

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: P240960

Luminaire Tested: **UTLD-AF24-70-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240960
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-AF24-70-D-U-T3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 6657.2 lumens
Efficiency: N/A
Efficacy: 90.0 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): 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

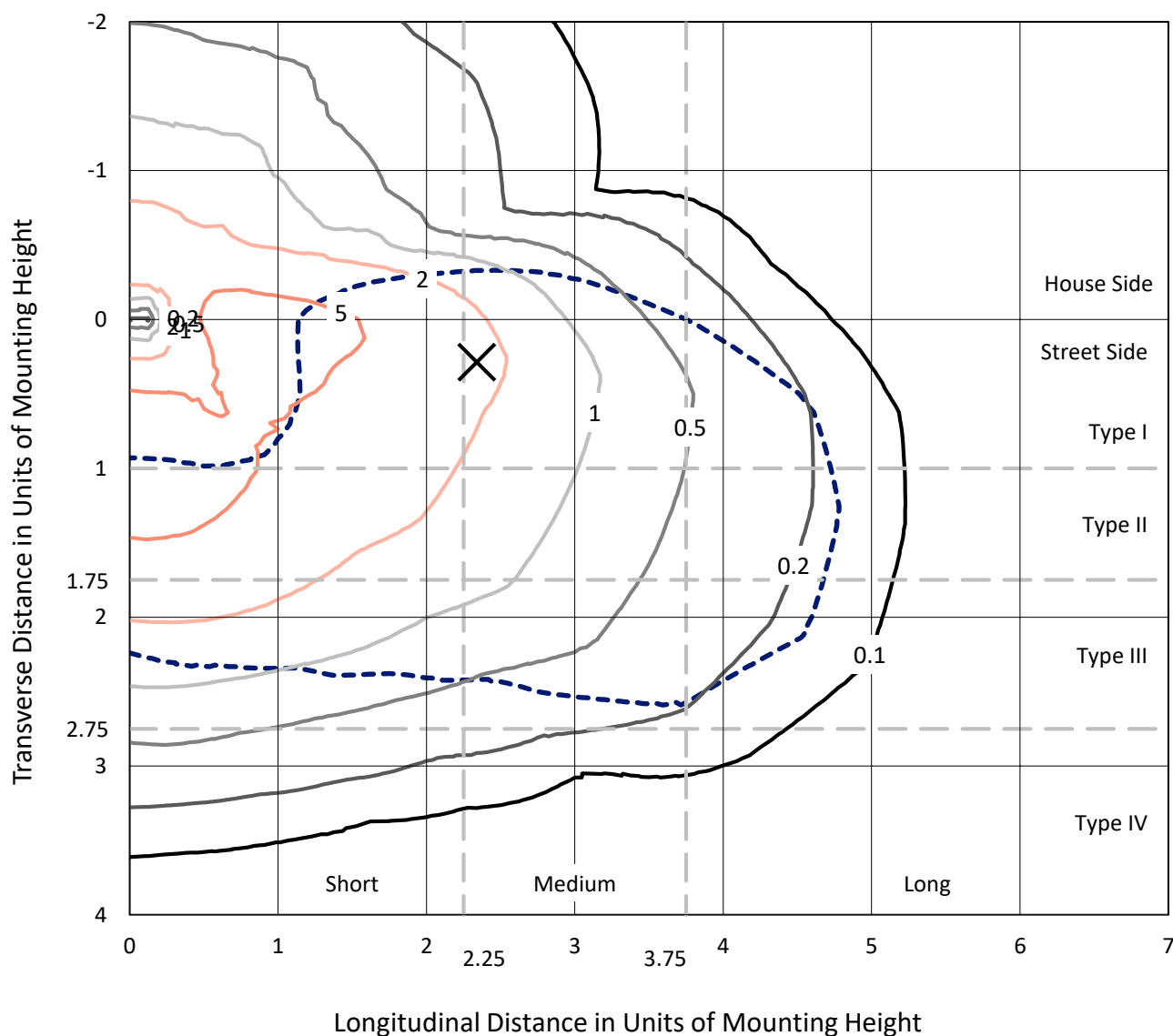


