

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: P240479

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
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-T4W-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3126.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

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

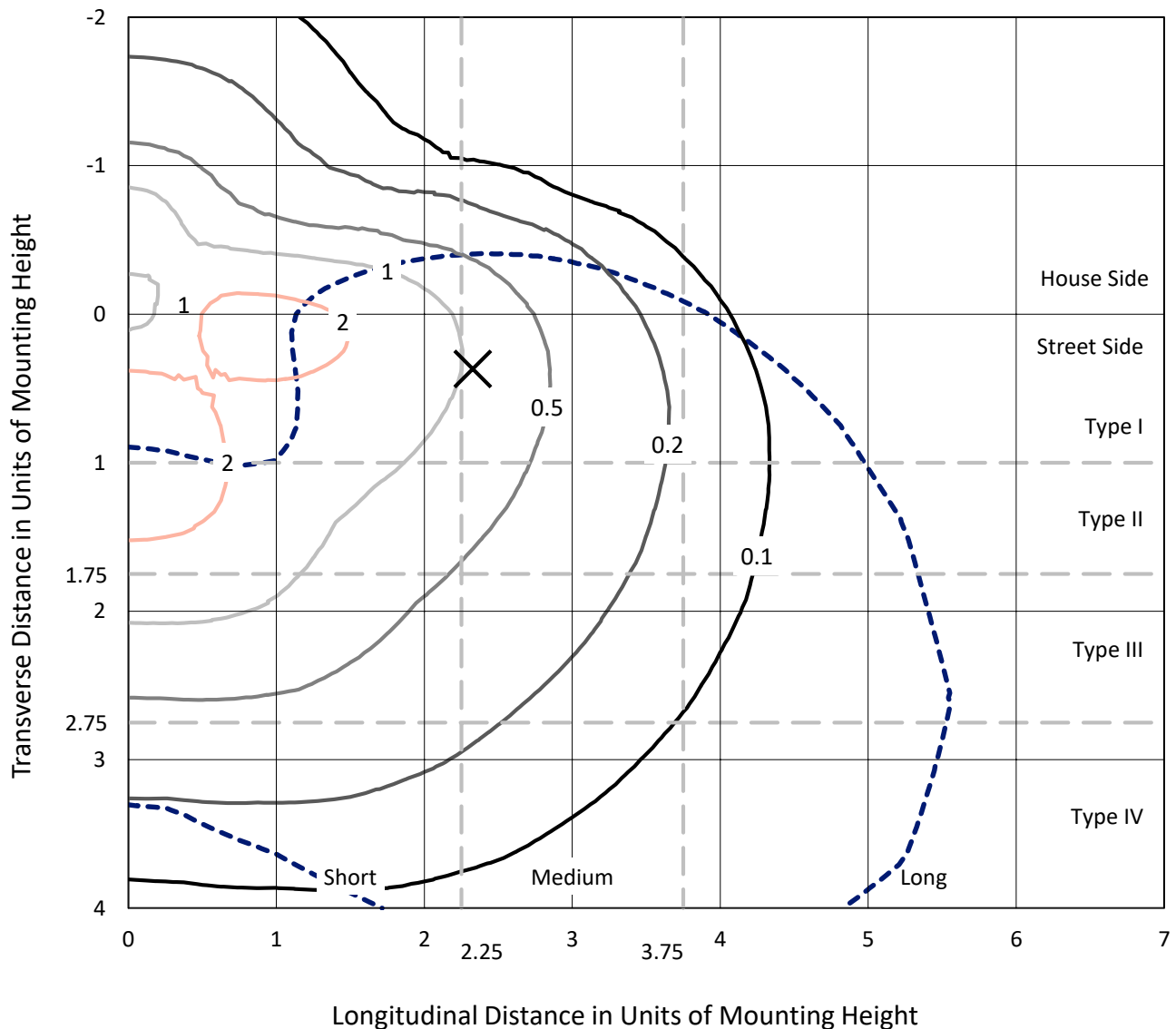


REPORT NUMBER: P240479

CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-TL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

