

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: P239885

Luminaire Tested: **UTLD-AF24-30-D-U-T3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2857 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 31
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



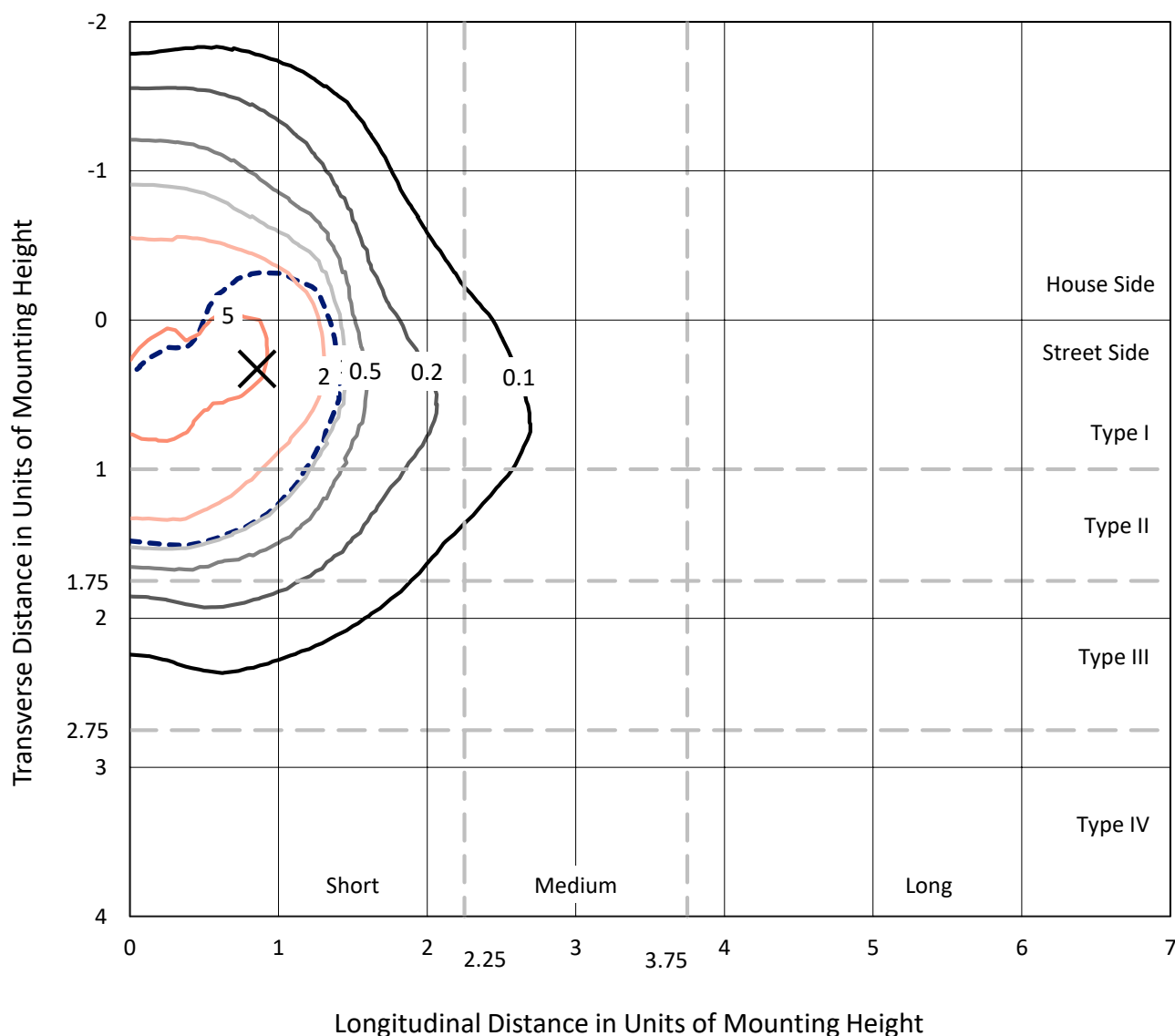
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

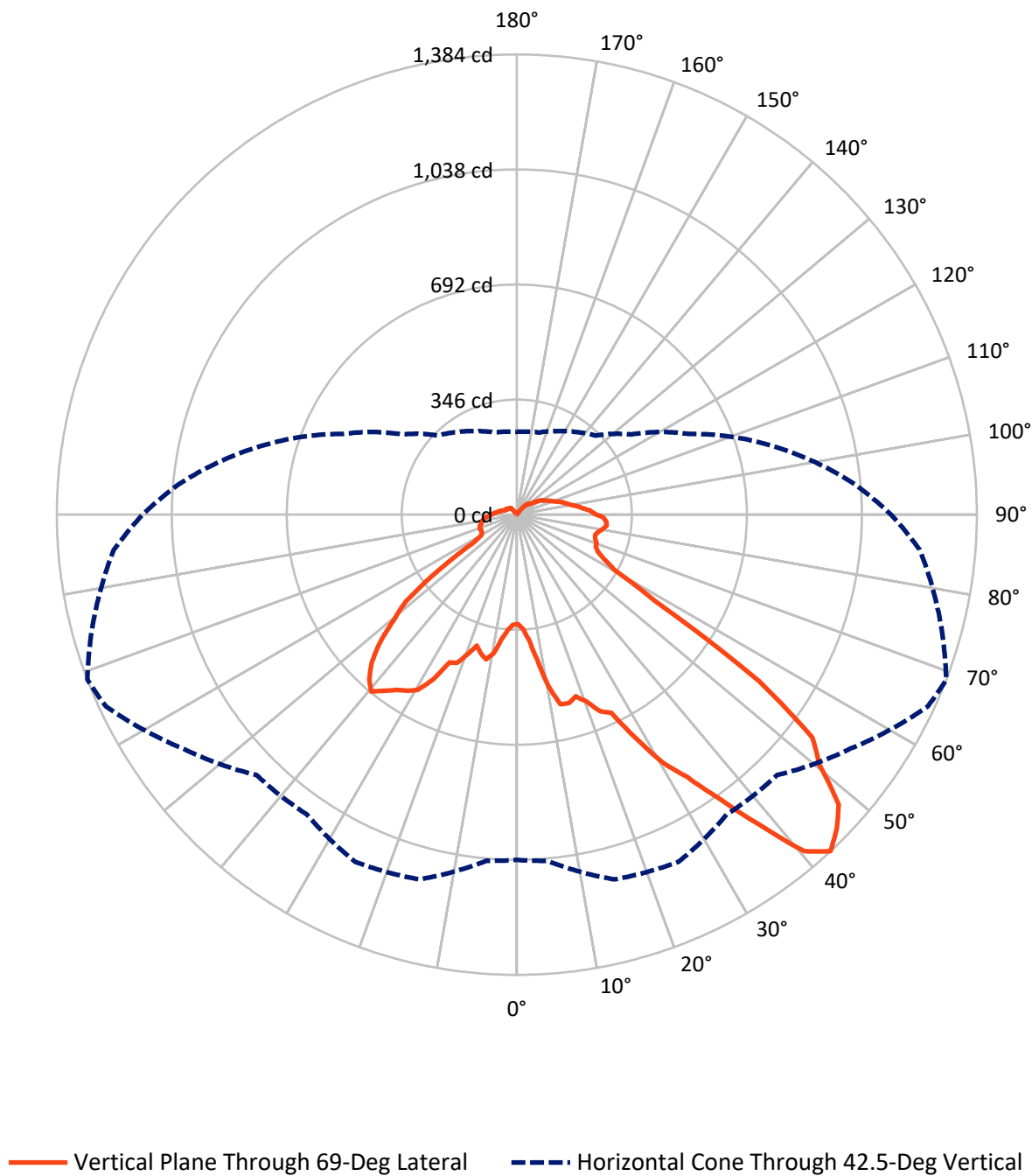


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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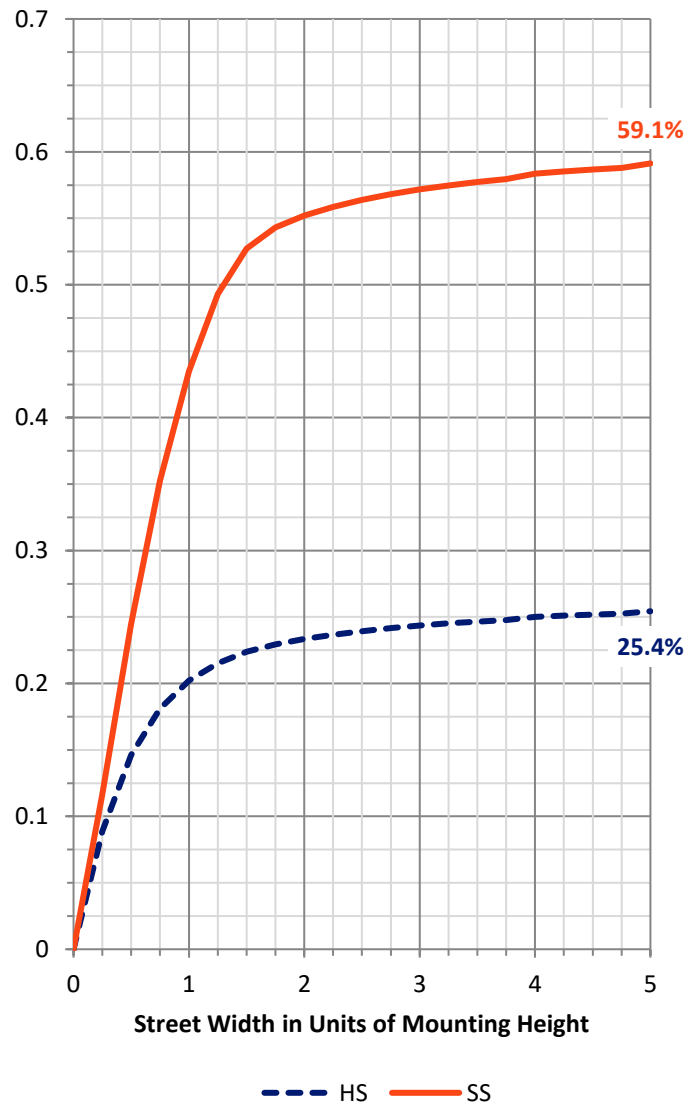
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	752.8	90.7	843.5
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	1744.4	269.2	2013.5
	% Fixture	61.1	9.4	70.5
Total	Lumens	2497.1	359.9	2857.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	1.3
10°-20°	137.4	4.8
20°-30°	281.1	9.8
30°-40°	472.8	16.5
40°-50°	625.9	21.9
50°-60°	451.3	15.8
60°-70°	177.3	6.2
70°-80°	159.8	5.6
80°-90°	155.7	5.4
90°-100°	131.3	4.6
100°-110°	93.4	3.3
110°-120°	62.9	2.2
120°-130°	41.2	1.4
130°-140°	24.6	0.9
140°-150°	6.2	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2497.1	87.4
0°-180°	2857.0	100.0

Coefficient of Utilization



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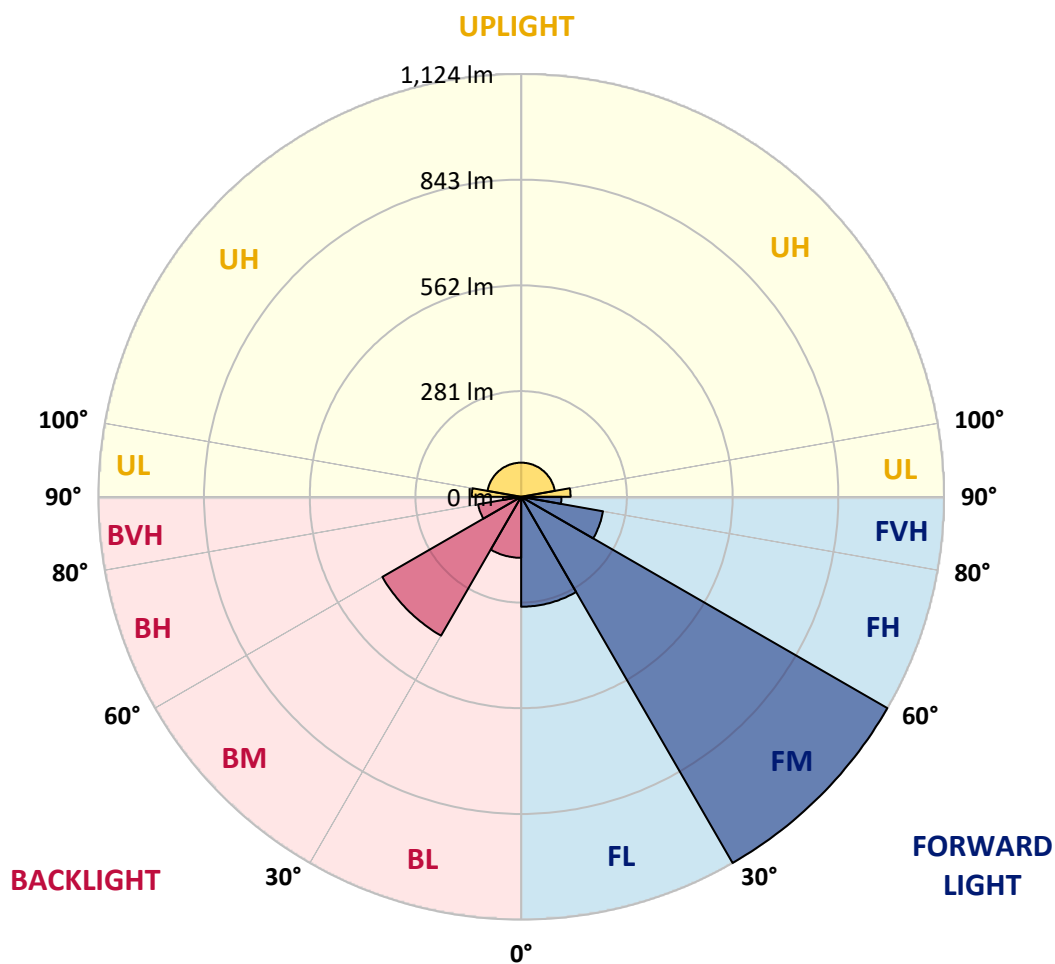
CATALOG NUMBER: UTLD-AF24-30-D-U-T3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.2	10.2			
FM	(30°-60°)	1123.9	39.3			
FH	(60°-80°)	220.9	7.7			G0/660
FVH	(80°-90°)	107.3	3.8			G2/225
