

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: P266306

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-T2U-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2745.3 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U2 - G1

Input Watts (W): 31
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

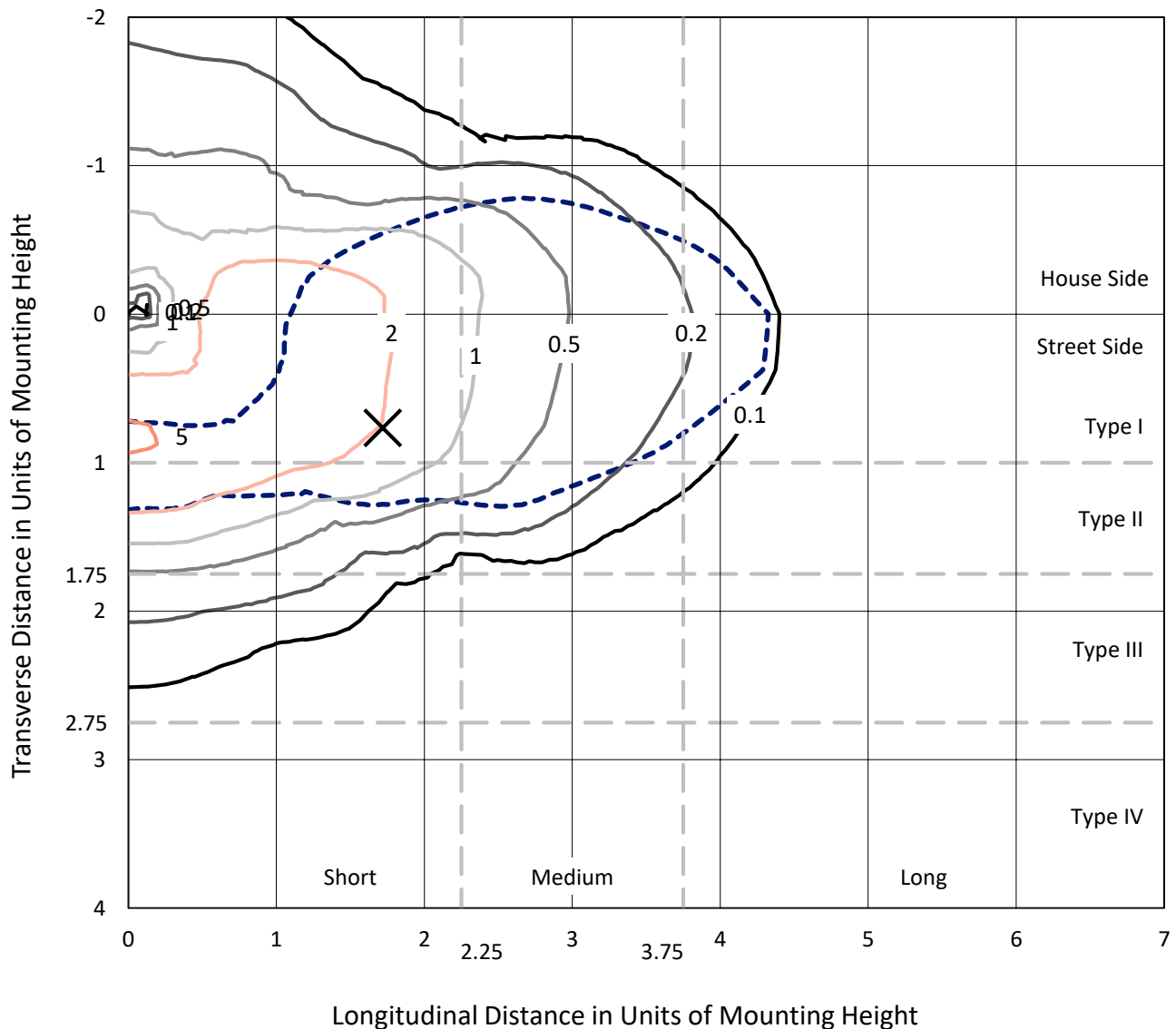


REPORT NUMBER: P266306

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

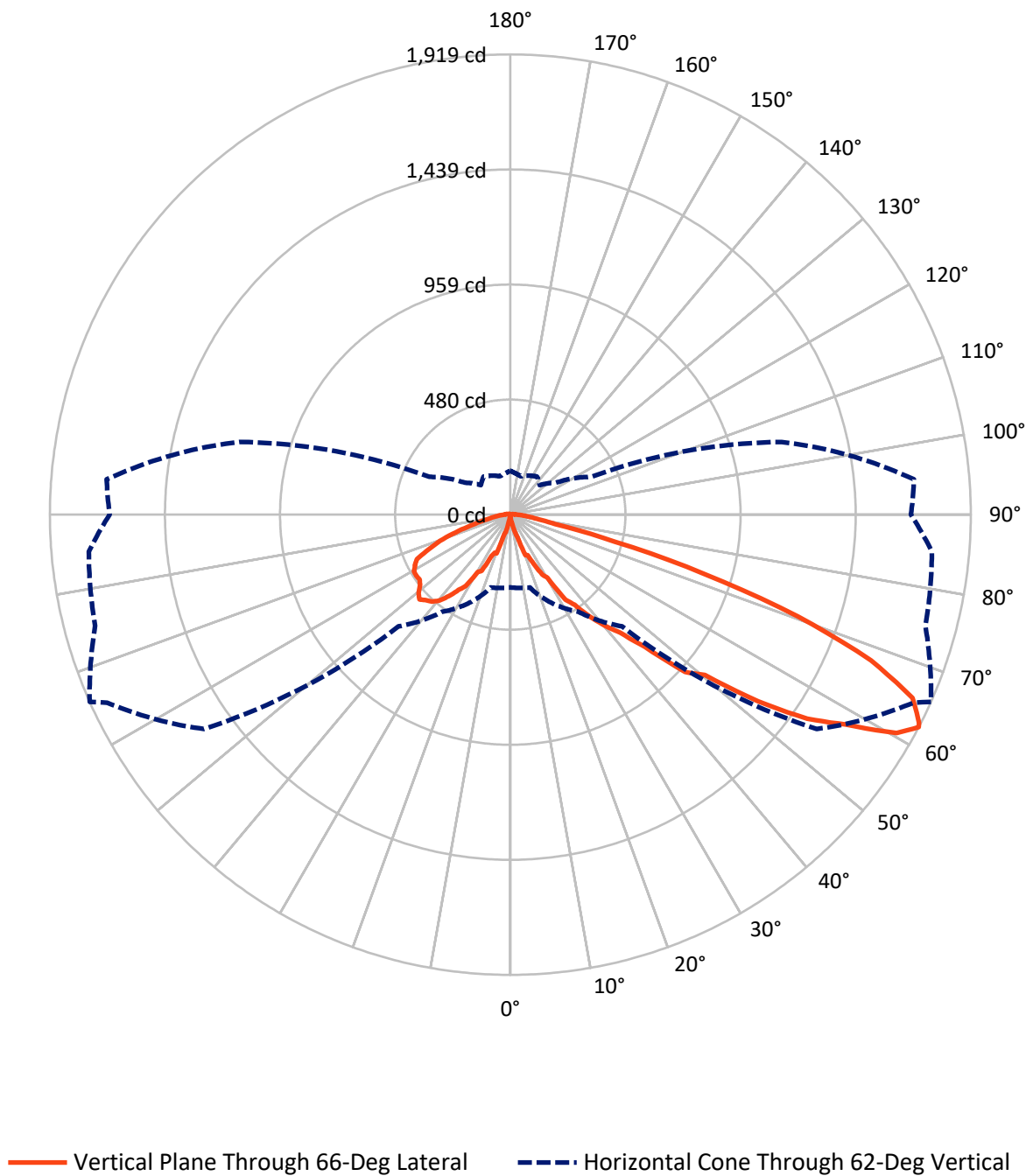


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P266306

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266306

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

