

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: P240962

Luminaire Tested: **UTLD-AF24-90-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7877.6 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - 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

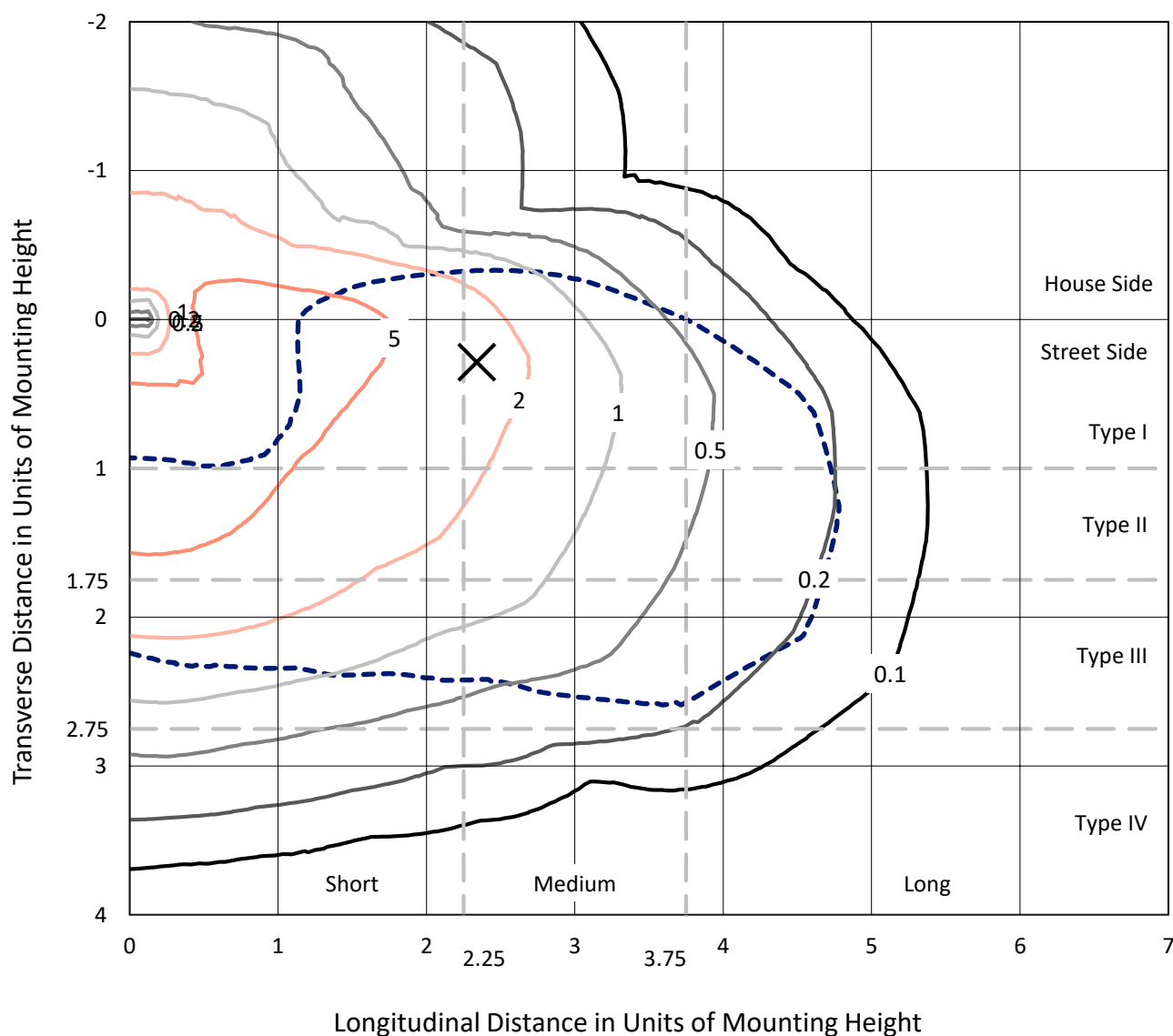


REPORT NUMBER: P240962

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-CL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