BL	(0°-30°)	162.1	5.7	B1/500		
BM	(30°-60°)	426.1	14.9	B1/1000		
BH	(60°-80°)	116.1	4.1	B1/500		G1/500
BVH	(80°-90°)	48.4	1.7			G1/100
UL	(90°-100°)	131.3	4.6		U3/500	
UH	(100°-180°)	90.7	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7
2.5°	350.1	348.2	347.4	347.4	346.2	345.9	346.6	345.5	343.5	343.1	340.8
5°	374.6	373.9	373.5	376.6	379.3	380.1	379.3	379.3	377.0	377.0	369.6
7.5°	413.9	412.8	415.9	423.7	426.4	434.6	444.3	438.5	440.0	435.7	421.7
10°	459.5	457.5	471.9	482.4	506.5	516.6	529.1	527.9	525.6	518.2	494.9
12.5°	500.7	499.5	518.2	556.3	588.6	621.3	624.0	597.2	585.1	558.7	529.5
15°	552.1	553.2	581.6	635.7	683.5	696.8	663.7	610.8	588.2	561.0	517.8
17.5°	634.9	638.8	687.1	748.5	780.4	727.1	656.3	595.6	574.2	544.7	503.0
20°	683.2	685.5	751.6	834.9	844.2	757.9	684.3	619.0	600.3	577.0	542.7
22.5°	711.9	720.5	796.4	898.3	892.9	829.4	727.5	665.7	642.3	610.4	582.4
25°	758.2	764.5	837.2	935.6	911.5	852.8	766.0	683.5	660.6	637.3	609.2
27.5°	820.9	826.7	908.4	965.2	939.9	883.9	823.6	770.7	758.6	754.7	742.7
30°	854.3	858.2	950.0	997.9	954.7	928.6	911.9	869.5	866.0	858.2	830.6
32.5°	873.4	888.2	994.8	1022.4	966.0	962.9	973.0	946.9	939.9	926.7	894.8
35°	890.5	897.9	998.3	1040.3	984.3	982.7	1052.4	1064.4	1048.9	1021.6	945.4
37.5°	1022.4	1025.9	1094.8	1080.0	1008.4	1017.0	1131.7	1194.4	1180.4	1146.5	1094.0
40°	1094.0	1100.2	1164.0	1133.3	1059.4	1069.1	1188.9	1318.9	1331.3	1330.1	1284.2
42.5°	1038.4	1045.0	1135.6	1152.0	1101.0	1107.6	1226.3	1364.4	1384.2	1323.1	1217.3