REPORT NUMBER: P240960

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

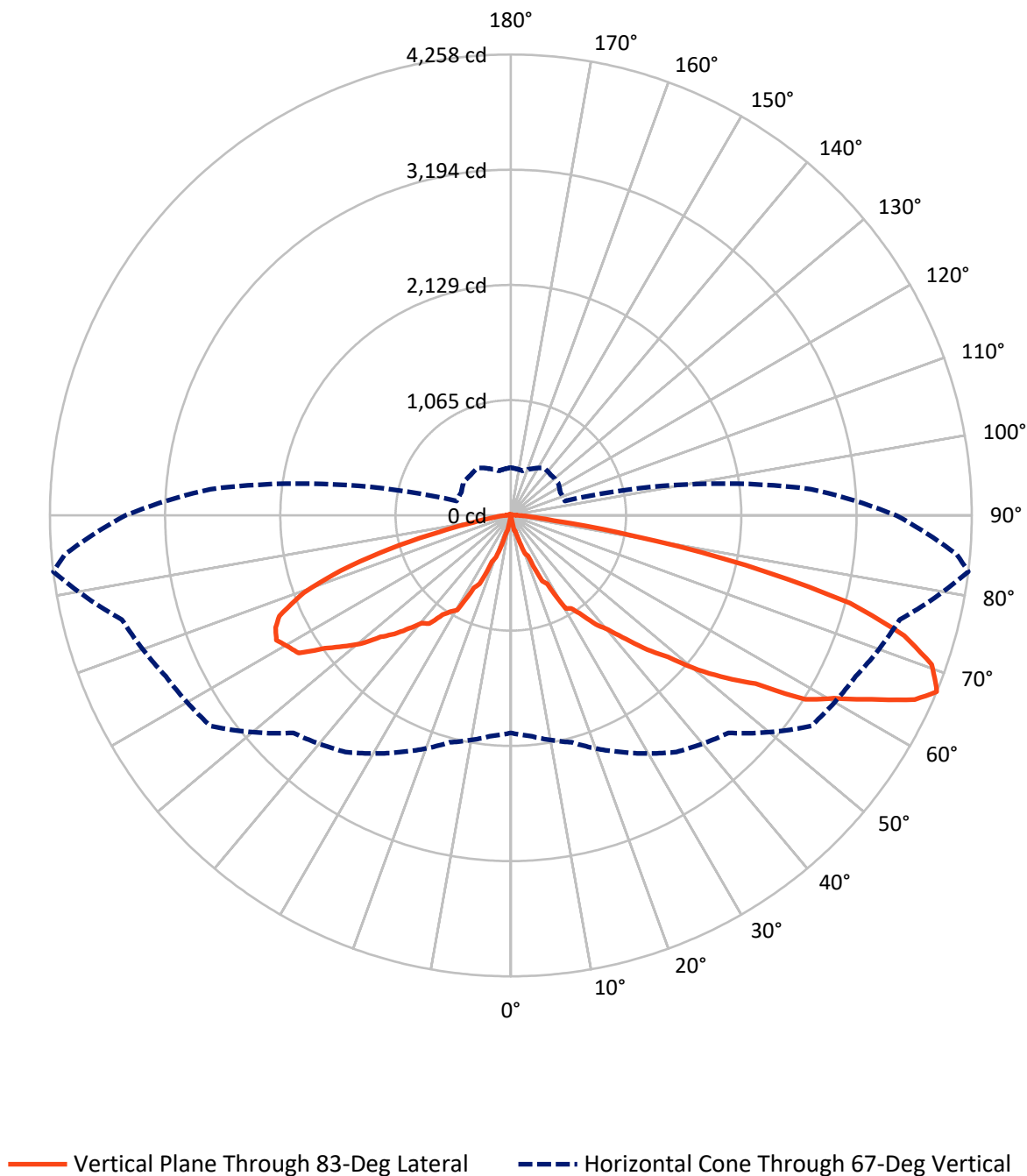


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P240960

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240960

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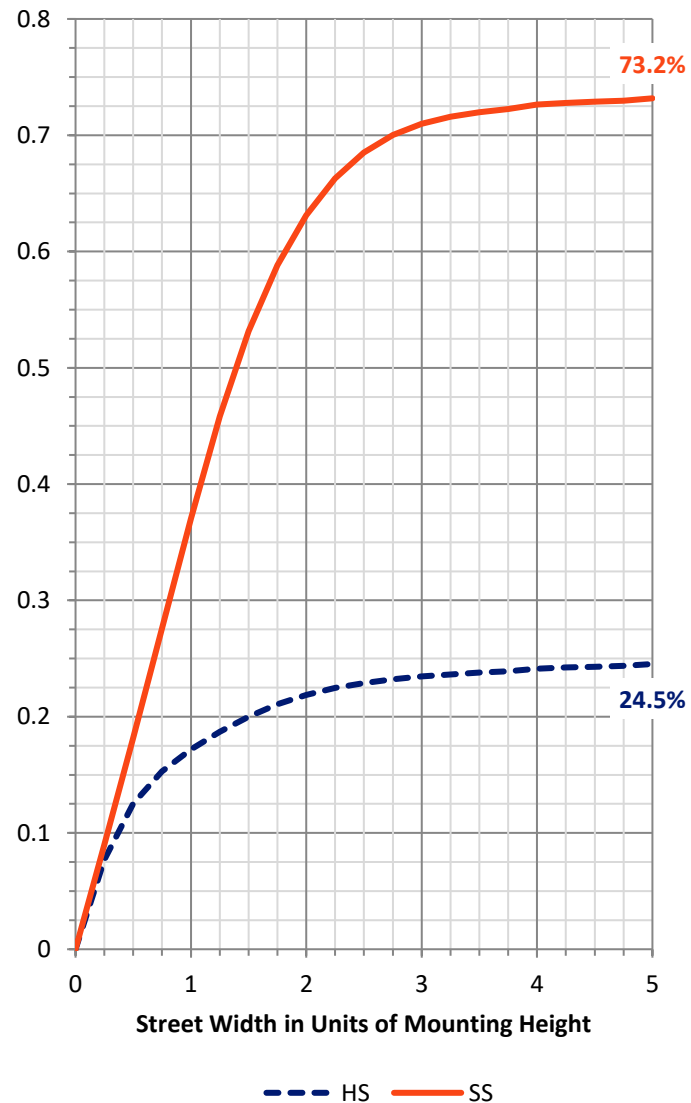
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.4	44.2	1714.6
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	4905.4	37.2	4942.6
	% Fixture	73.7	0.6	74.2
Total	Lumens	6575.8	81.4	6657.2
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	60.2	0.9
20°-30°	241.9	3.6
30°-40°	534.3	8.0
40°-50°	952.2	14.3
50°-60°	1528.1	23.0
60°-70°	1859.4	27.9
70°-80°	1198.1	18.0
80°-90°	196.8	3.0
90°-100°	40.5	0.6
100°-110°	18.5	0.3
110°-120°	9.3	0.1
120°-130°	6.7	0.1
130°-140°	4.1	0.1
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6575.8	98.8
0°-180°	6657.2	100.0