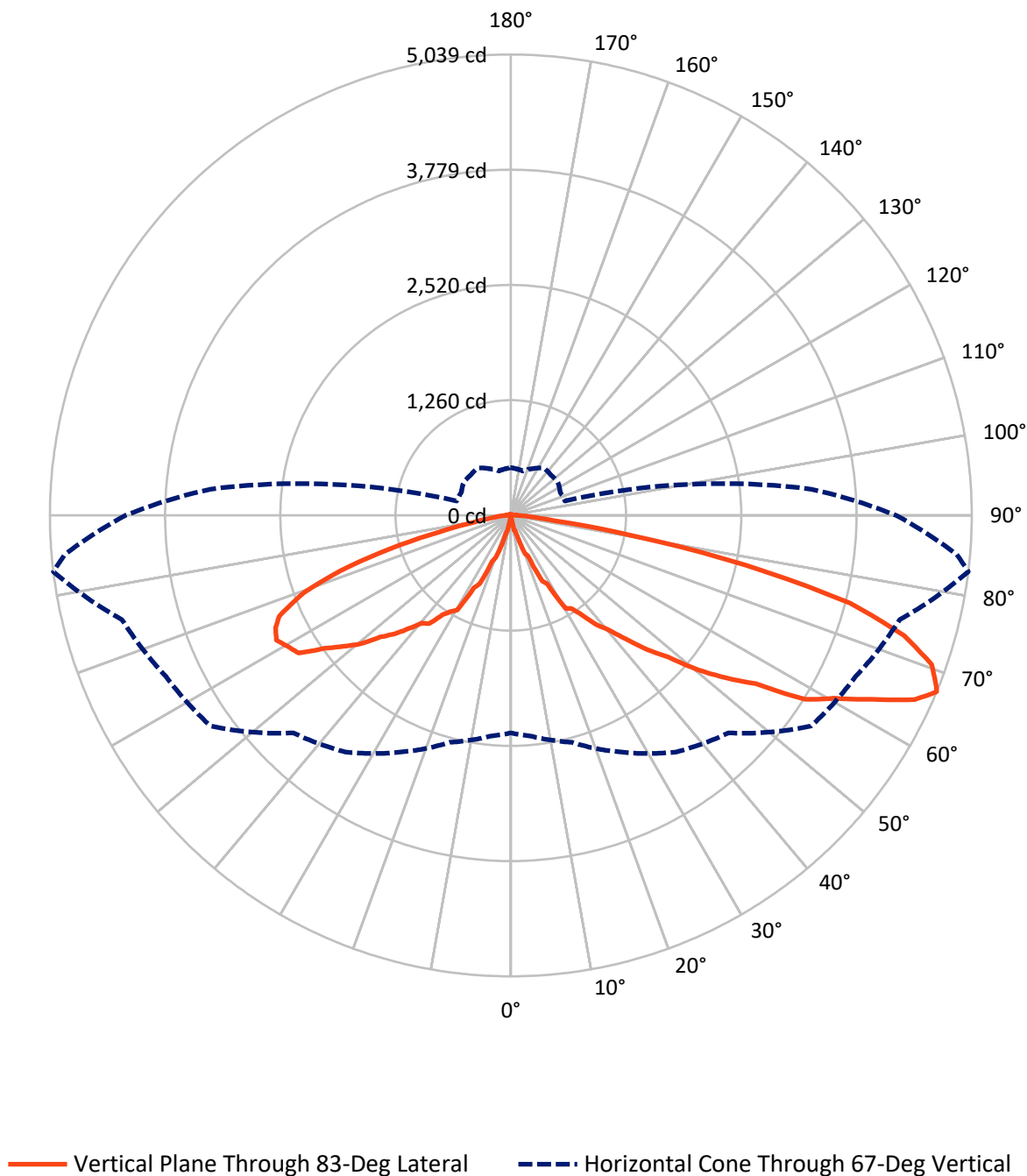


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P240962

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-CL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240962

