

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: P266535

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-SL3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6100.9 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

Input Watts (W): 96
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



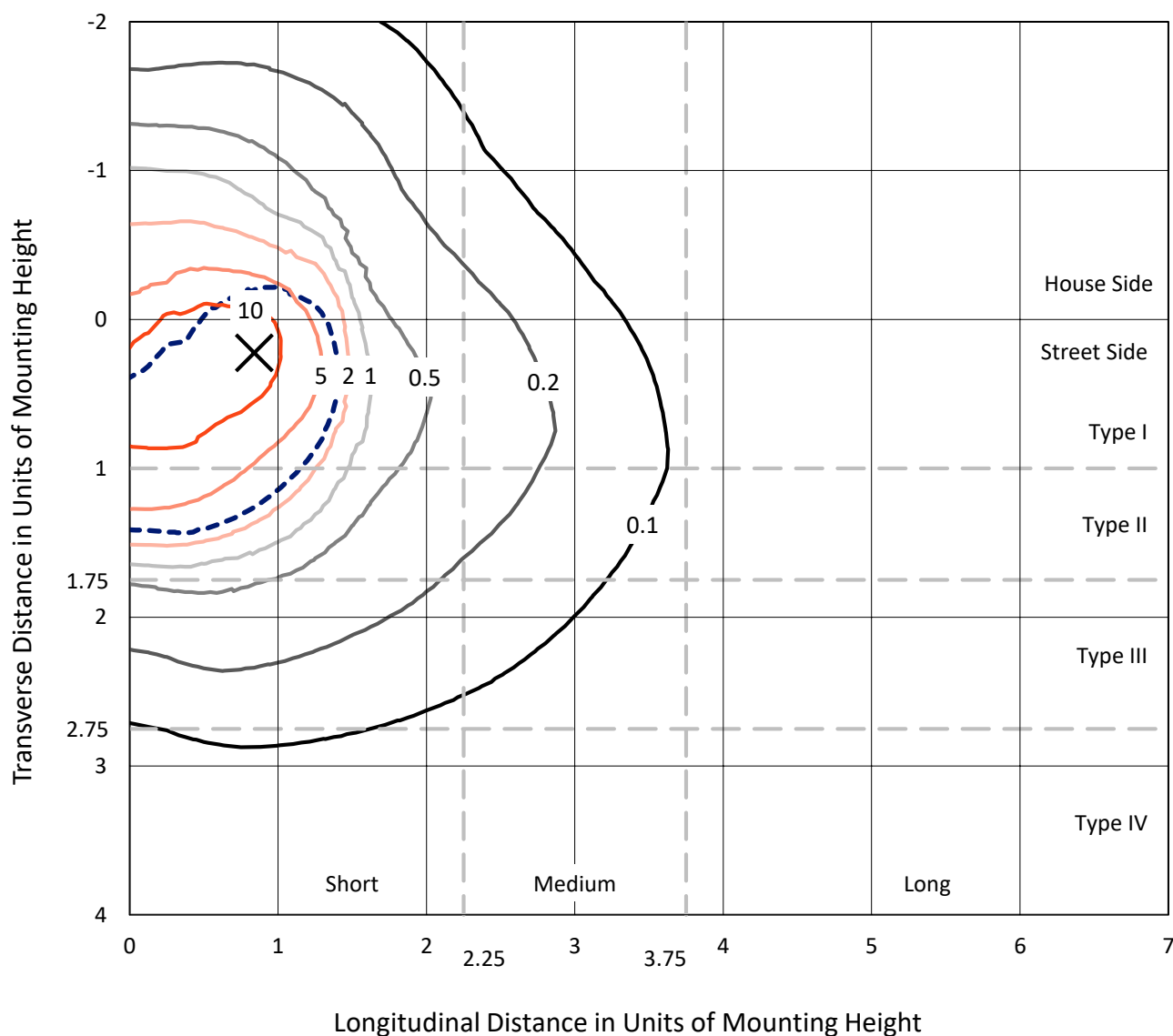
REPORT NUMBER: P266535

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

