

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: P240372

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)
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-5WQ-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - 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



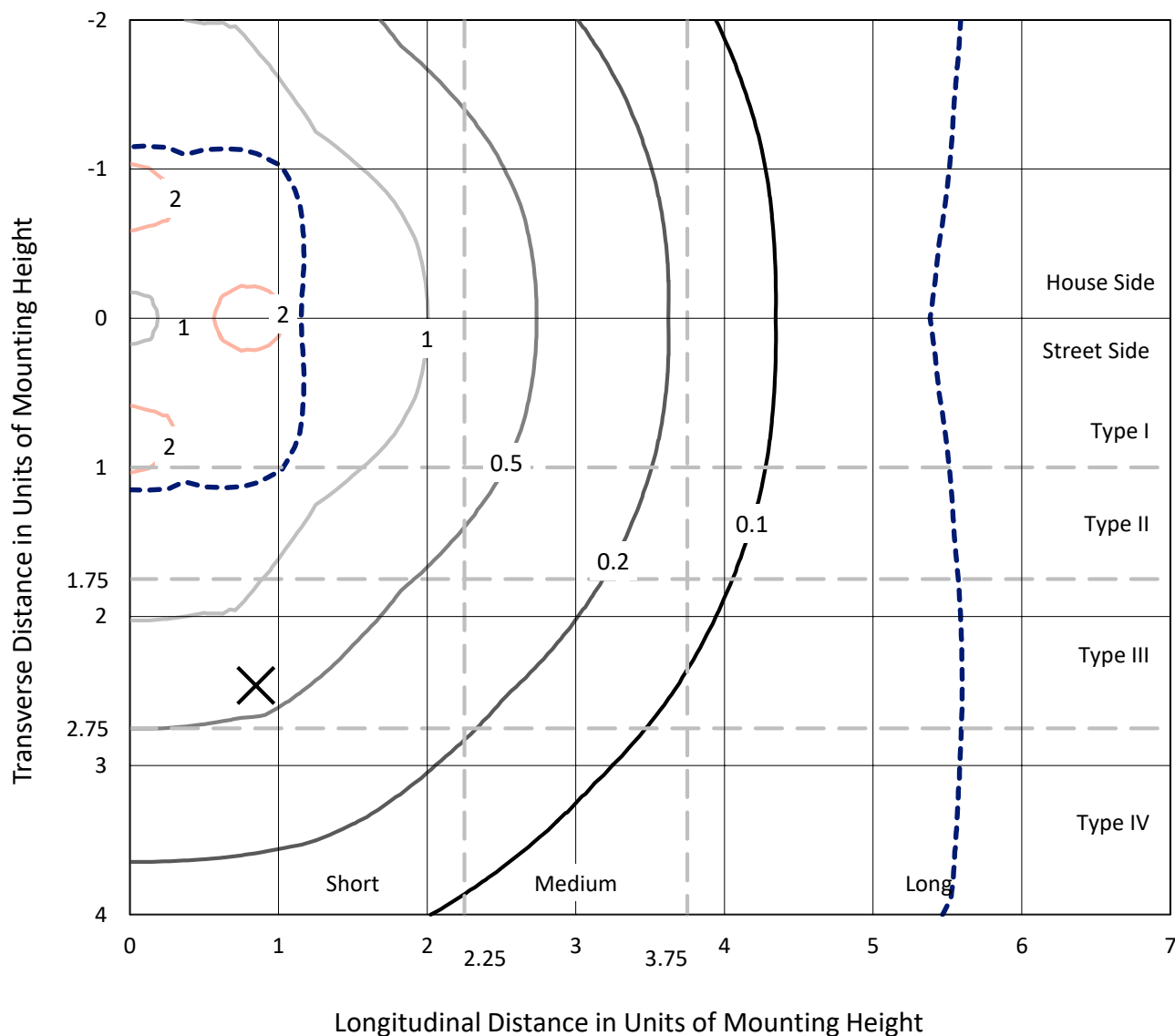
REPORT NUMBER: P240372

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

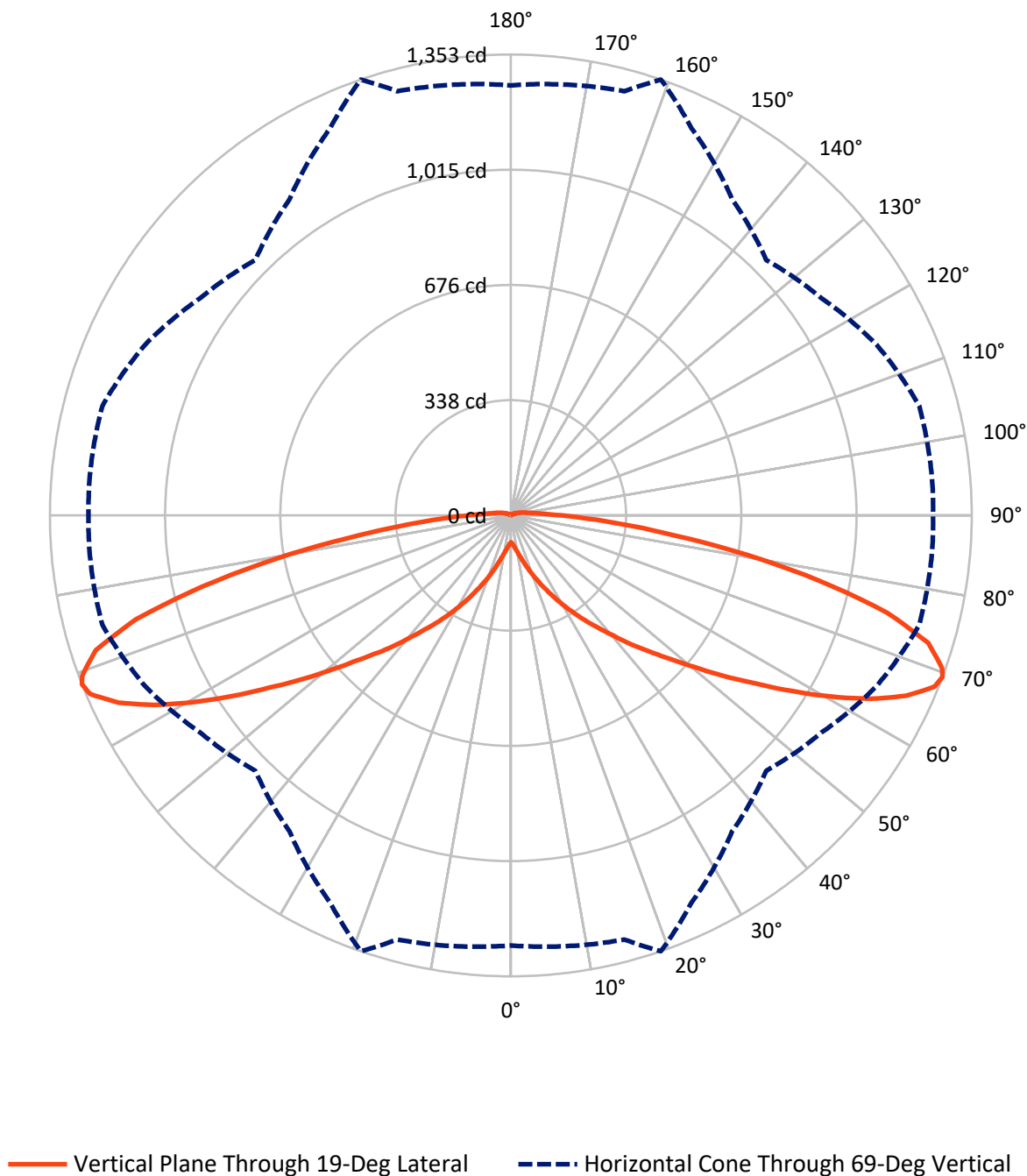