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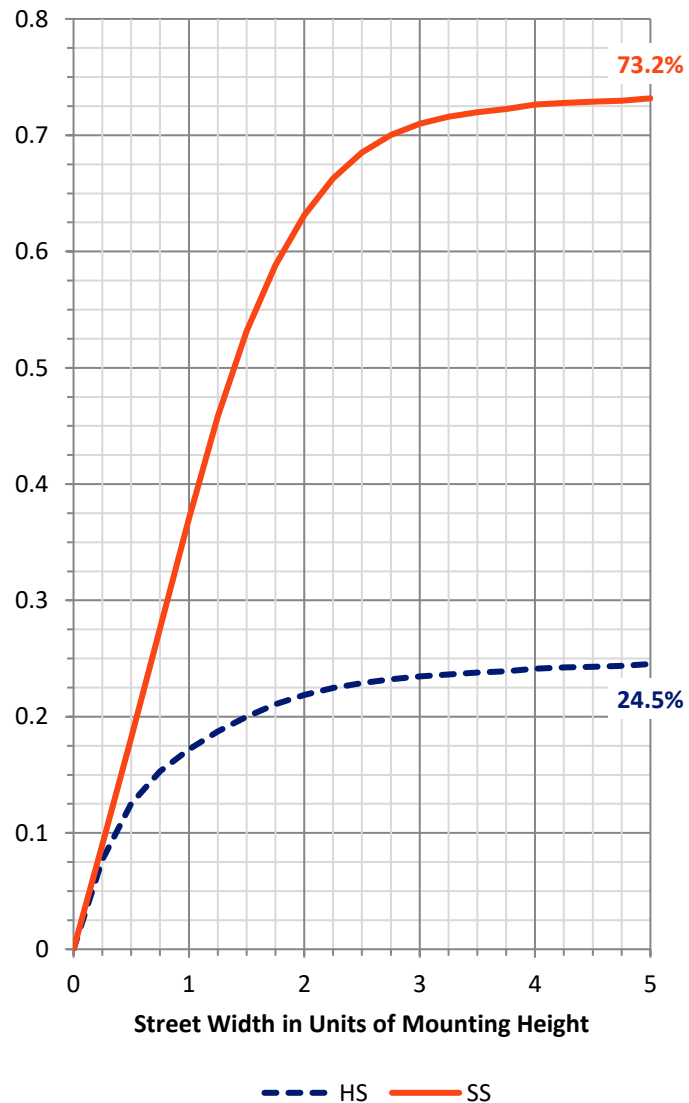
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1976.7	52.3	2029.0
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	5804.7	44.0	5848.7
	% Fixture	73.7	0.6	74.2
Total	Lumens	7781.3	96.3	7877.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	71.3	0.9
20°-30°	286.3	3.6
30°-40°	632.3	8.0
40°-50°	1126.8	14.3
50°-60°	1808.3	23.0
60°-70°	2200.3	27.9
70°-80°	1417.8	18.0
80°-90°	232.9	3.0
90°-100°	47.9	0.6
100°-110°	21.9	0.3
110°-120°	11.0	0.1
120°-130°	8.0	0.1
130°-140°	4.9	0.1
140°-150°	2.2	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7781.3	98.8
0°-180°	7877.6	100.0

