

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: P266438

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6403.2 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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

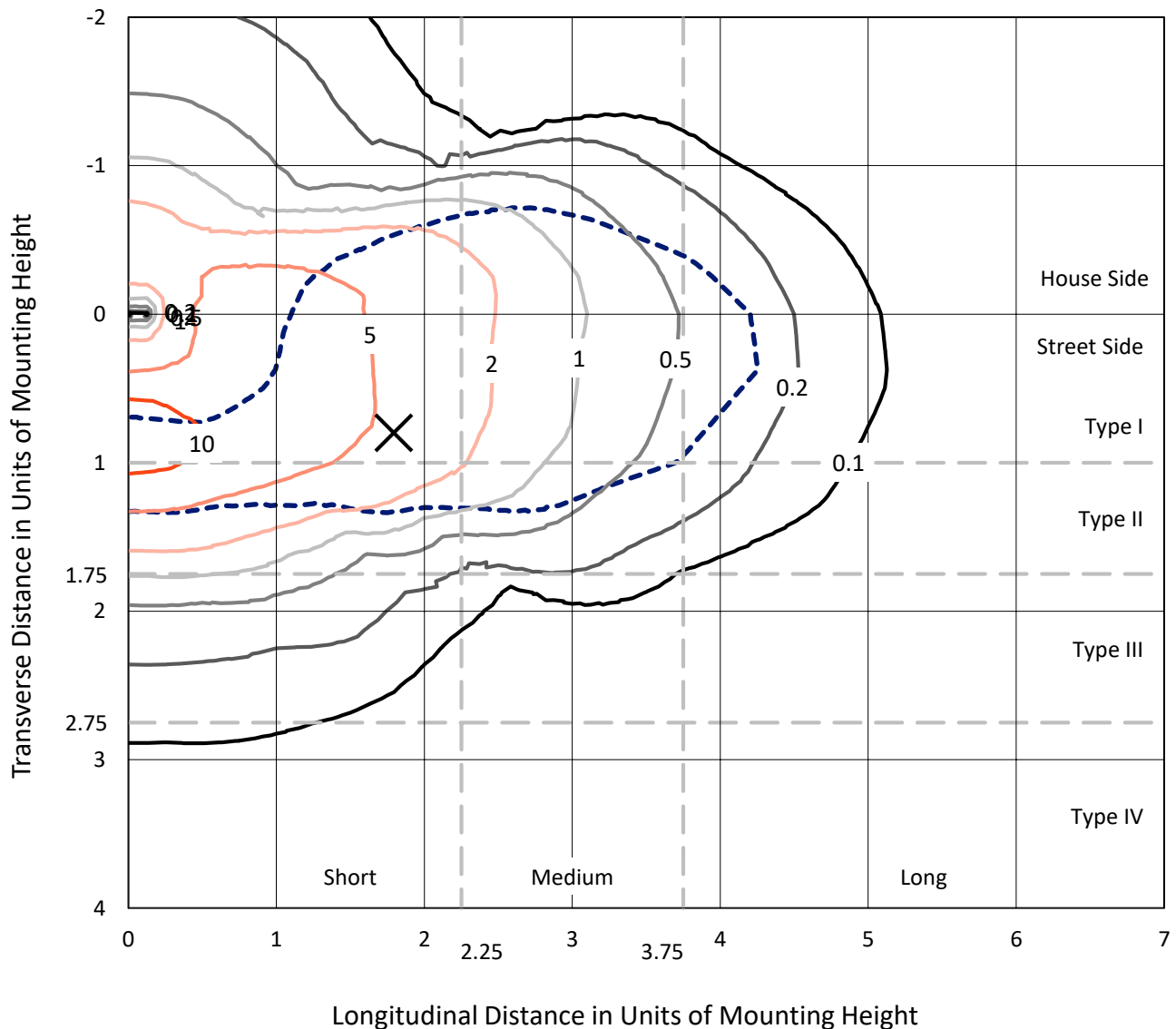


REPORT NUMBER: P266438

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

