

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: P240420

Luminaire Tested: **UTLD-AF24-70-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
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-T3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6460.5 lumens
Efficiency: N/A
Efficacy: 87.3 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: B2 - U3 - 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

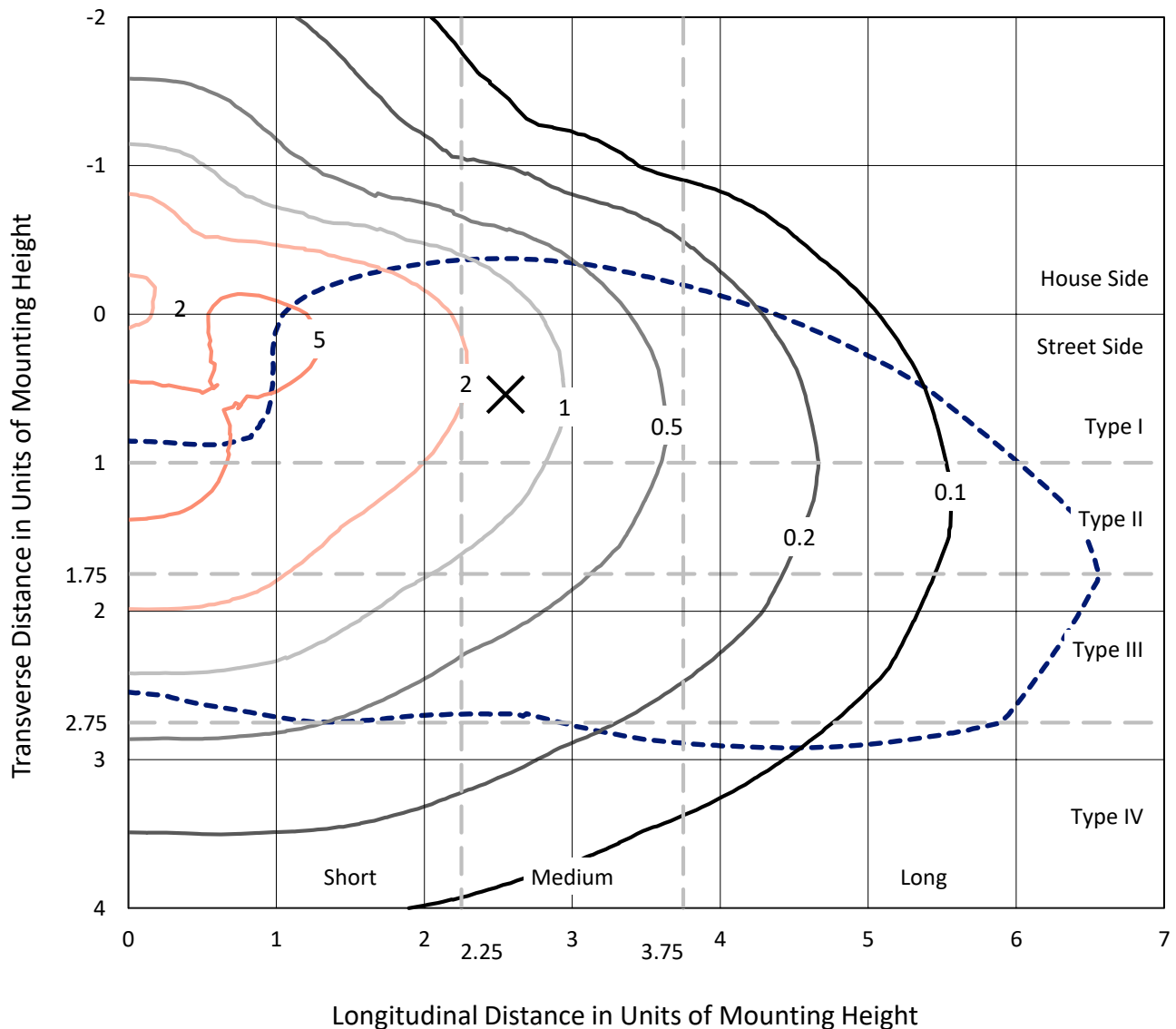


REPORT NUMBER: P240420

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

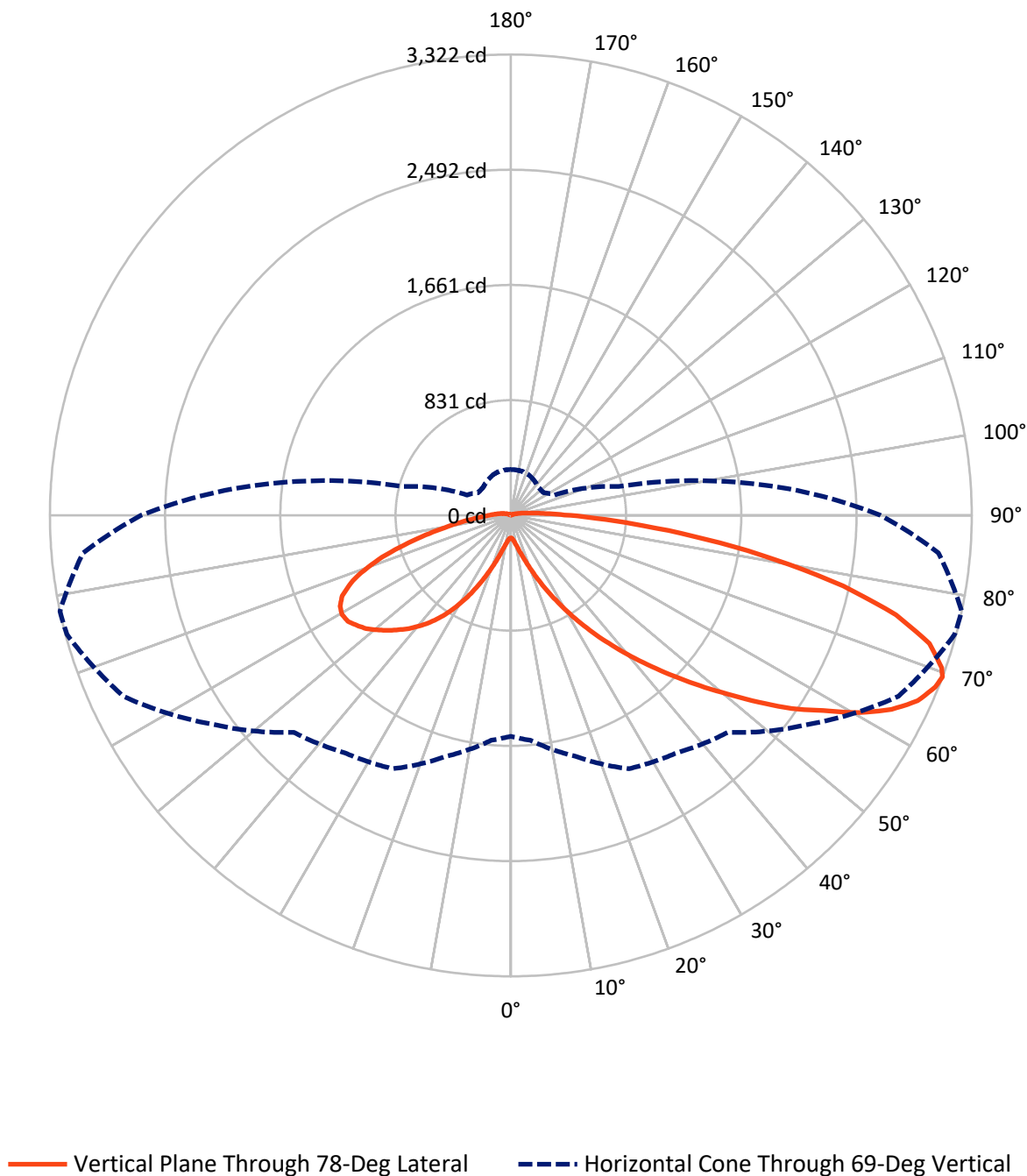


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240420

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240420

