

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: P266342

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T2U-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.9 lumens
Efficiency: N/A
Efficacy: 87.7 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



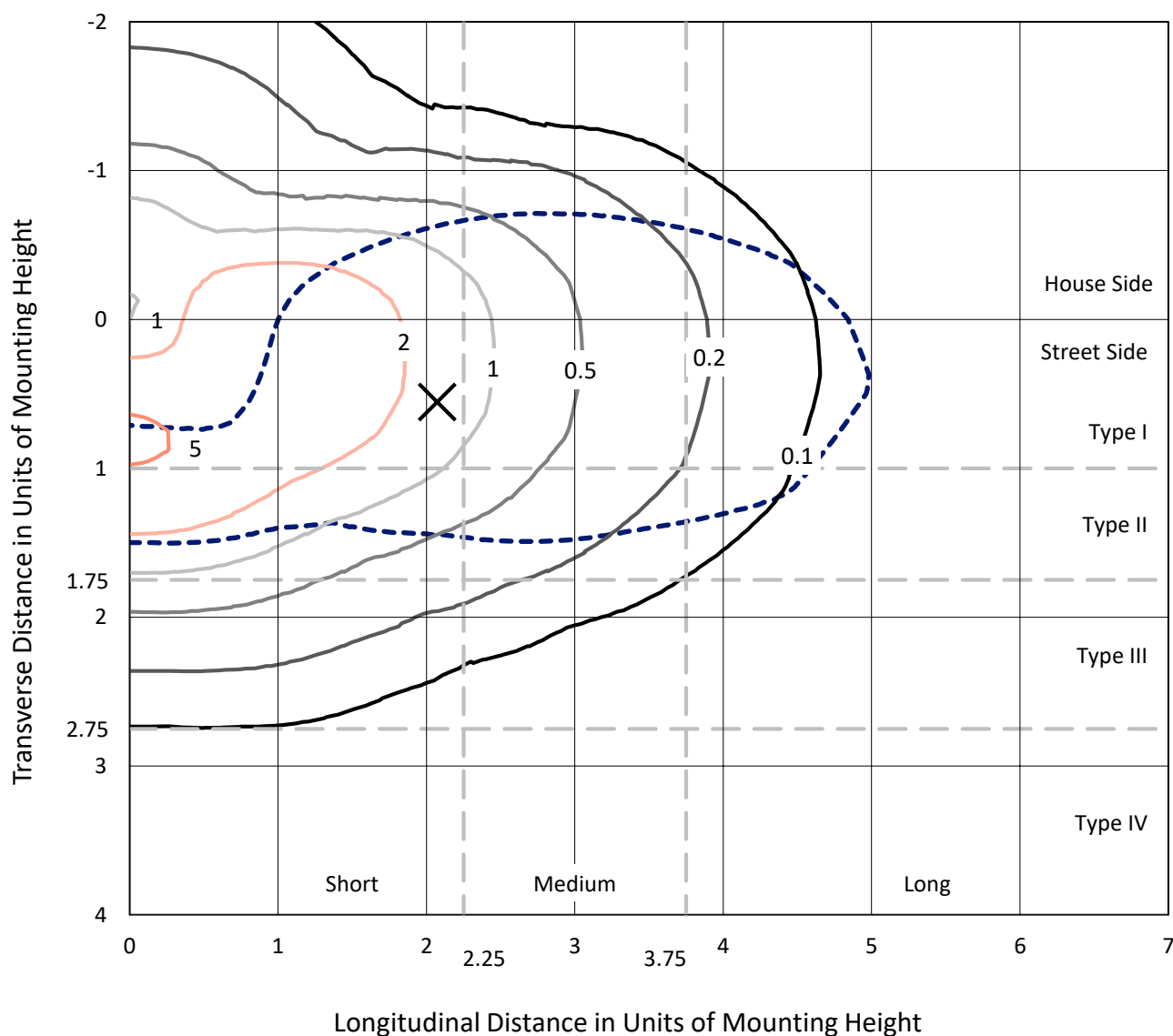
REPORT NUMBER: P266342

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-TL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