45°	1219.7	1224.7	1275.7	1156.2	1072.6	1097.9	1197.1	1331.3	1349.2	1331.3	1240.7
47.5°	1219.3	1213.0	1255.4	1168.3	1070.6	1053.5	1133.7	1267.9	1303.3	1262.4	1164.0
50°	1071.8	1071.4	1176.1	1125.9	1049.6	1010.0	1064.0	1170.2	1178.8	1130.9	999.1
52.5°	936.0	935.3	1056.3	1030.6	980.8	941.9	975.3	1081.2	1113.8	1071.8	961.7
55°	815.8	849.3	955.5	900.6	880.0	841.5	875.0	901.0	884.3	767.6	517.8
57.5°	494.1	531.0	669.5	709.2	713.9	686.3	610.4	521.3	489.4	391.0	233.4
60°	230.3	239.3	351.3	427.6	521.7	477.0	385.9	336.1	336.1	295.3	202.7
62.5°	162.2	168.5	230.7	275.8	312.4	308.1	273.9	280.9	294.9	276.6	195.3
65°	152.5	156.4	205.4	219.0	233.0	235.8	231.1	252.5	267.3	264.9	198.0
67.5°	141.6	146.7	187.5	196.5	207.4	212.4	215.9	240.8	256.4	264.9	205.8
70°	128.8	134.6	173.1	185.6	196.1	207.7	212.0	238.9	254.8	263.4	208.5
72.5°	116.7	121.8	154.1	169.6	188.3	201.9	219.0	235.4	246.3	255.2	210.1
75°	105.0	110.9	138.1	156.0	177.8	203.5	224.1	236.1	243.5	250.5	208.1
77.5°	97.3	103.5	124.9	145.5	171.6	207.0	230.3	245.9	250.2	251.3	205.8
80°	90.3	97.3	119.8	141.6	170.0	208.5	237.7	256.4	262.2	264.9	219.0
82.5°	95.3	101.5	121.0	147.4	175.1	208.1	235.8	265.3	271.9	270.4	223.3
85°	107.8	112.8	136.6	161.5	182.9	204.6	228.8	261.0	270.4	278.6	236.5
87.5°	131.1	133.4	150.6	173.5	191.0	198.0	222.1	252.5	261.0	263.8	230.3
90°	143.6	145.9	166.1	185.2	190.6	193.0	198.0	228.4	234.6	245.5	220.2
92.5°	158.0	158.0	179.0	190.2	190.2	180.5	184.0	211.3	221.8	228.0	204.6
95°	172.0	171.2	182.9	189.5	179.3	165.7	171.6	193.0	199.6	206.2	190.2