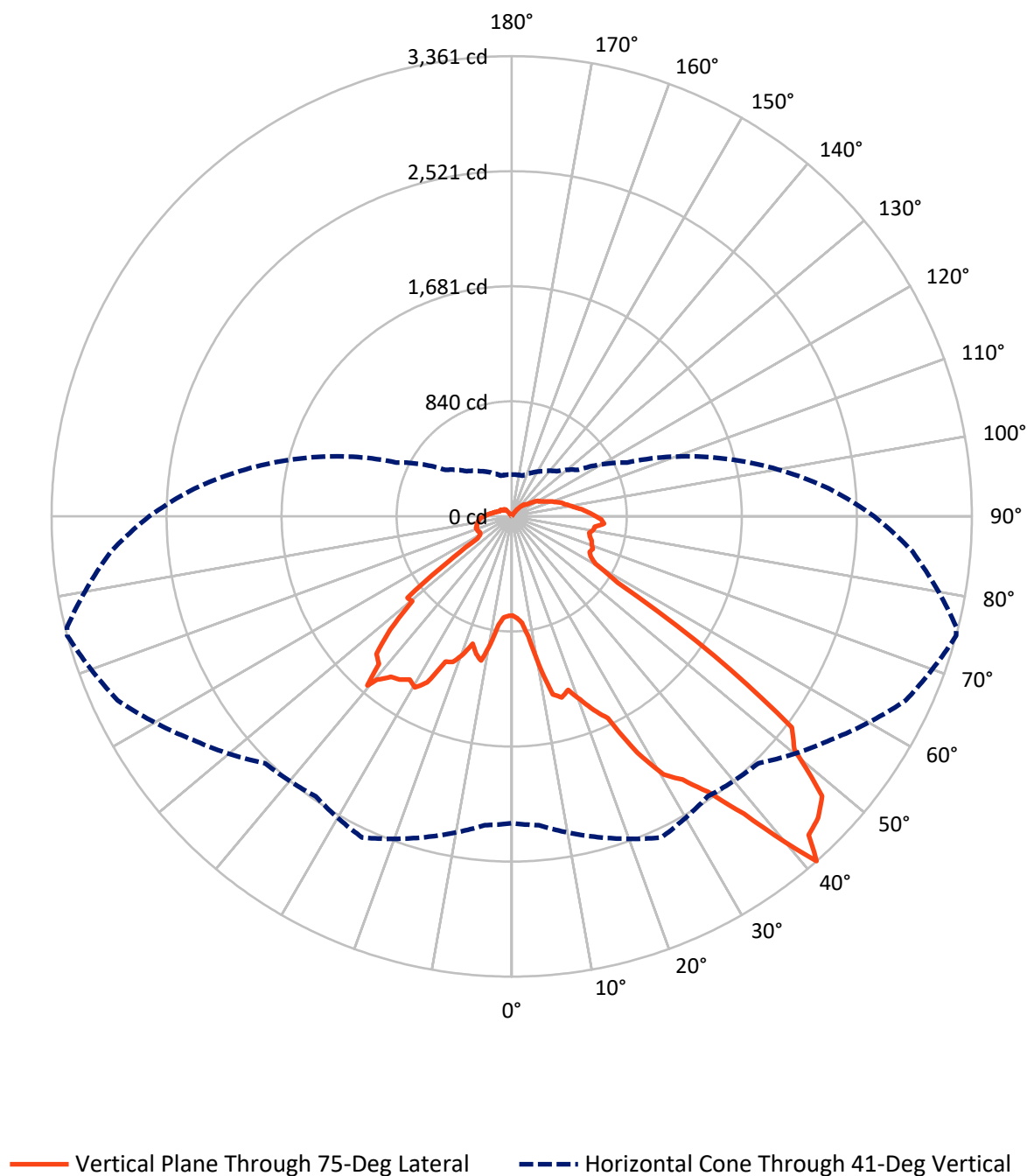


Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266535

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266535

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

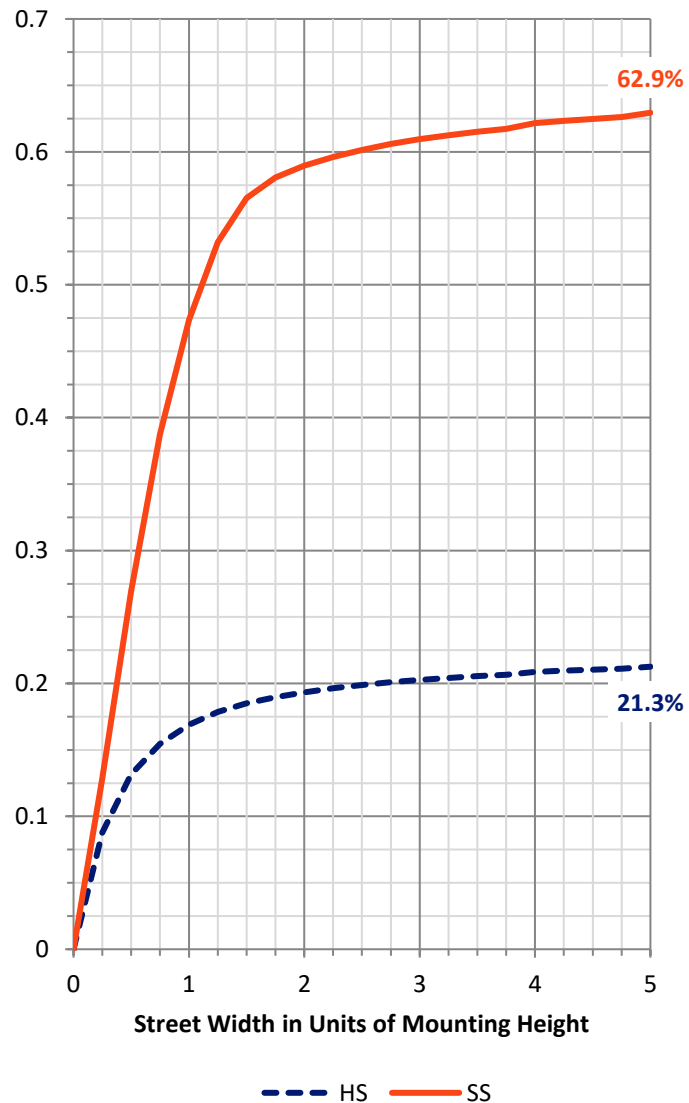
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.8	171.6	1517.4
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	3958.0	625.5	4583.5
	% Fixture	64.9	10.3	75.1
Total	Lumens	5303.8	797.1	6100.9
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.2
10°-20°	301.9	4.9
20°-30°	620.3	10.2
30°-40°	1009.8	16.6
40°-50°	1311.6	21.5
50°-60°	929.9	15.2
60°-70°	378.0	6.2
70°-80°	342.0	5.6
80°-90°	334.1	5.5
90°-100°	286.6	4.7
100°-110°	207.5	3.4
110°-120°	141.6	2.3
120°-130°	92.0	1.5
130°-140°	54.8	0.9
140°-150°	13.9	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5303.8	86.9
0°-180°	6100.9	100.0