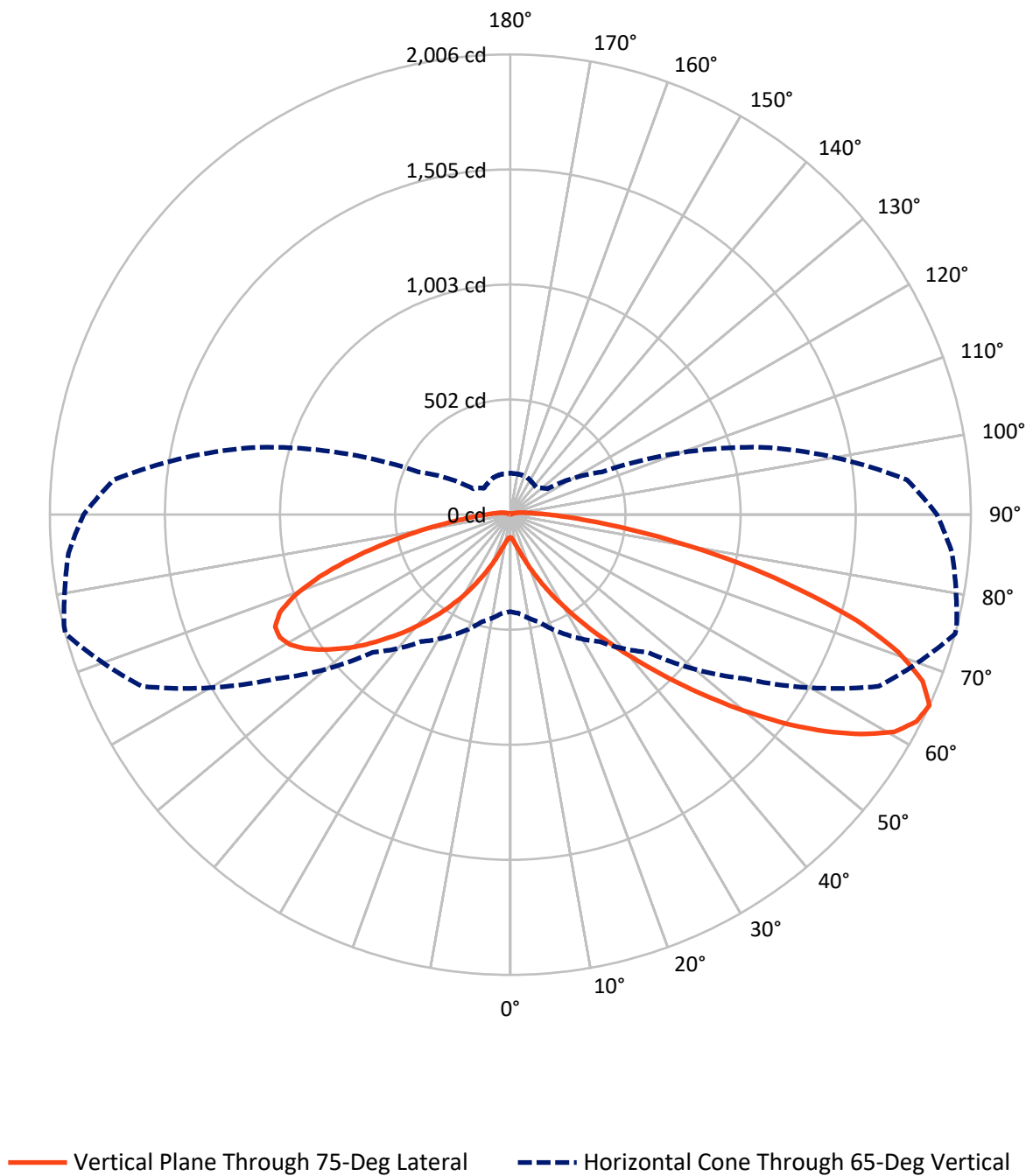


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266342

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-TL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266342

