.4	379.1	376.4	372.8	368.8	365.2
5°	423.4	422.1	421.6	421.2	420.7	414.9	408.2	402.4	396.1	389.4	380.0
7.5°	493.7	493.3	490.6	487.4	483.0	473.1	461.0	455.2	446.7	436.4	422.1
10°	581.4	575.2	569.3	569.3	560.4	556.8	553.2	544.7	539.4	525.0	504.4
12.5°	631.6	628.4	640.5	639.6	651.3	672.3	679.5	686.6	653.9	612.3	573.8
15°	678.6	678.6	693.8	694.2	728.7	775.2	810.6	776.1	716.2	649.0	597.5
17.5°	743.0	747.0	769.0	783.7	830.3	910.4	886.2	822.7	733.2	653.0	595.3
20°	771.2	780.2	813.7	833.0	905.0	980.7	957.4	882.7	778.8	687.5	629.3
22.5°	788.7	794.9	834.3	861.6	953.8	1017.8	1014.3	938.6	840.6	726.4	659.3
25°	860.3	864.3	909.1	937.3	1034.8	1055.4	1014.7	962.3	866.1	747.5	688.4
27.5°	884.4	884.9	953.8	996.3	1076.5	1069.3	1016.5	994.6	945.8	852.2	812.4
30°	917.1	916.2	1001.3	1046.9	1095.7	1065.3	1022.8	1042.0	1045.1	969.0	896.5
32.5°	957.4	953.8	1055.4	1110.0	1125.7	1064.4	1033.1	1065.7	1113.2	1034.4	956.5
35°	994.6	997.7	1106.9	1144.1	1158.8	1069.8	1038.4	1110.0	1206.3	1145.4	1014.7
37.5°	1233.6	1230.0	1264.5	1277.4	1240.3	1088.1	1059.0	1165.1	1306.1	1279.7	1139.6
40°	1287.7	1275.6	1378.6	1386.2	1320.9	1153.0	1115.4	1198.2	1384.9	1431.9	1320.4
42.5°	1242.1	1238.9	1351.3	1361.6	1314.6	1196.9	1152.6	1225.1	1393.8	1432.3	1247.0
45°	1443.0	1426.5	1485.1	1473.0	1342.8	1178.1	1129.7	1195.1	1362.9	1470.8	1324.0
46°	1420.2	1399.2	1473.0	1488.3	1369.6	1168.7	1106.9	1142.3	1332.0	1464.5	1324.9
47.5°	1350.4	1352.2	1450.7	1451.6	1342.3	1170.0	1069.3	1110.5	1263.1	1384.4	1198.2
50°	1179.0	1158.8	1338.8	1344.6	1240.3	1119.4	1030.8	1049.6	1195.1	1269.4	1080.0
52.5°	1135.1	1119.4	1225.5	1224.6	1130.6	1042.5	960.5	980.2	1144.5	1229.1	1093.9
55°	1042.9	1037.5	1126.6	1119.0	1053.2	947.6	888.9	901.0	949.4	916.2	545.2
57.5°	692.9	713.5	867.4	882.2	882.7	833.0	759.6	648.1	560.8	477.1	266.8
60°	282.9	306.6	478.0	500.4	533.1	624.4	550.5	433.3	362.1	376.4	230.5
62.5°	213.5	222.5	319.1	323.2	335.7	380.0	375.5	314.2	309.3	340.6	220.7
65°	198.7	206.8	282.9	281.5	275.7	287.8	286.9	272.6	278.0	317.3	219.8
67.5°	188.0	196.0	262.7	263.2	258.3	260.5	262.3	255.1	267.7	308.4	225.6
70°	177.2	185.8	241.7	243.0	246.6	254.7	257.8	252.4	263.6	297.2	225.1
72.5°	164.3	173.7	222.0	224.2	231.4	249.8	260.5	259.2	260.5	280.6	224.2
75°	159.8	169.2	205.4	209.5	219.8	247.5	275.3	266.3	257.4	269.9	218.9
77.5°	140.1	150.8	188.0	196.9	219.8	254.7	285.1	282.0	265.4	262.7	213.1
80°	134.7	145.0	180.8	190.7	215.3	260.9	295.0	295.4	286.9	272.6	218.9
82.5°	135.6	145.5	182.6	193.8	222.0	265.4	286.9	298.1	299.0	281.1	225.6
85°	159.3	168.7	204.1	215.7	240.4	264.1	280.6	288.7	296.8	296.8	247.5
87.5°	170.1	178.6	205.4	215.7	239.5	267.2	264.5	278.0	286.0	296.3	255.1
90°	179.9	185.3	213.1	222.9	235.4	257.8	250.7	246.6	253.3	264.1	239.0
92.5°	187.1	192.0	216.6	225.1	235.9	240.8	230.1	218.4	235.0	243.5	222.5
95°	200.1	204.6	217.5	220.7	219.3	223.8	207.2	202.8	209.9	219.3	205.9
97.5°	191.1	194.3	206.8	210.4	209.5	202.8	186.2	183.5	189.8	196.9	182.2
100°	191.1	195.2	204.6	206.8	201.4	184.4	167.4	166.5	170.5	174.1	160.2
102.5°	195.2	196.9	198.7	200.1	190.2	171.4	158.9	155.8	157.1	158.9	146.4
105°	184.9	185.3	186.2	182.2	174.1	159.8	147.3	141.9	146.4	151.7	141.4
107.5°	159.8	159.3	159.8	158.4	157.6	149.0	140.1	133.4	133.4	135.2	125.3



