

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: P240312

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T2U-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6072.7 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

Input Watts (W): 74
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



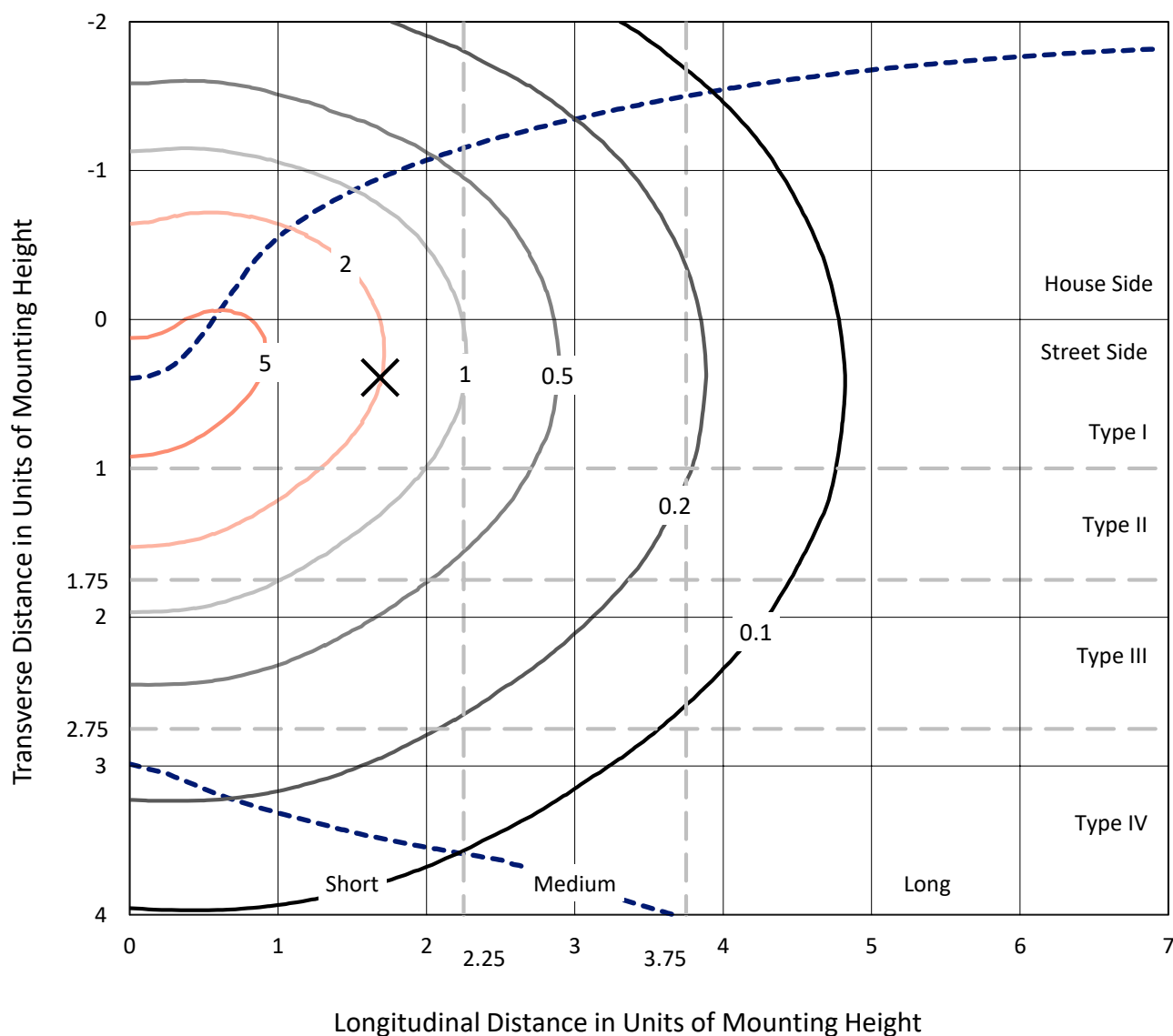
REPORT NUMBER: P240312

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

