

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: P241016

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241016
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-AF24-90-D-U-T4W-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7846 lumens
Efficiency: N/A
Efficacy: 83.5 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): 94
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

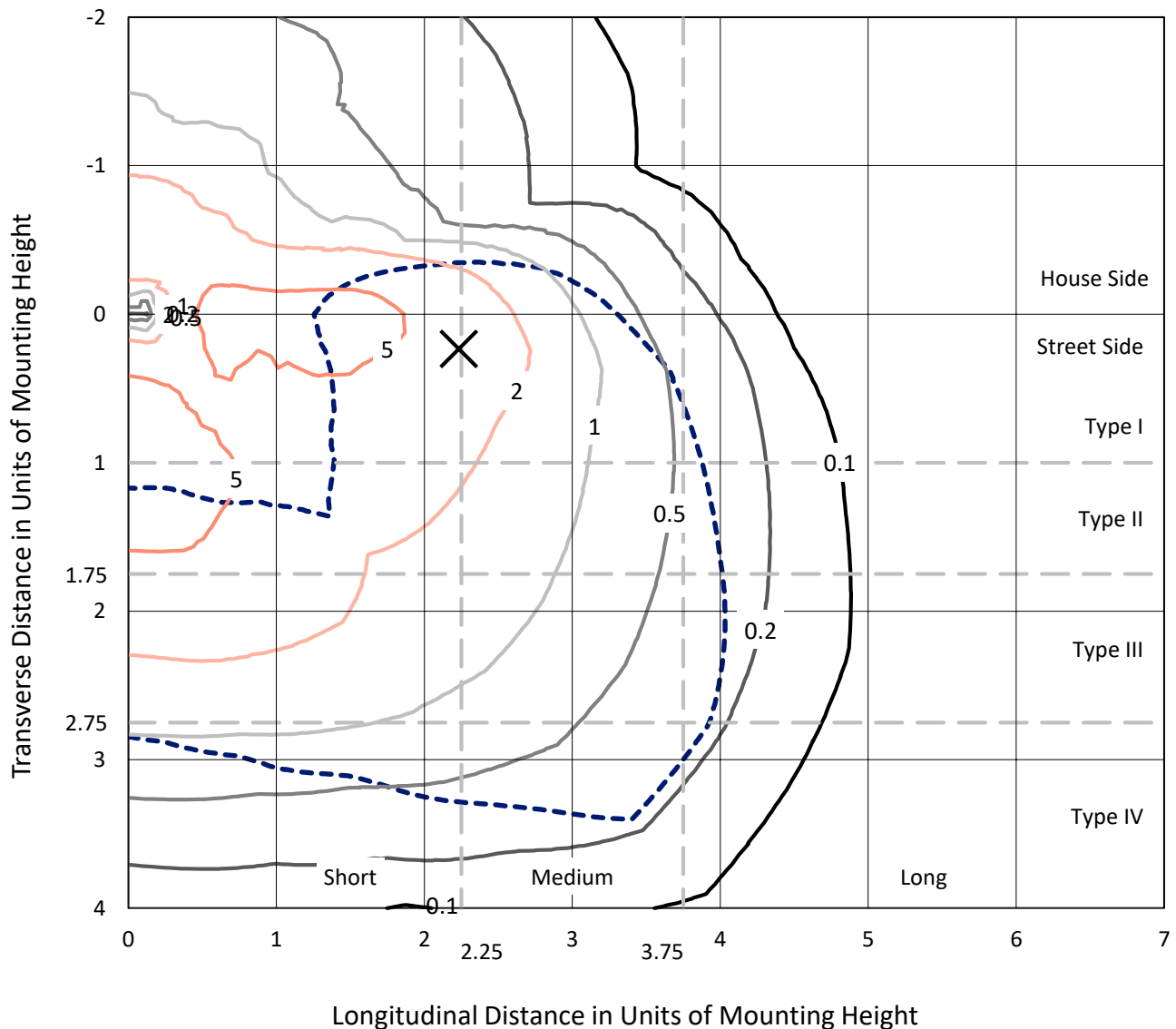


REPORT NUMBER: P241016

CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

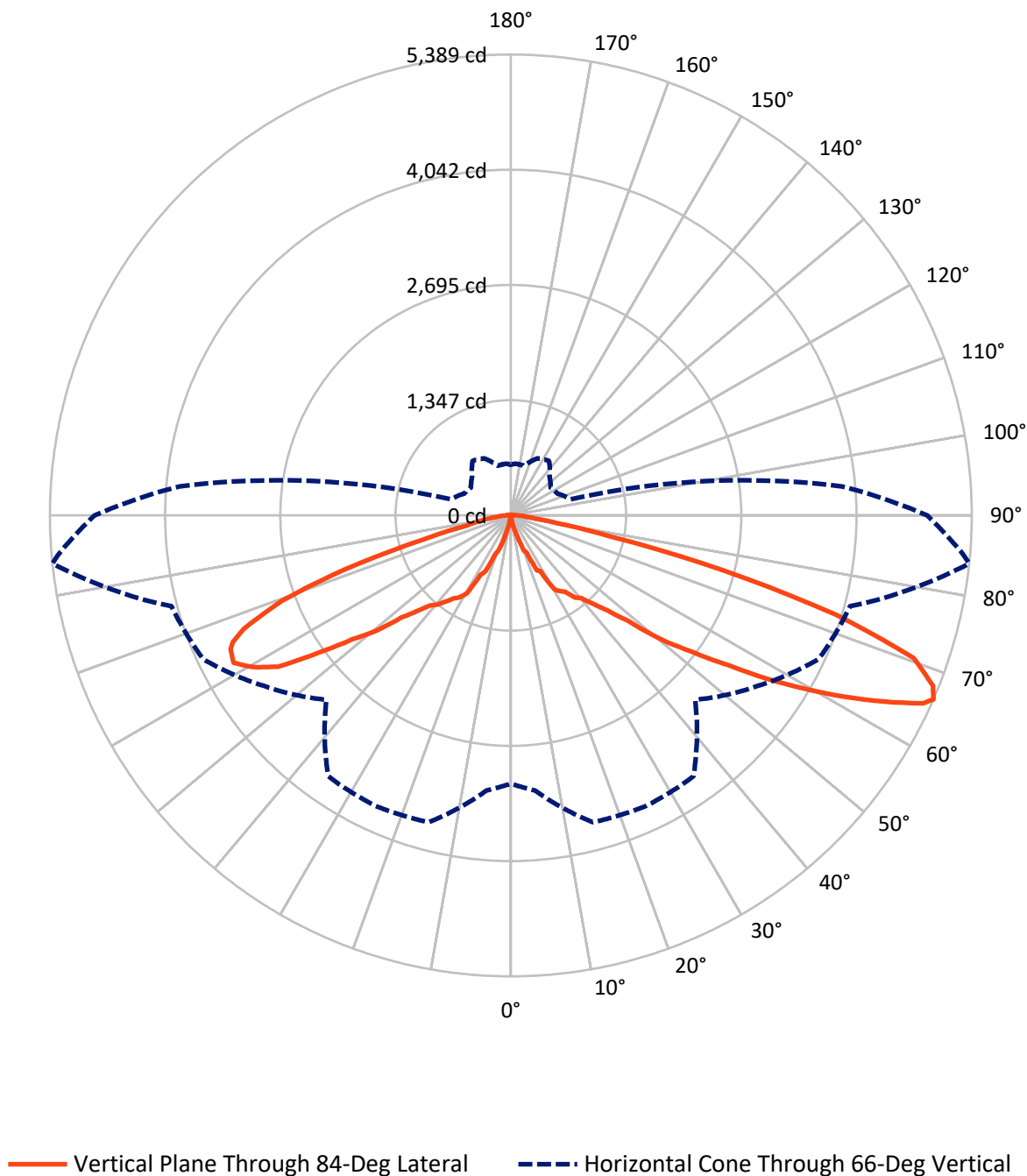


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P241016

CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P241016

CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

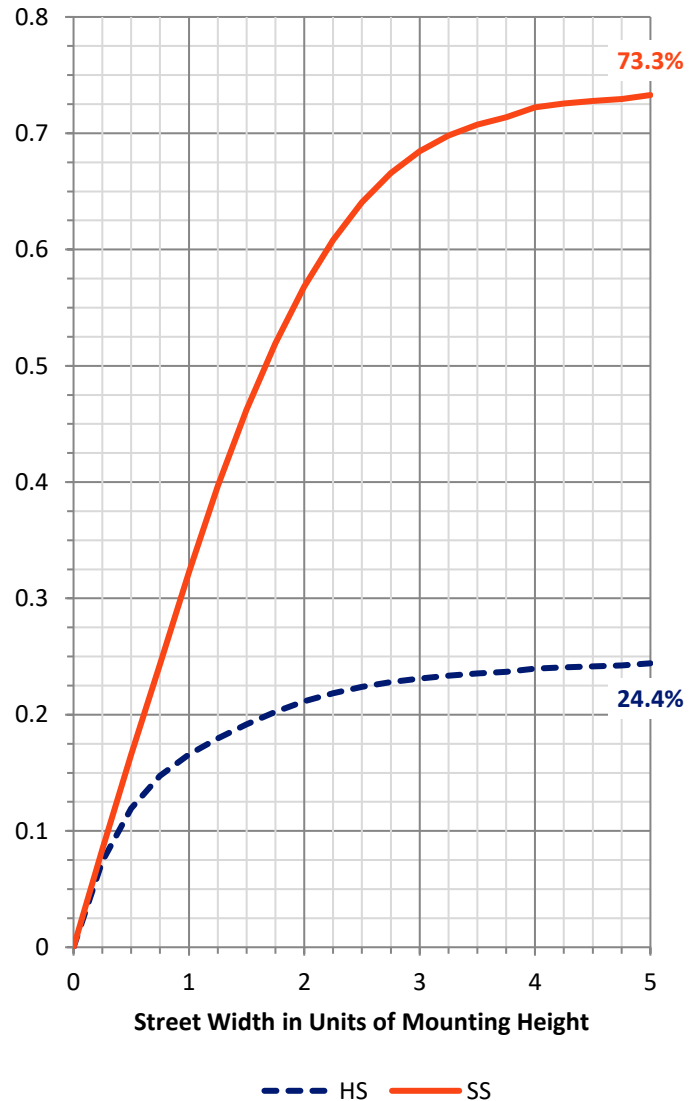
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1963.3	47.8	2011.1
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	5789.9	44.9	5834.9
	% Fixture	73.8	0.6	74.4
Total	Lumens	7753.3	92.7	7846.0
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	72.8	0.9
20°-30°	269.1	3.4
30°-40°	553.4	7.1
40°-50°	918.1	11.7
50°-60°	1600.9	20.4
60°-70°	2358.3	30.1
70°-80°	1721.0	21.9
80°-90°	253.9	3.2
90°-100°	47.3	0.6
100°-110°	21.6	0.3
110°-120°	10.2	0.1
120°-130°	7.1	0.1
130°-140°	4.2	0.1
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7753.3	98.8
0°-180°	7846.0	100.0