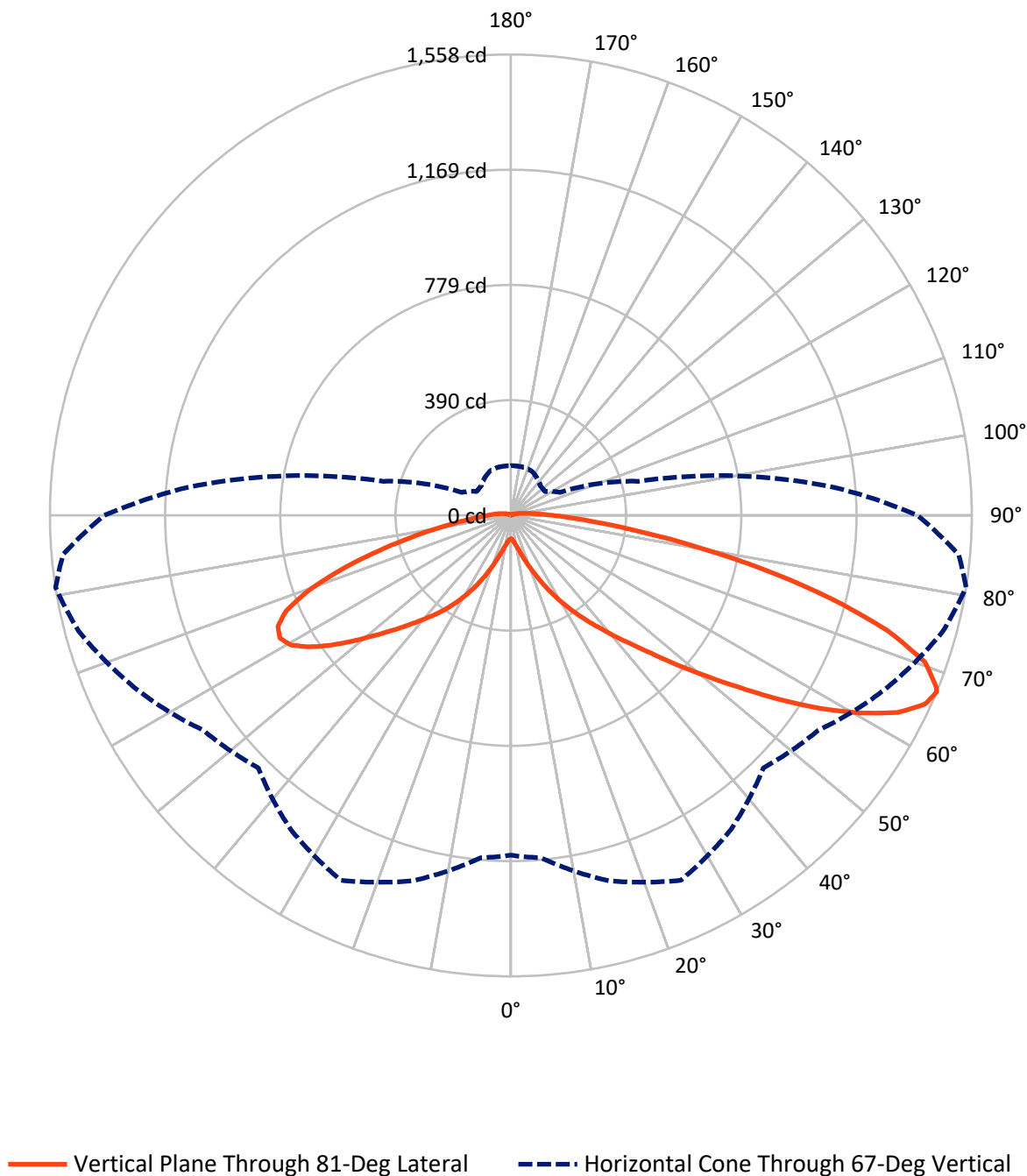


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240479

CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-TL

Luminous Intensity Polar Plot



REPORT NUMBER: P240479

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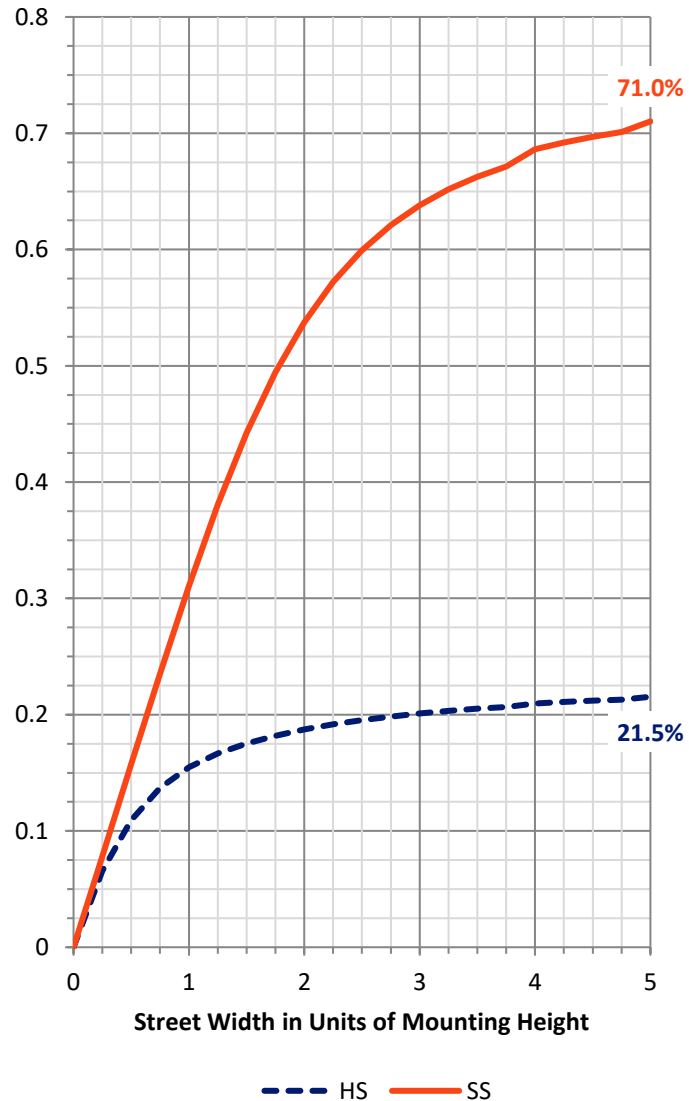
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.5	57.2	767.6
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	2293.2	65.3	2358.5
	% Fixture	73.4	2.1	75.4
Total	Lumens	3003.7	122.5	3126.1
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.3
10°-20°	39.5	1.3
20°-30°	106.6	3.4
30°-40°	214.0	6.8
40°-50°	361.7	11.6
50°-60°	578.3	18.5
60°-70°	790.1	25.3
70°-80°	651.3	20.8
80°-90°	253.5	8.1
90°-100°	73.0	2.3
100°-110°	28.0	0.9
110°-120°	12.1	0.4
120°-130°	5.8	0.2
130°-140°	2.7	0.1
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3003.7	96.1
0°-180°	3126.1	100.0