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-TL-7027

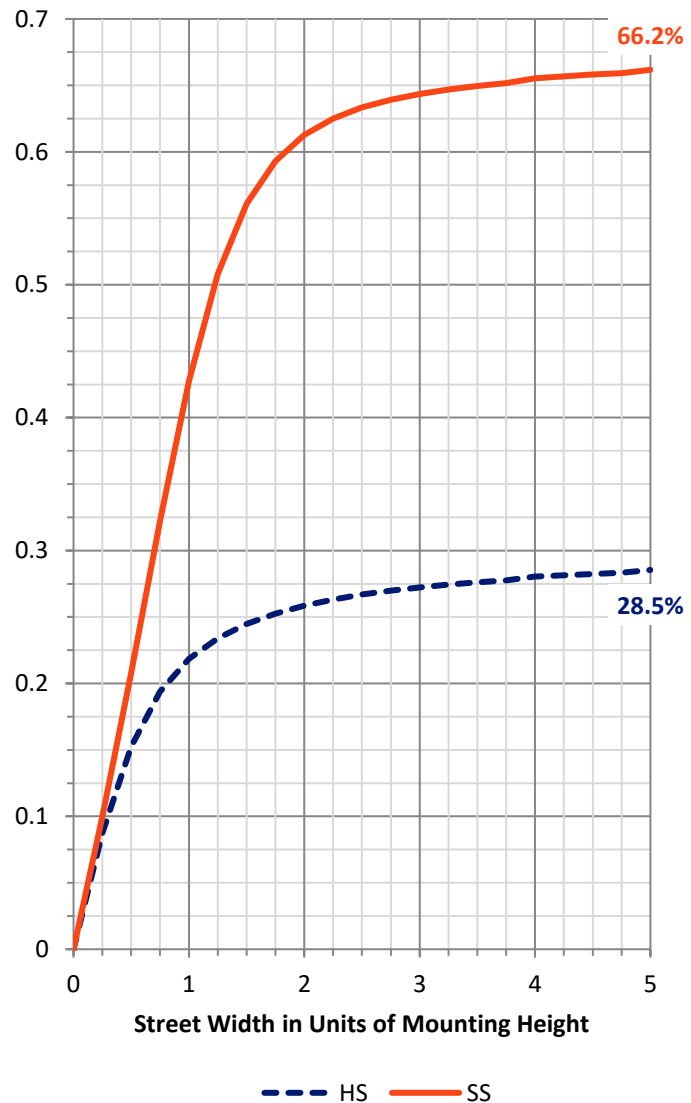
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1035.7	62.1	1097.9
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	2354.1	55.9	2410.0
	% Fixture	67.1	1.6	68.7
Total	Lumens	3389.8	118.0	3507.9
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.3
10°-20°	50.7	1.4
20°-30°	147.9	4.2
30°-40°	331.8	9.5
40°-50°	590.5	16.8
50°-60°	802.4	22.9
60°-70°	779.2	22.2
70°-80°	491.1	14.0
80°-90°	185.2	5.3
90°-100°	63.0	1.8
100°-110°	28.6	0.8
110°-120°	13.8	0.4
120°-130°	7.2	0.2
130°-140°	3.8	0.1
140°-150°	1.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3389.8	96.6
0°-180°	3507.9	100.0