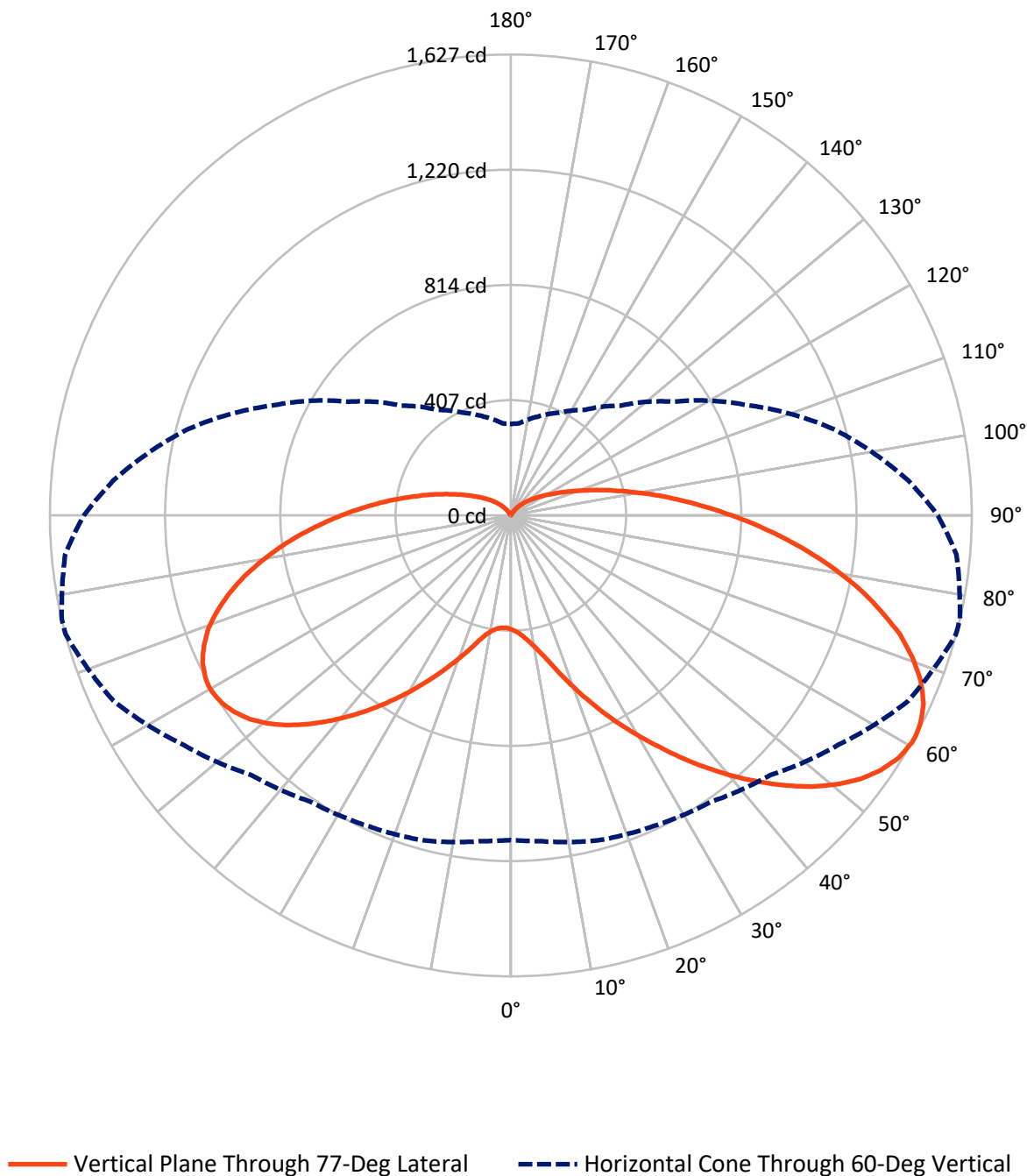


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P240312

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240312

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

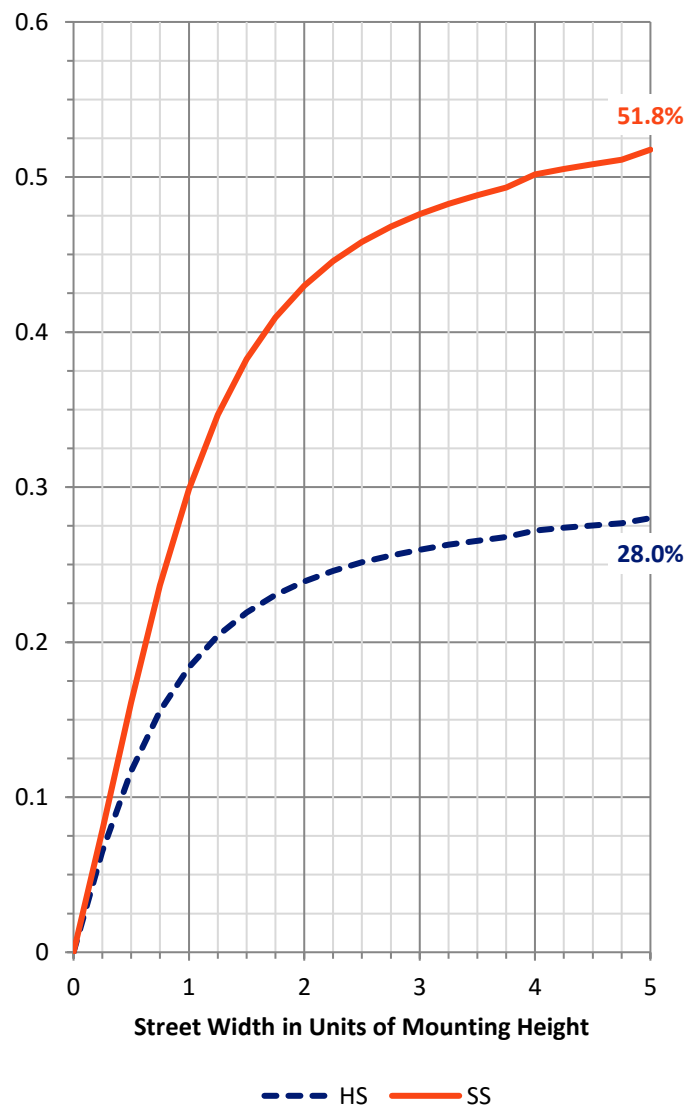
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.9	387.9	2193.8
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	3331.4	547.4	3878.8
	% Fixture	54.9	9.0	63.9
Total	Lumens	5137.4	935.3	6072.7
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	0.7
10°-20°	141.4	2.3
20°-30°	303.0	5.0
30°-40°	522.4	8.6
40°-50°	758.4	12.5
50°-60°	933.3	15.4
60°-70°	967.1	15.9
70°-80°	843.2	13.9
80°-90°	628.5	10.3
90°-100°	415.5	6.8
100°-110°	253.6	4.2
110°-120°	145.2	2.4
120°-130°	76.8	1.3
130°-140°	34.0	0.6
140°-150°	9.5	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5137.4	84.6
0°-180°	6072.7	100.0