Coefficient of Utilization



REPORT NUMBER: P241016

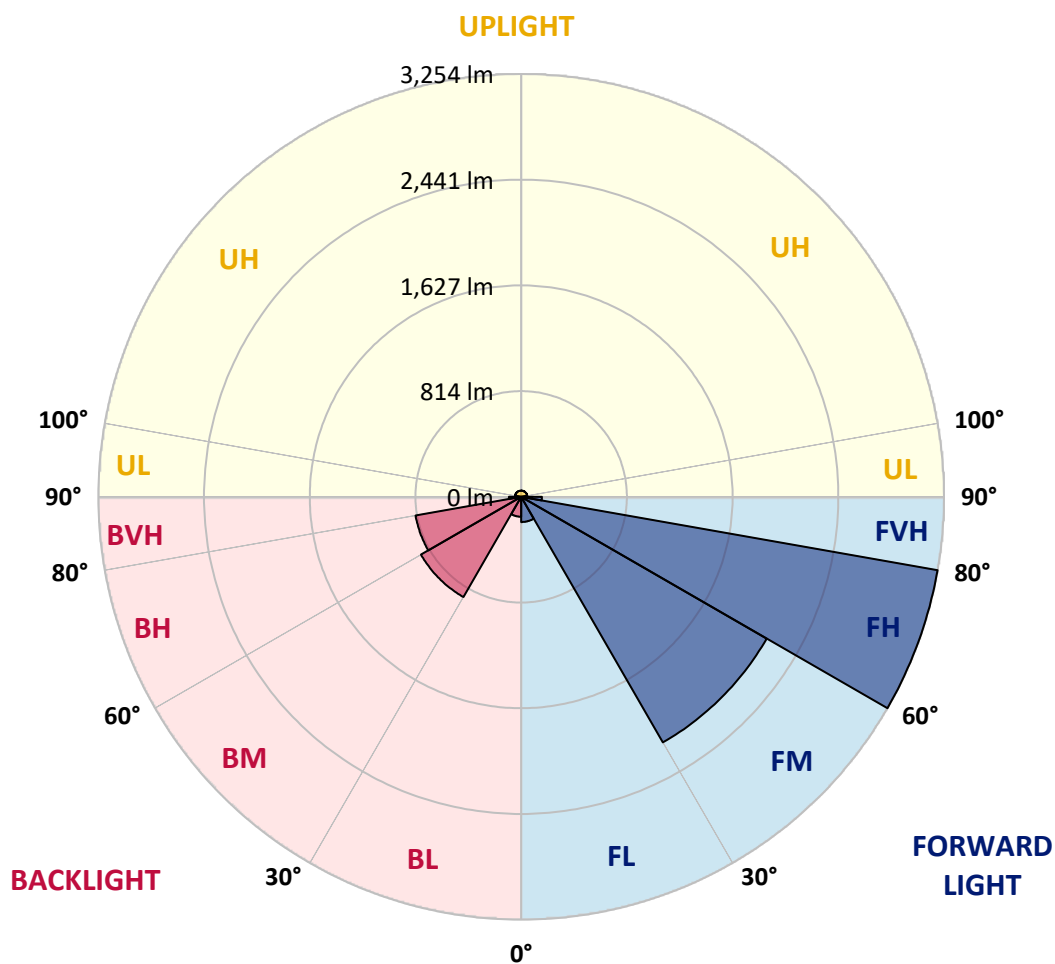
CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.2	2.5			
FM	(30°-60°)	2182.1	27.8			
FH	(60°-80°)	3254.0	41.5			G2/5000
FVH	(80°-90°)	159.6	2.0			G2/225
BL	(0°-30°)	153.6	2.0	B1/500		
BM	(30°-60°)	890.2	11.3	B1/1000		
BH	(60°-80°)	825.3	10.5	B2/1000		G2/1000
BVH	(80°-90°)	94.2	1.2			G1/100
UL	(90°-100°)	47.3	0.6		U2/50	
UH	(100°-180°)	47.8	0.6		U2/50	