Coefficient of Utilization



REPORT NUMBER: P266342

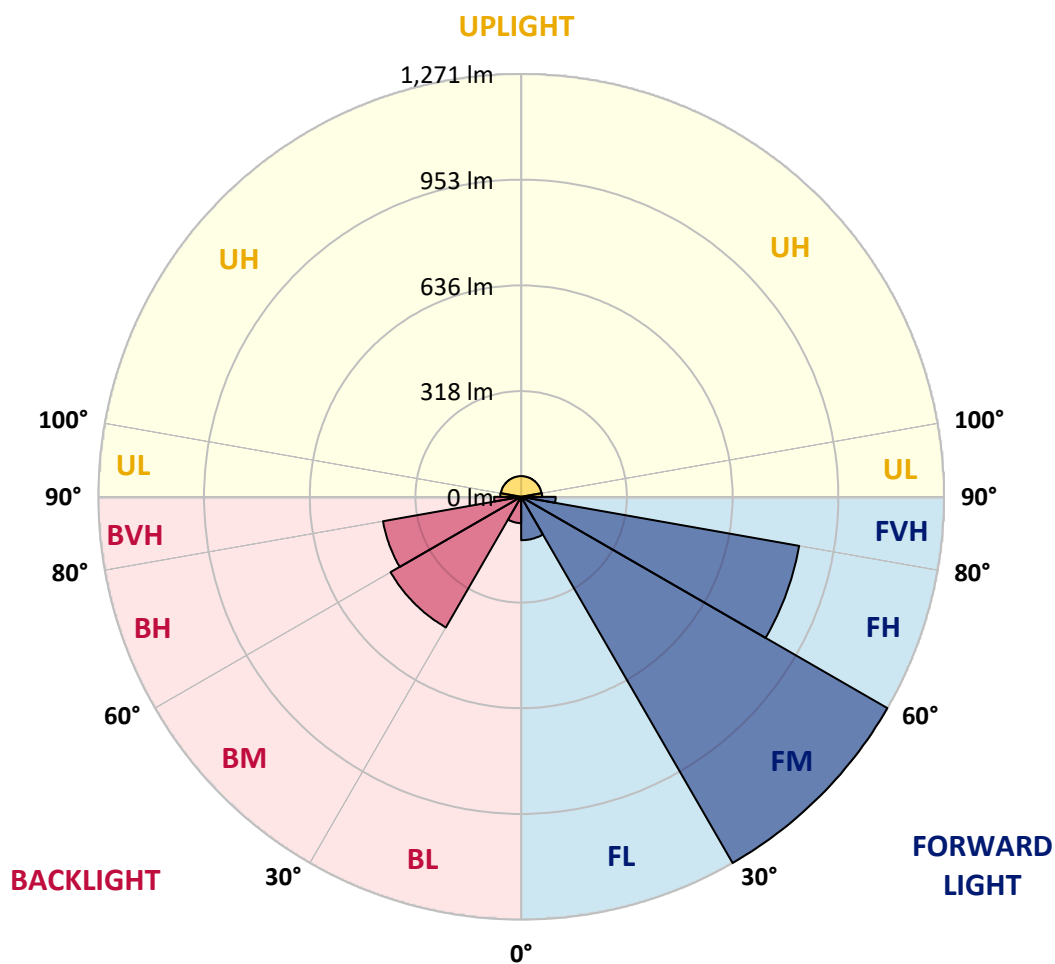
CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.6	3.7			
FM	(30°-60°)	1271.3	36.2			
FH	(60°-80°)	848.5	24.2			G1/1800
FVH	(80°-90°)	103.7	3.0			G2/225
BL	(0°-30°)	79.0	2.3	B0/110		
BM	(30°-60°)	453.4	12.9	B1/1000		
BH	(60°-80°)	421.8	12.0	B1/500		G1/500
BVH	(80°-90°)	81.6	2.3			G1/100
UL	(90°-100°)	63.0	1.8		U3/500	
UH	(100°-180°)	62.1	1.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