Coefficient of Utilization



REPORT NUMBER: P266535

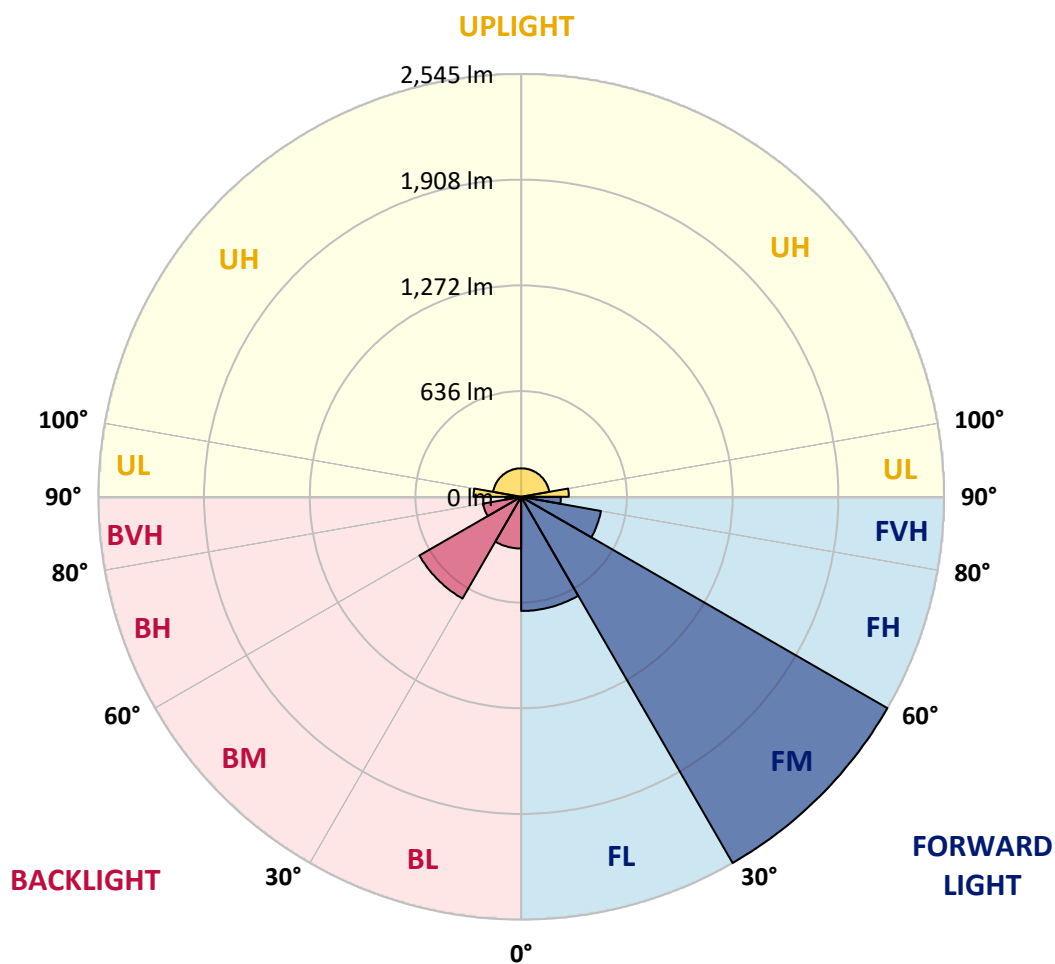
CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.0	11.3			
FM	(30°-60°)	2544.5	41.7			
FH	(60°-80°)	487.2	8.0			G0/660
FVH	(80°-90°)	239.3	3.9			G3/500
BL	(0°-30°)	311.3	5.1	B1/500		
BM	(30°-60°)	706.8	11.6	B1/1000		
BH	(60°-80°)	232.8	3.8	B1/500		G1/500
BVH	(80°-90°)	94.8	1.6			G1/100
UL	(90°-100°)	286.6	4.7		U3/500	
UH	(100°-180°)	171.6	2.8		U3/500	