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Non-Cutoff

REPORT NUMBER: P240372

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

Luminous Intensity Polar Plot



REPORT NUMBER: P240372

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

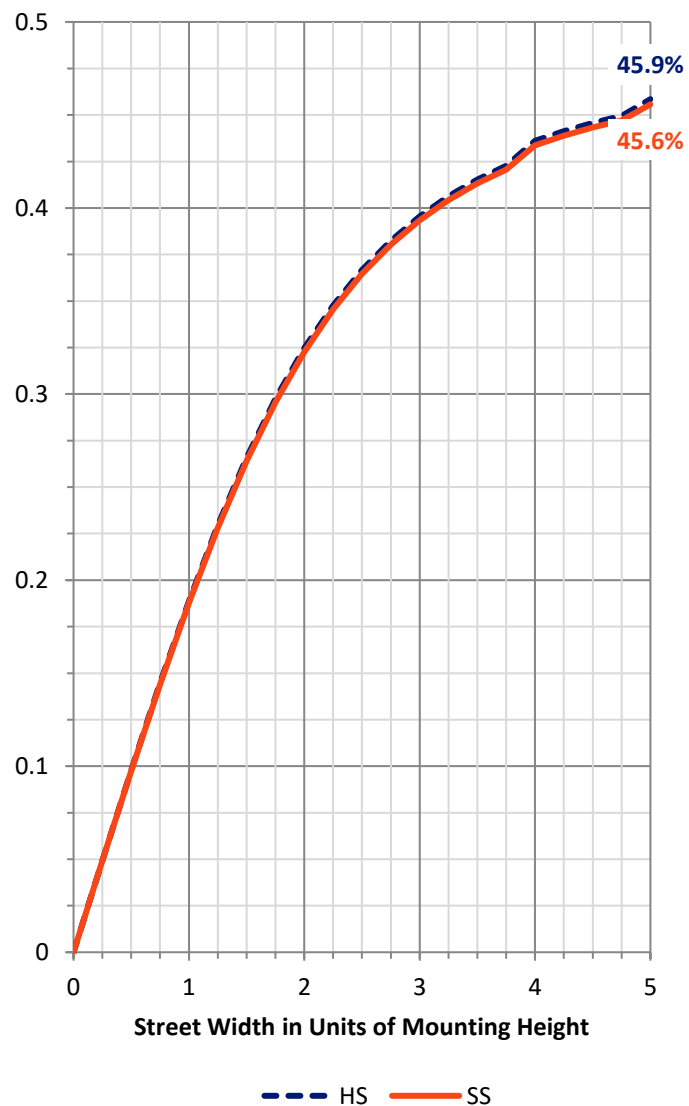
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2051.2	86.7	2138.0
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	2051.2	86.7	2138.0
	% Fixture	48.0	2.0	50.0
Total	Lumens	4102.4	173.5	4275.9
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.2
10°-20°	38.2	0.9
20°-30°	104.2	2.4
30°-40°	220.2	5.1
40°-50°	402.0	9.4
50°-60°	702.2	16.4
60°-70°	1100.7	25.7
70°-80°	1085.9	25.4
80°-90°	440.4	10.3
90°-100°	106.1	2.5
100°-110°	38.7	0.9
110°-120°	16.3	0.4
120°-130°	7.5	0.2
130°-140°	3.5	0.1
140°-150°	1.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4102.4	95.9
0°-180°	4275.9	100.0