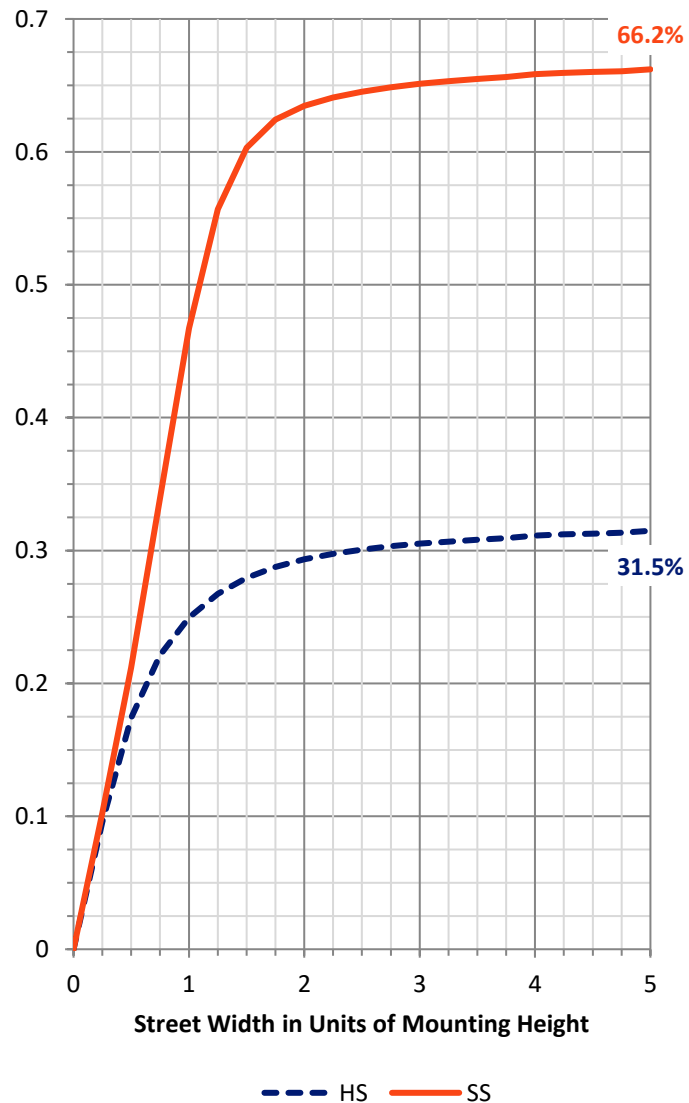
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.6	21.0	901.6
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	1828.2	15.5	1843.7
	% Fixture	66.6	0.6	67.2
Total	Lumens	2708.8	36.5	2745.3
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.1
10°-20°	27.9	1.0
20°-30°	110.3	4.0
30°-40°	275.0	10.0
40°-50°	524.4	19.1
50°-60°	715.1	26.0
60°-70°	656.9	23.9
70°-80°	335.1	12.2
80°-90°	61.6	2.2
90°-100°	16.3	0.6
100°-110°	7.8	0.3
110°-120°	4.8	0.2
120°-130°	3.7	0.1
130°-140°	2.4	0.1
140°-150°	1.2	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2708.8	98.7
0°-180°	2745.3	100.0