Coefficient of Utilization



REPORT NUMBER: P240962

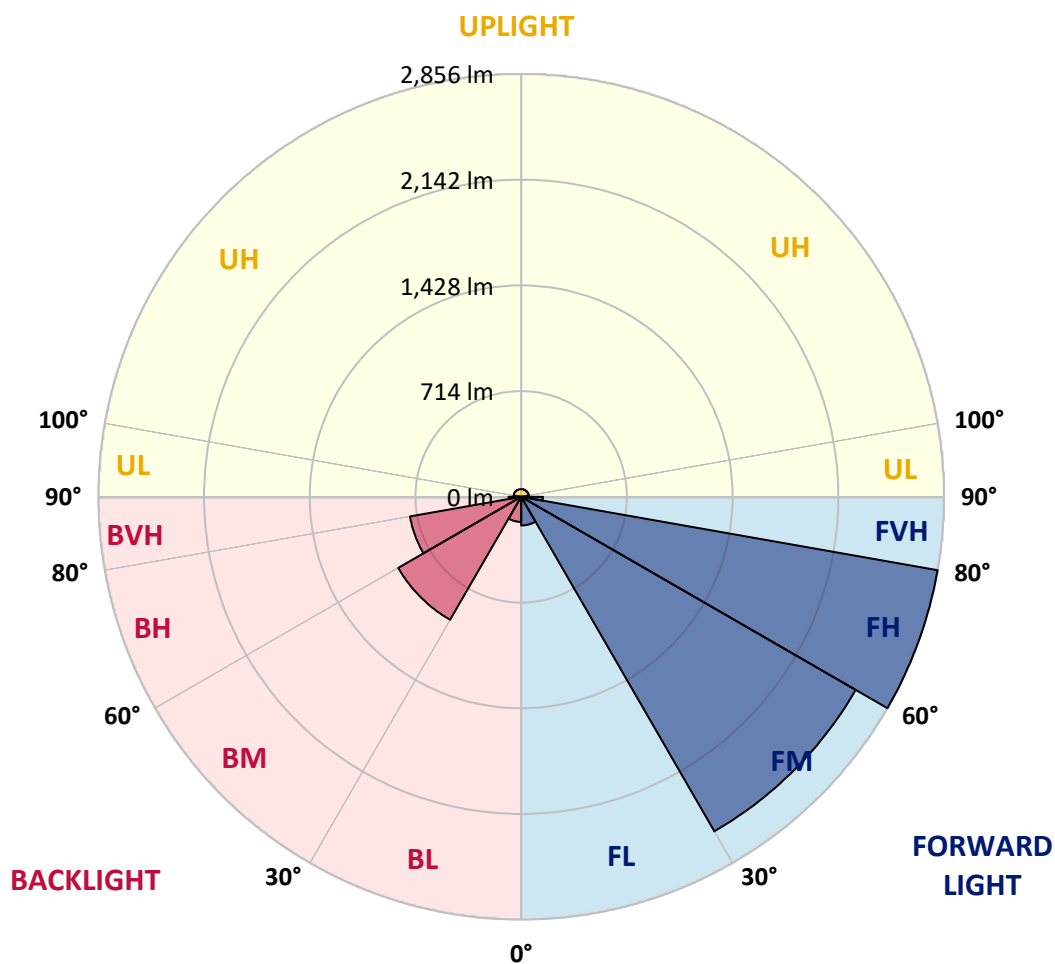
CATALOG NUMBER: UTLD-AF24-90-D-U-T3-CL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.5	2.5			
FM	(30°-60°)	2608.3	33.1			
FH	(60°-80°)	2855.6	36.2			G2/5000
FVH	(80°-90°)	147.3	1.9			G2/225
BL	(0°-30°)	169.5	2.2	B1/500		
BM	(30°-60°)	959.0	12.2	B1/1000		
BH	(60°-80°)	762.5	9.7	B2/1000		G2/1000
BVH	(80°-90°)	85.6	1.1			G1/100
UL	(90°-100°)	47.9	0.6		U2/50	
UH	(100°-180°)	52.3	0.7		U3/500	

