

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: P266558

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
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-T4W-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7062.7 lumens
Efficiency: N/A
Efficacy: 73.6 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 - U2 - G2

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

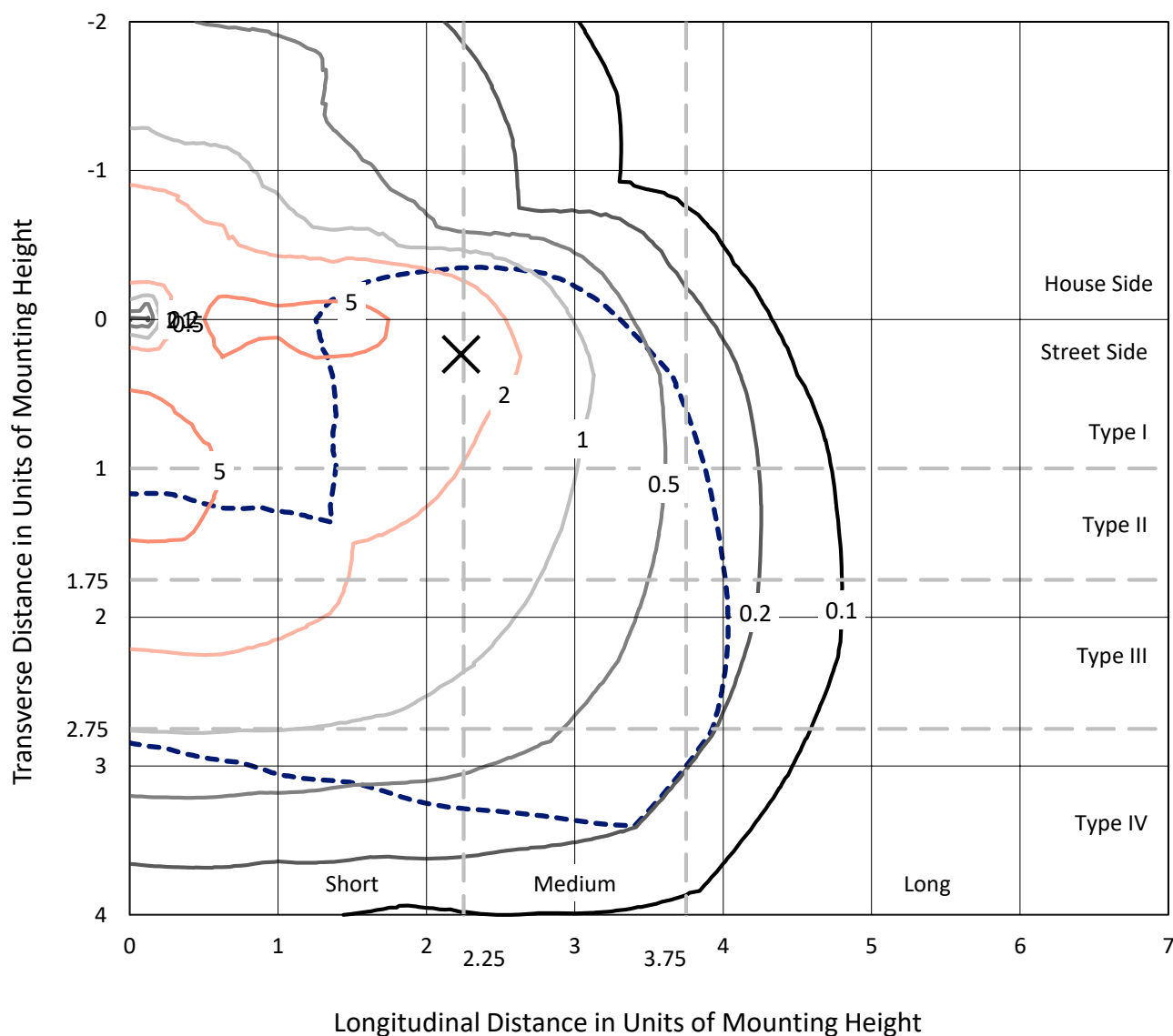


REPORT NUMBER: P266558

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

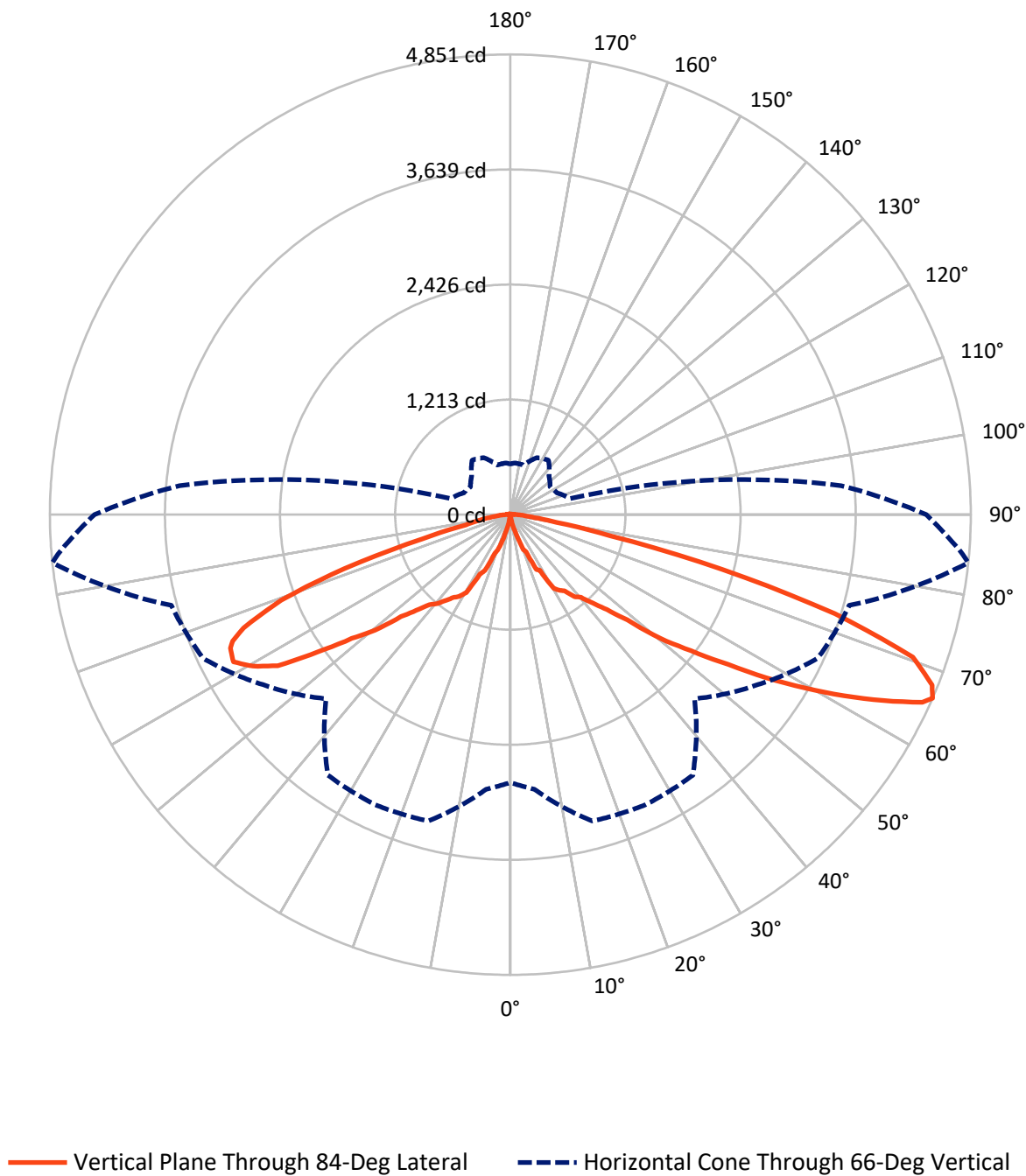


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P266558

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266558