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

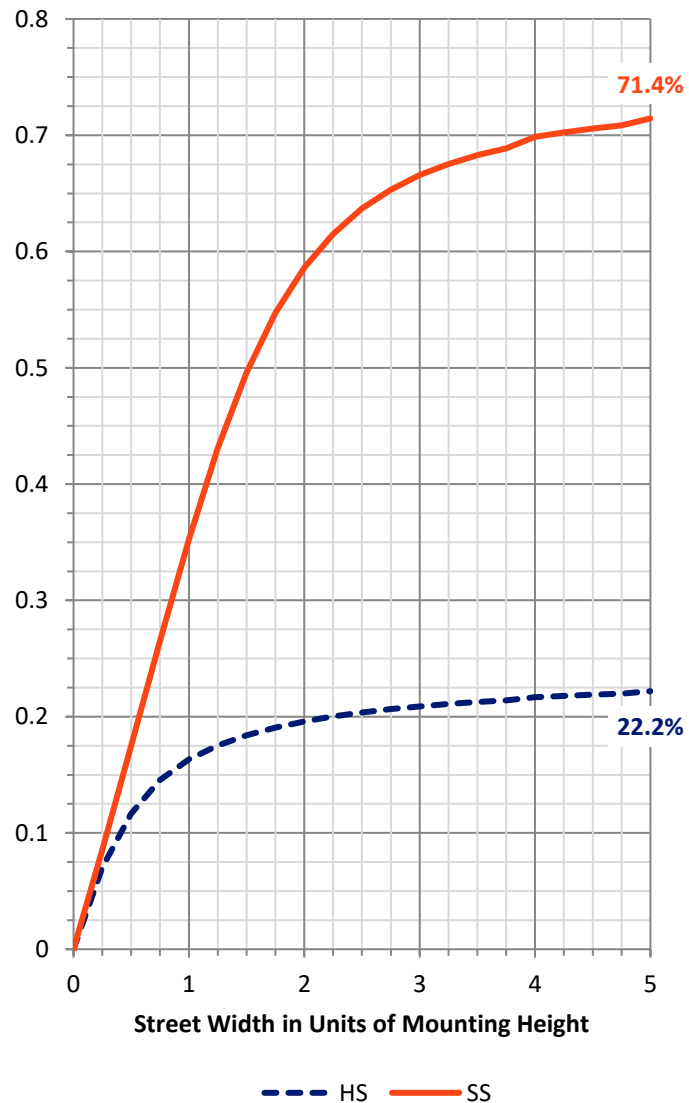
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1500.8	112.8	1613.5
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	4723.1	123.9	4847.0
	% Fixture	73.1	1.9	75.0
Total	Lumens	6223.8	236.7	6460.5
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	0.3
10°-20°	83.0	1.3
20°-30°	236.7	3.7
30°-40°	503.1	7.8
40°-50°	872.1	13.5
50°-60°	1305.7	20.2
60°-70°	1554.1	24.1
70°-80°	1185.5	18.3
80°-90°	465.7	7.2
90°-100°	136.7	2.1
100°-110°	55.3	0.9
110°-120°	24.9	0.4
120°-130°	12.1	0.2
130°-140°	5.7	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6223.8	96.3
0°-180°	6460.5	100.0