Coefficient of Utilization



REPORT NUMBER: P240479

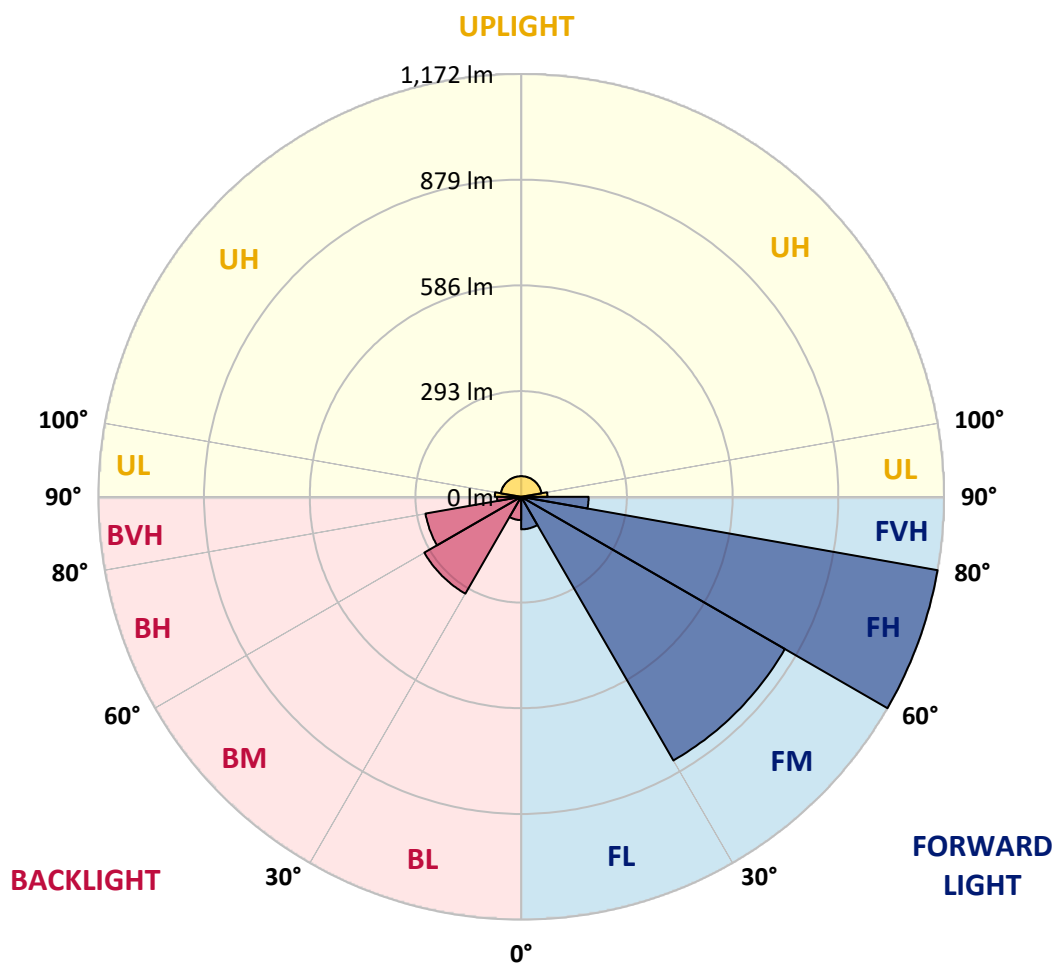
CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.3	2.9			
FM	(30°-60°)	844.0	27.0			
FH	(60°-80°)	1172.2	37.5			G1/1800
FVH	(80°-90°)	186.8	6.0			G2/225
BL	(0°-30°)	64.5	2.1	B0/110		
BM	(30°-60°)	309.9	9.9	B1/1000		
BH	(60°-80°)	269.2	8.6	B1/500		G1/500
BVH	(80°-90°)	66.7	2.1			G1/100
UL	(90°-100°)	73.0	2.3		U3/500	
UH	(100°-180°)	57.2	1.8		U3/500	