BUG Rating: B2-U2-G2

Type IV Short





REPORT NUMBER: P241016

CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	46.3	41.5	41.5	39.6	35.7	31.9	25.1	21.2	18.3	18.3	17.4
5°	88.8	93.6	108.0	99.4	82.1	107.2	48.3	31.9	20.3	17.4	17.4
7.5°	141.0	148.6	113.8	101.4	101.4	108.0	87.9	53.1	27.0	20.3	19.3
10°	295.3	278.9	194.1	196.8	166.9	116.8	80.1	70.5	41.5	32.8	29.9
12.5°	286.7	282.8	288.6	252.0	253.8	184.3	102.2	164.1	148.6	141.9	156.3
15°	369.7	365.8	293.4	299.2	271.2	281.8	237.4	236.4	228.8	192.1	184.3
17.5°	513.5	509.5	574.2	382.2	272.2	352.3	305.9	263.6	273.1	288.6	300.1
20°	512.5	506.8	533.7	458.5	464.3	363.9	326.2	479.6	438.1	440.1	414.9
22.5°	756.7	721.9	634.1	478.8	523.2	425.7	483.6	473.8	442.1	468.0	460.4
25°	734.4	748.0	718.1	708.4	532.7	610.0	531.8	547.3	675.7	710.4	711.3
27.5°	852.2	826.2	803.0	727.7	716.2	593.6	547.3	728.6	707.5	739.3	738.4
30°	1016.3	1007.6	1001.8	808.8	774.9	654.4	737.4	744.2	859.0	1003.8	1033.7
32.5°	1174.6	1133.1	1039.5	936.3	777.9	773.1	732.6	924.7	985.4	1054.0	1064.6
35°	1425.5	1424.6	1266.4	1001.0	870.6	821.3	948.8	996.0	995.2	1098.4	1161.1
37.5°	1639.8	1650.5	1484.4	1208.4	900.6	830.1	990.2	1074.2	1078.1	1218.0	1193.8
40°	1966.0	1938.0	1789.4	1442.9	1028.9	885.0	1085.8	1098.4	1177.5	1271.1	1305.8
42.5°	2197.6	2187.1	2138.8	1717.0	1177.5	986.4	1198.7	1144.7	1246.9	1416.9	1453.5
45°	2342.4	2290.3	2337.6	1917.8	1415.9	1203.6	1223.8	1296.3	1405.3	1584.8	1688.0
47.5°	2488.2	2527.7	2416.9	2069.3	1630.1	1303.9	1346.4	1575.2	1680.3	1841.6	1907.1
50°	2741.1	2698.6	2660.0	2297.0	1960.2	1464.2	1684.2	1653.3	1948.6	2277.7	2289.3
52.5°	2895.5	2895.5	2832.8	2495.9	2188.0	1700.6	1797.1	1907.1	2347.2	2645.5	2753.6
55°	3114.6	3159.9	3148.3	2730.4	2456.3	2022.1	2092.5	2324.1	2712.2	3095.4	3362.7
57.5°	3269.9	3332.7	3468.8	2981.3	2717.0	2153.3	2523.9	2781.6	3202.4	3668.6	3991.9
60°	3500.6	3501.6	3641.5	3203.4	3046.0	2403.2	2690.8	3206.2	3471.7	4219.7	4390.5
62.5°	3523.8	3563.4	3856.8	3548.8	3374.3	2663.8	3237.2	3425.4	3774.8	4773.6	4923.3
65°	3243.9	3350.1	3841.3	3711.0	3674.4	2904.2	3397.4	3858.7	4020.8	5298.7	5256.3
66°	3136.8	3226.5	3713.9	3746.7	3723.5	3048.0	3491.0	3971.7	4106.7	5389.4	5315.1
67.5°	3099.1	3164.8	3561.5	3785.4	3890.6	3308.6	3719.7	4026.6	4264.1	5323.8	5293.9
70°	2837.6	2919.6	3292.2	4040.2	4246.7	3786.4	4014.0	4159.8	4375.1	4998.6	4869.2
72.5°	2163.9	2247.9	2522.9	3333.7	4276.6	4492.8	4470.7	4327.8	4014.0	3971.7	3764.1
75°	1073.3	1163.1	1357.0	1942.8	3327.9	4413.6	4444.5	3902.2	3243.9	2561.6	2402.3
77.5°	554.9	625.4	524.1	744.2	1711.2	3131.0	3145.5	2573.2	1880.2	1196.8	1117.6
80°	378.4	393.8	357.1	366.8	704.6	1600.2	1492.2	1369.6	756.7	549.1	573.3
82.5°	277.9	256.8	246.2	267.3	380.2	500.0	536.7	592.6	404.4	278.9	294.4
85°	131.2	144.8	141.9	163.2	231.6	170.9	262.6	356.1	269.4	179.5	176.7
87.5°	82.1	81.1	86.9	100.4	140.0	113.0	143.7	176.7	162.1	112.0	110.1
90°	54.1	48.3	45.4	54.1	78.2	55.9	77.2	100.4	91.7	60.8	57.0
92.5°	36.7	36.7	39.6	45.4	67.5	59.9	55.0	57.0	57.0	47.3	45.4
95°	27.0	29.0	32.8	33.8	40.5	34.8	44.4	49.2	50.1	38.6	37.7
97.5°	23.2	25.1	27.0	28.0	33.8	28.0	36.7	43.4	42.5	30.9	31.9
100°	21.2	23.2	23.2	24.1	27.0	21.2	29.9	40.5	38.6	27.0	26.1
102.5°	20.3	20.3	19.3	19.3	21.2	16.4	25.1	35.7	29.0	22.2	20.3
105°	19.3	19.3	16.4	15.4	16.4	13.5	20.3	27.0	20.3	18.3	18.3
107.5°	18.3	17.4	14.5	12.6	13.5	10.6	16.4	17.4	14.5	16.4	17.4