Coefficient of Utilization



REPORT NUMBER: P240420

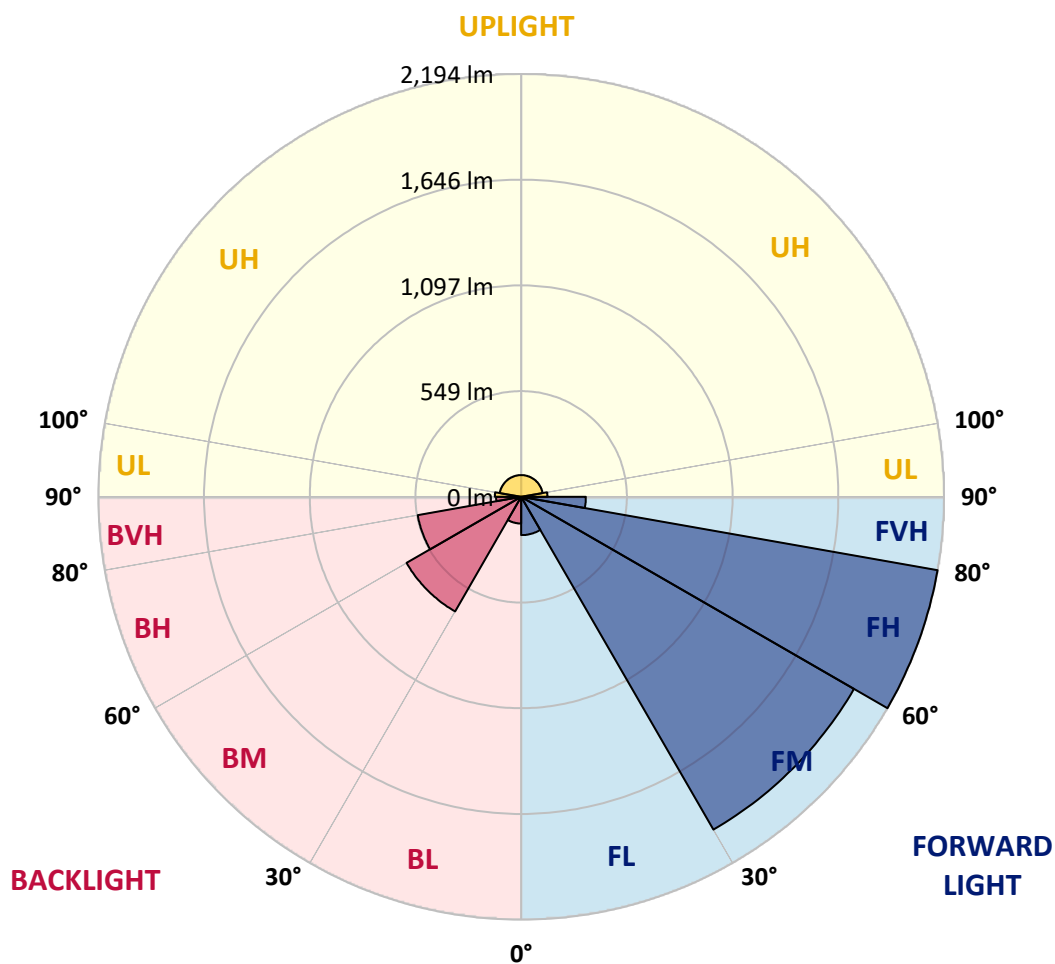
CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.8	3.1			
FM	(30°-60°)	1994.2	30.9			
FH	(60°-80°)	2194.5	34.0			G2/5000
FVH	(80°-90°)	335.6	5.2			G3/500
BL	(0°-30°)	138.8	2.1	B1/500		
BM	(30°-60°)	686.7	10.6	B1/1000		
BH	(60°-80°)	545.1	8.4	B2/1000		G2/1000
BVH	(80°-90°)	130.1	2.0			G2/225
UL	(90°-100°)	136.7	2.1		U3/500	
UH	(100°-180°)	112.8	1.7		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium



REPORT NUMBER: P240420

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4
2.5°	175.4	175.4	174.6	174.6	173.7	172.1	169.7	168.0	167.1	167.1	165.5
5°	194.9	194.9	193.3	193.3	190.8	188.4	185.2	181.1	178.6	177.8	175.4
7.5°	221.0	220.2	219.4	217.0	214.4	209.7	205.5	201.5	196.5	195.8	192.6
10°	254.5	252.8	252.8	249.5	244.7	239.0	231.6	225.9	221.0	220.2	217.0
12.5°	298.5	296.8	294.5	287.9	280.6	271.6	265.1	259.4	254.5	252.8	248.8
15°	350.7	349.9	343.4	335.2	322.2	310.8	303.4	298.5	296.8	295.2	291.1
17.5°	415.9	411.9	405.4	389.1	371.9	355.6	349.1	349.9	350.7	350.7	347.5
20°	488.6	487.0	477.1	455.2	431.5	411.1	405.4	410.3	416.9	416.9	415.9
22.5°	584.0	579.1	561.1	530.1	496.7	476.4	468.1	478.8	496.7	497.5	500.9
25°	688.5	686.8	658.2	612.5	570.2	545.6	540.0	553.0	585.6	588.1	597.0
27.5°	804.2	800.1	774.0	709.6	654.1	618.3	615.7	644.3	679.4	691.6	704.7
30°	944.5	940.4	890.7	816.5	748.8	701.5	702.2	738.9	792.7	803.4	822.1
32.5°	1089.7	1085.6	1034.2	941.3	851.5	792.7	794.5	849.1	911.0	924.2	944.5
35°	1256.9	1255.3	1187.5	1073.4	960.0	889.1	901.3	959.2	1035.9	1057.1	1075.0
37.5°	1438.0	1420.1	1353.9	1221.0	1079.1	1001.6	1010.5	1088.0	1178.6	1188.4	1206.3
40°	1619.9	1615.7	1536.6	1387.4	1216.0	1119.9	1132.2	1219.4	1317.2	1335.1	1345.0
42.5°	1811.5	1809.9	1716.9	1553.7	1358.0	1250.4	1261.7	1361.3	1470.6	1487.7	1492.6
45°	2015.4	2004.1	1911.8	1729.1	1522.0	1389.0	1409.5	1512.1	1641.1	1655.0	1657.4
47.5°	2190.7	2176.1	2106.7	1916.7	1681.8	1539.1	1554.5	1682.6	1818.1	1832.8	1827.1
50°	2349.0	2342.5	2272.4	2104.4	1857.2	1690.8	1712.8	1852.3	2004.8	2022.7	2017.0
52.5°	2452.6	2448.5	2420.0	2257.7	2011.4	1845.7	1876.7	2028.5	2208.6	2234.8	2204.7
55°	2504.0	2504.0	2509.6	2392.2	2152.4	1992.6	2040.8	2224.2	2420.7	2457.5	2415.0
57.5°	2499.9	2495.1	2542.4	2484.4	2260.9	2110.9	2204.7	2432.2	2638.5	2653.3	2631.2
60°	2406.9	2422.4	2505.7	2516.2	2338.3	2216.1	2361.2	2624.7	2846.5	2885.6	2818.8
62.5°	2258.5	2287.9	2409.3	2479.5	2359.6	2291.0	2495.8	2793.5	3039.8	3079.8	2984.4
65°	2053.7	2083.9	2233.2	2368.6	2317.2	2316.4	2588.1	2947.7	3193.9	3222.5	3094.4
67.5°	1796.9	1806.6	1978.6	2173.6	2197.3	2278.0	2632.0	3053.7	3305.7	3300.8	3133.7
69°	1592.1	1627.2	1796.9	2014.6	2088.1	2211.2	2623.9	3083.1	3312.3	3322.0	3094.4
70°	1488.5	1495.0	1662.3	1883.3	2011.4	2150.8	2596.1	3076.5	3301.7	3294.2	3049.7
72.5°	1155.8	1168.7	1322.1	1562.7	1739.7	1950.2	2460.0	2966.4	3173.7	3154.9	2818.8
75°	824.6	846.6	987.7	1213.7	1423.3	1688.4	2208.6	2730.0	2910.1	2867.0	2486.8
77.5°	562.8	585.6	690.8	898.0	1106.8	1395.6	1862.9	2371.8	2495.8	2451.0	2032.5
80°	361.3	376.8	460.0	624.0	822.9	1071.8	1483.6	1900.4	2010.5	1930.6	1553.7
82.5°	239.0	248.8	306.7	422.5	575.8	790.4	1100.2	1420.1	1469.0	1418.4	1088.9
85°	161.4	168.0	209.7	287.2	403.7	556.2	778.9	987.7	1027.7	957.5	725.9
87.5°	110.9	117.5	150.9	200.6	280.6	388.2	522.0	664.0	651.7	619.1	473.8
90°	79.1	84.7	108.5	142.7	198.2	270.0	348.3	420.1	418.5	386.6	302.6
92.5°	57.2	62.0	82.4	106.8	146.9	189.2	234.9	264.3	264.3	251.2	200.6
95°	43.2	46.6	62.9	81.6	110.2	140.3	163.9	179.4	176.1	166.4	145.2
97.5°	34.3	36.7	49.7	66.1	87.3	108.5	122.4	124.0	121.5	118.2	107.6
100°	28.5	30.1	41.6	55.5	72.5	88.1	94.6	92.3	88.9	88.1	82.4
102.5°	24.5	25.2	35.8	48.1	62.0	73.4	75.8	71.8	67.7	66.8	64.5
105°	22.1	22.1	31.0	41.6	53.0	61.1	62.9	57.9	52.2	50.6	49.7
107.5°	19.5	20.4	26.9	36.7	45.7	52.2	52.2	46.6	40.0	38.4	38.4