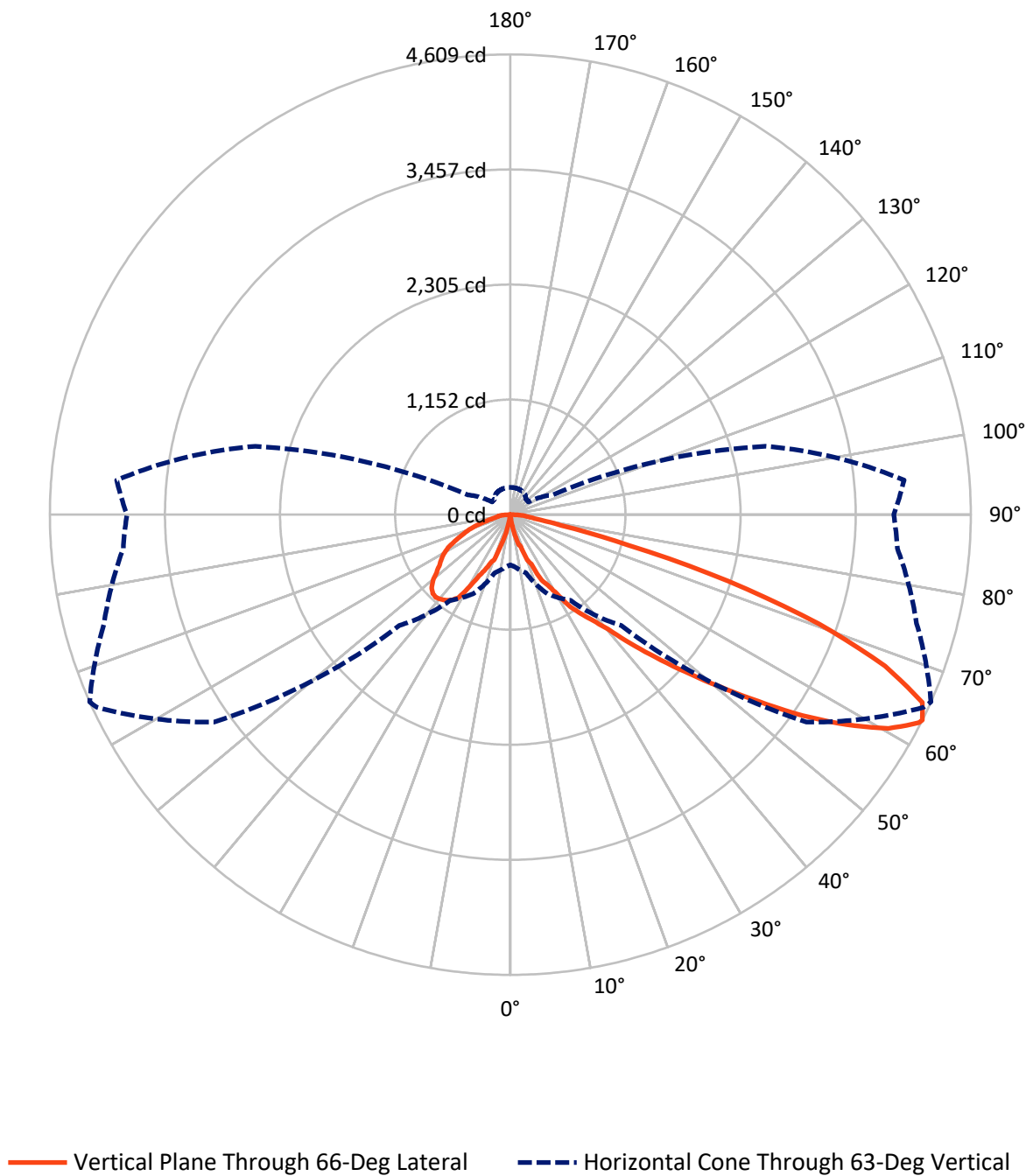


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P266438

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266438

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-7027

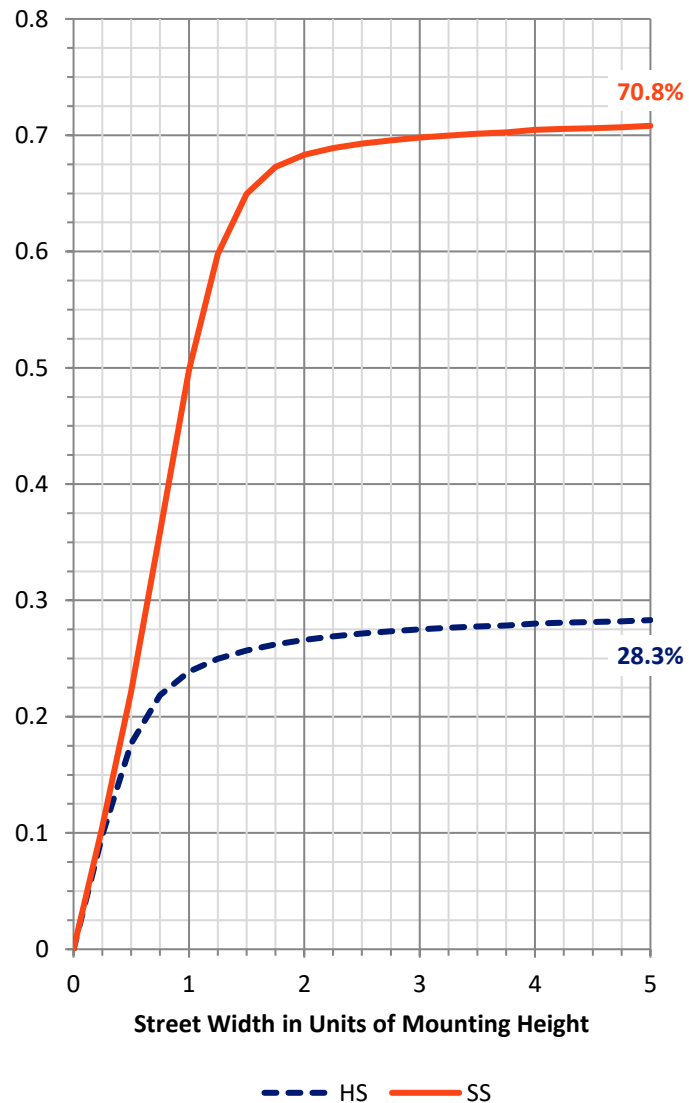
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1844.2	0.0	1844.2
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	4559.0	0.0	4559.0
	% Fixture	71.2	0.0	71.2
Total	Lumens	6403.2	0.0	6403.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.1
10°-20°	84.5	1.3
20°-30°	310.9	4.9
30°-40°	707.4	11.0
40°-50°	1273.9	19.9
50°-60°	1663.1	26.0
60°-70°	1477.6	23.1
70°-80°	750.6	11.7
80°-90°	129.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6403.2	100.0
0°-180°	6403.2	100.0