Coefficient of Utilization



REPORT NUMBER: P240372

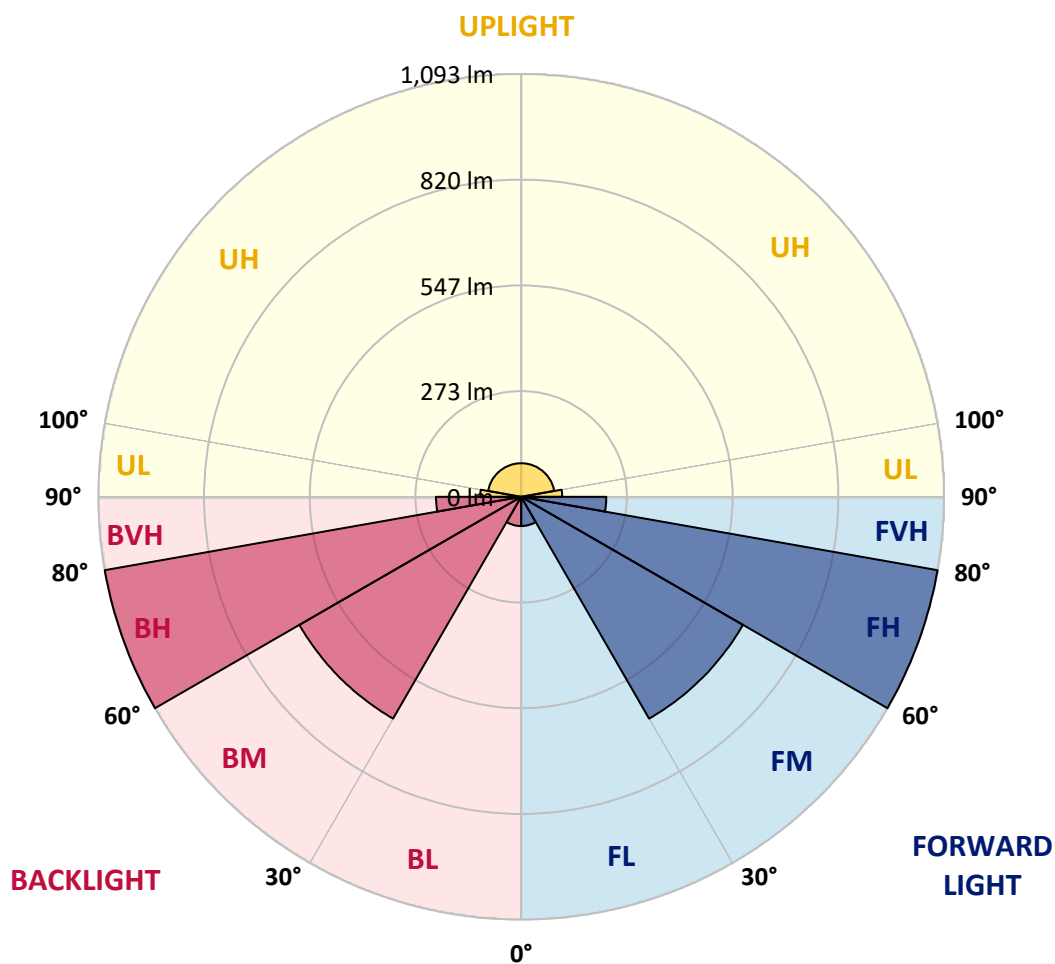
CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.5	1.8			
FM	(30°-60°)	662.2	15.5			
FH	(60°-80°)	1093.3	25.6			G1/1800
FVH	(80°-90°)	220.2	5.1			G2/225
BL	(0°-30°)	75.5	1.8	B0/110		
BM	(30°-60°)	662.2	15.5	B1/1000		
BH	(60°-80°)	1093.3	25.6	B3/2500		G1/1800
BVH	(80°-90°)	220.2	5.1			G2/225
UL	(90°-100°)	106.1	2.5		U3/500	
UH	(100°-180°)	86.7	2.0		U3/500	