REPORT NUMBER: P240420

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	17.9	17.9	23.6	32.7	40.0	44.9	44.0	37.4	31.0	29.4	30.1
112.5°	16.3	16.3	21.2	28.5	35.1	38.4	36.7	30.1	24.5	23.6	23.6
115°	15.6	15.6	18.8	25.2	30.1	32.7	31.0	24.5	19.5	18.8	19.5
117.5°	13.8	14.6	17.2	22.1	26.1	28.5	26.1	20.4	16.3	15.6	17.2
120°	13.0	13.8	15.6	18.8	22.8	24.5	21.2	17.2	13.8	13.8	14.6
122.5°	12.2	13.0	13.8	17.2	19.5	20.4	17.9	13.8	11.5	12.2	13.0
125°	12.2	12.2	13.0	14.6	17.2	17.2	14.6	11.5	10.6	10.6	11.5
127.5°	11.5	11.5	11.5	13.0	14.6	14.6	12.2	9.9	9.0	9.9	10.6
130°	10.6	10.6	10.6	11.5	12.2	12.2	10.6	8.2	8.2	8.2	9.0
132.5°	9.9	9.9	9.9	9.9	10.6	9.9	8.2	6.5	7.3	7.3	8.2
135°	9.0	9.0	9.0	9.0	8.2	7.3	5.7	5.7	6.5	6.5	7.3
137.5°	8.2	8.2	8.2	7.3	6.5	5.7	4.9	4.9	5.7	5.7	6.5
140°	7.3	7.3	7.3	5.7	4.9	4.1	3.3	3.3	4.9	4.9	4.9
142.5°	6.5	6.5	5.7	4.9	4.1	2.4	1.6	2.4	3.3	3.3	4.1
145°	4.9	4.9	4.9	4.1	2.4	1.6	0.8	1.6	2.4	2.4	3.3
147.5°	4.1	4.1	4.1	3.3	1.6	0.8	0.8	0.8	1.6	1.6	2.4
150°	3.3	3.3	2.4	2.4	0.8	0.0	0.0	0.8	0.8	1.6	1.6
152.5°	2.4	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	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: P240420

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4	162.4
2.5°	164.8	163.9	163.2	161.4	160.7	159.1	157.5	155.8	155.8	155.8	154.9
5°	174.6	172.9	170.5	167.1	164.8	162.4	159.8	157.5	156.6	155.8	155.8
7.5°	190.0	188.4	183.5	179.4	174.6	171.3	167.1	165.5	163.9	163.2	163.2
10°	213.7	210.5	203.9	197.4	191.6	185.2	181.1	178.6	176.1	175.4	176.1
12.5°	245.5	239.9	231.6	221.8	212.1	203.9	199.0	196.5	195.8	194.9	194.9
15°	289.5	285.5	269.1	252.1	238.1	226.7	220.2	217.8	222.7	224.3	224.3
17.5°	346.7	339.2	319.7	296.1	267.5	250.4	245.5	249.5	253.7	258.5	259.4
20°	417.6	405.4	380.1	341.8	303.4	278.9	274.9	279.8	289.5	296.1	296.8
22.5°	495.1	487.0	447.8	390.7	339.2	310.8	301.8	309.1	324.6	333.6	334.5
25°	594.6	581.6	522.8	444.4	376.8	336.8	326.2	336.8	355.6	369.6	370.3
27.5°	703.1	682.7	606.1	498.3	408.6	358.9	345.8	359.7	385.0	401.3	402.9
30°	815.6	787.1	688.5	548.9	437.1	373.5	359.7	376.8	405.4	424.2	426.5
32.5°	933.9	899.6	764.3	592.9	455.9	381.8	367.0	387.5	417.6	437.1	439.7
35°	1054.6	1011.4	835.2	624.8	464.9	383.4	367.8	390.7	420.1	440.5	442.9