REPORT NUMBER: P239931

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	149.0	149.5	149.0	149.0	145.0	139.2	130.7	123.5	120.0	120.9	111.9
112.5°	136.5	136.5	137.0	137.4	135.2	129.8	121.3	114.1	109.7	108.8	100.3
115°	136.5	135.2	131.1	130.7	126.2	118.6	112.3	103.4	100.3	100.3	94.9
117.5°	121.7	120.9	117.7	116.8	114.1	107.9	104.3	97.1	94.9	93.5	88.6
120°	107.9	107.9	106.5	106.1	103.4	99.8	92.2	89.5	87.7	89.5	86.4
122.5°	100.3	100.3	98.0	97.1	94.0	91.3	84.6	79.7	76.5	80.1	78.3
125°	92.2	91.8	88.6	88.2	82.8	82.8	79.2	73.0	64.5	68.0	67.1
127.5°	81.0	80.6	76.5	76.1	73.0	76.5	75.6	67.6	55.9	58.2	58.2
130°	77.9	77.0	73.4	72.5	69.4	68.5	72.1	59.1	52.4	54.6	54.2
132.5°	77.9	77.0	72.5	71.2	66.2	61.3	64.9	51.5	50.1	52.8	52.4
135°	70.3	70.3	66.2	63.6	58.6	49.7	50.6	39.8	43.9	47.9	47.9
137.5°	59.5	59.5	55.5	54.6	48.8	39.8	35.8	30.4	37.2	41.6	42.1
140°	46.5	46.5	43.4	41.6	37.6	26.4	16.6	18.8	28.2	32.2	33.6
142.5°	33.6	33.1	30.4	28.2	24.2	14.3	5.4	10.7	16.6	21.9	23.7
145°	23.3	22.8	19.7	18.4	14.8	6.7	1.3	4.5	9.8	13.0	15.2
147.5°	13.9	13.9	11.6	11.2	7.6	1.8	0.9	1.3	4.9	8.1	9.4
150°	8.1	8.1	5.8	4.5	1.8	0.4	0.4	0.4	1.3	3.6	4.5
152.5°	1.8	1.8	1.3	0.9	0.9	0.4	0.0	0.4	0.4	0.4	0.9
155°	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
162.5°	0.4	0.4	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0.4	0.4
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: P239931