Coefficient of Utilization



REPORT NUMBER: P240312

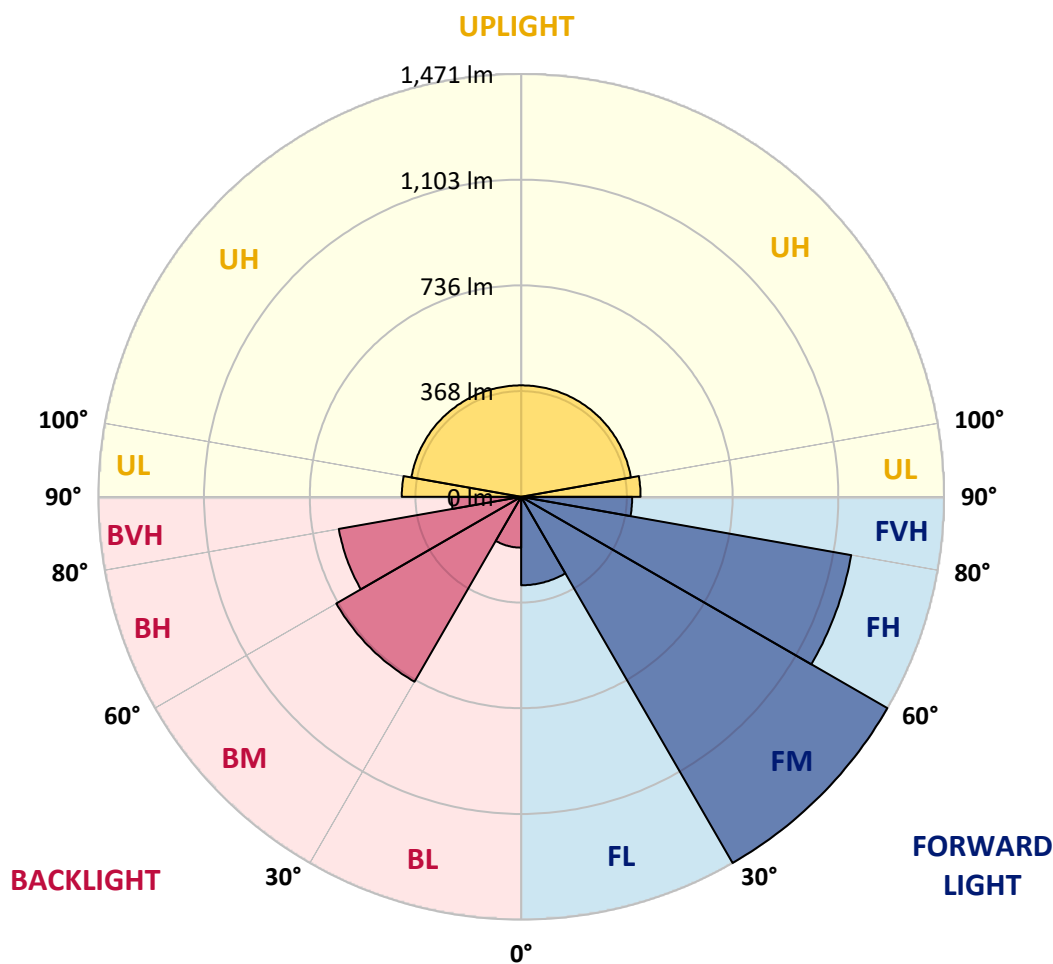
CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.7	5.1			
FM	(30°-60°)	1471.3	24.2			
FH	(60°-80°)	1166.1	19.2			G1/1800
FVH	(80°-90°)	386.3	6.4			G3/500
BL	(0°-30°)	176.9	2.9	B1/500		
BM	(30°-60°)	742.8	12.2	B1/1000		
BH	(60°-80°)	644.1	10.6	B2/1000		G2/1000
BVH	(80°-90°)	242.2	4.0			G3/500
UL	(90°-100°)	415.5	6.8		U3/500	
UH	(100°-180°)	387.9	6.4		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