Coefficient of Utilization



REPORT NUMBER: P240960

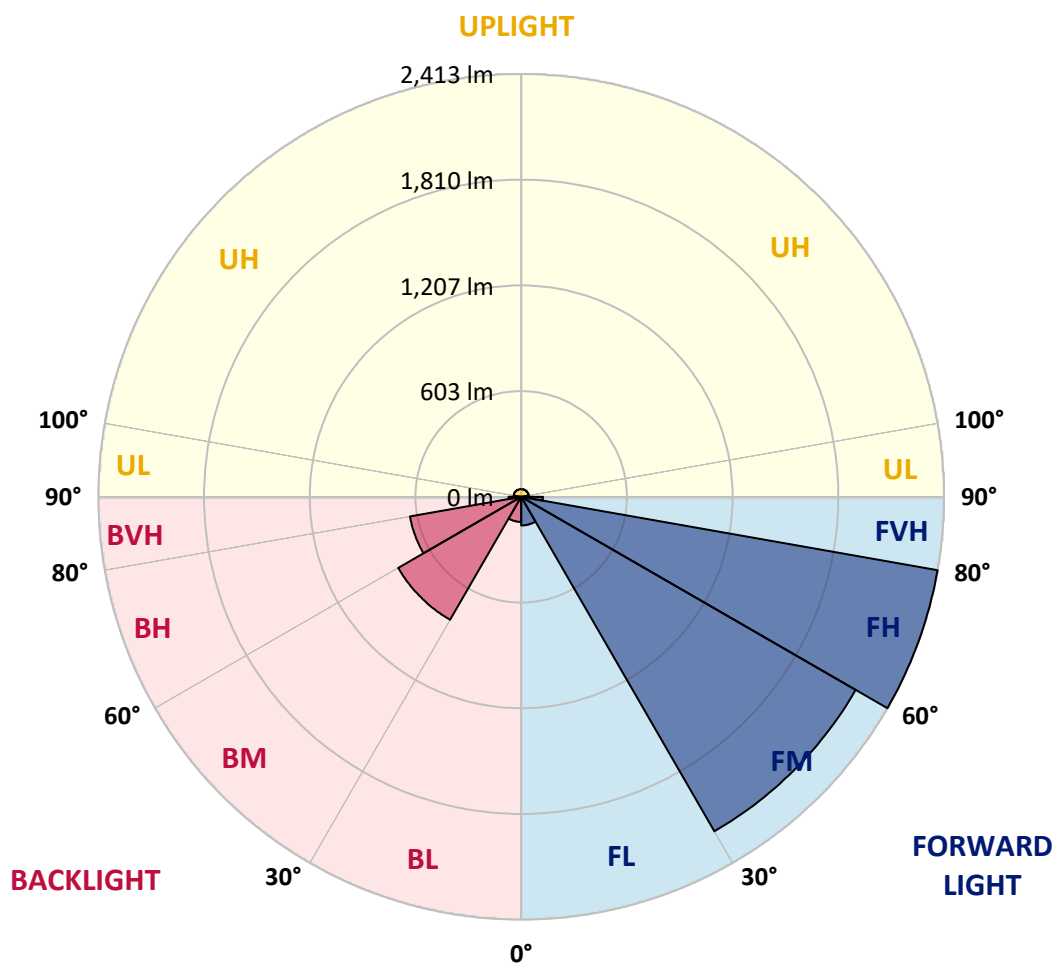
CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.5	2.5			
FM	(30°-60°)	2204.2	33.1			
FH	(60°-80°)	2413.2	36.2			G2/5000
FVH	(80°-90°)	124.5	1.9			G2/225
BL	(0°-30°)	143.3	2.2	B1/500		
BM	(30°-60°)	810.4	12.2	B1/1000		
BH	(60°-80°)	644.4	9.7	B2/1000		G2/1000
BVH	(80°-90°)	72.3	1.1			G1/100
UL	(90°-100°)	40.5	0.6		U2/50	
UH	(100°-180°)	44.2	0.7		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