97.5°	176.2	175.8	182.9	179.0	162.2	149.4	156.8	175.1	182.1	189.1	172.7
100°	171.6	169.6	171.6	163.0	147.4	137.7	142.0	157.2	164.6	170.4	155.6
102.5°	161.5	160.3	161.1	152.5	136.2	124.5	130.3	146.3	151.7	156.4	143.2
105°	156.8	154.8	151.3	138.9	122.9	114.8	119.8	135.8	140.8	150.2	139.3
107.5°	133.4	131.9	129.2	122.5	114.4	108.2	112.4	123.7	126.8	131.5	121.4
110°	115.2	114.4	113.6	112.0	107.0	102.7	105.0	111.3	115.2	118.7	108.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	111.3	110.1	109.3	106.6	100.0	95.3	96.9	103.9	106.2	107.4	96.5
115°	106.2	105.0	100.8	96.9	92.2	89.9	90.3	96.1	97.6	98.4	91.8
117.5°	94.1	93.0	90.3	88.7	86.0	84.8	86.8	89.9	90.3	90.6	84.8
120°	87.1	86.8	85.2	82.5	80.5	77.8	80.9	84.0	85.2	86.4	82.5
122.5°	79.4	78.6	77.0	73.5	73.5	72.0	71.6	73.5	73.9	77.0	75.1
125°	70.0	69.2	67.7	64.6	68.5	68.5	65.7	61.5	62.6	65.4	63.8
127.5°	62.6	61.9	60.3	58.7	64.2	66.1	61.5	53.7	54.5	55.2	54.1
130°	61.5	60.7	58.7	56.0	57.6	63.4	55.2	49.0	50.2	51.0	50.2
132.5°	60.3	59.9	57.2	53.7	51.7	57.2	47.9	46.3	47.5	48.6	47.9
135°	56.4	56.0	53.7	48.6	43.2	45.9	38.1	40.5	42.4	44.0	43.2
137.5°	50.2	49.8	47.9	42.8	35.4	33.1	29.2	34.6	36.2	38.1	38.1
140°	40.5	40.1	38.1	33.1	24.9	17.5	18.7	26.5	28.0	30.3	30.7
142.5°	29.6	28.8	26.8	22.2	14.0	5.8	10.5	16.0	17.9	20.2	21.8
145°	20.2	19.8	17.1	13.2	6.6	0.8	4.7	9.7	10.9	12.4	14.0
147.5°	12.8	12.8	10.9	7.4	1.9	0.8	1.2	5.1	6.2	7.8	8.9
150°	7.8	7.8	5.8	2.3	0.4	0.4	0.4	0.8	1.9	3.5	4.7