BUG Rating: B2-U2-G2

Type III Medium



REPORT NUMBER: P240962

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-CL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	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°	39.6	39.6	39.6	35.7	30.9	25.1	22.2	19.3	18.3	18.3	18.3
5°	87.9	91.7	87.9	86.9	78.2	95.6	38.6	26.1	19.3	17.4	17.4
7.5°	124.5	126.4	102.2	94.6	76.3	104.3	84.0	47.3	24.1	19.3	18.3
10°	216.3	186.3	158.3	156.3	146.7	110.1	75.3	67.5	37.7	29.0	29.9
12.5°	209.4	215.2	211.4	204.7	188.3	157.4	100.4	129.4	141.9	166.9	157.4
15°	256.8	252.8	223.9	225.8	214.2	227.8	203.7	215.2	202.6	176.7	184.3
17.5°	397.6	384.1	402.5	308.8	225.8	277.0	281.8	252.0	269.4	277.9	308.8
20°	454.6	435.3	458.5	392.8	374.4	314.6	300.1	456.4	425.7	446.9	450.7
22.5°	628.4	617.7	551.1	449.7	478.7	401.5	428.6	473.8	483.6	478.7	494.2
25°	792.3	791.5	783.7	692.0	510.6	569.5	495.2	540.5	697.8	794.4	803.0
27.5°	938.1	930.5	875.3	849.4	715.2	642.8	590.6	749.0	799.1	845.4	856.0
30°	1186.1	1236.4	1117.6	966.1	865.8	740.2	794.4	790.5	962.2	1180.3	1191.9
32.5°	1392.7	1364.7	1241.1	1113.8	1011.5	914.9	836.8	1104.2	1151.4	1211.2	1238.2
35°	1697.7	1708.3	1578.0	1242.2	1158.1	1025.0	1094.4	1198.7	1231.6	1330.9	1338.7
37.5°	1774.0	1858.0	1781.7	1489.2	1231.6	1120.6	1177.5	1311.6	1419.8	1511.4	1453.4
40°	2109.8	2067.3	1904.3	1668.7	1383.0	1254.8	1440.0	1519.1	1535.5	1642.7	1656.2
42.5°	2438.8	2457.2	2255.5	1956.4	1580.0	1458.3	1620.6	1599.2	1755.6	1848.2	1898.5
45°	2759.4	2768.1	2608.8	2230.4	1895.5	1798.1	1718.9	1809.7	2070.3	2092.5	2105.0
47.5°	2976.5	2977.6	2909.9	2529.7	2161.9	1941.9	1916.7	2014.3	2272.9	2312.5	2324.1
50°	3315.3	3306.6	3151.2	2729.4	2514.2	2226.6	2324.1	2287.5	2511.4	2654.1	2685.0
52.5°	3448.4	3405.1	3322.0	3019.9	2830.8	2546.1	2501.7	2568.2	2824.1	2953.4	3055.7
55°	3361.6	3436.9	3421.5	3204.2	2924.5	2826.9	2711.0	2961.0	3047.9	3246.7	3428.2
57.5°	3181.1	3310.4	3371.3	3290.3	3137.7	2916.6	3124.2	3086.6	3419.5	3795.8	3917.5
60°	3057.6	3137.7	3261.3	3359.7	3248.8	3167.7	3369.3	3566.2	3693.6	4060.4	4222.6
62.5°	2835.6	2911.9	3109.7	3252.5	3189.9	3216.8	3641.5	3744.8	4120.1	4426.2	4647.3
65°	2572.1	2643.5	2875.1	3024.8	3174.4	3280.5	3814.2	4014.0	4280.4	4853.8	4884.7
67°	2378.1	2419.6	2567.3	2855.0	3156.1	3362.6	4011.1	4161.6	4401.1	5039.0	4893.2
67.5°	2313.4	2354.0	2474.6	2772.9	3145.5	3375.1	4067.1	4205.2	4418.5	5019.7	4891.3
70°	1780.7	1924.5	1927.5	2212.1	2808.6	3282.4	4166.5	4354.7	4523.7	4880.7	4722.5
72.5°	1066.5	1066.5	1115.7	1395.6	1991.1	2936.1	4166.5	4302.6	4448.4	4496.7	4230.2
75°	516.4	492.2	558.9	669.8	1002.8	1980.5	3755.3	3943.6	3962.0	3830.6	3431.1
77.5°	425.7	369.7	351.3	343.6	537.5	741.3	2509.3	3078.8	3079.8	2628.1	2299.9
80°	266.4	269.4	277.0	238.4	307.9	383.2	1000.9	1875.3	1704.5	1365.6	1150.5
82.5°	188.3	194.9	197.9	176.7	215.2	179.5	333.0	791.5	689.1	475.9	403.3
85°	132.2	128.4	143.7	119.6	129.4	106.2	183.3	340.7	388.0	235.5	223.0
87.5°	79.1	79.1	96.4	81.1	88.8	76.3	111.0	166.9	193.1	133.2	124.5
90°	47.3	43.4	45.4	46.3	50.1	43.4	59.9	80.1	84.0	67.5	61.7
92.5°	35.7	35.7	38.6	36.7	45.4	39.6	52.1	62.8	76.3	57.9	54.1
95°	23.2	26.1	29.0	29.9	34.8	29.9	43.4	51.2	57.0	44.4	42.5
97.5°	21.2	23.2	25.1	25.1	29.0	24.1	35.7	45.4	45.4	34.8	31.9
100°	20.3	21.2	22.2	22.2	24.1	19.3	28.0	39.6	39.6	29.0	27.0
102.5°	18.3	19.3	18.3	17.4	20.3	15.4	23.2	34.8	28.0	22.2	23.2
105°	18.3	18.3	16.4	14.5	16.4	12.6	20.3	25.1	19.3	18.3	19.3
107.5°	17.4	17.4	13.5	12.6	13.5	10.6	16.4	17.4	15.4	17.4	18.3