REPORT NUMBER: P266342

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2.5°	108.5	108.1	108.1	108.1	107.2	106.3	105.0	104.2	102.8	102.3	101.9
5°	120.0	120.0	119.5	119.0	118.1	116.1	113.7	112.0	109.9	109.5	107.6
7.5°	137.9	137.5	137.1	134.8	133.6	130.4	127.0	124.3	120.4	120.4	117.8
10°	161.7	160.7	159.4	157.3	152.4	148.5	144.5	139.6	135.7	135.4	131.3
12.5°	189.8	189.8	188.0	183.7	177.4	171.8	165.2	159.9	154.7	154.1	150.6
15°	228.4	228.9	223.1	216.6	207.8	199.1	190.7	185.8	179.8	181.0	176.2
17.5°	276.3	275.4	270.6	257.5	242.9	231.6	221.8	216.6	211.7	212.2	208.6
20°	336.5	335.6	327.3	309.7	286.0	268.9	257.5	254.0	251.3	250.0	246.4
22.5°	410.7	406.4	389.7	366.9	338.3	313.7	301.4	296.1	295.3	295.6	292.2
25°	493.8	492.0	470.9	434.5	397.6	366.0	347.0	346.1	347.6	345.3	345.3
27.5°	594.9	589.9	565.5	514.9	462.2	424.4	402.4	400.3	406.4	404.5	402.0
30°	713.1	705.6	672.1	607.6	539.9	489.3	464.0	464.0	470.5	470.5	469.6
32.5°	836.4	835.2	783.3	707.8	627.7	561.0	539.1	535.5	542.0	545.6	541.3
35°	975.3	965.1	905.4	819.8	716.5	643.1	615.9	620.8	625.9	626.5	619.4
37.5°	1116.8	1106.6	1038.1	932.3	811.9	732.7	704.7	708.1	716.5	716.5	707.2
40°	1238.0	1227.1	1159.8	1049.5	917.3	832.5	802.6	812.7	818.4	820.6	805.7
42.5°	1333.8	1325.9	1265.7	1153.2	1018.8	932.7	913.3	930.0	935.8	940.2	918.5
45°	1387.3	1380.8	1339.1	1237.5	1103.9	1032.8	1036.4	1056.5	1067.5	1062.8	1039.3
47.5°	1395.6	1390.4	1367.2	1289.8	1182.2	1129.0	1162.4	1192.8	1209.5	1209.8	1170.3
50°	1343.9	1346.1	1346.5	1302.2	1226.1	1207.2	1280.2	1348.3	1361.0	1353.9	1307.5
52.5°	1243.3	1241.9	1267.4	1267.4	1234.0	1255.7	1379.0	1500.7	1518.2	1516.5	1451.9
55°	1093.9	1095.3	1142.6	1180.1	1192.3	1265.7	1459.8	1638.7	1667.7	1665.0	1593.9
57.5°	908.0	920.9	979.2	1050.8	1106.6	1222.7	1497.1	1757.3	1804.8	1805.1	1719.0
60°	727.4	740.7	808.7	900.6	981.5	1139.6	1472.1	1818.8	1922.9	1918.2	1826.7
62.5°	555.7	569.3	634.8	739.3	833.4	1006.9	1387.0	1831.6	1985.8	1982.6	1904.0
65°	423.0	431.8	484.5	576.4	675.3	848.3	1246.8	1770.9	2006.4	2004.2	1932.6
67.5°	316.4	320.2	370.3	444.7	530.3	686.2	1053.1	1625.0	1937.9	1940.0	1900.1
70°	243.4	246.0	282.4	347.0	410.7	536.4	853.2	1414.7	1793.7	1799.5	1798.1
72.5°	193.2	197.3	226.3	273.3	319.3	406.4	659.9	1144.4	1580.2	1592.1	1627.6
75°	159.4	163.9	185.8	220.5	254.0	309.2	479.8	878.3	1299.0	1324.1	1403.2
77.5°	131.8	136.3	154.7	181.8	202.5	236.3	351.4	649.4	1020.6	1031.1	1135.6
80°	108.1	112.0	128.6	149.7	164.7	184.5	256.1	456.0	744.2	757.5	859.3
82.5°	86.1	89.7	105.0	122.1	134.4	148.0	189.8	312.3	518.4	528.1	595.2
85°	66.4	69.9	83.1	97.9	108.5	119.5	145.4	217.5	343.2	354.6	403.8
87.5°	49.6	52.7	63.7	76.4	87.5	96.7	112.0	150.2	228.9	238.6	261.9
90°	36.6	38.6	48.2	58.0	68.1	78.2	87.9	109.9	152.4	156.3	172.7
92.5°	27.3	28.6	36.6	44.8	54.4	63.3	69.3	80.8	107.2	107.6	119.0
95°	20.2	21.5	28.0	35.2	43.5	51.8	57.1	62.8	78.6	79.9	87.0
97.5°	16.3	16.7	22.4	28.6	35.7	42.6	47.0	50.0	60.1	61.5	66.4
100°	13.7	14.1	18.9	24.2	30.4	36.6	39.5	40.9	47.4	48.8	52.3
102.5°	11.9	11.9	16.3	21.1	26.4	30.7	33.0	33.9	38.2	38.2	40.9
105°	10.5	10.5	14.1	18.4	22.8	26.8	28.0	28.0	29.9	30.4	31.6
107.5°	9.6	9.6	12.8	16.7	20.2	23.3	24.2	23.3	23.7	23.7	24.7
110°	8.9	8.9	11.0	14.9	18.1	20.2	20.7	19.8	18.4	18.4	19.4