152.5°	1.9	1.9	1.2	0.8	0.4	0.0	0.4	0.4	0.4	0.4	0.8
155°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.0	0.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7
2.5°	339.6	337.3	334.2	329.9	325.6	321.3	317.1	314.7	313.6	312.8	312.4
5°	367.6	362.6	354.4	343.1	329.1	321.0	315.1	308.1	303.5	301.9	300.7
7.5°	417.1	408.9	392.5	368.4	351.3	327.2	306.6	293.3	283.6	278.2	278.2
10°	483.2	471.5	443.1	410.1	366.1	323.7	291.8	267.7	256.4	251.7	250.5
12.5°	512.4	501.1	467.6	429.1	382.4	333.0	292.6	263.8	250.2	244.7	245.5
15°	497.6	482.0	453.2	417.1	380.5	349.4	315.5	279.7	256.4	250.2	252.1
17.5°	482.8	466.9	436.1	396.0	360.3	339.6	315.9	291.8	269.6	260.7	259.1
20°	526.0	514.3	472.7	427.2	373.5	321.3	304.6	293.7	286.3	286.7	283.2
22.5°	567.2	551.3	513.1	459.8	401.9	356.4	329.1	314.7	306.6	310.1	310.5
25°	594.8	582.8	526.4	462.6	414.3	380.5	341.2	321.0	307.3	307.3	305.8
27.5°	735.3	705.3	615.9	518.2	446.2	390.2	342.7	319.4	302.3	297.2	298.0
30°	808.8	779.3	676.9	558.3	482.8	413.6	347.0	310.8	306.6	303.1	304.2
32.5°	871.8	828.3	707.3	568.8	476.2	417.1	356.4	312.8	292.2	288.7	290.2
35°	903.0	854.3	731.4	578.1	479.3	402.3	345.1	304.6	291.4	287.9	289.1
37.5°	1046.5	973.8	769.5	592.1	478.5	382.8	329.9	297.2	272.7	262.2	262.2
40°	1211.5	1104.5	836.1	591.3	449.0	366.1	313.2	282.8	263.4	255.2	254.8
42.5°	1125.9	1024.0	797.1	573.8	420.2	335.7	303.8	276.6	255.6	250.2	249.0
45°	1161.7	1052.8	769.1	524.8	377.0	311.6	281.7	262.6	238.5	226.0	225.6
47.5°	1048.1	960.5	711.9	462.6	339.6	273.9	255.2	242.8	227.6	217.1	215.9