REPORT NUMBER: P240960

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	33.5	33.5	33.5	30.1	26.1	21.2	18.8	16.3	15.6	15.6	15.6
5°	74.2	77.5	74.2	73.4	66.1	80.8	32.7	22.1	16.3	14.6	14.6
7.5°	105.2	106.8	86.5	80.0	64.5	88.1	70.9	40.0	20.4	16.3	15.6
10°	182.7	157.5	133.8	132.1	124.0	93.0	63.6	57.2	31.8	24.5	25.2
12.5°	177.0	181.9	178.6	172.9	159.1	133.0	84.7	109.3	119.8	141.1	133.0
15°	217.0	213.7	189.2	190.8	181.1	192.6	172.1	181.9	171.3	149.2	155.8
17.5°	336.1	324.6	340.2	261.0	190.8	234.1	238.1	212.8	227.6	234.9	261.0
20°	384.1	367.8	387.5	331.9	316.5	265.9	253.7	385.8	359.7	377.6	380.9
22.5°	531.0	522.0	465.8	380.1	404.6	339.2	362.0	400.4	408.6	404.6	417.6
25°	669.6	668.7	662.3	584.7	431.5	481.2	418.5	456.7	589.7	671.3	678.6
27.5°	792.7	786.2	739.8	717.8	604.4	543.2	499.2	632.9	675.3	714.4	723.4
30°	1002.5	1044.8	944.4	816.3	731.6	625.6	671.3	668.0	813.2	997.5	1007.3
32.5°	1176.9	1153.3	1048.9	941.3	854.7	773.2	707.1	933.1	973.1	1023.6	1046.4
35°	1434.7	1443.7	1333.5	1049.7	978.8	866.2	924.9	1013.1	1040.7	1124.8	1131.3
37.5°	1499.1	1570.0	1505.6	1258.5	1040.7	947.0	995.1	1108.4	1199.7	1277.2	1228.3
40°	1783.0	1747.0	1609.2	1410.2	1168.7	1060.4	1216.9	1283.8	1297.7	1388.1	1399.6
42.5°	2061.0	2076.6	1906.1	1653.3	1335.1	1232.5	1369.4	1351.5	1483.6	1562.0	1604.4
45°	2331.9	2339.2	2204.7	1884.9	1601.8	1519.5	1452.6	1529.3	1749.5	1768.3	1778.8
47.5°	2515.3	2516.2	2459.1	2137.7	1827.1	1641.1	1619.9	1702.3	1920.8	1954.2	1964.1
50°	2801.6	2794.3	2662.9	2306.6	2124.6	1881.7	1964.1	1933.1	2122.3	2243.0	2269.1
52.5°	2914.3	2877.6	2807.4	2552.1	2392.2	2151.7	2114.0	2170.3	2386.5	2495.8	2582.3
55°	2840.8	2904.4	2891.4	2707.9	2471.3	2389.0	2291.0	2502.4	2575.8	2743.7	2897.1
57.5°	2688.4	2797.6	2848.9	2780.4	2651.6	2464.8	2640.1	2608.3	2889.8	3207.9	3310.7
60°	2583.9	2651.6	2755.9	2839.2	2745.3	2676.9	2847.3	3013.7	3121.4	3431.3	3568.3
62.5°	2396.3	2460.7	2627.9	2748.6	2695.7	2718.5	3077.4	3164.5	3481.9	3740.5	3927.3
65°	2173.6	2234.1	2429.7	2556.1	2682.6	2772.4	3223.3	3392.2	3617.2	4101.8	4127.9
67°	2009.8	2044.8	2169.6	2412.7	2667.1	2841.7	3389.8	3516.9	3719.3	4258.4	4135.3
67.5°	1955.0	1989.3	2091.2	2343.3	2658.2	2852.2	3437.1	3553.6	3733.9	4242.1	4133.6
70°	1504.8	1626.4	1628.8	1869.4	2373.4	2774.0	3521.1	3680.1	3822.9	4124.6	3990.8
72.5°	901.3	901.3	942.9	1179.4	1682.6	2481.2	3521.1	3636.0	3759.2	3800.0	3574.9
75°	436.4	415.9	472.2	566.1	847.5	1673.7	3173.6	3332.6	3348.1	3237.3	2899.5
77.5°	359.7	312.4	296.8	290.4	454.3	626.4	2120.6	2601.8	2602.7	2220.9	1943.6
80°	225.1	227.6	234.1	201.5	260.1	323.9	845.7	1584.8	1440.4	1154.1	972.2
82.5°	159.1	164.8	167.1	149.2	181.9	151.7	281.4	668.7	582.4	402.1	340.9
85°	111.8	108.5	121.5	101.2	109.3	89.7	154.9	287.9	327.9	199.0	188.4
87.5°	66.8	66.8	81.6	68.5	75.1	64.5	93.8	141.1	163.2	112.5	105.2
90°	40.0	36.7	38.4	39.2	42.4	36.7	50.6	67.7	70.9	57.2	52.2
92.5°	30.1	30.1	32.7	31.0	38.4	33.5	44.0	53.0	64.5	48.9	45.7
95°	19.5	22.1	24.5	25.2	29.4	25.2	36.7	43.2	48.1	37.4	35.8
97.5°	17.9	19.5	21.2	21.2	24.5	20.4	30.1	38.4	38.4	29.4	26.9
100°	17.2	17.9	18.8	18.8	20.4	16.3	23.6	33.5	33.5	24.5	22.8
102.5°	15.6	16.3	15.6	14.6	17.2	13.0	19.5	29.4	23.6	18.8	19.5
105°	15.6	15.6	13.8	12.2	13.8	10.6	17.2	21.2	16.3	15.6	16.3
107.5°	14.6	14.6	11.5	10.6	11.5	9.0	13.8	14.6	13.0	14.6	15.6