REPORT NUMBER: P240312

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
2.5°	437.8	437.8	436.2	435.4	432.2	428.3	424.4	418.8	413.3	411.7	408.6
5°	475.6	475.6	474.0	470.2	464.6	457.5	448.8	440.1	429.1	426.7	418.0
7.5°	518.2	516.7	512.8	508.7	500.9	490.6	478.8	465.3	450.3	447.2	434.7
10°	560.8	560.8	556.9	550.5	541.1	527.7	513.5	496.9	477.3	473.3	456.7
12.5°	609.7	608.1	601.8	597.1	586.0	571.1	555.2	534.9	511.2	507.2	485.8
15°	661.8	661.0	655.4	645.1	632.6	618.4	601.8	579.7	554.5	548.2	524.6
17.5°	720.1	715.4	712.3	701.2	687.8	669.6	657.0	634.1	606.6	599.5	570.4
20°	773.8	774.5	767.4	758.0	745.3	732.8	714.7	694.2	664.2	654.7	621.5
22.5°	834.5	834.5	827.4	818.0	805.4	799.0	778.5	757.2	720.9	713.8	676.8
25°	897.7	895.3	888.2	879.5	873.2	865.4	846.3	821.1	784.1	777.0	735.1
27.5°	956.0	956.8	948.2	941.0	940.1	930.1	914.2	887.4	851.9	841.7	796.6
30°	1015.9	1016.7	1010.4	1001.7	1002.6	996.2	982.8	955.3	921.3	909.5	861.3
32.5°	1075.8	1074.3	1065.6	1064.8	1062.4	1057.7	1047.5	1030.1	993.0	980.5	930.8
35°	1129.5	1129.5	1120.9	1124.0	1119.3	1118.5	1115.3	1101.9	1068.8	1056.2	1002.6
37.5°	1179.2	1178.5	1173.7	1174.5	1171.4	1170.5	1176.0	1174.5	1143.7	1133.4	1078.3
40°	1225.1	1220.2	1216.3	1219.5	1216.3	1221.0	1234.4	1243.9	1217.9	1209.9	1154.0
42.5°	1256.5	1255.0	1253.3	1258.8	1254.2	1265.2	1286.5	1309.4	1293.6	1285.7	1229.7
45°	1281.7	1278.6	1281.7	1287.3	1284.2	1298.3	1336.1	1370.8	1370.8	1359.8	1302.3
47.5°	1292.0	1291.2	1299.1	1303.8	1302.3	1325.1	1375.6	1428.4	1439.5	1430.9	1372.6
50°	1289.7	1289.7	1302.3	1309.4	1310.9	1340.9	1404.8	1474.2	1499.5	1492.4	1434.8
52.5°	1274.6	1274.6	1293.6	1302.3	1308.6	1346.4	1424.5	1512.9	1550.0	1546.0	1488.4
55°	1246.2	1245.4	1269.9	1280.9	1294.4	1340.9	1432.4	1538.2	1589.4	1586.2	1534.2
57.5°	1202.1	1203.7	1233.6	1251.0	1268.4	1323.5	1428.4	1550.7	1616.2	1614.7	1563.4
60°	1146.1	1154.0	1187.8	1207.7	1233.6	1296.0	1411.9	1548.3	1626.5	1627.2	1579.2
61°	1122.4	1130.3	1165.0	1188.6	1216.3	1282.6	1402.5	1543.7	1625.7	1627.2	1580.7
62.5°	1084.6	1089.4	1130.3	1158.7	1188.6	1258.1	1383.5	1531.0	1620.1	1622.5	1578.4
65°	1013.6	1022.2	1064.0	1099.5	1135.1	1210.8	1342.5	1498.7	1597.3	1601.2	1560.2
67.5°	935.5	945.7	993.8	1034.9	1075.8	1156.3	1292.0	1452.2	1556.3	1561.0	1525.5
70°	858.2	870.8	921.3	962.3	1012.9	1095.7	1230.5	1392.2	1500.2	1504.9	1474.2
72.5°	779.3	793.6	845.5	892.8	944.1	1028.5	1161.9	1321.2	1430.1	1436.3	1408.0
75°	700.5	718.6	767.4	821.8	873.2	960.0	1090.9	1245.4	1344.1	1350.3	1328.3
77.5°	629.5	645.1	693.4	750.2	806.2	889.0	1013.6	1155.5	1258.1	1261.3	1241.5
80°	557.7	574.2	626.3	679.9	739.0	818.8	933.9	1064.8	1154.0	1162.6	1142.2
82.5°	493.8	510.4	559.2	617.7	674.3	750.9	852.7	971.8	1050.6	1060.2	1045.9
85°	440.1	452.0	500.1	556.1	611.3	683.9	781.6	885.0	956.0	957.5	943.4
87.5°	386.4	399.2	444.9	499.4	555.2	621.5	705.2	794.4	851.9	857.3	843.2
90°	342.3	350.1	393.6	447.2	501.6	562.3	635.1	713.8	760.3	760.3	749.3
92.5°	303.6	307.7	351.0	402.3	454.3	506.4	570.4	631.0	671.3	670.5	657.8
95°	268.2	272.9	309.2	358.9	409.4	457.5	509.5	557.7	587.6	589.2	574.2
97.5°	236.6	239.9	273.7	322.7	367.5	412.6	455.9	494.5	514.3	515.0	504.0
100°	211.4	211.4	243.7	287.2	330.5	370.7	407.7	436.9	445.7	444.9	435.4
102.5°	189.3	187.7	215.3	257.1	297.4	332.0	362.0	381.0	388.1	385.6	379.3
105°	168.0	169.6	190.8	230.3	266.6	297.4	320.2	336.0	336.0	334.5	328.1
107.5°	152.2	151.5	168.0	204.4	239.0	265.8	284.0	291.8	289.4	287.2	283.2