BUG Rating: B1-U3-G2

Type IV Medium



REPORT NUMBER: P240479

CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-TL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	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°	85.5	85.5	85.5	85.1	84.7	84.0	83.2	82.3	81.9	81.5	81.1
5°	94.3	94.7	94.3	93.9	92.7	91.6	89.9	88.7	87.2	86.3	85.9
7.5°	107.4	107.4	107.0	105.1	103.8	101.9	99.8	97.5	95.9	94.7	93.1
10°	124.2	123.4	122.5	120.6	117.7	114.6	112.2	109.5	106.6	105.9	104.2
12.5°	144.0	144.0	142.1	139.2	134.1	130.9	126.9	123.8	120.9	119.4	118.6
15°	170.7	169.5	165.9	161.5	155.2	148.8	144.4	142.1	139.2	139.2	136.5
17.5°	197.7	199.0	193.3	186.6	177.9	169.9	164.7	164.3	163.2	162.3	161.9
20°	233.1	232.0	225.2	213.7	200.9	191.4	187.8	188.2	191.4	191.0	189.3
22.5°	271.4	271.4	261.0	245.5	227.6	216.0	212.5	216.0	222.8	222.8	223.6
25°	316.7	315.1	302.0	278.5	257.1	241.9	240.3	245.9	257.8	259.8	259.0
27.5°	367.6	362.0	344.9	315.9	287.7	270.6	267.8	278.1	294.4	300.0	302.0
30°	421.8	422.2	395.9	358.0	319.9	297.2	296.0	312.7	332.3	341.8	344.1
32.5°	484.2	482.2	451.9	404.7	355.3	325.8	324.7	347.7	372.5	384.7	386.4
35°	561.8	552.6	518.8	456.7	391.9	358.4	357.7	382.8	415.0	430.5	434.4
37.5°	633.0	628.2	589.6	510.9	433.6	391.5	389.9	422.6	460.7	478.6	484.2
40°	716.2	710.6	665.2	575.3	483.4	429.7	428.9	466.0	510.0	532.8	537.6
42.5°	797.7	794.1	745.2	646.9	535.9	472.7	471.1	514.0	566.2	591.7	597.6
45°	885.3	876.2	828.8	720.2	594.4	522.4	523.2	569.8	634.2	664.0	670.0
47.5°	960.0	954.5	914.7	799.3	658.9	576.5	577.7	639.8	718.1	752.8	755.6
50°	1041.7	1038.4	999.0	883.3	736.4	643.7	645.8	715.8	810.5	850.3	864.2
52.5°	1109.3	1109.7	1079.8	969.7	812.8	716.2	722.1	806.5	910.7	964.0	972.4
55°	1175.3	1173.3	1155.8	1064.3	903.6	797.3	804.1	906.7	1030.5	1095.0	1106.1
57.5°	1223.0	1228.3	1230.2	1155.0	991.4	878.9	901.2	1011.0	1160.9	1230.2	1240.1
60°	1256.1	1258.4	1286.4	1246.2	1086.6	975.2	1004.2	1126.8	1283.5	1356.3	1362.7
62.5°	1252.9	1263.2	1317.4	1314.6	1178.8	1066.7	1103.7	1235.4	1390.2	1467.3	1468.5
65°	1210.4	1227.4	1318.2	1358.0	1255.3	1153.4	1201.1	1333.3	1477.7	1538.9	1523.1
67°	1148.7	1161.8	1278.4	1360.7	1296.7	1207.2	1267.6	1393.8	1512.3	1558.1	1519.5
67.5°	1122.8	1146.2	1263.7	1358.0	1301.0	1218.6	1278.4	1409.6	1519.5	1552.1	1510.7
70°	998.3	1016.6	1148.3	1301.0	1302.6	1253.7	1322.9	1428.8	1492.4	1485.2	1410.4
72.5°	829.5	837.9	982.3	1175.7	1243.0	1239.7	1309.8	1379.4	1378.6	1331.3	1240.5
75°	628.6	650.9	781.0	987.1	1118.4	1162.2	1225.8	1248.9	1194.0	1114.4	1004.6
77.5°	443.7	455.2	570.2	776.2	945.3	1026.9	1071.8	1061.1	960.0	866.1	766.7
80°	287.2	298.4	377.6	556.2	741.2	828.4	869.3	837.5	735.7	625.4	541.9
82.5°	173.9	183.4	239.2	373.2	544.7	642.2	662.9	632.2	518.8	427.3	361.7
85°	101.9	109.5	148.4	240.7	371.2	463.5	471.1	436.1	348.5	285.7	241.1
87.5°	62.1	66.1	93.9	154.0	246.3	312.7	328.3	295.6	234.8	191.0	162.3
90°	40.2	43.0	60.0	101.1	161.5	206.5	216.0	197.3	159.2	130.1	111.8
92.5°	27.4	30.3	41.7	67.6	106.2	136.9	142.8	129.7	107.0	91.6	81.5
95°	21.1	22.3	31.8	47.8	72.4	91.6	97.1	88.3	74.8	67.2	61.3
97.5°	17.1	17.9	25.5	37.0	52.5	65.7	68.0	61.7	55.3	50.5	47.8
100°	14.7	15.1	21.5	30.3	41.0	49.7	50.9	46.1	41.7	39.4	37.0
102.5°	13.1	13.5	18.7	25.9	33.5	39.4	39.4	35.8	31.8	30.3	29.1
105°	11.6	12.0	16.7	22.3	28.6	32.2	32.2	28.2	24.7	23.1	22.7
107.5°	10.3	10.7	14.3	19.5	24.2	27.0	26.7	22.7	18.7	17.1	17.1