BUG Rating: B1-U4-G3

Type II Short



REPORT NUMBER: P266535

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	774.1	775.9	772.4	769.8	768.1	762.8	758.4	752.4	743.6	742.8	739.3
5°	844.4	844.4	844.4	838.4	831.4	820.2	810.6	796.6	780.2	779.3	766.3
7.5°	958.3	958.3	953.1	944.4	928.8	911.4	909.7	907.8	885.3	882.8	859.3
10°	1080.8	1077.2	1079.9	1086.9	1094.7	1118.1	1132.9	1134.6	1110.3	1104.2	1070.4
12.5°	1128.6	1132.0	1162.4	1218.0	1311.9	1405.7	1454.4	1414.4	1333.7	1323.3	1243.3
15°	1201.6	1206.0	1256.3	1349.3	1505.6	1641.2	1599.4	1499.5	1371.8	1362.3	1238.9
17.5°	1397.0	1417.0	1465.7	1613.4	1772.4	1717.6	1576.9	1448.2	1332.7	1321.4	1218.0
20°	1534.3	1545.7	1639.4	1781.1	1893.1	1809.7	1713.2	1583.8	1428.3	1428.3	1347.5
22.5°	1648.1	1644.6	1721.2	1934.8	1999.9	1946.1	1834.1	1702.0	1536.9	1529.1	1424.0
25°	1827.2	1838.4	1970.4	2206.7	2146.8	2009.6	1861.8	1741.1	1632.5	1622.9	1517.7
27.5°	1931.4	1960.9	2113.0	2317.9	2279.8	2094.7	1965.2	1946.9	1954.8	1946.9	1832.4
30°	1957.3	1970.4	2158.1	2361.5	2335.4	2198.1	2198.1	2228.4	2188.5	2177.2	2023.4
32.5°	2022.5	2053.9	2233.6	2391.7	2328.3	2302.4	2316.2	2310.1	2292.7	2277.2	2098.3
35°	2128.5	2155.6	2324.1	2443.1	2327.5	2337.1	2462.2	2534.3	2471.7	2457.9	2191.1
37.5°	2407.5	2433.5	2585.5	2578.7	2389.2	2407.5	2634.2	2766.3	2755.0	2753.2	2489.2
40°	2351.9	2437.9	2622.1	2650.7	2481.3	2501.3	2772.3	3059.1	3191.0	3187.6	2860.2
41°	2240.6	2264.1	2424.9	2587.3	2496.1	2549.1	2844.5	3177.2	3361.4	3348.3	2938.3
42.5°	2280.5	2322.3	2417.9	2471.7	2478.8	2584.8	2900.9	3191.9	3182.4	3176.3	2841.0
45°	2621.2	2638.5	2678.6	2575.1	2400.5	2532.5	2869.6	3139.8	3138.9	3111.2	2960.1
47.5°	2457.0	2506.5	2676.8	2584.8	2392.6	2391.0	2612.5	2978.3	3051.3	3011.3	2635.1
50°	2324.1	2359.7	2458.8	2360.6	2276.2	2274.5	2483.1	2758.4	2675.1	2663.7	2146.8
52.5°	2061.7	2096.5	2166.8	2142.5	2094.7	2089.5	2248.5	2537.0	2563.0	2554.3	2166.8
55°	1567.4	1591.6	1856.6	1863.5	1828.1	1845.4	1973.9	2091.3	1799.2	1752.4	1218.0
57.5°	920.9	983.5	1240.6	1401.4	1475.2	1489.1	1444.8	1237.1	913.0	880.1	562.1
60°	454.5	486.5	665.6	835.9	1026.9	1033.9	893.2	790.6	701.1	681.2	491.7
62.5°	324.1	343.2	460.6	550.8	657.6	675.0	625.5	668.1	648.9	636.8	478.6
65°	293.7	310.2	408.3	456.1	500.4	527.3	539.5	610.8	625.5	617.8	475.3
67.5°	268.5	284.9	372.6	409.2	442.2	485.7	511.8	582.1	638.5	633.3	503.9
70°	237.2	256.2	336.2	380.5	421.3	470.9	506.6	580.3	621.2	614.3	488.3
72.5°	207.7	225.0	290.2	342.3	402.3	458.8	511.8	565.7	610.8	604.6	494.3
75°	180.6	198.0	254.6	308.4	377.1	462.2	515.2	561.3	589.8	581.3	485.7
77.5°	162.5	179.8	228.4	281.4	358.0	467.4	563.0	580.3	579.4	570.9	475.3
80°	147.7	165.1	211.1	262.3	340.5	478.6	602.0	619.4	603.8	592.5	477.9
82.5°	143.4	159.9	202.5	258.9	344.1	485.7	613.4	656.8	612.6	598.6	475.3
85°	159.0	169.4	213.7	277.1	366.7	497.8	609.1	677.7	676.9	662.1	518.7
87.5°	189.5	198.0	241.6	305.9	390.9	504.8	662.9	690.6	654.2	647.3	523.9
90°	234.5	240.7	285.8	344.9	416.2	501.3	546.4	582.1	606.4	601.2	496.9
92.5°	278.8	286.6	327.5	371.0	403.1	430.9	475.3	557.8	561.3	556.9	477.9
95°	331.0	336.2	359.7	381.4	388.3	397.9	442.2	478.6	518.7	513.6	460.6
97.5°	359.7	362.2	372.6	370.1	353.7	355.3	404.9	443.9	468.2	462.2	403.1
100°	352.8	355.3	357.0	341.4	318.9	325.7	366.7	413.6	432.7	430.1	373.5
102.5°	330.1	334.4	335.3	319.7	298.9	300.7	340.5	376.2	396.2	392.6	348.5
105°	324.1	325.7	318.0	297.1	272.8	276.3	314.4	352.8	376.2	374.5	329.3
107.5°	291.9	293.7	282.3	262.3	253.7	263.3	298.0	322.3	337.9	337.9	293.7