REPORT NUMBER: P266342

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	7.9	8.4	10.2	13.1	15.8	18.1	18.1	16.7	14.6	14.6	15.5
115°	7.5	7.5	9.3	11.9	14.1	15.8	15.8	14.1	11.9	11.4	12.2
117.5°	7.0	7.0	7.9	10.5	12.8	14.1	14.1	11.9	9.6	9.6	10.5
120°	6.6	6.6	7.5	9.6	11.4	12.8	12.2	10.5	8.4	8.4	9.3
122.5°	6.6	6.6	7.0	8.9	10.2	11.0	10.5	8.9	7.0	7.0	7.9
125°	6.2	6.2	6.6	7.9	9.3	10.2	9.3	7.5	6.6	6.6	7.0
127.5°	6.2	6.2	6.2	7.0	8.4	8.9	8.4	6.6	5.7	5.7	6.6
130°	5.7	5.7	6.2	6.6	7.5	7.9	7.0	5.7	5.3	5.3	6.2
132.5°	5.7	5.7	5.7	5.7	6.2	6.6	5.7	4.4	4.9	4.9	5.3
135°	5.3	5.3	5.3	5.3	5.7	5.7	4.9	4.0	4.4	4.4	4.9
137.5°	4.9	4.9	4.9	4.9	4.9	4.4	4.0	3.6	4.0	4.0	4.4
140°	4.4	4.4	4.4	4.0	3.6	3.6	3.1	2.6	3.1	3.1	3.6
142.5°	4.0	4.0	4.0	3.6	3.1	2.6	2.2	2.2	2.6	2.6	3.1
145°	3.6	3.6	3.1	2.6	2.2	1.7	1.3	1.7	2.2	2.2	2.6
147.5°	2.6	2.6	2.6	2.2	1.3	0.9	0.9	1.3	1.7	1.7	1.7
150°	2.2	2.2	2.2	1.7	0.9	0.4	0.4	0.9	0.9	0.9	1.3
152.5°	1.3	1.3	1.3	1.3	0.4	0.0	0.0	0.4	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.4
160°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.0
162.5°	0.0	0.0	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