REPORT NUMBER: P240962

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	16.4	15.4	12.6	10.6	10.6	9.7	12.6	12.6	12.6	16.4	18.3
112.5°	14.5	13.5	10.6	8.7	8.7	7.7	8.7	9.7	11.6	15.4	17.4
115°	13.5	12.6	9.7	7.7	6.8	6.8	7.7	7.7	10.6	15.4	17.4
117.5°	13.5	12.6	8.7	7.7	5.8	5.8	6.8	7.7	10.6	15.4	17.4
120°	12.6	12.6	8.7	6.8	5.8	4.8	5.8	6.8	10.6	16.4	17.4
122.5°	12.6	11.6	8.7	6.8	4.8	4.8	4.8	5.8	9.7	15.4	16.4
125°	11.6	11.6	7.7	5.8	4.8	3.9	4.8	5.8	10.6	15.4	16.4
127.5°	11.6	10.6	7.7	5.8	3.9	3.9	4.8	4.8	9.7	14.5	15.4
130°	11.6	10.6	7.7	4.8	3.9	3.9	3.9	4.8	9.7	13.5	14.5
132.5°	9.7	9.7	6.8	4.8	3.9	2.9	3.9	3.9	7.7	11.6	12.6
135°	9.7	8.7	6.8	4.8	3.9	2.9	2.9	3.9	7.7	10.6	10.6
137.5°	8.7	7.7	6.8	4.8	2.9	2.9	1.9	2.9	6.8	8.7	9.7
140°	7.7	7.7	5.8	4.8	2.9	1.9	1.9	2.9	4.8	6.8	7.7
142.5°	7.7	7.7	6.8	4.8	2.9	1.9	1.9	1.9	3.9	5.8	5.8
145°	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	2.9	3.9	4.8
147.5°	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	2.9	3.9	3.9
150°	5.8	5.8	4.8	2.9	1.0	0.0	0.0	1.0	1.9	2.9	2.9
152.5°	3.9	3.9	2.9	1.9	0.0	0.0	0.0	1.0	1.9	1.9	1.9
155°	1.9	1.9	1.9	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	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