Coefficient of Utilization



REPORT NUMBER: P266306

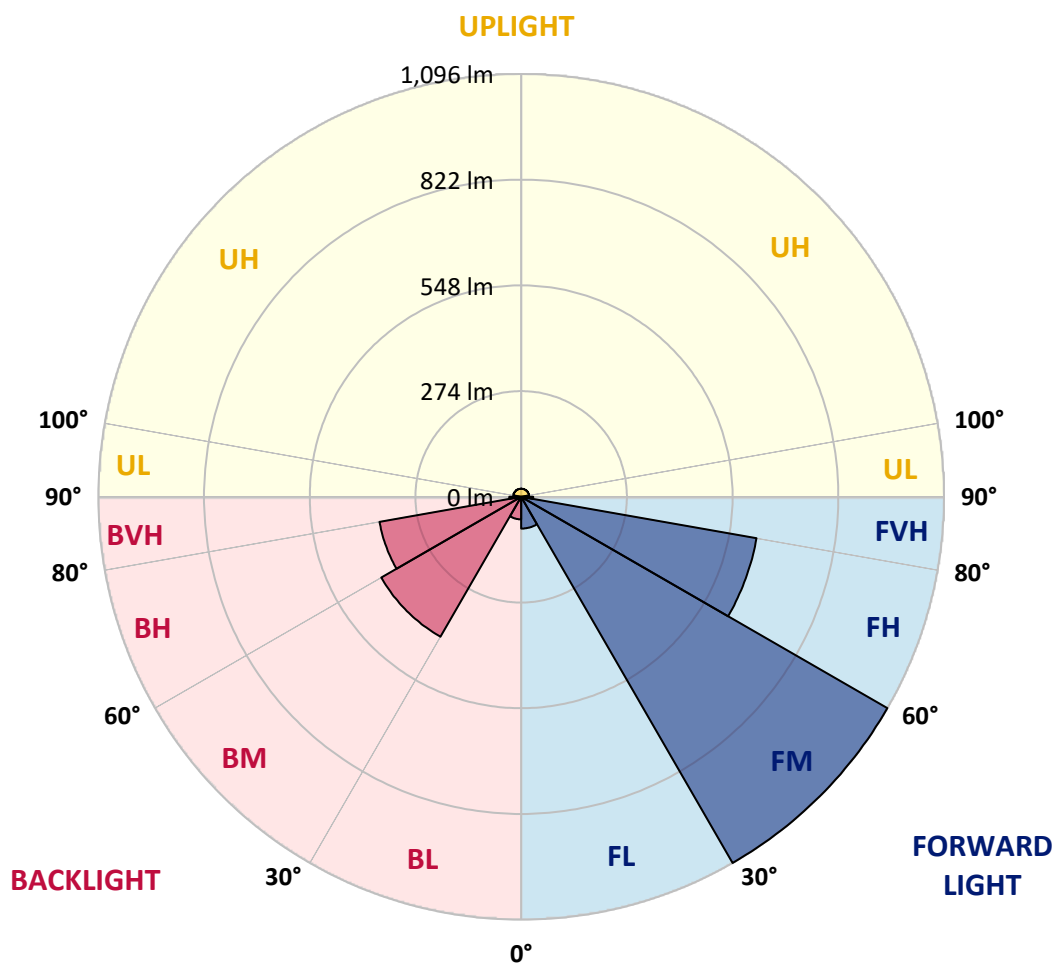
CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.3	3.0			
FM	(30°-60°)	1095.8	39.9			
FH	(60°-80°)	619.2	22.6			G0/660
FVH	(80°-90°)	30.9	1.1			G1/100
BL	(0°-30°)	58.4	2.1	B0/110		
BM	(30°-60°)	418.7	15.3	B1/1000		
BH	(60°-80°)	372.8	13.6	B1/500		G1/500
BVH	(80°-90°)	30.7	1.1			G1/100
UL	(90°-100°)	16.3	0.6		U2/50	
UH	(100°-180°)	21.0	0.8		U2/50	