REPORT NUMBER: P240960

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	13.8	13.0	10.6	9.0	9.0	8.2	10.6	10.6	10.6	13.8	15.6
112.5°	12.2	11.5	9.0	7.3	7.3	6.5	7.3	8.2	9.9	13.0	14.6
115°	11.5	10.6	8.2	6.5	5.7	5.7	6.5	6.5	9.0	13.0	14.6
117.5°	11.5	10.6	7.3	6.5	4.9	4.9	5.7	6.5	9.0	13.0	14.6
120°	10.6	10.6	7.3	5.7	4.9	4.1	4.9	5.7	9.0	13.8	14.6
122.5°	10.6	9.9	7.3	5.7	4.1	4.1	4.1	4.9	8.2	13.0	13.8
125°	9.9	9.9	6.5	4.9	4.1	3.3	4.1	4.9	9.0	13.0	13.8
127.5°	9.9	9.0	6.5	4.9	3.3	3.3	4.1	4.1	8.2	12.2	13.0
130°	9.9	9.0	6.5	4.1	3.3	3.3	3.3	4.1	8.2	11.5	12.2
132.5°	8.2	8.2	5.7	4.1	3.3	2.4	3.3	3.3	6.5	9.9	10.6
135°	8.2	7.3	5.7	4.1	3.3	2.4	2.4	3.3	6.5	9.0	9.0
137.5°	7.3	6.5	5.7	4.1	2.4	2.4	1.6	2.4	5.7	7.3	8.2
140°	6.5	6.5	4.9	4.1	2.4	1.6	1.6	2.4	4.1	5.7	6.5
142.5°	6.5	6.5	5.7	4.1	2.4	1.6	1.6	1.6	3.3	4.9	4.9
145°	5.7	5.7	4.9	3.3	1.6	0.8	0.8	1.6	2.4	3.3	4.1
147.5°	5.7	5.7	4.9	3.3	1.6	0.8	0.8	1.6	2.4	3.3	3.3
150°	4.9	4.9	4.1	2.4	0.8	0.0	0.0	0.8	1.6	2.4	2.4
152.5°	3.3	3.3	2.4	1.6	0.0	0.0	0.0	0.8	1.6	1.6	1.6
155°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	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: P240960