BUG Rating: B3-U3-G2

Type V Short





REPORT NUMBER: P240372

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2.5°	80.7	80.7	80.7	82.8	80.7	80.7	80.7	80.7	80.7	80.7	80.2
5°	84.8	84.8	84.8	89.5	84.8	84.3	84.3	84.8	84.3	84.3	84.3
7.5°	92.6	92.1	92.1	98.3	92.1	91.6	91.0	91.0	91.0	90.5	90.5
10°	102.9	102.4	101.9	110.2	101.4	100.9	100.4	99.8	99.8	99.8	100.4
12.5°	116.4	116.4	115.4	124.7	113.9	112.2	111.2	110.7	111.2	111.7	112.2
15°	133.5	134.0	132.5	142.3	128.8	126.2	124.7	124.7	125.7	127.3	128.8
17.5°	156.2	155.7	152.6	164.5	148.4	143.3	139.6	140.1	143.8	147.9	150.6
20°	181.1	179.5	175.8	187.8	169.7	161.9	157.7	158.8	165.0	171.8	175.3
22.5°	208.5	206.9	201.7	213.7	192.4	182.6	178.5	180.0	187.8	197.6	204.9
25°	238.4	237.9	230.7	241.6	216.8	204.9	199.2	202.7	213.7	228.6	237.4
27.5°	271.6	270.6	261.3	273.1	244.2	229.7	223.0	226.6	241.1	260.8	274.7
30°	307.8	306.8	293.8	306.8	273.1	254.5	246.7	252.5	270.1	296.5	311.9
32.5°	346.6	345.6	329.5	342.0	305.2	281.4	271.1	278.9	301.6	330.5	351.3
35°	387.5	384.8	368.4	380.2	339.3	309.3	297.0	308.8	334.2	368.4	391.6
37.5°	431.4	428.3	409.2	419.5	375.0	340.9	326.9	337.8	369.9	406.1	434.5
40°	476.9	474.3	451.1	464.5	415.9	374.5	357.9	371.4	408.2	446.4	475.9
42.5°	525.1	522.5	500.2	517.3	459.9	411.2	392.1	409.2	449.0	491.4	523.5
45°	574.7	573.7	552.5	569.1	507.5	454.2	432.5	452.1	495.6	542.7	573.7
47.5°	635.3	629.0	613.0	629.0	564.4	507.0	480.1	500.7	548.8	600.1	631.1
50°	695.3	694.2	680.3	699.9	628.5	561.3	531.8	555.6	610.4	663.2	692.6
52.5°	766.6	768.7	753.7	783.2	703.0	630.0	594.8	621.7	682.8	734.1	763.0
55°	843.2	844.2	838.0	869.6	783.2	701.4	664.2	693.7	756.3	812.6	840.0
57.5°	932.2	931.1	929.0	972.5	877.4	786.9	740.8	776.4	841.7	898.6	921.3
60°	1020.1	1020.1	1025.3	1079.6	976.6	874.7	821.4	862.3	931.1	991.1	1007.7
62.5°	1115.3	1116.9	1121.5	1185.1	1071.8	964.2	903.2	947.7	1025.3	1080.6	1094.0
65°	1192.9	1200.1	1210.5	1276.1	1166.5	1045.5	981.3	1028.4	1108.1	1162.9	1171.2
67.5°	1249.3	1252.9	1272.6	1340.9	1236.3	1110.1	1039.7	1088.4	1167.0	1222.9	1228.1
69°	1262.2	1270.5	1288.6	1352.8	1254.4	1132.4	1060.0	1112.2	1184.6	1241.0	1241.0
70°	1256.5	1266.8	1288.6	1342.9	1258.6	1139.6	1068.8	1117.4	1188.3	1240.5	1238.9
72.5°	1193.9	1201.1	1238.4	1281.3	1227.0	1125.1	1064.6	1106.5	1156.1	1192.4	1183.0
75°	1062.0	1069.3	1111.1	1141.7	1128.2	1056.8	1013.9	1041.4	1065.1	1068.8	1051.2
77.5°	858.2	869.1	927.0	929.0	969.5	941.5	918.7	928.5	913.6	897.0	858.8
80°	647.6	655.4	708.7	703.5	770.3	787.9	785.2	779.6	734.6	682.3	639.3
82.5°	449.0	455.2	508.5	484.7	572.1	614.6	629.5	609.9	541.7	482.6	444.4
85°	287.7	298.0	339.8	324.4	401.9	453.2	475.4	444.9	380.2	323.4	291.2
87.5°	186.2	190.4	220.9	208.0	266.9	319.7	343.5	318.6	261.3	213.7	186.8
90°	120.0	124.7	143.8	134.0	178.5	219.8	240.0	216.8	176.9	143.3	124.7
92.5°	83.8	87.5	98.3	92.6	120.0	151.6	169.7	151.6	122.5	101.4	88.0
95°	64.1	65.7	73.4	68.3	87.5	109.7	120.5	109.7	89.5	76.0	66.7
97.5°	50.7	51.8	57.4	53.3	65.7	81.7	90.0	82.2	68.8	59.5	52.3
100°	40.8	41.4	46.0	44.0	52.8	64.1	69.9	64.7	55.3	47.6	41.9
102.5°	33.1	33.1	37.7	36.7	43.5	51.8	55.9	53.3	45.5	38.8	33.1
105°	26.4	26.4	30.5	30.5	36.2	42.5	46.0	43.5	37.2	31.0	26.4
107.5°	20.7	21.2	24.3	24.3	30.0	35.2	37.7	35.7	30.5	24.3	20.7