BUG Rating: B1-U2-G1

Type II Short





REPORT NUMBER: P266306

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	34.1	32.5	24.3	21.3	18.0	14.6	11.1	9.4	9.2	8.4	7.7
5°	34.1	34.1	35.2	37.2	41.2	37.5	39.5	14.3	13.6	9.2	7.5
7.5°	65.2	63.5	79.8	56.5	35.6	33.1	50.3	30.7	30.7	14.3	8.4
10°	88.3	87.9	107.8	69.0	63.5	77.1	34.1	35.2	35.2	24.3	11.9
12.5°	86.5	85.9	87.1	95.0	79.8	67.6	68.6	44.9	56.1	88.6	90.9
15°	121.7	128.1	121.4	93.0	85.2	84.8	109.6	83.2	84.5	97.3	71.3
17.5°	162.2	163.0	177.4	150.7	118.7	125.5	115.9	116.3	102.8	107.8	120.6
20°	176.7	173.7	181.8	168.6	168.6	150.0	118.2	167.7	180.1	169.3	167.4
22.5°	303.4	302.2	264.3	185.0	191.2	175.3	179.1	195.3	183.6	172.4	169.3
25°	346.0	341.7	328.5	315.3	234.5	246.0	217.0	212.3	225.5	272.0	294.4
27.5°	460.3	465.4	397.5	354.9	316.4	264.6	248.1	304.9	282.8	297.8	294.4
30°	579.2	576.6	552.5	474.6	397.5	328.5	329.1	320.1	305.2	350.8	398.5
32.5°	751.1	759.7	650.0	568.2	496.9	399.8	362.3	425.5	422.8	409.6	427.6
35°	936.3	934.9	844.9	710.1	537.4	452.2	433.0	470.5	461.4	441.1	474.1
37.5°	1053.8	1040.6	979.5	863.5	657.0	515.4	522.2	549.6	540.4	513.7	574.9
40°	1224.2	1209.7	1136.6	979.2	819.3	624.6	662.8	640.5	610.8	605.9	613.8
42.5°	1286.7	1287.5	1216.0	1101.5	960.2	780.7	800.7	702.7	672.7	723.0	706.1
45°	1306.3	1303.6	1253.9	1168.1	1051.8	967.4	903.8	815.9	785.5	831.4	849.6
47.5°	1263.3	1252.5	1260.7	1164.7	1148.5	1048.9	1035.6	973.5	980.2	954.1	997.1
50°	1148.2	1132.3	1153.6	1128.5	1197.8	1137.0	1290.4	1054.9	1051.1	1098.1	1151.4
52.5°	969.4	957.6	1026.5	1005.8	1187.0	1233.4	1341.1	1289.3	1292.8	1297.2	1268.1
55°	794.3	800.4	853.1	841.0	1030.5	1254.3	1510.5	1481.8	1501.3	1392.6	1392.8
57.5°	567.1	580.7	675.6	682.7	858.8	1103.2	1646.4	1600.4	1650.7	1548.9	1571.7
60°	390.8	398.8	450.2	521.8	644.5	915.9	1574.0	1803.2	1848.8	1708.1	1707.1
62°	303.2	306.5	314.3	405.9	494.7	658.4	1558.1	1854.2	1918.7	1790.6	1763.0
62.5°	281.2	284.9	290.1	368.5	456.2	598.6	1498.6	1865.3	1911.4	1801.1	1772.4
65°	225.0	226.8	215.4	245.1	322.4	357.5	1076.8	1813.0	1842.3	1788.3	1745.0
67.5°	208.5	202.5	186.6	178.5	241.4	230.5	586.1	1545.3	1621.4	1711.6	1666.6
70°	172.7	186.2	173.5	159.4	192.6	177.1	248.8	1250.5	1271.8	1567.0	1560.8
72.5°	132.1	141.9	152.2	150.3	148.4	142.7	165.3	781.4	844.0	1286.1	1445.3
75°	107.2	111.2	132.5	128.1	131.8	112.8	130.2	371.4	449.5	910.3	1257.0
77.5°	86.1	88.9	103.0	99.4	109.1	88.3	103.8	168.3	190.6	523.3	860.8
80°	57.1	58.5	75.0	74.4	79.8	78.1	78.4	117.9	119.4	244.7	450.5
82.5°	42.6	42.0	51.7	52.0	51.7	56.5	53.8	80.8	84.1	120.0	149.7
85°	27.7	26.7	30.7	32.8	31.4	31.1	40.6	56.9	59.2	85.5	89.2
87.5°	15.2	16.2	20.3	20.3	21.3	21.0	33.1	37.9	39.5	57.1	48.0
90°	10.2	10.2	11.1	10.8	11.5	11.1	17.2	22.3	22.6	28.7	25.7
92.5°	9.2	9.8	11.1	11.1	12.1	10.5	15.5	19.0	19.3	23.4	19.7
95°	8.2	8.4	9.4	9.8	10.5	7.5	11.9	15.5	15.9	19.3	15.9
97.5°	6.7	7.5	8.2	8.4	9.4	6.7	9.8	12.4	12.8	14.9	12.1
100°	6.7	7.0	7.0	7.0	8.2	5.7	8.4	10.8	11.1	12.1	10.2
102.5°	6.4	6.7	6.4	6.1	6.7	5.1	7.5	9.2	9.2	8.9	8.4
105°	6.4	6.4	5.4	4.8	5.7	4.8	6.4	6.7	6.7	6.7	7.7
107.5°	6.1	6.1	5.1	4.4	4.8	4.0	5.4	5.7	5.7	6.1	7.5