REPORT NUMBER: P266535

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	245.0	245.0	242.5	238.1	239.8	253.7	282.3	298.0	311.1	310.2	268.5
112.5°	237.2	235.4	232.8	229.3	224.1	235.4	254.6	273.7	276.3	275.4	239.8
115°	233.6	231.1	222.4	212.9	206.8	215.5	230.2	247.7	254.6	253.7	228.4
117.5°	206.8	206.8	199.9	192.9	190.4	201.6	219.8	231.1	231.9	233.6	209.3
120°	185.1	185.1	180.6	177.2	179.0	184.2	204.2	213.7	222.4	221.5	200.7
122.5°	168.5	169.4	165.9	159.0	165.1	170.3	181.5	191.1	200.7	199.9	185.1
125°	152.1	151.2	147.7	139.9	153.8	160.7	161.5	160.7	170.3	170.3	157.3
127.5°	134.7	133.8	130.3	126.0	144.2	153.8	152.1	138.1	144.2	143.4	137.4
130°	132.9	132.1	126.0	120.7	129.4	146.0	138.1	128.5	133.8	134.7	128.5
132.5°	132.1	131.2	125.1	116.4	113.8	131.2	117.3	119.0	125.1	125.1	120.0
135°	123.3	122.4	117.3	105.1	93.0	108.5	93.0	102.5	110.3	110.3	106.0
137.5°	108.5	107.7	102.5	92.0	74.6	77.3	70.3	86.0	94.7	95.6	92.0
140°	86.0	86.9	81.7	71.2	53.9	40.9	46.1	67.0	75.5	75.5	74.6
142.5°	64.3	64.3	59.1	48.7	31.4	14.7	26.1	40.9	51.3	52.1	53.9
145°	45.2	45.2	40.0	31.4	15.6	2.6	12.1	24.3	32.2	32.2	34.8
147.5°	29.6	29.6	25.2	17.3	4.3	0.9	3.5	12.1	19.1	19.1	20.8
150°	18.2	18.2	14.0	5.2	0.9	0.0	0.9	2.6	8.8	8.8	11.3
152.5°	6.1	5.2	2.6	1.7	0.9	0.0	0.0	0.9	0.9	0.9	2.6
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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: P266535