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5
2.5°	363.4	361.7	357.6	352.7	349.1	346.0	343.8	342.4	341.5	339.3	340.2
5°	376.9	373.3	363.9	356.3	348.2	341.1	335.7	332.1	330.8	329.0	329.0
7.5°	415.4	406.9	392.5	374.6	358.1	343.8	330.3	322.7	316.0	312.4	311.5
10°	491.0	479.8	448.9	412.2	376.0	343.8	317.8	299.0	290.0	286.9	286.9
12.5°	553.7	536.2	495.9	454.8	406.4	355.8	317.3	291.8	279.7	275.7	275.7
15°	572.5	549.6	502.2	461.9	418.5	376.0	340.2	303.5	281.5	274.8	272.6
17.5°	566.7	544.3	501.3	452.5	403.7	372.0	340.2	320.5	300.3	288.7	286.9
20°	603.8	583.2	538.5	483.9	423.9	352.7	332.6	328.1	323.2	315.6	315.6
22.5°	634.7	615.4	570.7	512.0	440.0	393.4	363.4	359.0	353.6	352.3	351.4
25°	658.4	637.8	576.5	508.9	456.5	422.5	384.0	368.8	355.8	351.8	350.5
27.5°	785.1	753.3	654.8	559.0	483.9	432.4	388.1	368.4	356.3	351.4	354.5
30°	859.4	824.9	717.0	591.3	516.5	453.9	396.1	372.8	376.0	380.0	383.1
32.5°	916.2	871.0	744.4	595.3	511.2	457.9	409.1	381.4	372.4	377.8	378.7
35°	972.2	917.1	779.7	620.8	518.3	443.1	400.2	384.0	381.4	388.5	387.2
37.5°	1085.9	1013.8	823.6	628.0	511.6	425.7	384.9	367.9	354.0	352.3	354.5
40°	1234.5	1137.8	867.4	624.8	480.3	404.6	365.7	346.4	335.7	329.0	325.0
42.5°	1160.2	1063.0	811.0	599.8	442.2	367.0	346.0	329.0	315.1	306.6	304.4
45°	1241.6	1146.7	825.4	549.2	398.8	333.5	316.5	304.8	285.6	277.5	276.2
46°	1217.0	1109.6	809.3	533.5	377.8	319.1	304.8	292.7	278.4	267.2	266.3
47.5°	1127.5	1002.2	761.8	491.5	363.4	295.4	285.6	278.4	270.8	257.8	256.0
50°	1006.2	910.4	676.3	436.9	306.2	263.6	255.1	252.9	244.4	228.7	230.1
52.5°	996.8	904.1	629.8	401.9	271.7	231.0	228.3	221.6	214.4	200.5	200.1
55°	480.7	408.7	349.6	314.7	227.4	204.6	203.2	200.1	191.1	178.6	180.8
57.5°	227.8	198.3	171.4	181.7	178.6	179.5	180.4	179.9	169.6	152.6	156.2
60°	199.6	173.2	148.2	140.5	147.7	158.9	158.9	152.2	137.9	117.7	115.9
62.5°	192.5	166.1	143.2	132.9	136.5	143.2	139.6	128.9	114.6	96.2	95.3
65°	193.4	165.2	142.8	129.8	132.9	135.6	128.9	120.4	112.8	99.8	99.8
67.5°	197.4	168.7	144.6	128.5	130.7	132.5	126.2	120.0	115.5	105.6	106.5
70°	198.3	171.0	146.4	128.9	128.5	130.3	125.8	120.0	117.7	111.0	110.6
72.5°	198.3	172.8	144.6	125.8	124.9	125.8	123.1	120.0	119.5	115.5	114.6
75°	191.6	168.7	138.3	119.5	118.6	119.5	118.6	118.2	120.0	118.2	116.4
77.5°	184.9	164.7	133.8	114.6	113.2	112.8	112.3	112.8	115.5	114.1	111.5
80°	188.0	166.5	132.9	110.6	106.5	104.7	104.7	105.2	105.2	101.2	97.1
82.5°	193.4	169.6	128.5	102.9	96.2	93.1	94.0	97.1	98.5	95.3	92.2
85°	213.1	184.0	129.4	97.6	87.7	84.1	85.5	89.5	86.8	82.4	78.8
87.5°	221.6	188.9	126.7	89.5	81.5	80.1	80.1	82.4	80.6	73.4	70.3
90°	211.7	180.8	114.6	76.1	70.7	72.1	72.5	70.3	62.7	54.6	51.9
92.5°	198.3	169.2	106.1	69.8	62.7	62.2	61.8	60.4	54.6	45.7	43.9
95°	187.1	159.3	98.0	64.0	57.3	55.9	55.5	53.7	48.3	41.6	40.7
97.5°	162.9	139.2	89.1	59.1	51.5	50.6	50.1	47.9	43.0	38.0	37.6
100°	146.4	124.0	79.7	53.3	46.5	45.2	44.8	43.4	39.4	35.8	35.4
102.5°	132.9	113.7	73.9	48.8	41.6	39.8	39.8	38.9	36.7	34.5	34.5
105°	129.4	111.5	71.6	44.8	37.2	36.3	35.8	35.8	34.0	32.7	32.7
107.5°	113.7	97.6	61.8	39.8	33.6	32.7	32.7	32.7	32.2	31.8	32.2



REPORT NUMBER: P239931

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	102.5	88.2	56.8	37.2	31.3	30.0	30.0	30.0	30.0	30.9	30.9
112.5°	91.3	79.2	52.4	35.4	29.1	27.8	26.9	26.4	26.0	27.8	28.2
115°	86.4	75.6	50.1	33.6	27.8	26.4	24.6	23.7	22.4	23.7	24.2
117.5°	81.5	71.6	49.2	33.1	26.9	24.6	22.8	21.9	20.1	21.5	21.5
120°	80.1	71.2	50.1	33.6	26.0	22.8	21.5	19.2	18.4	19.2	19.7
122.5°	73.9	65.8	47.0	31.3	24.6	21.9	20.1	16.6	16.1	17.5	17.5
125°	62.7	56.4	40.7	28.2	23.3	21.5	19.7	14.8	15.2	16.1	16.6
127.5°	55.1	49.7	37.2	27.3	23.3	21.9	18.4	13.0	14.3	15.7	16.1
130°	51.5	47.4	37.2	28.2	24.2	22.4	15.2	12.1	13.4	14.8	14.8
132.5°	50.1	47.0	38.0	30.0	25.1	21.5	12.5	11.2	12.5	13.4	13.4
135°	46.1	43.4	36.3	29.1	22.8	17.0	9.8	9.8	11.6	12.5	12.5
137.5°	40.7	38.5	32.7	26.9	20.1	13.0	7.2	8.5	9.8	10.7	10.7
140°	32.7	31.3	26.9	21.0	14.3	7.2	5.4	6.7	8.1	9.0	9.0
142.5°	23.3	22.4	18.8	13.4	8.5	3.1	3.6	4.9	6.3	7.2	7.2
145°	15.2	14.3	11.6	8.5	3.6	0.9	2.2	3.6	4.9	5.4	5.4
147.5°	9.4	9.0	7.2	4.0	1.3	0.9	0.9	2.7	3.6	4.0	4.0
150°	4.9	4.5	3.1	1.3	0.4	0.4	0.4	0.9	2.2	2.7	3.1
152.5°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.4	0.0	0.4	0.4	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)