REPORT NUMBER: P266306

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	5.7	5.4	4.4	3.8	3.8	3.8	4.4	4.8	4.8	5.4	7.7
112.5°	5.1	5.1	3.8	3.4	3.4	3.4	4.0	4.4	4.4	5.1	7.5
115°	4.8	4.8	3.8	3.1	3.1	3.1	3.8	4.0	4.0	4.8	7.5
117.5°	5.1	4.8	3.4	3.1	2.8	2.8	3.1	3.8	3.8	4.8	7.5
120°	4.4	4.4	3.4	2.8	2.3	2.8	3.1	3.4	3.8	5.1	7.5
122.5°	4.8	4.4	3.4	2.3	2.3	2.3	2.8	3.4	3.4	4.8	6.7
125°	4.4	4.0	3.1	2.3	2.1	2.3	2.8	3.1	3.4	4.8	6.7
127.5°	4.4	4.0	3.1	2.3	2.1	2.1	2.8	3.1	3.1	4.4	6.4
130°	4.0	4.0	2.8	2.1	2.1	2.1	2.3	2.8	2.8	4.0	5.7
132.5°	3.8	3.4	2.8	2.1	1.6	2.1	2.3	2.3	2.3	3.8	5.4
135°	3.4	3.4	2.8	2.1	1.6	1.6	2.1	2.3	2.3	3.4	4.8
137.5°	3.1	3.1	2.8	2.1	1.6	1.6	1.6	2.1	2.1	3.1	4.0
140°	3.1	3.1	2.8	2.1	1.6	1.6	1.6	1.6	1.6	2.3	3.4
142.5°	3.1	3.1	2.8	2.1	1.6	1.3	1.3	1.3	1.3	2.1	2.8
145°	2.8	2.8	2.3	2.1	1.3	1.0	1.0	1.3	1.3	1.6	2.1
147.5°	2.8	2.8	2.3	1.6	1.0	0.7	0.7	1.0	1.0	1.3	1.6
150°	2.1	2.1	2.1	1.3	0.7	0.0	0.7	0.7	0.7	1.3	1.3
152.5°	1.3	1.3	1.0	0.7	0.3	0.3	0.3	0.7	0.7	0.7	1.0
155°	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.3	0.3	0.7	0.7
157.5°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
162.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3
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: P266306

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	7.7	7.5	7.5	7.5	7.7	7.7	7.7	7.5	7.0	7.0	7.0
5°	7.0	6.7	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
7.5°	7.7	7.0	7.0	6.7	6.7	7.0	7.7	11.5	19.9	28.0	32.8
10°	10.8	10.8	9.4	8.9	8.9	12.8	47.7	51.7	51.7	49.0	47.3
12.5°	98.1	77.4	68.4	24.0	19.7	39.9	45.6	42.8	59.5	69.3	73.3
15°	71.0	77.8	83.8	75.4	101.8	42.6	69.0	83.8	112.8	114.3	115.3
17.5°	119.4	128.7	93.0	81.0	95.0	126.0	103.0	106.8	106.8	106.8	107.2
20°	168.0	170.9	178.5	170.7	95.3	132.8	132.1	107.4	121.0	150.7	159.2
22.5°	178.5	184.5	175.8	170.4	201.4	124.1	136.5	170.9	173.1	164.8	169.1
25°	302.8	294.0	258.3	181.8	201.1	173.5	176.4	160.2	164.6	159.9	163.0
27.5°	300.5	295.7	266.9	262.2	211.2	205.2	163.9	185.0	196.4	203.8	202.5
30°	419.8	392.1	309.2	270.7	249.4	196.4	180.1	175.1	173.7	182.5	183.2
32.5°	421.8	417.7	356.3	350.2	256.6	198.7	170.0	159.9	182.5	194.8	192.6