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	15.6	15.6	15.6	15.6	15.6	15.6	14.6	14.6	14.6	14.6	14.6
5°	13.8	13.8	14.6	14.6	14.6	14.6	14.6	15.6	16.3	16.3	17.2
7.5°	15.6	15.6	14.6	14.6	15.6	17.2	27.8	58.7	110.9	102.8	101.9
10°	24.5	24.5	22.1	20.4	22.1	80.0	125.6	119.1	100.3	97.9	94.6
12.5°	154.9	144.3	116.6	73.4	106.8	101.2	117.5	137.8	179.4	188.4	181.9
15°	155.8	162.4	175.4	190.0	240.6	106.8	207.1	253.7	270.8	270.8	276.5
17.5°	270.8	291.9	224.3	202.2	239.9	293.6	231.6	257.8	255.3	256.1	248.8
20°	440.5	398.0	438.7	394.0	269.1	328.7	288.8	276.5	372.8	443.7	443.7
22.5°	436.4	462.5	456.7	452.7	473.8	291.9	368.6	400.4	415.1	396.4	424.9
25°	728.3	700.6	662.3	451.9	454.3	406.2	398.0	373.5	406.2	438.0	431.5
27.5°	761.7	768.3	695.8	672.9	476.4	456.7	375.2	434.8	473.8	476.4	472.2
30°	1039.9	1052.9	821.3	619.8	535.1	416.9	438.7	419.2	438.0	460.0	472.2
32.5°	1100.2	1080.7	907.0	698.1	524.5	441.3	403.7	419.2	490.1	490.1	486.1
35°	1172.1	1157.4	934.7	663.1	571.8	412.7	373.5	417.6	438.0	473.8	476.4
37.5°	1316.5	1308.3	1026.1	661.4	508.9	389.8	411.1	421.6	428.2	436.4	429.1
40°	1411.8	1349.1	1053.8	690.8	492.6	451.9	428.2	397.1	402.9	382.5	373.5
42.5°	1591.3	1486.0	1080.7	671.3	480.4	498.3	398.0	392.3	378.5	357.3	357.3
45°	1774.0	1639.4	1116.6	631.3	463.3	483.7	410.3	401.3	389.1	385.8	378.5
47.5°	1959.9	1778.8	1110.8	656.5	519.5	452.7	513.8	431.5	371.2	402.9	400.4
50°	2265.8	2005.6	1115.7	606.8	517.9	444.4	514.6	408.6	397.1	421.6	424.2
52.5°	2515.3	2159.7	1183.5	578.3	501.6	514.6	487.0	495.1	468.1	460.8	469.9
55°	2813.9	2357.2	1139.5	544.0	488.6	485.3	573.4	498.3	473.8	497.5	500.0
57.5°	3188.3	2632.0	1149.2	488.6	492.6	467.3	561.1	557.9	543.2	531.8	527.7
60°	3405.2	2720.1	1057.8	521.1	477.1	515.4	595.4	578.3	500.9	581.6	594.6
62.5°	3575.7	2857.1	833.5	515.4	530.1	491.7	546.6	564.5	527.7	588.9	596.2
65°	3617.2	2849.8	638.6	529.4	524.5	546.6	646.9	554.6	460.8	469.9	473.8
67°	3560.2	2785.3	517.9	504.0	531.8	526.1	535.1	476.4	425.8	434.8	441.3
67.5°	3527.6	2733.1	491.0	502.4	549.7	525.2	524.5	458.4	415.9	427.4	429.8
70°	3224.1	2448.5	411.1	495.9	544.8	477.1	490.1	403.7	367.0	371.2	372.8
72.5°	2760.9	1964.8	392.3	493.5	535.1	398.0	376.8	330.3	312.4	306.7	298.5
75°	2119.0	1353.9	387.5	445.3	439.7	301.0	301.8	274.9	276.5	264.3	259.4
77.5°	1276.4	758.5	329.5	376.8	329.5	230.0	249.5	243.8	250.4	237.3	229.2
80°	611.8	370.3	260.1	277.3	232.5	180.3	212.8	221.8	223.4	204.8	195.8
82.5°	261.7	191.6	176.1	173.7	165.5	139.6	172.1	181.1	182.7	171.3	137.0
85°	154.2	130.4	121.5	116.6	115.0	86.5	123.1	146.0	146.0	120.7	104.5
87.5°	96.2	95.4	85.7	85.7	89.7	61.1	84.7	100.3	94.6	71.8	57.2
90°	45.7	48.9	51.4	52.2	61.1	34.3	54.6	57.9	54.6	39.2	27.8
92.5°	36.7	41.6	44.9	46.6	55.5	29.4	48.9	52.2	49.7	39.2	27.8
95°	30.1	37.4	44.9	44.0	46.6	22.8	43.2	47.3	45.7	34.3	23.6
97.5°	24.5	30.1	36.7	36.7	42.4	19.5	40.0	44.9	44.0	31.0	22.8
100°	22.1	26.9	32.7	31.8	37.4	15.6	35.8	39.2	38.4	25.2	20.4
102.5°	19.5	22.1	25.2	25.2	27.8	13.0	26.9	30.1	28.5	21.2	20.4
105°	17.9	18.8	17.9	17.2	17.9	11.5	17.2	19.5	17.2	16.3	16.3
107.5°	17.2	17.2	14.6	13.8	13.0	9.9	12.2	13.0	11.5	14.6	16.3