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	735.1	733.2	727.2	719.4	709.8	697.7	689.8	686.3	682.1	678.5	680.2
5°	759.3	753.3	739.3	714.2	690.6	673.3	659.4	647.3	641.2	636.0	636.0
7.5°	848.0	837.5	798.5	755.8	702.8	655.0	621.2	603.8	583.9	578.6	577.8
10°	1040.9	1027.8	945.2	842.7	742.8	648.9	563.9	517.9	496.0	484.7	487.4
12.5°	1200.7	1171.1	1077.2	960.8	822.8	671.7	553.4	470.9	434.4	420.4	415.2
15°	1187.6	1138.2	1036.5	926.2	818.4	708.0	589.8	496.9	421.3	396.2	390.9
17.5°	1159.1	1106.8	972.1	830.6	704.6	636.8	570.9	503.1	445.6	407.6	400.6
20°	1305.0	1245.9	1070.4	929.7	752.4	581.3	505.7	467.4	430.9	411.9	407.6
22.5°	1367.5	1307.6	1146.0	967.8	792.3	644.7	521.2	450.9	422.3	418.8	413.6
25°	1461.4	1385.7	1165.9	941.9	772.4	651.6	522.2	452.7	410.0	410.0	407.6
27.5°	1764.5	1654.1	1361.4	1046.0	801.8	626.4	509.1	432.7	381.4	361.4	357.0
30°	1900.1	1795.0	1436.1	1072.9	814.9	632.4	484.7	397.1	363.2	348.5	346.7
32.5°	1998.3	1861.0	1404.9	1007.8	748.8	590.7	464.0	384.0	350.1	337.1	333.6
35°	2046.9	1866.1	1446.6	984.4	708.9	542.1	439.6	369.3	348.5	337.9	337.9
37.5°	2284.1	2060.0	1467.4	978.3	678.5	495.2	417.9	370.1	325.7	311.1	311.9
40°	2611.6	2292.7	1545.7	933.1	619.4	478.6	404.0	353.7	312.8	303.2	299.8
41°	2648.2	2326.7	1623.7	932.3	591.7	466.6	403.1	351.9	307.6	305.9	305.0
42.5°	2550.7	2218.1	1448.2	847.1	555.2	446.5	401.5	350.1	302.3	306.7	305.9
45°	2661.9	2331.9	1409.3	775.9	491.7	413.6	380.5	340.5	298.9	291.1	291.9
47.5°	2312.7	1976.5	1212.8	675.0	435.3	377.9	351.9	318.9	290.2	285.8	285.8
50°	1841.9	1549.9	953.9	593.4	383.1	348.5	324.1	302.3	272.8	261.4	265.0
52.5°	1876.6	1570.0	966.9	552.5	348.5	318.0	302.3	275.4	240.7	219.8	223.3
55°	1032.2	894.9	565.7	424.0	323.2	295.5	277.1	249.4	211.1	187.7	190.4
57.5°	468.2	389.2	300.7	291.9	279.7	271.9	252.0	226.7	190.4	164.2	164.2
60°	418.8	343.2	268.5	244.1	250.2	251.0	230.2	205.9	170.3	139.9	140.8
62.5°	409.2	334.4	260.7	232.8	238.1	238.1	218.1	193.8	161.5	130.3	130.3
65°	407.6	331.0	261.4	229.3	232.8	233.6	213.7	193.8	172.0	149.5	151.2
67.5°	431.7	350.1	270.2	226.7	230.2	230.2	213.7	199.0	185.9	172.0	173.7
70°	418.8	344.1	268.5	226.7	225.0	225.0	212.9	199.9	192.9	180.6	181.5
72.5°	424.0	354.6	273.7	225.0	218.1	216.3	208.4	200.7	194.7	188.6	189.5
75°	416.2	351.0	265.0	216.3	207.7	204.2	199.0	197.2	198.0	195.6	193.8
77.5°	404.0	344.9	258.9	207.7	198.0	190.4	186.8	187.7	191.1	188.6	185.9
80°	402.3	345.8	256.2	202.5	185.9	173.0	168.5	170.3	171.1	165.9	160.7
82.5°	397.1	338.8	244.1	188.6	167.7	151.2	147.7	150.2	151.2	146.0	140.8
85°	427.5	357.0	240.7	175.4	152.1	134.7	128.5	129.4	123.3	115.5	110.3
87.5°	439.6	360.6	226.7	155.5	136.5	121.6	113.8	108.5	99.1	86.0	82.6
90°	417.9	342.3	204.2	133.8	120.0	108.5	99.1	92.0	79.9	67.0	62.5
92.5°	404.9	328.4	187.7	120.0	105.1	95.6	86.9	76.4	64.3	49.5	46.9
95°	397.1	323.2	177.2	106.9	93.9	84.4	75.5	66.0	53.9	42.6	40.9
97.5°	345.8	279.7	156.3	95.6	82.6	73.8	66.0	56.5	45.2	36.6	34.8
100°	321.5	260.7	145.0	86.0	73.0	65.1	58.2	50.3	40.9	34.8	33.9
102.5°	300.7	242.5	132.1	77.3	65.1	57.3	51.3	44.2	37.4	32.2	33.0
105°	284.9	231.1	126.8	71.2	58.2	52.1	45.2	40.0	33.0	29.6	29.6
107.5°	252.9	205.1	112.1	64.3	53.0	46.9	41.7	36.6	31.4	28.7	29.6