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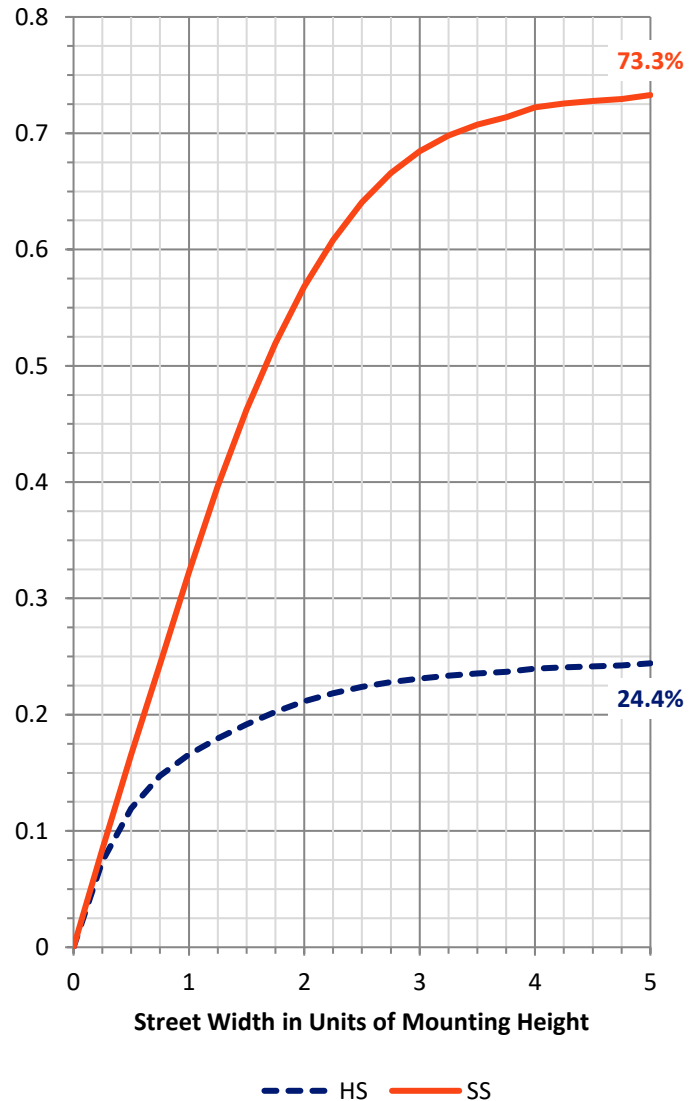
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1767.4	43.0	1810.3
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	5212.0	40.4	5252.4
	% Fixture	73.8	0.6	74.4
Total	Lumens	6979.3	83.4	7062.7
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	65.6	0.9
20°-30°	242.3	3.4
30°-40°	498.2	7.1
40°-50°	826.4	11.7
50°-60°	1441.1	20.4
60°-70°	2122.9	30.1
70°-80°	1549.2	21.9
80°-90°	228.5	3.2
90°-100°	42.6	0.6
100°-110°	19.5	0.3
110°-120°	9.2	0.1
120°-130°	6.4	0.1
130°-140°	3.8	0.1
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6979.3	98.8
0°-180°	7062.7	100.0