35°	489.3	468.5	407.3	377.8	294.7	186.8	151.8	159.9	163.6	172.4	172.0
37.5°	549.9	543.5	493.4	417.4	284.0	170.4	171.3	170.4	165.9	167.4	167.4
40°	630.3	594.9	550.2	454.3	265.7	182.5	185.0	160.8	156.5	154.1	154.1
42.5°	726.0	665.9	624.6	472.1	252.5	215.0	175.1	157.2	152.8	146.1	144.9
45°	838.8	764.2	702.4	477.9	211.9	222.7	181.8	178.9	164.3	158.2	155.9
47.5°	937.9	877.7	791.9	487.4	245.7	212.5	239.3	203.1	158.6	167.4	165.9
50°	1086.6	1009.2	854.7	463.3	262.7	206.5	248.8	177.8	163.2	175.1	174.5
52.5°	1218.1	1144.4	920.7	427.2	248.4	285.7	220.8	203.8	189.3	183.2	182.5
55°	1355.6	1282.1	965.3	409.0	245.3	228.4	229.4	220.8	170.9	184.2	183.9
57.5°	1513.9	1473.3	1062.2	401.3	251.4	201.8	229.4	184.5	195.0	184.2	186.2
60°	1598.4	1598.4	1118.7	393.4	232.2	207.1	197.1	202.7	169.3	171.3	176.7
62°	1669.3	1688.3	1170.4	372.7	231.6	173.7	193.7	179.1	165.6	175.8	182.5
62.5°	1693.3	1707.9	1186.0	368.8	237.2	164.6	179.5	178.9	171.7	173.1	179.1
65°	1716.7	1783.9	1223.2	343.1	218.4	155.4	153.4	169.7	148.7	142.3	142.7
67.5°	1694.4	1786.9	1210.6	276.0	177.1	133.5	135.6	141.7	134.1	131.8	133.2
70°	1612.8	1650.4	1083.3	227.8	152.8	122.3	130.2	125.0	123.0	122.7	122.3
72.5°	1501.3	1430.0	850.8	171.3	131.5	106.1	111.5	115.3	115.9	114.3	112.2
75°	1266.4	1123.2	555.0	128.5	105.1	89.9	101.8	104.8	107.4	102.8	101.1
77.5°	869.3	708.0	287.3	102.0	90.9	75.4	89.2	94.0	96.7	89.7	90.5
80°	403.6	323.1	132.8	83.5	75.4	62.5	75.6	81.7	85.5	76.0	72.7
82.5°	136.3	124.3	80.0	64.6	61.9	47.7	61.2	68.4	69.3	63.2	53.8
85°	81.0	81.4	56.1	49.6	45.6	29.7	43.9	53.8	53.8	44.6	36.6
87.5°	46.6	52.5	42.8	37.9	34.1	20.3	32.8	36.8	36.1	28.3	20.3
90°	23.4	27.4	25.3	25.1	25.7	12.8	25.7	27.7	27.7	19.7	12.4
92.5°	17.2	21.0	22.6	21.3	21.6	9.8	20.7	21.0	20.7	15.2	9.8
95°	14.6	18.2	22.6	21.3	20.7	8.2	19.0	19.3	19.7	14.9	10.8
97.5°	11.5	13.8	17.5	17.2	18.5	6.7	17.2	17.2	16.6	12.1	9.2
100°	10.5	12.1	14.9	14.9	16.2	6.1	15.2	13.8	13.1	9.8	8.4
102.5°	8.9	9.8	11.5	11.1	12.1	5.7	11.1	10.8	10.2	8.4	8.2
105°	8.4	8.9	8.9	8.2	8.4	5.4	7.7	7.5	7.0	7.0	7.5
107.5°	8.2	8.2	7.5	6.7	6.7	5.1	5.7	5.4	5.7	7.5	7.7