REPORT NUMBER: P266342

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2.5°	101.5	101.0	100.3	99.4	98.5	97.6	96.7	96.2	95.3	95.3	95.3
5°	106.8	105.5	103.7	101.9	100.3	98.9	97.6	96.2	95.3	95.0	94.4
7.5°	116.4	114.7	111.6	109.0	105.9	103.2	101.0	99.4	98.5	97.9	97.9
10°	129.5	127.4	123.4	118.1	114.7	110.8	107.2	105.0	103.2	102.8	102.3
12.5°	147.1	144.9	138.3	132.7	126.1	120.0	116.1	113.4	112.0	111.6	111.6
15°	172.2	169.6	159.0	149.4	138.8	131.3	126.1	123.8	124.3	125.7	124.3
17.5°	203.3	199.5	187.1	171.3	155.5	144.1	139.2	139.6	141.5	142.8	142.3
20°	242.1	236.3	219.2	196.8	175.3	159.9	155.0	155.5	157.7	161.7	161.2
22.5°	287.3	278.6	256.6	226.3	195.9	178.4	169.6	170.9	175.7	179.8	179.8
25°	337.0	329.0	297.9	257.5	219.6	193.8	182.7	184.5	191.6	195.9	197.3
27.5°	395.9	383.5	344.9	292.2	242.1	207.4	193.8	194.7	203.3	209.1	210.1
30°	458.7	444.1	395.9	326.9	261.9	217.8	200.3	202.1	211.7	218.4	219.6
32.5°	529.5	512.3	449.1	363.4	280.4	224.0	203.8	205.6	215.8	223.1	224.0
35°	608.1	583.0	506.0	396.7	292.6	226.3	203.8	206.0	215.8	223.1	224.4
37.5°	688.0	659.9	561.9	428.9	300.0	224.4	200.9	203.3	212.2	219.2	220.5
40°	781.0	745.1	623.0	455.1	302.6	219.6	195.6	198.5	206.0	211.7	212.5
42.5°	887.4	836.4	687.2	477.4	298.7	213.4	190.3	193.8	200.0	203.8	204.3
45°	997.7	936.3	749.5	495.1	293.0	206.0	185.0	189.0	194.2	195.0	195.9
47.5°	1116.8	1048.2	817.5	505.7	283.0	198.2	181.0	185.0	188.5	188.0	188.5
50°	1248.6	1164.3	886.9	510.1	271.5	191.6	178.0	182.4	185.0	182.7	182.7
52.5°	1377.2	1291.1	950.2	511.9	258.7	185.4	175.7	181.0	182.4	180.1	180.1
55°	1514.4	1408.5	1013.5	507.0	246.0	180.6	174.8	180.6	181.5	178.4	178.4
57.5°	1640.8	1533.6	1070.6	499.5	234.2	176.2	173.6	180.1	181.0	178.4	178.9
60°	1757.3	1639.9	1114.9	487.2	221.4	171.8	172.7	180.1	181.0	179.2	180.1
62.5°	1828.4	1710.3	1138.2	467.8	209.1	167.9	171.3	179.2	181.0	179.8	180.6
65°	1859.2	1735.3	1135.2	440.2	197.3	163.0	168.7	177.4	179.8	179.8	180.6
67.5°	1835.9	1712.4	1090.5	404.5	186.3	158.1	165.2	174.0	177.1	178.0	179.2
70°	1749.4	1617.9	1000.4	359.9	174.5	152.9	160.7	169.2	172.7	174.5	175.3
72.5°	1576.7	1459.4	872.4	314.9	162.1	146.3	154.1	162.1	166.0	168.3	168.3
75°	1357.5	1240.2	718.3	267.5	150.6	138.8	146.3	152.9	157.3	159.4	158.6
77.5°	1092.2	982.7	557.9	219.2	138.3	130.1	137.1	142.8	146.3	148.0	145.9
80°	809.3	739.3	419.1	181.0	126.1	120.0	125.7	130.4	134.4	133.9	132.2
82.5°	573.7	507.8	293.4	150.2	113.7	109.0	113.4	116.4	119.0	118.1	115.2
85°	382.1	339.2	207.4	122.6	101.0	97.0	99.7	101.5	102.8	100.6	98.5
87.5°	248.7	221.4	149.4	101.0	87.5	84.8	86.1	86.5	87.0	84.8	82.1
90°	162.6	151.2	111.1	83.5	75.1	73.4	73.4	71.7	72.0	69.3	66.7
92.5°	114.7	107.6	86.5	68.5	64.1	62.8	62.4	60.1	59.7	57.1	55.3
95°	85.7	82.6	69.9	58.0	54.4	54.1	53.2	50.9	49.1	46.5	45.8
97.5°	66.7	65.4	57.5	49.6	47.0	46.2	45.8	43.1	41.7	39.0	38.2
100°	53.2	53.2	48.2	42.6	40.5	40.0	39.5	36.9	35.7	33.0	32.5
102.5°	42.6	43.1	40.5	36.9	35.2	34.2	33.3	31.6	29.5	27.7	27.7
105°	33.3	34.2	33.3	31.3	30.4	29.5	28.6	26.8	24.7	22.8	22.8
107.5°	26.4	27.3	27.3	26.8	25.5	25.1	24.7	22.4	20.7	18.9	18.9
110°	20.2	21.5	22.4	22.4	22.4	21.5	20.7	19.4	17.2	15.8	15.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.3	17.2	18.4	18.9	18.9	18.9	18.1	15.8	14.1	13.1	13.7
115°	13.1	14.1	15.5	16.3	16.3	16.3	14.9	13.7	11.9	11.4	11.4
117.5°	11.0	11.9	12.8	14.1	14.1	14.1	13.1	11.4	9.6	9.6	9.6
120°	9.6	10.2	11.4	11.9	12.2	12.2	11.4	9.6	8.4	8.4	8.9
122.5°	8.4	8.9	9.6	10.5	11.0	10.5	9.6	7.9	7.0	7.5	7.5
125°	7.5	7.9	8.4	9.3	9.6	9.3	8.4	6.6	6.2	6.6	6.6
127.5°	7.0	7.0	7.5	7.9	8.4	7.9	7.0	5.7	5.3	6.2	6.2
130°	6.2	6.6	6.6	7.0	7.0	7.0	6.2	4.9	4.9	5.3	5.3
132.5°	5.7	5.7	5.7	6.2	6.2	5.7	4.9	4.0	4.4	4.9	4.9
135°	4.9	5.3	5.3	5.3	5.3	4.9	4.0	3.6	4.0	4.4	4.4
137.5°	4.4	4.4	4.4	4.4	4.4	4.0	3.6	3.1	3.6	3.6	3.6
140°	3.6	4.0	4.0	3.6	3.6	3.1	2.6	2.2	2.6	3.1	3.1
142.5°	3.1	3.1	3.1	3.1	2.6	2.2	1.7	1.7	2.2	2.2	2.2
145°	2.6	2.6	2.6	2.2	1.7	1.7	1.3	1.3	1.7	1.7	2.2
147.5°	1.7	1.7	1.7	1.7	1.3	1.3	0.9	0.9	1.3	1.3	1.3
150°	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.4	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.9	0.9	0.4	0.4	0.4	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)