REPORT NUMBER: P240479

CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-TL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	9.5	9.5	12.7	17.1	20.7	23.1	21.9	18.3	14.3	13.1	13.5
112.5°	8.8	8.8	11.2	14.7	18.3	19.8	18.3	15.1	11.2	10.3	10.7
115°	8.4	8.4	9.9	13.1	16.0	16.7	15.5	12.4	9.1	8.4	8.8
117.5°	7.6	7.6	9.1	11.6	13.5	14.3	13.1	9.9	7.6	7.2	7.6
120°	7.2	7.2	8.0	9.9	12.0	12.4	11.2	8.4	6.3	6.3	6.8
122.5°	6.8	6.8	7.6	8.8	10.3	10.7	9.5	6.8	5.5	5.5	5.9
125°	6.8	6.8	6.8	8.0	8.8	9.1	8.0	5.9	5.2	5.2	5.5
127.5°	6.3	6.3	6.3	6.8	7.6	7.6	6.8	4.8	4.4	4.8	4.8
130°	5.9	5.9	5.9	6.3	6.8	6.3	5.5	4.0	4.0	4.4	4.4
132.5°	5.5	5.5	5.5	5.5	5.5	5.2	4.4	3.6	3.6	4.0	4.0
135°	5.2	5.2	5.2	4.8	4.8	4.4	3.6	2.8	3.2	3.6	3.6
137.5°	4.8	4.8	4.8	4.4	4.0	3.2	2.4	2.4	2.8	3.2	3.2
140°	4.4	4.4	4.0	3.6	3.2	2.4	1.6	1.9	2.4	2.4	2.8
142.5°	3.6	3.6	3.6	2.8	1.9	1.6	1.2	1.2	1.9	1.9	1.9
145°	3.2	3.2	2.8	2.4	1.6	0.8	0.4	0.8	1.2	1.6	1.6
147.5°	2.4	2.4	2.4	1.6	0.8	0.4	0.4	0.4	0.8	1.2	1.2
150°	1.9	1.9	1.6	1.2	0.4	0.0	0.0	0.4	0.8	0.8	0.8
152.5°	1.2	1.2	1.2	0.8	0.0	0.0	0.0	0.4	0.4	0.4	0.4
155°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	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: P240479

CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
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°	80.8	80.4	80.0	79.2	78.8	77.9	77.2	76.8	76.4	76.4	76.4
5°	85.1	84.7	83.6	81.9	80.8	79.6	78.8	77.9	77.2	77.2	77.2
7.5°	92.3	91.6	89.1	87.6	85.5	84.0	82.8	81.5	81.1	81.1	80.8
10°	102.6	101.5	98.7	95.4	92.7	90.7	89.1	88.0	87.6	87.6	87.6
12.5°	116.2	114.6	110.2	106.2	101.9	99.0	97.1	96.7	97.1	97.1	96.7
15°	135.6	132.5	125.7	119.4	112.6	108.2	107.0	107.0	109.0	109.8	110.2
17.5°	159.2	155.2	146.0	135.6	125.3	119.4	118.6	120.9	125.3	127.4	126.9
20°	188.2	182.6	169.9	154.4	140.0	132.5	131.7	136.1	142.1	146.0	145.7
22.5°	220.9	215.6	196.5	173.9	154.0	145.3	144.0	151.2	160.0	164.3	165.9
25°	257.1	249.9	224.8	193.7	168.7	156.4	156.0	164.7	176.3	184.2	185.4
27.5°	296.5	288.1	255.0	213.7	181.5	165.5	165.1	177.1	192.9	203.0	203.4
30°	339.8	327.0	284.9	230.4	191.0	171.9	172.7	186.6	206.9	218.4	220.4
32.5°	382.8	368.5	311.9	246.6	197.3	175.0	176.3	193.7	216.0	230.8	232.3
35°	428.1	409.8	339.0	257.4	200.9	175.4	176.7	196.5	220.9	236.7	238.3
37.5°	473.8	451.9	361.7	265.4	200.9	173.1	174.6	195.8	220.4	236.7	237.9
40°	527.9	496.1	383.2	268.5	197.7	168.7	170.7	191.4	214.4	229.6	230.8
42.5°	584.1	545.8	403.5	267.8	192.2	163.2	165.1	184.2	204.5	216.9	218.0
45°	651.7	605.2	424.1	265.4	185.4	157.1	158.4	175.4	192.5	201.3	203.0
47.5°	734.9	668.8	445.2	261.0	177.9	151.6	152.4	167.5	179.8	185.4	186.6
50°	827.2	744.0	468.3	255.0	170.7	146.4	147.6	160.0	168.7	171.0	171.4
52.5°	936.6	829.2	489.8	247.9	164.3	142.4	144.0	155.2	161.1	161.5	161.9
55°	1054.8	922.3	508.9	239.2	157.9	139.6	142.8	153.1	157.1	156.7	157.1
57.5°	1178.1	1011.8	522.0	230.0	152.8	138.1	143.2	153.1	157.1	156.4	157.1
60°	1288.3	1088.6	524.0	218.0	148.8	138.1	145.7	156.0	159.6	159.6	160.3
62.5°	1366.7	1132.7	510.9	206.1	145.3	138.8	148.8	159.6	163.2	163.2	163.9
65°	1398.5	1131.9	482.2	193.3	142.4	140.0	152.0	163.6	166.3	166.3	167.2
67°	1374.6	1095.0	445.2	183.8	140.9	141.3	154.4	165.9	168.3	167.9	168.3
67.5°	1359.9	1081.8	437.2	181.1	140.5	141.3	154.8	166.3	168.7	168.3	168.3