REPORT NUMBER: P241016

CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	16.4	16.4	12.6	10.6	10.6	8.7	11.6	12.6	12.6	16.4	17.4
112.5°	15.4	14.5	10.6	8.7	8.7	7.7	8.7	9.7	10.6	15.4	16.4
115°	14.5	13.5	9.7	7.7	6.8	5.8	6.8	7.7	9.7	15.4	15.4
117.5°	13.5	12.6	8.7	6.8	5.8	4.8	5.8	6.8	9.7	15.4	15.4
120°	13.5	12.6	8.7	5.8	4.8	4.8	4.8	5.8	10.6	15.4	16.4
122.5°	12.6	12.6	8.7	5.8	4.8	3.9	3.9	5.8	9.7	14.5	14.5
125°	12.6	12.6	7.7	4.8	3.9	3.9	3.9	4.8	9.7	13.5	14.5
127.5°	11.6	11.6	7.7	4.8	3.9	2.9	2.9	4.8	8.7	13.5	13.5
130°	11.6	11.6	7.7	3.9	2.9	2.9	2.9	3.9	8.7	12.6	12.6
132.5°	9.7	9.7	6.8	3.9	2.9	1.9	2.9	3.9	7.7	10.6	11.6
135°	9.7	9.7	6.8	3.9	2.9	1.9	1.9	3.9	6.8	9.7	9.7
137.5°	8.7	8.7	5.8	3.9	2.9	1.9	1.9	2.9	5.8	8.7	8.7
140°	7.7	7.7	6.8	3.9	2.9	1.9	1.9	1.9	4.8	6.8	6.8
142.5°	7.7	7.7	5.8	3.9	1.9	1.0	1.0	1.9	3.9	4.8	4.8
145°	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	2.9	3.9	3.9
147.5°	6.8	6.8	5.8	2.9	1.0	1.0	1.0	1.9	2.9	3.9	3.9
150°	5.8	5.8	3.9	1.9	0.0	0.0	1.0	1.0	1.9	2.9	2.9
152.5°	3.9	3.9	2.9	1.0	0.0	0.0	0.0	1.0	1.9	1.9	1.9
155°	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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



REPORT NUMBER: P241016

CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	17.4	17.4	17.4	17.4	17.4	17.4	16.4	16.4	16.4	16.4	16.4
5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	17.4	18.3	18.3	18.3
7.5°	18.3	18.3	17.4	16.4	17.4	19.3	29.0	66.6	97.5	119.6	118.8
10°	29.9	29.9	28.0	24.1	29.9	65.7	129.4	130.3	108.0	99.4	103.2
12.5°	158.3	141.0	119.6	98.5	96.4	116.8	110.1	153.5	171.7	184.3	182.5
15°	181.5	192.1	175.7	196.8	201.7	119.6	187.3	251.0	270.2	277.9	286.7
17.5°	299.2	331.0	236.4	223.9	224.8	239.4	252.8	265.4	271.2	268.3	269.4
20°	450.7	429.5	461.3	393.8	301.1	320.4	293.4	289.5	382.2	464.3	453.7
22.5°	460.4	497.0	454.6	415.9	460.4	326.2	404.4	429.5	442.1	452.7	466.2
25°	745.1	727.7	637.0	477.8	454.6	435.3	439.1	448.8	473.0	509.5	531.8
27.5°	791.5	787.5	704.6	643.7	484.6	544.3	450.7	542.5	585.8	624.4	632.2
30°	1064.6	1075.2	810.7	618.6	561.7	466.2	523.2	558.9	592.6	646.7	647.6
32.5°	1131.2	1153.3	896.6	684.3	588.8	482.6	526.0	553.1	681.4	731.6	733.5