REPORT NUMBER: P240372

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	16.6	17.1	19.6	20.2	24.9	29.5	31.5	29.5	24.9	19.1	16.1
112.5°	13.4	13.4	16.1	16.1	20.2	24.3	25.9	24.3	20.2	15.0	12.9
115°	11.4	11.4	12.9	12.9	16.6	20.2	21.7	20.2	16.1	12.4	10.8
117.5°	9.8	9.8	10.8	10.8	14.0	17.1	18.1	16.6	13.4	10.3	9.3
120°	8.8	8.8	9.3	9.3	11.4	14.0	15.0	14.0	10.8	8.8	8.3
122.5°	7.8	7.8	8.3	7.8	9.8	11.9	12.4	11.4	9.3	7.8	7.3
125°	7.3	7.3	7.3	6.8	8.3	9.8	10.3	9.3	7.8	6.8	6.8
127.5°	6.2	6.2	6.2	5.7	6.8	8.3	8.8	7.8	6.8	6.2	5.7
130°	5.7	5.7	5.7	5.2	6.2	6.8	7.3	6.8	5.7	5.7	5.7
132.5°	5.2	5.2	5.2	4.7	5.2	5.7	5.7	5.2	4.7	4.7	5.2
135°	4.7	4.7	4.7	4.1	4.1	4.1	4.7	4.1	4.1	4.1	4.7
137.5°	4.1	4.1	4.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.1
140°	3.6	3.6	3.6	2.6	3.1	2.6	2.6	2.6	3.1	3.1	3.6
142.5°	3.1	3.1	2.6	2.6	2.6	2.0	1.5	2.0	2.0	2.6	3.1
145°	2.6	2.6	2.0	2.0	2.0	1.5	1.0	1.0	2.0	2.0	2.0
147.5°	2.0	2.0	1.5	1.5	1.5	1.0	0.5	1.0	1.5	1.5	2.0
150°	1.5	1.5	1.0	1.0	1.0	0.5	0.5	0.5	1.0	1.0	1.5
152.5°	1.0	1.0	1.0	0.5	0.5	0.5	0.0	0.5	0.5	1.0	1.0
155°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.0	0.0	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: P240372

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

CANDELA DISTRIBUTION (continued):

	90°
0°	79.2
2.5°	80.2
5°	84.3
7.5°	90.5
10°	99.8
12.5°	112.7
15°	128.8
17.5°	150.1
20°	176.4
22.5°	206.9
25°	240.0
27.5°	276.2
30°	314.0
32.5°	354.9
35°	396.3
37.5°	437.1
40°	481.1
42.5°	525.6
45°	575.2
47.5°	632.7
50°	698.4
52.5°	766.1
55°	838.0
57.5°	921.3
60°	1009.2
62.5°	1095.2
65°	1169.1
67.5°	1226.5
69°	1239.4
70°	1235.3
72.5°	1172.2
75°	1038.2
77.5°	850.0
80°	625.4
82.5°	428.3
85°	284.5
87.5°	182.1
90°	119.5
92.5°	85.3
95°	64.7
97.5°	51.2
100°	40.8
102.5°	33.1
105°	25.9
107.5°	20.2



REPORT NUMBER: P240372

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-TL

CANDELA DISTRIBUTION (continued):

	90°
110°	16.1
112.5°	12.9
115°	10.8
117.5°	9.3
120°	7.8
122.5°	7.3
125°	6.8
127.5°	5.7
130°	5.7
132.5°	5.2
135°	4.7
137.5°	4.1
140°	3.6
142.5°	3.1
145°	2.6
147.5°	1.5
150°	1.5
152.5°	1.0
155°	0.5
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)