REPORT NUMBER: P240312

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	136.5	136.5	149.0	183.0	212.9	237.4	250.1	254.8	247.7	246.9	246.1
112.5°	123.0	123.0	133.3	161.7	190.1	210.7	220.8	221.7	213.7	212.9	213.7
115°	112.7	112.7	118.3	143.5	169.6	187.7	196.4	192.6	184.5	183.8	186.2
117.5°	102.6	102.6	107.3	125.4	149.9	166.4	172.0	166.4	159.3	159.3	162.5
120°	93.9	93.9	95.5	109.6	131.7	146.0	149.9	143.5	138.0	138.0	141.2
122.5°	86.0	85.2	86.0	95.5	113.6	127.0	128.6	123.0	119.1	119.8	124.7
125°	78.1	78.1	77.2	82.8	97.8	108.8	110.5	104.2	104.2	104.2	108.0
127.5°	71.0	71.0	69.4	71.8	82.8	92.4	92.4	87.5	89.1	90.6	93.9
130°	64.7	64.7	63.2	63.2	68.7	76.5	76.5	73.3	77.2	78.1	81.3
132.5°	58.4	57.6	56.0	53.6	56.0	60.7	60.7	60.0	66.2	67.0	69.4
135°	52.0	51.3	49.7	45.8	44.9	46.6	46.6	48.9	55.1	56.0	59.1
137.5°	44.9	44.9	42.6	38.7	33.9	33.9	33.9	38.7	44.9	46.6	48.1
140°	38.7	38.7	36.3	31.5	25.2	22.8	23.7	29.9	36.3	37.0	38.7
142.5°	31.5	31.5	29.2	24.5	18.1	13.4	15.0	21.3	26.8	28.4	29.9
145°	24.5	24.5	22.1	17.4	11.0	7.1	8.6	15.0	18.9	19.6	21.3
147.5°	18.1	18.1	15.8	11.8	6.3	2.4	4.7	8.6	12.7	13.4	15.0
150°	11.8	11.8	10.3	6.3	3.2	0.0	1.5	4.7	7.1	7.8	8.6
152.5°	6.3	6.3	4.7	3.2	0.8	0.0	0.0	1.5	3.2	3.2	4.0
155°	3.2	2.4	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	1.5
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	0.8	0.8	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: P240312