50°	909.2	820.9	599.1	410.1	289.4	242.8	229.9	223.7	208.5	196.5	197.2
52.5°	868.7	761.7	522.1	357.9	249.0	211.6	205.4	198.4	183.2	169.2	170.8
55°	430.7	356.8	317.5	278.2	208.9	184.0	181.3	177.0	161.8	149.8	150.2
57.5°	200.7	173.1	151.7	161.5	157.6	159.9	158.7	156.0	141.6	124.5	123.3
60°	179.7	154.1	128.8	122.2	129.6	139.7	138.9	130.3	112.0	91.8	89.5
62.5°	173.5	147.4	124.9	115.2	118.3	124.9	120.2	109.3	94.5	75.9	75.5
65°	176.6	149.0	124.5	112.4	114.8	117.5	110.9	103.1	94.1	81.3	81.3
67.5°	183.2	154.8	127.2	111.3	112.4	115.2	108.9	103.5	98.8	90.3	90.3
70°	185.2	157.6	128.8	111.7	110.5	112.8	108.5	103.5	100.8	93.8	93.4
72.5°	186.0	159.1	128.0	109.7	107.0	108.9	105.8	103.5	102.3	96.9	96.1
75°	182.5	157.6	124.1	105.4	102.7	103.5	102.7	102.3	103.9	100.4	99.2
77.5°	178.2	155.2	121.0	100.8	97.6	98.0	97.3	98.4	100.0	97.6	95.7
80°	187.1	161.8	121.4	97.3	91.4	89.5	89.9	91.0	93.0	87.9	85.2
82.5°	190.2	162.2	115.9	89.5	82.1	79.4	80.1	83.3	84.8	80.1	77.4
85°	201.9	169.6	112.0	82.5	73.9	71.2	72.0	73.9	73.1	67.7	65.4
87.5°	197.2	164.6	105.0	74.3	67.3	65.0	65.4	66.1	63.4	56.4	54.5
90°	190.6	158.7	97.3	65.4	59.5	58.7	58.0	56.8	52.1	44.7	42.8
92.5°	178.6	148.2	90.3	59.1	52.9	52.5	51.4	49.0	44.7	37.3	35.4
95°	168.5	138.9	83.6	54.1	47.5	45.9	45.9	43.6	38.9	32.7	31.9
97.5°	151.7	126.4	77.0	49.8	42.4	40.8	40.5	38.9	35.4	30.7	30.3
100°	137.3	114.4	70.0	45.1	38.1	36.6	35.8	35.0	32.3	29.6	29.6
102.5°	127.2	105.8	65.4	41.2	34.2	32.7	32.7	31.9	30.3	28.4	28.4