35°	1148.6	1205.4	924.7	660.2	568.4	480.6	485.4	578.1	641.8	744.2	780.7
37.5°	1331.0	1289.5	982.6	668.8	531.8	462.2	524.1	554.9	655.3	721.0	733.5
40°	1408.2	1385.0	1020.2	686.2	525.1	514.4	485.4	517.4	564.7	612.0	612.0
42.5°	1552.0	1461.3	1041.5	673.7	510.6	552.1	443.0	478.8	523.2	495.2	506.8
45°	1743.1	1621.5	1113.8	607.1	483.6	469.0	425.7	480.6	452.7	452.7	446.9
47.5°	1990.1	1824.2	1089.7	583.9	544.3	443.9	561.7	451.7	417.0	432.3	433.3
50°	2381.1	2184.2	1163.9	568.4	516.4	435.3	480.6	436.3	436.3	446.9	443.0
52.5°	2871.4	2483.4	1195.9	567.5	488.4	506.8	476.8	522.1	451.7	489.4	484.6
55°	3402.3	2934.0	1228.6	559.9	483.6	457.5	583.0	500.0	469.0	537.5	539.5
57.5°	4075.0	3456.2	1363.8	544.3	485.4	458.5	550.1	559.9	571.4	616.8	623.6
60°	4493.9	3745.7	1244.1	573.3	480.6	523.2	639.9	625.4	589.7	757.6	782.8
62.5°	4813.3	3964.9	1025.0	597.4	568.4	526.9	661.1	729.7	696.8	764.4	783.7
65°	4871.3	3945.6	783.7	597.4	560.7	613.8	793.3	727.7	620.6	627.3	619.6
66°	4867.3	3886.7	721.9	602.2	568.4	639.9	778.9	736.4	600.4	607.1	592.6
67.5°	4708.1	3700.4	627.3	595.5	622.6	657.3	765.4	687.2	577.2	579.1	564.7
70°	4095.1	3121.3	533.7	612.0	645.7	659.2	836.8	639.9	529.9	516.4	513.5
72.5°	3012.3	2214.0	500.0	609.0	655.3	638.9	705.5	526.0	457.5	430.5	427.5
75°	1693.8	1131.2	498.0	583.9	580.0	548.3	533.7	405.4	378.4	346.5	340.7
77.5°	780.7	545.3	421.7	470.1	438.1	433.3	397.6	337.8	322.4	301.1	292.5
80°	451.7	385.1	300.1	311.7	314.6	305.9	321.4	304.1	287.6	272.2	257.8
82.5°	263.6	244.2	219.1	205.6	205.6	220.0	264.4	252.8	240.4	226.8	194.9
85°	165.1	158.3	149.5	143.7	143.7	132.2	190.1	211.4	199.8	170.9	152.5
87.5°	108.0	113.0	100.4	101.4	98.5	87.9	128.4	141.9	121.6	97.5	81.1
90°	49.2	54.1	58.9	57.9	62.8	48.3	70.5	72.4	64.7	44.4	31.9
92.5°	37.7	44.4	49.2	49.2	54.1	32.8	51.2	57.0	53.1	41.5	29.9
95°	31.9	39.6	47.3	46.3	46.3	26.1	47.3	53.1	50.1	35.7	26.1
97.5°	26.1	31.9	38.6	38.6	42.5	22.2	43.4	51.2	48.3	35.7	25.1
100°	24.1	29.0	33.8	34.8	38.6	17.4	39.6	48.3	43.4	29.9	24.1
102.5°	22.2	24.1	28.0	28.0	29.0	15.4	31.9	39.6	34.8	23.2	23.2
105°	20.3	20.3	20.3	18.3	18.3	12.6	19.3	27.0	21.2	18.3	20.3
107.5°	19.3	18.3	15.4	14.5	13.5	10.6	13.5	16.4	12.6	16.4	18.3