Coefficient of Utilization



REPORT NUMBER: P266438

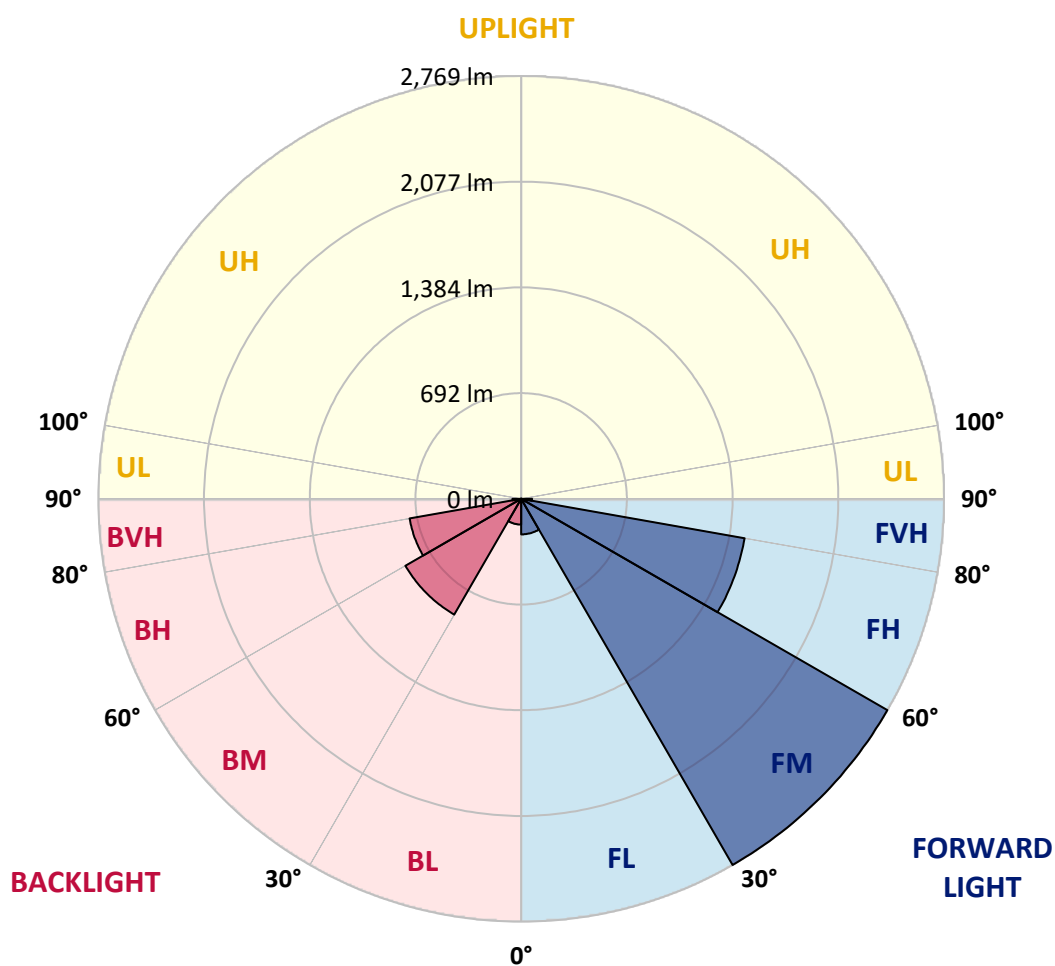
CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.9	3.6			
FM	(30°-60°)	2768.8	43.2			
FH	(60°-80°)	1485.8	23.2			G1/1800
FVH	(80°-90°)	71.6	1.1			G1/100
BL	(0°-30°)	168.8	2.6	B1/500		
BM	(30°-60°)	875.7	13.7	B1/1000		
BH	(60°-80°)	742.3	11.6	B2/1000		G2/1000
BVH	(80°-90°)	57.4	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P266438