REPORT NUMBER: P266535

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	233.6	190.4	106.9	61.7	50.3	43.5	38.2	33.0	27.8	27.8	27.8
112.5°	207.7	171.1	99.1	58.2	46.9	40.9	35.7	29.6	24.3	25.2	26.1
115°	199.0	165.1	95.6	55.7	45.2	39.0	33.0	27.8	21.6	23.4	24.3
117.5°	183.3	152.9	93.0	55.7	43.5	36.6	31.4	26.1	20.8	22.5	22.5
120°	178.1	150.2	93.0	54.7	41.7	34.8	29.6	22.5	19.1	20.8	20.8
122.5°	165.9	140.8	88.7	53.9	40.0	33.0	28.7	19.1	16.4	18.2	18.2
125°	142.6	122.4	79.9	50.3	38.2	33.0	27.8	15.6	15.6	17.3	17.3
127.5°	124.2	107.7	73.0	49.5	39.0	34.8	26.1	13.0	14.0	15.6	15.6
130°	118.1	105.1	75.5	53.9	42.6	36.6	19.1	12.1	13.0	14.7	15.6
132.5°	112.1	101.7	77.3	58.2	45.2	35.7	15.6	11.3	12.1	14.0	14.0
135°	99.9	92.0	72.1	55.7	42.6	28.7	11.3	9.5	11.3	13.0	13.0
137.5°	87.8	81.7	66.0	51.3	39.0	22.5	7.8	8.8	9.5	10.4	10.4
140°	72.1	67.0	54.7	41.7	28.7	12.1	5.2	6.9	7.8	8.8	8.8
142.5°	52.1	48.7	39.0	27.8	16.4	4.3	3.5	5.2	6.1	6.9	6.9
145°	34.8	32.2	25.2	17.3	6.1	2.6	1.7	3.5	5.2	5.2	6.1
147.5°	20.8	20.0	14.7	7.8	2.6	1.7	1.7	2.6	3.5	4.3	4.3
150°	10.4	10.4	6.9	2.6	1.7	0.9	0.9	0.9	1.7	2.6	2.6
152.5°	2.6	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.9	0.9	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)