Coefficient of Utilization



REPORT NUMBER: P266558

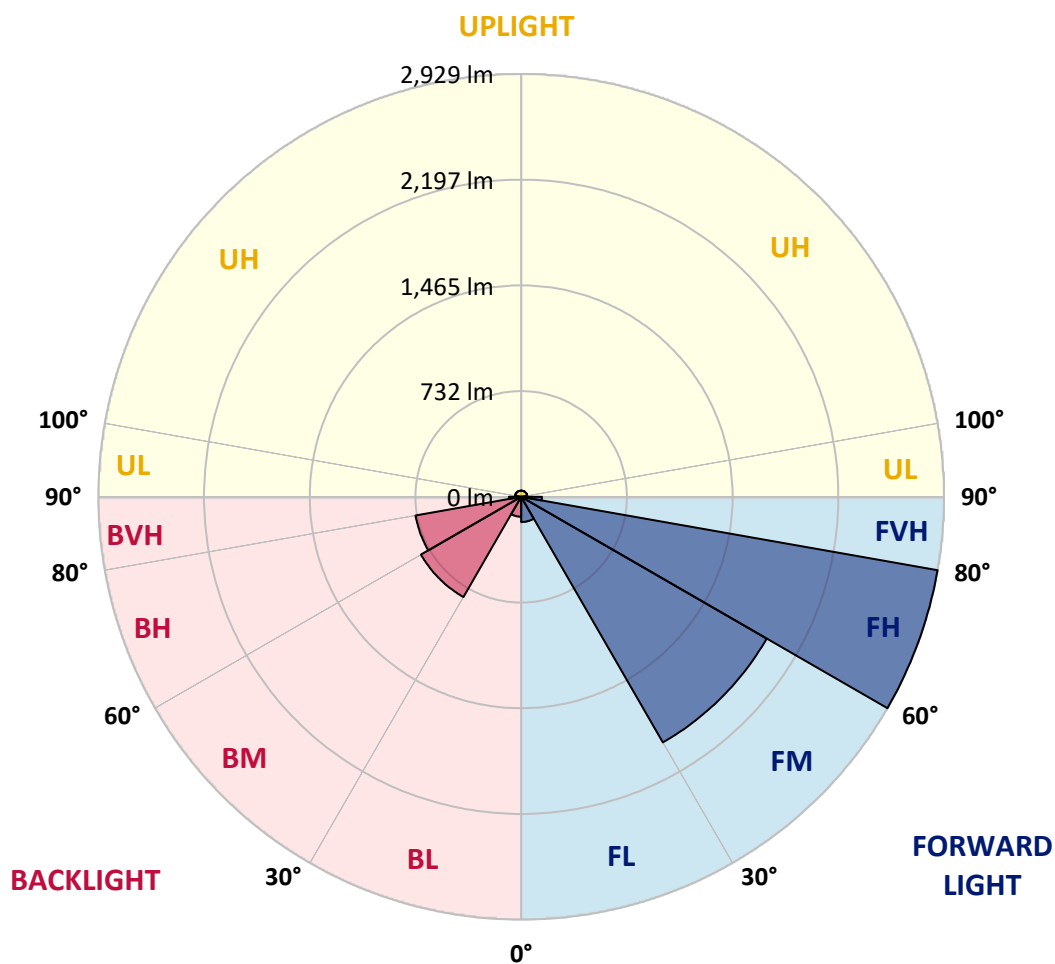
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.8	2.5			
FM	(30°-60°)	1964.3	27.8			
FH	(60°-80°)	2929.2	41.5			G2/5000
FVH	(80°-90°)	143.7	2.0			G2/225
BL	(0°-30°)	138.2	2.0	B1/500		
BM	(30°-60°)	801.4	11.3	B1/1000		
BH	(60°-80°)	742.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	84.8	1.2			G1/100
UL	(90°-100°)	42.6	0.6		U2/50	
UH	(100°-180°)	43.0	0.6		U2/50	