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
2.5°	16.1	16.1	14.0	11.0	8.9	7.4	5.1	3.7	3.7	2.2	1.4
5°	148.1	148.1	147.4	146.7	145.2	139.3	25.6	8.1	7.4	3.7	2.2
7.5°	151.1	150.3	150.3	148.8	148.1	145.2	143.0	55.8	46.9	8.1	4.4
10°	270.6	269.1	266.8	180.4	152.5	148.8	148.1	116.6	115.8	25.0	18.3
12.5°	282.2	283.1	280.8	278.7	272.7	170.9	163.5	211.2	214.9	247.2	192.1
15°	322.0	317.6	301.4	291.1	286.0	268.4	305.8	305.1	306.5	289.7	219.9
17.5°	456.8	455.4	451.7	423.8	314.5	403.2	385.7	328.5	332.9	379.9	379.9
20°	515.4	514.8	501.6	486.2	539.7	434.8	414.3	482.5	486.2	491.4	454.6
22.5°	774.2	773.6	742.1	570.6	606.4	545.6	548.4	549.9	536.7	529.5	569.0
25°	898.2	892.3	874.8	823.4	719.4	726.6	599.8	721.6	727.4	723.0	714.2
27.5°	1267.1	1267.9	1121.2	971.5	882.9	817.5	825.0	800.7	800.0	786.7	821.9
30°	1476.9	1466.6	1415.2	1270.1	1053.7	966.4	926.2	941.6	918.1	1000.9	994.3
32.5°	1971.1	1971.1	1793.6	1473.8	1270.1	1198.2	1076.4	1080.8	1098.4	1086.7	1103.6
35°	2318.6	2285.6	2110.4	1850.8	1440.2	1347.0	1274.4	1210.6	1218.0	1197.4	1213.6
37.5°	2687.5	2654.4	2460.8	2127.9	1740.7	1575.1	1440.9	1361.7	1343.3	1344.9	1357.2
40°	2974.2	2955.9	2837.0	2469.7	2037.7	1818.4	1636.0	1528.1	1508.3	1544.2	1584.6
42.5°	3174.3	3167.1	3096.5	2772.4	2388.2	2187.4	1914.6	1758.4	1762.0	1781.1	1821.5
45°	3254.3	3237.4	3235.2	2963.9	2704.3	2603.1	2279.0	2020.8	2034.1	2086.1	2094.2
47.5°	3167.1	3131.9	3195.6	3043.1	2966.8	2973.4	2695.5	2359.7	2346.6	2396.4	2391.9
50°	2847.3	2835.6	2957.9	2982.3	3096.5	3248.5	3152.3	2737.3	2699.1	2703.5	2673.5
52.5°	2351.7	2380.1	2541.6	2710.1	3035.7	3397.3	3560.8	3136.3	3103.3	3010.1	2952.2
55°	1890.5	1924.9	2099.3	2230.6	2727.1	3387.0	3859.2	3535.1	3553.4	3314.3	3206.6
57.5°	1383.7	1428.5	1660.2	1770.9	2234.3	3139.8	4011.0	3923.7	3968.5	3615.0	3448.7
60°	884.3	901.2	1135.1	1355.2	1625.7	2558.5	3996.4	4294.7	4348.3	3939.2	3673.7
62.5°	552.2	570.6	646.8	954.0	1149.8	1734.2	3713.4	4541.2	4590.2	4171.5	3861.5
63°	503.1	524.3	602.8	871.9	1047.9	1569.2	3619.5	4566.2	4609.4	4210.4	3889.3
65°	374.8	383.4	424.5	588.1	769.2	985.5	2963.9	4478.9	4533.0	4243.5	3900.4
67.5°	327.1	330.7	345.4	387.9	549.9	573.4	1726.8	4012.5	4046.2	4118.8	3761.7
70°	299.1	301.4	327.8	330.7	431.1	406.9	633.6	3152.3	3279.9	3865.9	3520.5
72.5°	259.6	262.6	293.2	322.0	334.3	323.4	342.4	2128.8	2282.8	3302.7	3255.7
75°	217.0	219.9	247.2	285.2	291.1	256.6	280.8	1115.3	1224.6	2421.3	2848.0
77.5°	178.1	180.4	204.5	231.0	267.6	197.3	228.1	420.1	520.6	1495.9	2050.2
80°	122.4	128.3	154.7	178.9	204.5	178.9	170.9	240.6	254.4	725.9	1047.9
82.5°	93.2	94.6	120.3	130.6	144.4	176.7	134.1	181.1	191.3	338.0	340.3
85°	64.5	63.2	85.1	90.9	100.5	111.5	112.2	132.1	136.5	195.0	143.0
87.5°	29.4	27.8	46.3	44.7	50.7	54.9	79.9	72.7	74.1	122.4	77.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266438