37.5°	1181.8	1118.3	897.2	646.9	466.5	378.5	364.6	387.5	415.1	433.9	435.5
40°	1305.0	1222.6	949.4	656.5	460.8	371.2	356.4	380.1	403.7	417.6	419.2
42.5°	1440.4	1335.1	995.1	656.5	449.4	362.0	347.5	369.6	388.2	398.0	398.8
45°	1578.2	1447.6	1031.0	648.5	434.8	350.7	338.4	358.1	372.8	376.8	376.8
47.5°	1737.3	1566.0	1064.4	634.6	418.5	339.2	329.5	347.5	358.1	358.1	358.9
50°	1897.2	1690.0	1089.7	615.0	399.7	329.5	322.2	339.2	347.5	342.5	342.5
52.5°	2070.0	1817.2	1113.4	589.7	382.5	320.5	317.3	335.2	340.9	333.6	331.9
55°	2244.6	1937.1	1118.3	557.9	363.0	313.2	314.8	331.9	337.7	329.5	328.7
57.5°	2431.3	2060.3	1117.4	521.1	345.8	307.4	312.4	331.2	336.8	328.7	327.9
60°	2575.8	2157.4	1091.3	482.8	330.3	301.8	311.6	330.3	336.8	330.3	330.3
62.5°	2706.3	2214.4	1042.4	442.1	315.6	297.7	309.1	328.7	335.2	331.9	331.9
65°	2765.8	2230.7	967.4	402.1	303.4	292.9	307.4	326.2	333.6	332.8	333.6
67.5°	2729.1	2154.9	867.8	366.2	291.9	287.2	303.4	322.2	330.3	331.9	332.8
69°	2665.5	2070.0	805.8	347.5	285.5	283.0	300.1	318.1	327.9	330.3	330.3
70°	2609.2	1997.5	754.4	336.1	280.6	280.6	298.5	315.6	325.5	327.9	328.7
72.5°	2336.7	1760.9	637.8	305.8	270.0	272.4	290.4	307.4	318.1	320.5	320.5
75°	2002.4	1444.5	519.5	280.6	257.8	263.5	280.6	296.8	306.7	309.1	308.3
77.5°	1594.5	1119.9	421.6	258.5	243.8	249.5	267.5	283.0	292.9	294.5	291.1
80°	1190.1	816.5	341.8	235.7	227.6	234.9	251.2	264.3	274.0	274.9	270.0
82.5°	824.6	589.7	278.2	213.7	209.7	215.3	230.0	241.5	250.4	247.9	245.5
85°	549.7	404.6	227.6	189.2	189.2	195.8	206.4	213.7	222.7	219.4	214.4
87.5°	362.0	278.9	186.9	165.5	167.1	172.9	181.1	183.5	191.6	189.2	183.5
90°	245.5	200.6	153.3	142.7	145.2	150.9	154.9	154.9	160.7	156.6	154.2
92.5°	174.6	153.3	128.1	123.1	125.6	130.4	131.3	128.1	133.0	130.4	127.3
95°	131.3	120.7	108.5	106.0	109.3	112.5	111.8	106.8	108.5	106.8	106.0
97.5°	101.9	98.7	92.3	90.5	93.8	96.2	94.6	88.9	89.7	88.1	86.5
100°	82.4	80.0	78.3	78.3	80.8	81.6	79.1	74.2	73.4	70.9	71.8
102.5°	65.2	65.2	66.1	67.7	69.4	69.4	66.1	62.0	60.3	57.9	57.9
105°	51.4	52.2	55.5	56.3	57.9	57.9	54.6	51.4	48.1	45.7	45.7
107.5°	40.0	41.6	44.9	47.3	48.9	48.1	45.7	42.4	38.4	35.8	35.8



