

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: P239939

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
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-T4W-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2813 lumens
Efficiency: N/A
Efficacy: 90.7 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



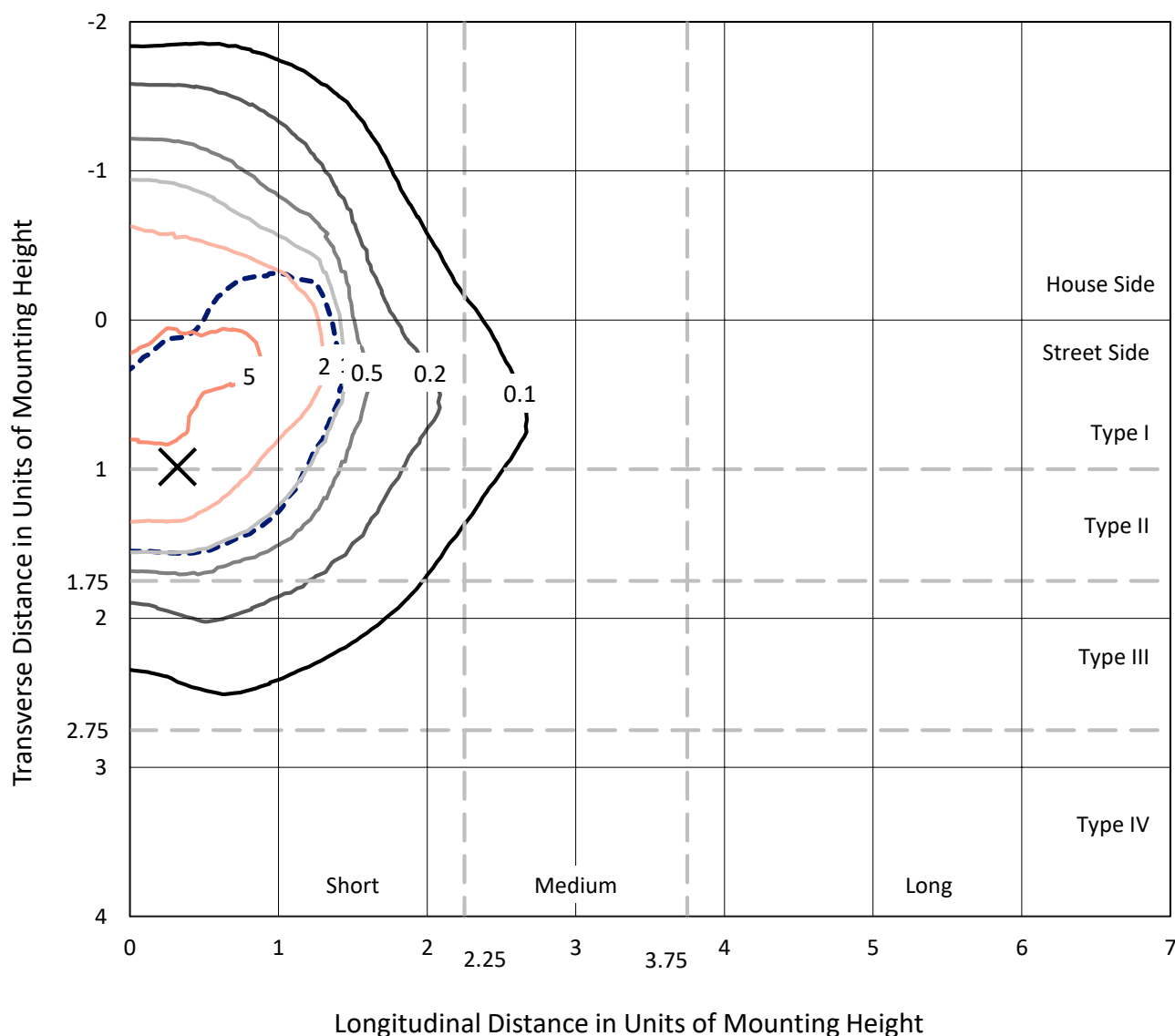
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