REPORT NUMBER: P240960

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	17.2	16.3	13.0	12.2	10.6	9.0	9.9	9.9	9.9	14.6	15.6
112.5°	16.3	16.3	12.2	10.6	9.9	8.2	8.2	7.3	9.0	14.6	16.3
115°	16.3	15.6	11.5	9.9	8.2	7.3	6.5	6.5	8.2	14.6	16.3
117.5°	16.3	15.6	11.5	9.0	8.2	6.5	5.7	5.7	8.2	14.6	16.3
120°	16.3	16.3	11.5	8.2	7.3	6.5	5.7	5.7	8.2	13.8	15.6
122.5°	15.6	15.6	10.6	8.2	6.5	5.7	4.9	4.9	8.2	13.8	14.6
125°	14.6	14.6	10.6	7.3	5.7	4.9	4.9	4.9	8.2	13.0	14.6
127.5°	13.8	13.8	9.9	6.5	4.9	4.9	4.1	4.1	8.2	13.0	13.8
130°	13.0	13.0	9.0	5.7	4.9	4.1	3.3	4.1	8.2	12.2	13.0
132.5°	11.5	11.5	8.2	4.9	4.1	3.3	3.3	3.3	7.3	11.5	12.2
135°	9.9	9.9	7.3	4.9	4.1	3.3	2.4	3.3	6.5	9.9	10.6
137.5°	9.0	9.0	6.5	4.1	3.3	2.4	2.4	3.3	6.5	9.0	9.9
140°	6.5	6.5	4.9	3.3	2.4	2.4	1.6	2.4	5.7	7.3	8.2
142.5°	4.9	4.9	4.1	3.3	2.4	1.6	1.6	2.4	4.9	6.5	6.5
145°	4.1	4.1	3.3	2.4	2.4	1.6	0.8	1.6	4.1	5.7	5.7
147.5°	3.3	3.3	3.3	2.4	1.6	0.8	0.8	0.8	2.4	4.1	4.1
150°	2.4	2.4	2.4	2.4	1.6	0.0	0.0	0.0	1.6	2.4	2.4
152.5°	1.6	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.8	0.8
155°	0.8	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	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)