70°	1238.2	970.0	382.4	169.1	137.7	141.3	156.4	167.2	168.7	167.9	167.9
72.5°	1050.0	811.6	320.7	157.1	134.5	140.0	155.6	165.9	166.7	165.5	165.5
75°	835.1	635.0	263.4	146.8	130.1	137.3	152.8	162.3	163.6	162.3	161.1
77.5°	618.3	470.3	212.9	135.6	124.9	132.9	148.0	157.1	158.4	157.1	156.0
80°	431.3	334.2	171.4	124.5	118.2	126.5	141.3	149.2	150.8	150.0	148.0
82.5°	288.5	229.6	137.3	112.2	109.5	118.2	132.1	139.2	140.5	139.6	137.3
85°	196.9	160.0	113.3	99.0	99.8	108.2	120.2	125.7	126.9	125.7	123.4
87.5°	132.5	114.6	92.7	86.3	88.7	96.7	106.2	109.0	111.4	109.5	107.8
90°	95.9	86.3	74.8	73.7	77.5	84.4	90.7	91.1	94.3	93.5	90.3
92.5°	72.0	67.6	62.1	62.1	66.5	72.0	76.0	75.2	77.2	77.2	74.8
95°	56.9	54.5	51.8	52.9	56.9	60.9	62.1	60.5	62.5	62.9	62.1
97.5°	45.7	45.0	44.2	45.0	48.6	51.8	51.4	48.6	50.1	50.9	50.1
100°	37.0	36.6	37.0	38.6	41.4	43.4	42.1	39.4	40.6	40.6	40.6
102.5°	29.9	29.9	31.0	32.6	34.6	36.2	34.6	32.2	32.6	32.2	32.2
105°	23.4	23.8	25.5	27.4	29.1	29.9	28.2	25.9	25.5	24.2	24.7
107.5°	18.3	19.1	20.7	22.7	24.2	24.7	23.4	21.1	19.5	18.7	18.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	14.3	15.1	17.1	18.7	19.8	20.3	19.1	16.7	14.7	14.3	14.3
112.5°	11.6	12.4	13.9	15.5	16.7	16.7	15.5	13.5	11.2	10.7	10.7
115°	9.5	9.9	11.6	12.7	13.9	13.9	12.7	10.7	8.8	8.4	8.8
117.5°	8.0	8.4	9.5	10.7	11.6	11.6	10.3	8.4	6.8	6.8	6.8
120°	7.2	7.6	8.4	9.1	9.5	9.5	8.8	6.8	5.5	5.5	5.5
122.5°	6.3	6.3	7.2	7.6	8.4	8.0	7.2	5.5	4.4	4.8	4.8
125°	5.5	5.9	5.9	6.8	6.8	6.8	5.5	4.4	4.0	4.0	4.0
127.5°	5.2	5.2	5.5	5.5	5.9	5.5	4.4	3.2	3.2	3.6	3.6
130°	4.8	4.8	4.8	4.8	4.8	4.4	3.6	2.8	2.8	3.2	3.2
132.5°	4.0	4.4	4.4	4.0	4.0	3.6	2.8	1.9	2.4	2.4	2.4
135°	3.6	4.0	3.6	3.6	3.2	2.8	1.9	1.6	1.9	1.9	1.9
137.5°	3.2	3.2	3.2	2.8	2.4	1.9	1.6	1.2	1.6	1.6	1.6
140°	2.8	2.8	2.8	2.4	1.9	1.6	0.8	0.8	1.2	1.2	1.2
142.5°	1.9	2.4	1.9	1.6	1.2	0.8	0.4	0.4	0.8	1.2	0.8
145°	1.6	1.6	1.6	1.2	0.8	0.4	0.0	0.0	0.4	0.4	0.4
147.5°	1.2	1.2	1.2	0.8	0.4	0.4	0.0	0.0	0.0	0.4	0.4
150°	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.4	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

(END OF REPORT)