REPORT NUMBER: P241016

CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.3	18.3	14.5	12.6	11.6	9.7	11.6	10.6	10.6	16.4	17.4
112.5°	18.3	17.4	12.6	10.6	9.7	8.7	9.7	7.7	9.7	16.4	17.4
115°	17.4	17.4	11.6	9.7	9.7	7.7	7.7	6.8	8.7	15.4	17.4
117.5°	17.4	17.4	11.6	8.7	7.7	6.8	6.8	6.8	8.7	15.4	17.4
120°	17.4	16.4	11.6	8.7	6.8	5.8	5.8	5.8	8.7	15.4	16.4
122.5°	16.4	15.4	10.6	7.7	6.8	5.8	4.8	5.8	8.7	14.5	15.4
125°	15.4	15.4	10.6	6.8	5.8	4.8	3.9	4.8	8.7	14.5	15.4
127.5°	15.4	14.5	9.7	5.8	4.8	4.8	3.9	4.8	8.7	13.5	14.5
130°	13.5	13.5	8.7	5.8	3.9	3.9	2.9	3.9	8.7	13.5	13.5
132.5°	12.6	11.6	7.7	4.8	3.9	2.9	2.9	2.9	7.7	11.6	12.6
135°	10.6	9.7	6.8	3.9	2.9	2.9	1.9	2.9	6.8	10.6	10.6
137.5°	8.7	8.7	6.8	3.9	2.9	1.9	1.9	2.9	6.8	9.7	10.6
140°	7.7	6.8	4.8	2.9	1.9	1.9	1.9	2.9	5.8	7.7	8.7
142.5°	5.8	5.8	3.9	2.9	1.9	1.9	1.0	1.9	4.8	6.8	6.8
145°	4.8	4.8	3.9	1.9	1.9	1.0	1.0	1.0	3.9	4.8	5.8
147.5°	3.9	3.9	2.9	1.9	1.0	1.0	0.0	1.0	2.9	3.9	3.9
150°	2.9	2.9	2.9	1.9	1.0	0.0	0.0	0.0	1.0	1.9	1.9
152.5°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	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)