BUG Rating: B2-U2-G2

Type IV Short



REPORT NUMBER: P266558

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	41.7	37.4	37.4	35.7	32.2	28.7	22.5	19.1	16.4	16.4	15.6
5°	79.9	84.4	97.2	89.6	73.8	96.5	43.5	28.7	18.2	15.6	15.6
7.5°	126.8	133.8	102.5	91.2	91.2	97.2	79.1	47.8	24.3	18.2	17.3
10°	265.9	251.0	174.6	177.2	150.2	105.1	72.1	63.4	37.4	29.6	26.9
12.5°	258.1	254.6	259.8	226.7	228.4	165.9	92.0	147.7	133.8	127.6	140.8
15°	332.7	329.3	264.1	269.3	244.1	253.7	213.7	212.9	205.9	173.0	165.9
17.5°	462.2	458.8	517.0	344.1	245.0	317.1	275.4	237.2	245.9	259.8	270.2
20°	461.3	456.1	480.5	412.7	417.9	327.5	293.7	431.8	394.4	396.2	373.5
22.5°	681.2	649.8	570.9	430.9	470.9	383.1	435.3	426.5	397.9	421.3	414.4
25°	661.2	673.3	646.4	637.6	479.5	549.1	478.7	492.6	608.2	639.5	640.3
27.5°	767.2	743.6	722.9	655.1	644.7	534.3	492.6	655.9	636.9	665.6	664.7
30°	914.8	907.1	901.9	728.0	697.7	589.1	663.8	669.9	773.3	903.5	930.6
32.5°	1057.3	1019.9	935.8	842.8	700.3	695.9	659.4	832.3	887.0	948.8	958.3
35°	1283.3	1282.4	1139.9	901.0	783.7	739.3	854.1	896.6	895.8	988.8	1045.2
37.5°	1476.2	1485.6	1336.3	1087.8	810.6	747.2	891.4	966.9	970.4	1096.4	1074.7
40°	1769.8	1744.6	1610.8	1298.9	926.2	796.6	977.4	988.8	1060.0	1144.3	1175.5
42.5°	1978.2	1968.7	1925.2	1545.7	1060.0	888.0	1079.0	1030.4	1122.5	1275.5	1308.4
45°	2108.6	2061.7	2104.3	1726.4	1274.5	1083.4	1101.6	1166.8	1265.1	1426.6	1519.6
47.5°	2239.8	2275.4	2175.5	1862.7	1467.4	1173.7	1212.1	1418.0	1512.7	1657.7	1716.8
50°	2467.5	2429.2	2394.4	2067.8	1764.6	1318.1	1516.1	1488.3	1754.1	2050.4	2060.8
52.5°	2606.4	2606.4	2550.0	2246.8	1969.7	1530.8	1617.8	1716.8	2113.0	2381.4	2478.8
55°	2803.7	2844.6	2834.2	2457.9	2211.2	1820.1	1883.6	2092.2	2441.4	2786.4	3027.0
57.5°	2943.6	3000.0	3122.6	2683.7	2445.7	1938.4	2272.0	2503.9	2882.8	3302.3	3593.4
60°	3151.3	3152.2	3278.1	2883.6	2741.9	2163.4	2422.3	2886.3	3125.2	3798.5	3952.3
62.5°	3172.1	3207.7	3471.8	3194.6	3037.3	2397.9	2914.0	3083.4	3398.0	4297.2	4431.9
65°	2920.1	3015.7	3457.8	3340.5	3307.6	2614.2	3058.2	3473.6	3619.5	4769.8	4731.6
66°	2823.6	2904.5	3343.2	3372.7	3351.9	2743.8	3142.5	3575.3	3696.9	4851.4	4784.6
67.5°	2789.7	2848.9	3206.0	3407.5	3502.2	2978.3	3348.4	3624.8	3838.5	4792.4	4765.5
70°	2554.3	2628.3	2963.6	3636.9	3822.7	3408.3	3613.4	3744.7	3938.3	4499.6	4383.2
72.5°	1947.9	2023.5	2271.1	3000.9	3849.7	4044.3	4024.3	3895.8	3613.4	3575.3	3388.3
75°	966.1	1047.0	1221.5	1748.9	2995.7	3973.2	4001.0	3512.6	2920.1	2305.9	2162.5
77.5°	499.5	563.0	471.8	669.9	1540.5	2818.4	2831.5	2316.3	1692.4	1077.3	1006.1
80°	340.5	354.6	321.5	330.1	634.3	1440.5	1343.1	1232.8	681.2	494.3	516.0
82.5°	250.2	231.1	221.5	240.7	342.3	450.1	483.1	533.5	364.1	251.0	265.0
85°	118.1	130.3	127.6	146.9	208.5	153.8	236.3	320.5	242.5	161.5	159.0
87.5°	73.8	73.0	78.2	90.4	126.0	101.7	129.4	159.0	146.0	100.8	99.1
90°	48.7	43.5	40.9	48.7	70.3	50.3	69.4	90.4	82.6	54.7	51.3
92.5°	33.0	33.0	35.7	40.9	60.8	53.9	49.5	51.3	51.3	42.6	40.9
95°	24.3	26.1	29.6	30.5	36.6	31.4	40.0	44.2	45.2	34.8	33.9
97.5°	20.8	22.5	24.3	25.2	30.5	25.2	33.0	39.0	38.2	27.8	28.7
100°	19.1	20.8	20.8	21.6	24.3	19.1	26.9	36.6	34.8	24.3	23.4
102.5°	18.2	18.2	17.3	17.3	19.1	14.7	22.5	32.2	26.1	20.0	18.2
105°	17.3	17.3	14.7	14.0	14.7	12.1	18.2	24.3	18.2	16.4	16.4
107.5°	16.4	15.6	13.0	11.3	12.1	9.5	14.7	15.6	13.0	14.7	15.6