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
2.5°	405.5	402.3	395.9	391.2	385.6	381.0	377.1	373.8	373.1	370.7	371.5
5°	412.6	407.0	395.2	384.9	373.8	364.4	356.5	351.0	347.0	345.5	343.9
7.5°	425.9	416.5	399.2	382.5	366.8	352.6	340.1	332.0	325.8	322.7	322.7
10°	444.9	433.0	408.6	386.4	364.4	345.5	329.8	317.1	309.2	305.3	306.0
12.5°	470.9	455.2	425.1	395.2	368.3	343.9	322.7	309.2	299.7	295.0	295.0
15°	507.9	490.6	450.3	411.7	375.5	345.5	322.7	307.7	300.6	297.4	296.5
17.5°	553.0	530.0	484.3	437.8	392.0	355.0	332.0	317.8	307.7	303.6	302.8
20°	598.6	572.6	519.0	467.0	415.7	375.5	347.9	328.9	315.5	310.0	309.2
22.5°	650.7	620.8	557.7	496.1	441.0	402.3	363.7	339.1	323.4	316.3	315.5
25°	704.4	671.3	600.3	530.9	474.8	428.3	383.4	349.4	330.5	321.8	321.0
27.5°	761.2	725.7	644.4	565.5	507.2	452.8	401.5	358.9	336.8	327.3	326.5
30°	824.3	781.6	692.6	605.8	539.5	475.6	418.8	370.0	343.1	332.0	330.5
32.5°	889.7	842.4	741.5	648.4	569.5	496.1	433.0	381.8	349.4	336.8	336.0
35°	958.3	905.5	791.9	690.2	596.3	514.3	445.7	392.0	354.1	340.8	339.1
37.5°	1030.1	971.8	844.8	729.7	622.3	530.0	455.9	400.7	358.9	343.1	341.6
40°	1101.9	1034.9	896.8	769.8	646.0	543.4	464.6	407.0	362.0	345.5	343.9
42.5°	1171.4	1102.8	949.7	806.9	666.5	553.7	470.9	412.6	365.3	347.0	344.7
45°	1239.2	1167.4	1000.2	838.4	683.9	561.6	474.8	415.7	369.2	347.0	344.7
47.5°	1307.0	1228.1	1049.9	866.1	696.5	567.2	476.4	417.3	371.5	346.3	343.9
50°	1368.5	1282.6	1092.5	890.6	706.0	568.7	475.6	416.5	372.3	344.7	341.6
52.5°	1419.1	1330.7	1128.0	907.8	711.5	567.9	473.3	414.8	371.5	341.6	339.1
55°	1462.4	1367.7	1154.0	918.9	711.5	564.0	469.3	411.7	368.3	337.6	334.5
57.5°	1490.8	1395.4	1171.4	923.7	708.3	556.9	462.2	406.2	365.3	332.0	328.9
60°	1507.3	1408.8	1178.5	920.5	699.7	547.4	454.3	399.9	360.4	325.8	322.7
61°	1508.9	1410.3	1178.5	917.3	695.7	543.4	451.1	397.6	358.2	323.4	319.5
62.5°	1507.3	1408.8	1174.5	910.2	687.8	536.4	444.9	392.0	353.4	317.8	315.5
65°	1491.6	1393.7	1158.7	892.1	670.5	522.1	433.9	383.4	345.5	310.0	306.0
67.5°	1457.6	1363.8	1130.3	866.9	650.0	505.7	421.2	373.1	336.8	300.6	295.8
70°	1408.8	1319.7	1094.8	837.7	627.0	487.6	407.0	361.2	325.8	291.0	284.7
72.5°	1348.0	1266.0	1045.2	800.7	600.3	468.5	392.0	348.6	313.9	280.0	272.2
75°	1272.4	1197.4	989.9	759.6	570.4	446.5	376.3	334.5	300.6	268.2	259.5
77.5°	1188.6	1121.6	930.1	714.7	540.3	425.1	358.9	318.7	286.4	254.8	246.1
80°	1097.2	1038.8	862.2	667.3	508.7	403.0	341.6	303.6	272.2	241.4	231.1
82.5°	1003.3	951.2	794.4	619.2	474.8	380.2	322.7	287.2	256.3	227.2	216.2
85°	907.8	862.9	725.7	569.5	441.0	357.3	305.3	270.5	239.9	212.2	202.6
87.5°	813.2	774.5	655.4	522.1	410.2	335.2	287.2	254.0	224.0	197.2	187.7
90°	724.9	691.7	590.8	478.0	379.3	312.4	269.0	237.4	208.2	181.4	175.2
92.5°	641.3	612.8	528.5	431.5	348.6	290.3	250.9	220.0	190.8	166.4	162.5
95°	565.5	538.7	471.7	390.5	320.2	270.5	233.5	204.4	175.2	152.2	149.0
97.5°	491.4	474.8	418.8	351.0	292.6	249.2	216.2	188.5	160.2	138.9	137.2
100°	429.9	412.6	367.5	314.6	267.3	230.3	199.5	172.7	146.0	126.2	125.4
102.5°	373.8	362.0	324.2	284.0	243.0	209.8	183.0	157.8	131.7	114.4	114.4
105°	326.5	315.5	287.2	252.4	219.3	192.6	166.4	141.9	117.6	102.6	103.4
107.5°	281.6	274.5	250.9	223.2	197.2	174.3	150.7	127.0	103.4	91.4	92.4