REPORT NUMBER: P240962

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-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°	18.3	18.3	18.3	18.3	18.3	18.3	17.4	17.4	17.4	17.4	17.4
5°	16.4	16.4	17.4	17.4	17.4	17.4	17.4	18.3	19.3	19.3	20.3
7.5°	18.3	18.3	17.4	17.4	18.3	20.3	32.8	69.5	131.2	121.6	120.6
10°	29.0	29.0	26.1	24.1	26.1	94.6	148.6	141.0	118.8	115.9	112.0
12.5°	183.3	170.9	138.0	86.9	126.4	119.6	139.0	163.2	212.3	223.0	215.2
15°	184.3	192.1	207.5	224.8	284.7	126.4	245.2	300.1	320.4	320.4	327.2
17.5°	320.4	345.5	265.4	239.4	283.7	347.5	274.1	305.0	302.1	303.0	294.4
20°	521.1	471.0	519.2	466.2	318.5	389.0	341.7	327.2	441.1	525.0	525.0
22.5°	516.4	547.3	540.5	535.7	560.7	345.5	436.3	473.8	491.2	469.0	502.8
25°	861.8	829.1	783.7	534.8	537.5	480.6	471.0	442.1	480.6	518.3	510.6
27.5°	901.5	909.1	823.3	796.3	563.7	540.5	443.9	514.4	560.7	563.7	558.9
30°	1230.6	1246.0	971.9	733.4	633.1	493.2	519.2	496.0	518.3	544.3	558.9
32.5°	1302.0	1278.8	1073.3	826.2	620.6	522.1	477.8	496.0	580.0	580.0	575.2
35°	1386.9	1369.6	1106.0	784.7	676.6	488.4	442.1	494.2	518.3	560.7	563.7
37.5°	1557.7	1548.1	1214.2	782.8	602.2	461.3	486.4	499.0	506.8	516.4	507.6
40°	1670.7	1596.4	1246.9	817.5	582.9	534.8	506.8	470.1	476.8	452.7	442.1
42.5°	1883.0	1758.5	1278.8	794.4	568.4	589.7	471.0	464.3	447.9	422.8	422.8
45°	2099.2	1939.9	1321.3	747.0	548.2	572.3	485.4	474.8	460.4	456.4	447.9
47.5°	2319.2	2105.0	1314.5	777.0	614.8	535.7	608.0	510.6	439.1	476.8	473.8
50°	2681.2	2373.3	1320.3	718.1	612.8	526.0	609.0	483.6	470.1	499.0	501.8
52.5°	2976.5	2555.7	1400.3	684.3	593.6	609.0	576.3	585.8	554.0	545.3	555.9
55°	3329.7	2789.3	1348.3	643.7	578.1	574.2	678.5	589.7	560.7	588.7	591.6
57.5°	3772.7	3114.6	1359.8	578.1	582.9	553.1	664.0	660.2	642.8	629.3	624.4
60°	4029.5	3218.8	1251.8	616.8	564.7	610.0	704.5	684.3	592.6	688.2	703.6
62.5°	4231.2	3380.9	986.4	610.0	627.3	582.1	646.6	667.9	624.4	696.8	705.5
65°	4280.4	3372.2	755.7	626.4	620.6	646.6	765.4	656.3	545.3	555.9	560.7
67°	4212.8	3296.1	612.8	596.4	629.3	622.6	633.1	563.7	503.8	514.4	522.1
67.5°	4174.2	3234.2	581.0	594.5	650.5	621.5	620.6	542.4	492.2	505.8	508.6
70°	3815.3	2897.3	486.4	586.8	644.7	564.7	580.0	477.8	434.3	439.1	441.1
72.5°	3267.1	2325.0	464.3	583.9	633.1	471.0	445.9	390.9	369.7	362.8	353.2
75°	2507.5	1602.2	458.5	526.9	520.2	356.1	357.1	325.3	327.2	312.7	306.9
77.5°	1510.5	897.6	389.9	445.9	389.9	272.2	295.3	288.6	296.3	280.9	271.2
80°	723.9	438.1	307.9	328.1	275.2	213.3	252.0	262.6	264.4	242.2	231.6
82.5°	309.9	226.8	208.4	205.6	195.9	165.1	203.7	214.2	216.3	202.6	162.1
85°	182.5	154.4	143.7	138.0	136.1	102.2	145.8	172.7	172.7	142.8	123.6
87.5°	113.8	113.0	101.4	101.4	106.2	72.4	100.4	118.8	112.0	84.9	67.5
90°	54.1	57.9	60.8	61.7	72.4	40.5	64.7	68.5	64.7	46.3	32.8
92.5°	43.4	49.2	53.1	55.0	65.7	34.8	57.9	61.7	58.9	46.3	32.8
95°	35.7	44.4	53.1	52.1	55.0	27.0	51.2	55.9	54.1	40.5	28.0
97.5°	29.0	35.7	43.4	43.4	50.1	23.2	47.3	53.1	52.1	36.7	27.0
100°	26.1	31.9	38.6	37.7	44.4	18.3	42.5	46.3	45.4	29.9	24.1
102.5°	23.2	26.1	29.9	29.9	32.8	15.4	31.9	35.7	33.8	25.1	24.1
105°	21.2	22.2	21.2	20.3	21.2	13.5	20.3	23.2	20.3	19.3	19.3
107.5°	20.3	20.3	17.4	16.4	15.4	11.6	14.5	15.4	13.5	17.4	19.3