REPORT NUMBER: P266558

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	14.7	14.7	11.3	9.5	9.5	7.8	10.4	11.3	11.3	14.7	15.6
112.5°	14.0	13.0	9.5	7.8	7.8	6.9	7.8	8.8	9.5	14.0	14.7
115°	13.0	12.1	8.8	6.9	6.1	5.2	6.1	6.9	8.8	14.0	14.0
117.5°	12.1	11.3	7.8	6.1	5.2	4.3	5.2	6.1	8.8	14.0	14.0
120°	12.1	11.3	7.8	5.2	4.3	4.3	4.3	5.2	9.5	14.0	14.7
122.5°	11.3	11.3	7.8	5.2	4.3	3.5	3.5	5.2	8.8	13.0	13.0
125°	11.3	11.3	6.9	4.3	3.5	3.5	3.5	4.3	8.8	12.1	13.0
127.5°	10.4	10.4	6.9	4.3	3.5	2.6	2.6	4.3	7.8	12.1	12.1
130°	10.4	10.4	6.9	3.5	2.6	2.6	2.6	3.5	7.8	11.3	11.3
132.5°	8.8	8.8	6.1	3.5	2.6	1.7	2.6	3.5	6.9	9.5	10.4
135°	8.8	8.8	6.1	3.5	2.6	1.7	1.7	3.5	6.1	8.8	8.8
137.5°	7.8	7.8	5.2	3.5	2.6	1.7	1.7	2.6	5.2	7.8	7.8
140°	6.9	6.9	6.1	3.5	2.6	1.7	1.7	1.7	4.3	6.1	6.1
142.5°	6.9	6.9	5.2	3.5	1.7	0.9	0.9	1.7	3.5	4.3	4.3
145°	6.1	6.1	5.2	3.5	1.7	0.9	0.9	1.7	2.6	3.5	3.5
147.5°	6.1	6.1	5.2	2.6	0.9	0.9	0.9	1.7	2.6	3.5	3.5
150°	5.2	5.2	3.5	1.7	0.0	0.0	0.9	0.9	1.7	2.6	2.6
152.5°	3.5	3.5	2.6	0.9	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	1.7	1.7	0.9	0.0	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: P266558

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	15.6	15.6	15.6	15.6	15.6	15.6	14.7	14.7	14.7	14.7	14.7
5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	15.6	16.4	16.4	16.4
7.5°	16.4	16.4	15.6	14.7	15.6	17.3	26.1	59.9	87.8	107.7	106.9
10°	26.9	26.9	25.2	21.6	26.9	59.1	116.4	117.3	97.2	89.6	93.0
12.5°	142.6	126.8	107.7	88.7	86.9	105.1	99.1	138.1	154.7	165.9	164.2
15°	163.3	173.0	158.1	177.2	181.5	107.7	168.5	226.0	243.4	250.2	258.1
17.5°	269.3	298.0	212.9	201.6	202.5	215.5	227.6	238.9	244.1	241.6	242.5
20°	405.8	386.6	415.2	354.6	271.1	288.4	264.1	260.7	344.1	417.9	408.3
22.5°	414.4	447.4	409.2	374.5	414.4	293.7	364.1	386.6	397.9	407.6	419.7
25°	670.8	655.1	573.4	430.1	409.2	391.8	395.3	404.0	425.7	458.8	478.7
27.5°	712.4	708.9	634.3	579.4	436.1	490.0	405.8	488.3	527.3	562.1	569.0
30°	958.3	967.8	729.9	556.9	505.7	419.7	470.9	503.1	533.5	582.1	583.0
32.5°	1018.3	1038.3	807.1	616.0	530.0	434.4	473.4	497.8	613.5	658.5	660.3
35°	1033.9	1085.2	832.3	594.3	511.8	432.7	437.0	520.4	577.8	669.9	702.8