REPORT NUMBER: P240312

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	245.3	238.1	220.0	199.5	177.4	157.8	135.7	112.7	89.9	82.8	82.8
112.5°	212.9	208.2	193.3	176.7	159.3	141.9	122.3	99.4	78.8	73.3	74.2
115°	186.2	182.3	169.6	157.0	142.8	127.9	108.8	86.8	68.7	66.2	66.2
117.5°	161.7	159.3	149.0	138.0	127.0	113.6	96.2	75.0	59.1	59.1	59.1
120°	141.2	138.9	130.9	121.5	112.0	100.2	82.8	63.9	52.0	52.0	52.9
122.5°	123.8	122.3	114.4	107.3	98.6	86.8	71.0	53.6	45.8	46.6	46.6
125°	108.0	106.5	100.9	93.1	85.2	74.2	60.0	44.1	39.5	41.0	41.0
127.5°	93.9	93.1	87.5	80.5	72.5	63.2	48.9	37.0	34.8	36.3	36.3
130°	82.1	81.3	75.7	68.7	61.5	51.3	39.5	30.8	29.9	31.5	31.5
132.5°	70.3	69.4	64.7	57.6	50.5	41.0	30.8	24.5	26.0	27.7	27.7
135°	59.1	58.4	55.1	47.3	41.0	32.3	23.7	20.5	22.1	23.7	23.7
137.5°	48.9	48.1	44.9	37.9	30.8	23.7	17.4	16.6	18.1	19.6	19.6
140°	39.5	38.7	35.5	29.2	22.1	16.6	11.8	13.4	15.0	16.6	16.6
142.5°	29.9	29.9	27.7	22.1	15.0	10.3	7.8	10.3	11.8	13.4	13.4
145°	22.1	22.1	18.9	15.0	8.6	5.6	4.7	7.1	9.5	10.3	10.3
147.5°	15.0	15.0	12.7	9.5	4.7	2.4	3.2	4.7	6.3	7.1	7.8
150°	8.6	8.6	7.1	4.7	2.4	0.8	0.8	3.2	4.0	4.7	4.7
152.5°	4.0	4.0	3.2	1.5	0.8	0.8	0.8	0.8	2.4	2.4	2.4
155°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.8	0.8	0.8
157.5°	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.8	0.8	0.8	0.8	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)