105°	124.5	103.9	63.4	37.7	30.3	29.6	30.0	30.0	28.8	27.6	27.6
107.5°	108.2	89.5	54.5	33.5	27.6	26.8	27.2	27.6	27.2	26.8	26.8
110°	96.5	81.3	50.6	31.5	26.1	24.9	24.9	24.9	24.9	25.3	25.7



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CATALOG NUMBER: UTLD-AF24-30-D-U-T3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	86.4	72.4	46.3	30.0	24.5	23.3	23.0	22.6	22.2	23.7	23.7
115°	82.5	70.4	45.1	29.2	23.3	22.2	21.0	20.2	19.5	20.6	21.0
117.5°	76.6	66.1	44.0	29.2	23.0	21.0	19.8	18.7	17.5	18.7	18.7
120°	75.1	65.7	44.7	29.6	22.2	19.5	18.3	16.7	16.0	17.1	17.5
122.5°	69.2	61.5	42.4	28.0	21.4	18.7	17.5	14.4	14.4	15.2	15.6
125°	58.7	52.1	36.6	25.3	20.2	18.7	17.1	12.8	13.2	14.0	14.0
127.5°	50.2	45.1	33.5	24.5	20.6	19.1	16.0	12.1	12.8	14.0	14.0
130°	47.5	43.2	33.8	25.7	21.4	19.5	13.2	10.5	12.4	13.6	13.6
132.5°	45.5	42.0	33.8	26.8	22.2	17.9	10.5	9.3	10.5	11.3	11.3
135°	41.2	38.9	32.3	25.7	20.2	14.0	8.6	8.2	9.7	10.5	10.5
137.5°	37.0	34.6	29.6	23.7	17.9	11.3	6.2	7.4	8.2	8.9	8.9
140°	30.3	28.8	24.5	19.5	13.2	6.2	4.7	5.8	7.0	7.8	7.8
142.5°	21.4	20.6	17.1	12.4	7.4	2.3	3.1	4.3	5.1	5.8	5.8
145°	14.0	13.2	10.9	7.8	3.1	0.8	1.9	2.7	3.9	4.3	4.3
147.5°	8.9	8.6	6.6	3.9	1.2	0.8	0.8	1.9	3.1	3.5	3.5
150°	4.3	3.9	2.7	1.2	0.8	0.4	0.4	0.8	1.9	2.3	2.3
152.5°	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.4	0.4	0.8	0.8
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.4	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	0.4	0.4	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)