37.5°	1198.1	1160.7	884.4	602.1	478.7	416.2	471.8	499.5	589.9	649.0	660.3
40°	1267.6	1246.8	918.3	617.8	472.7	463.0	437.0	465.7	508.3	550.8	550.8
42.5°	1397.0	1315.4	937.4	606.4	459.7	496.9	398.8	430.9	470.9	445.6	456.1
45°	1569.1	1459.7	1002.6	546.4	435.3	422.3	383.1	432.7	407.6	407.6	402.4
47.5°	1791.5	1642.1	980.9	525.7	490.0	399.7	505.7	406.7	375.3	389.2	390.1
50°	2143.4	1966.1	1047.9	511.8	464.9	391.8	432.7	392.6	392.6	402.4	398.8
52.5°	2584.8	2235.5	1076.4	510.9	439.6	456.1	429.2	470.1	406.7	440.4	436.1
55°	3062.6	2641.1	1106.1	503.9	435.3	411.9	524.8	450.1	422.3	483.9	485.7
57.5°	3668.1	3111.2	1227.7	490.0	437.0	412.7	495.2	503.9	514.3	555.2	561.3
60°	4045.2	3371.9	1119.8	516.0	432.7	470.9	576.1	563.0	530.9	682.1	704.6
62.5°	4332.9	3569.1	922.6	537.7	511.8	474.3	595.1	656.8	627.2	688.1	705.4
65°	4384.9	3551.7	705.4	537.7	504.8	552.5	714.2	655.1	558.7	564.8	557.8
66°	4381.5	3498.8	649.8	542.1	511.8	576.1	701.1	662.9	540.4	546.4	533.5
67.5°	4238.2	3331.1	564.8	536.1	560.5	591.7	689.0	618.7	519.6	521.2	508.3
70°	3686.5	2809.8	480.5	550.8	581.3	593.4	753.3	576.1	477.0	464.9	462.2
72.5°	2711.5	1993.1	450.1	548.2	589.9	575.2	635.1	473.4	411.9	387.4	384.8
75°	1524.8	1018.3	448.3	525.7	522.2	493.4	480.5	364.9	340.5	311.9	306.7
77.5°	702.8	490.8	379.7	423.1	394.4	390.1	358.0	304.0	290.2	271.1	263.3
80°	406.7	346.7	270.2	280.6	283.2	275.4	289.3	273.7	258.9	245.0	232.0
82.5°	237.2	219.8	197.2	185.1	185.1	198.0	238.1	227.6	216.3	204.2	175.4
85°	148.6	142.6	134.7	129.4	129.4	119.0	171.1	190.4	179.8	153.8	137.4
87.5°	97.2	101.7	90.4	91.2	88.7	79.1	115.5	127.6	109.5	87.8	73.0
90°	44.2	48.7	53.0	52.1	56.5	43.5	63.4	65.1	58.2	40.0	28.7
92.5°	33.9	40.0	44.2	44.2	48.7	29.6	46.1	51.3	47.8	37.4	26.9
95°	28.7	35.7	42.6	41.7	41.7	23.4	42.6	47.8	45.2	32.2	23.4
97.5°	23.4	28.7	34.8	34.8	38.2	20.0	39.0	46.1	43.5	32.2	22.5
100°	21.6	26.1	30.5	31.4	34.8	15.6	35.7	43.5	39.0	26.9	21.6
102.5°	20.0	21.6	25.2	25.2	26.1	14.0	28.7	35.7	31.4	20.8	20.8
105°	18.2	18.2	18.2	16.4	16.4	11.3	17.3	24.3	19.1	16.4	18.2
107.5°	17.3	16.4	14.0	13.0	12.1	9.5	12.1	14.7	11.3	14.7	16.4