REPORT NUMBER: P240420

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.8	33.5	36.7	40.0	40.8	40.8	38.4	34.3	29.4	28.5	28.5
112.5°	26.1	26.9	31.0	33.5	34.3	34.3	31.8	28.5	23.6	22.8	22.8
115°	21.2	22.1	25.2	27.8	28.5	28.5	26.9	23.6	18.8	18.8	18.8
117.5°	17.9	18.8	21.2	23.6	24.5	24.5	22.1	18.8	15.6	15.6	15.6
120°	15.6	16.3	17.9	19.5	20.4	20.4	18.8	15.6	13.0	13.0	13.0
122.5°	13.8	14.6	15.6	17.2	17.9	17.9	15.6	12.2	11.5	11.5	11.5
125°	12.2	13.0	13.8	14.6	15.6	14.6	13.0	10.6	9.9	10.6	10.6
127.5°	10.6	11.5	12.2	12.2	13.0	12.2	10.6	9.0	8.2	9.0	9.0
130°	9.9	9.9	10.6	10.6	11.5	10.6	9.0	7.3	7.3	8.2	8.2
132.5°	9.0	9.0	9.0	9.0	9.9	9.0	7.3	5.7	6.5	7.3	7.3
135°	7.3	7.3	8.2	7.3	8.2	6.5	5.7	4.9	5.7	6.5	6.5
137.5°	6.5	6.5	6.5	6.5	5.7	5.7	4.1	4.1	4.9	5.7	4.9
140°	5.7	5.7	5.7	4.9	4.9	4.1	3.3	3.3	4.1	4.1	4.1
142.5°	4.1	4.1	4.1	4.1	3.3	2.4	1.6	2.4	2.4	3.3	3.3
145°	3.3	3.3	3.3	2.4	1.6	1.6	0.8	1.6	1.6	2.4	2.4
147.5°	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.8	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.8	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)