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
2.5°	1.4	1.4	1.4	2.2	2.2	2.2	1.4	0.7	0.7	0.7	0.7
5°	1.4	1.4	1.4	2.2	2.2	3.0	3.7	3.7	4.4	5.1	5.1
7.5°	3.7	3.0	3.0	3.0	4.4	6.6	17.5	76.3	133.5	140.8	143.0
10°	16.1	16.1	11.8	9.5	11.0	120.3	155.4	160.5	163.5	165.0	165.0
12.5°	200.2	223.7	208.9	112.2	121.0	149.6	166.5	170.0	174.5	211.9	219.2
15°	243.4	245.6	247.8	230.2	319.0	235.4	196.5	297.0	302.1	304.3	303.5
17.5°	369.6	376.2	347.6	309.5	338.8	350.5	286.0	313.1	318.2	322.6	322.6
20°	479.5	480.4	450.2	481.9	412.1	426.8	372.4	353.5	454.0	458.2	457.5
22.5°	591.1	599.8	496.5	514.0	541.9	452.4	470.7	419.4	441.4	441.4	440.7
25°	731.8	728.9	680.5	594.7	569.0	535.3	483.2	437.7	497.9	526.4	526.4
27.5°	867.5	825.6	709.1	684.1	652.6	561.7	477.4	502.3	488.4	492.0	491.4
30°	1024.3	1011.9	906.3	814.7	670.2	545.6	499.4	454.6	478.8	507.5	504.5
32.5°	1103.6	1071.3	945.1	984.1	702.5	525.8	434.8	427.6	434.8	445.1	446.5
35°	1207.7	1155.0	1031.0	1038.4	707.7	461.2	387.2	382.8	423.1	442.1	444.3
37.5°	1341.9	1278.8	1174.8	1062.5	664.3	406.9	343.2	367.3	381.3	390.1	387.2
40°	1514.3	1439.4	1361.7	1069.2	591.8	351.2	319.0	338.8	352.0	354.2	354.2
42.5°	1725.5	1622.0	1553.8	1065.5	497.1	322.0	302.9	318.2	335.1	333.6	332.2
45°	1974.7	1850.1	1710.7	1040.4	404.7	305.8	294.7	305.1	317.6	312.4	310.2
47.5°	2243.8	2109.6	1849.3	989.9	344.6	294.0	290.4	290.4	304.3	302.9	302.1
50°	2516.6	2378.7	1994.4	912.1	311.6	283.8	275.7	285.2	301.4	298.4	297.0
52.5°	2786.5	2662.5	2107.5	804.4	291.1	275.1	269.9	282.2	297.0	294.0	293.2
55°	3035.1	2955.2	2228.4	718.6	269.9	259.6	269.9	280.1	291.8	289.0	289.0
57.5°	3291.7	3268.3	2379.5	650.5	252.2	247.8	266.8	276.5	286.0	284.6	284.6
60°	3549.1	3613.6	2518.0	577.8	238.3	233.9	261.0	272.0	280.1	279.4	279.4
62.5°	3797.7	3917.1	2627.4	492.8	225.1	222.9	253.7	266.2	272.7	274.3	274.3
63°	3838.0	3956.0	2643.4	467.8	222.2	221.4	252.2	264.7	270.6	272.7	272.7
65°	3912.7	4050.5	2669.1	385.0	209.8	213.3	244.2	259.6	263.3	268.4	266.8
67.5°	3845.3	3960.4	2592.9	297.0	194.4	201.7	231.8	248.7	252.2	259.6	255.8
70°	3694.2	3687.0	2334.8	242.0	182.5	189.3	217.7	236.2	237.6	244.9	237.6
72.5°	3409.7	3151.7	1839.8	205.4	170.9	176.7	203.0	220.8	221.4	224.3	217.0
75°	2850.2	2451.4	1105.8	177.4	156.1	160.5	186.9	201.7	203.8	199.5	195.8
77.5°	1946.1	1541.3	503.8	155.4	143.0	143.6	167.2	180.4	181.1	171.5	171.5
80°	936.5	722.2	209.8	139.3	129.7	126.9	146.7	156.9	156.1	145.2	140.8
82.5°	296.3	264.0	156.1	121.7	115.8	109.2	127.6	132.1	132.7	133.5	107.1
85°	118.0	122.4	121.0	100.5	97.6	82.9	101.9	107.7	105.6	88.8	75.5
87.5°	61.7	75.5	74.1	67.5	69.7	52.8	70.3	67.5	68.9	46.3	35.9
90°	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)