REPORT NUMBER: P266558

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	16.4	16.4	13.0	11.3	10.4	8.8	10.4	9.5	9.5	14.7	15.6
112.5°	16.4	15.6	11.3	9.5	8.8	7.8	8.8	6.9	8.8	14.7	15.6
115°	15.6	15.6	10.4	8.8	8.8	6.9	6.9	6.1	7.8	14.0	15.6
117.5°	15.6	15.6	10.4	7.8	6.9	6.1	6.1	6.1	7.8	14.0	15.6
120°	15.6	14.7	10.4	7.8	6.1	5.2	5.2	5.2	7.8	14.0	14.7
122.5°	14.7	14.0	9.5	6.9	6.1	5.2	4.3	5.2	7.8	13.0	14.0
125°	14.0	14.0	9.5	6.1	5.2	4.3	3.5	4.3	7.8	13.0	14.0
127.5°	14.0	13.0	8.8	5.2	4.3	4.3	3.5	4.3	7.8	12.1	13.0
130°	12.1	12.1	7.8	5.2	3.5	3.5	2.6	3.5	7.8	12.1	12.1
132.5°	11.3	10.4	6.9	4.3	3.5	2.6	2.6	2.6	6.9	10.4	11.3
135°	9.5	8.8	6.1	3.5	2.6	2.6	1.7	2.6	6.1	9.5	9.5
137.5°	7.8	7.8	6.1	3.5	2.6	1.7	1.7	2.6	6.1	8.8	9.5
140°	6.9	6.1	4.3	2.6	1.7	1.7	1.7	2.6	5.2	6.9	7.8
142.5°	5.2	5.2	3.5	2.6	1.7	1.7	0.9	1.7	4.3	6.1	6.1
145°	4.3	4.3	3.5	1.7	1.7	0.9	0.9	0.9	3.5	4.3	5.2
147.5°	3.5	3.5	2.6	1.7	0.9	0.9	0.0	0.9	2.6	3.5	3.5
150°	2.6	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7
152.5°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	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)