REPORT NUMBER: P240962

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	20.3	19.3	15.4	14.5	12.6	10.6	11.6	11.6	11.6	17.4	18.3
112.5°	19.3	19.3	14.5	12.6	11.6	9.7	9.7	8.7	10.6	17.4	19.3
115°	19.3	18.3	13.5	11.6	9.7	8.7	7.7	7.7	9.7	17.4	19.3
117.5°	19.3	18.3	13.5	10.6	9.7	7.7	6.8	6.8	9.7	17.4	19.3
120°	19.3	19.3	13.5	9.7	8.7	7.7	6.8	6.8	9.7	16.4	18.3
122.5°	18.3	18.3	12.6	9.7	7.7	6.8	5.8	5.8	9.7	16.4	17.4
125°	17.4	17.4	12.6	8.7	6.8	5.8	5.8	5.8	9.7	15.4	17.4
127.5°	16.4	16.4	11.6	7.7	5.8	5.8	4.8	4.8	9.7	15.4	16.4
130°	15.4	15.4	10.6	6.8	5.8	4.8	3.9	4.8	9.7	14.5	15.4
132.5°	13.5	13.5	9.7	5.8	4.8	3.9	3.9	3.9	8.7	13.5	14.5
135°	11.6	11.6	8.7	5.8	4.8	3.9	2.9	3.9	7.7	11.6	12.6
137.5°	10.6	10.6	7.7	4.8	3.9	2.9	2.9	3.9	7.7	10.6	11.6
140°	7.7	7.7	5.8	3.9	2.9	2.9	1.9	2.9	6.8	8.7	9.7
142.5°	5.8	5.8	4.8	3.9	2.9	1.9	1.9	2.9	5.8	7.7	7.7
145°	4.8	4.8	3.9	2.9	2.9	1.9	1.0	1.9	4.8	6.8	6.8
147.5°	3.9	3.9	3.9	2.9	1.9	1.0	1.0	1.0	2.9	4.8	4.8
150°	2.9	2.9	2.9	2.9	1.9	0.0	0.0	0.0	1.9	2.9	2.9
152.5°	1.9	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	1.0	1.0
155°	1.0	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	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)