REPORT NUMBER: P266306

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.2	8.2	6.7	6.1	5.4	4.8	5.1	4.4	5.1	7.5	8.2
112.5°	8.2	8.2	6.1	5.1	5.1	4.4	4.4	4.0	4.8	7.5	8.2
115°	7.7	7.7	5.7	4.8	4.4	4.0	4.0	3.8	4.8	7.5	8.2
117.5°	7.7	7.7	5.7	4.8	4.0	3.8	3.8	3.4	4.8	7.7	8.2
120°	7.7	7.7	5.7	4.4	4.0	3.8	3.4	3.4	4.8	7.5	8.2
122.5°	7.5	7.0	5.4	4.0	3.8	3.4	3.4	3.4	4.8	7.7	8.2
125°	7.0	6.7	5.4	4.0	3.4	3.4	3.1	3.1	4.8	7.5	7.7
127.5°	6.7	6.7	5.1	3.8	3.4	3.1	3.1	3.1	4.8	7.7	7.7
130°	6.4	6.1	4.8	3.4	3.1	2.8	2.8	3.1	5.1	7.0	7.5
132.5°	5.7	5.4	4.4	3.1	2.8	2.8	2.8	2.8	4.8	7.0	7.0
135°	4.8	4.8	3.8	2.8	2.3	2.3	2.3	2.8	4.4	6.1	6.4
137.5°	4.4	4.0	3.4	2.8	2.1	2.3	2.3	2.8	4.4	5.7	6.1
140°	3.8	3.4	2.8	2.1	2.1	2.1	2.1	2.3	3.8	5.1	5.4
142.5°	2.8	2.8	2.3	1.6	1.6	1.6	1.6	2.3	3.4	4.4	4.4
145°	2.3	2.3	2.1	1.6	1.3	1.0	1.0	1.6	2.8	3.8	3.8
147.5°	1.6	1.6	1.6	1.3	1.0	1.0	1.0	1.3	2.1	2.8	2.8
150°	1.3	1.3	1.3	1.0	1.0	0.7	0.7	1.0	1.6	2.1	2.1
152.5°	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	1.0	1.3	1.3
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.7	0.7
157.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.3	0.7	0.7	0.3	0.3	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)