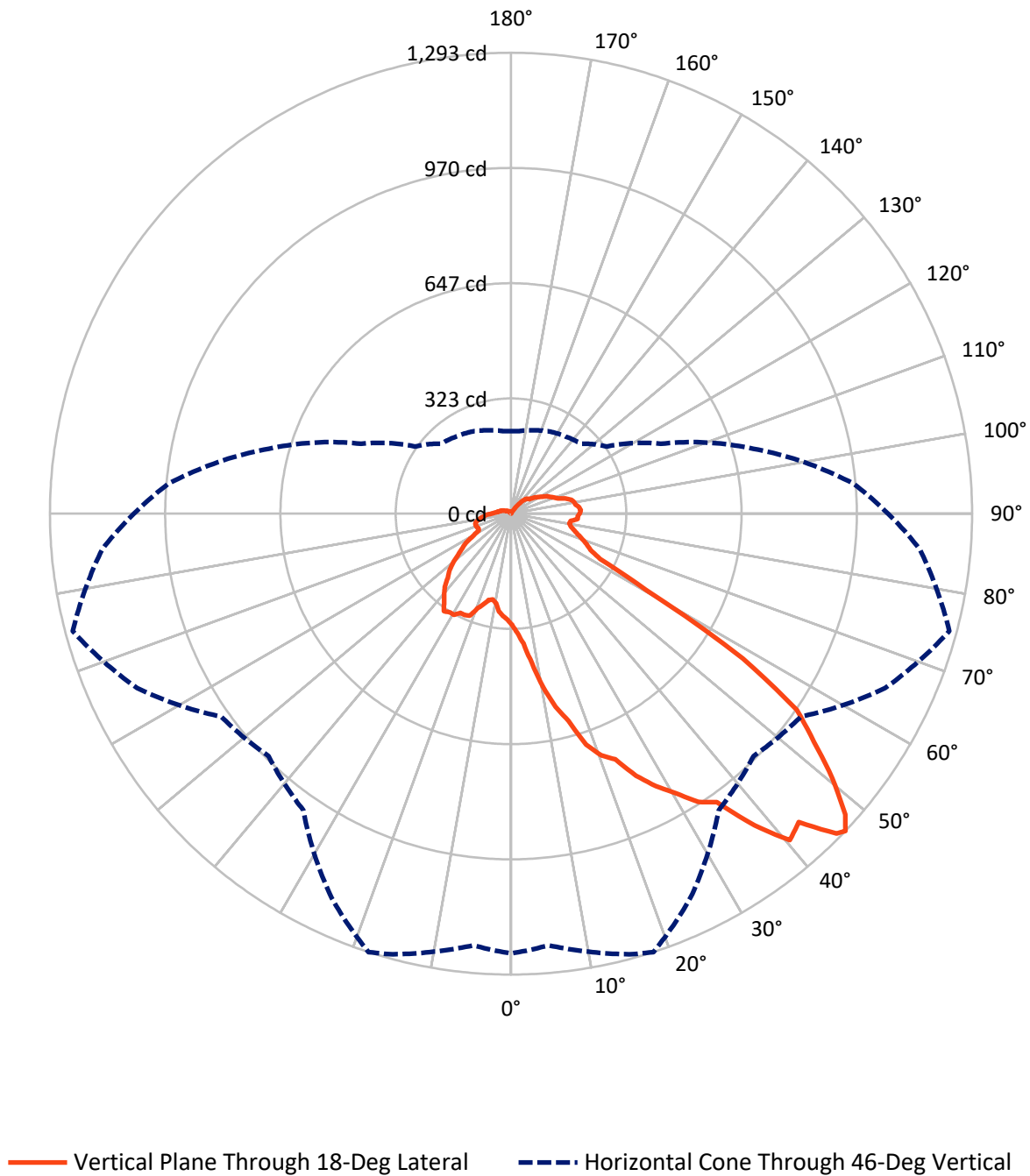


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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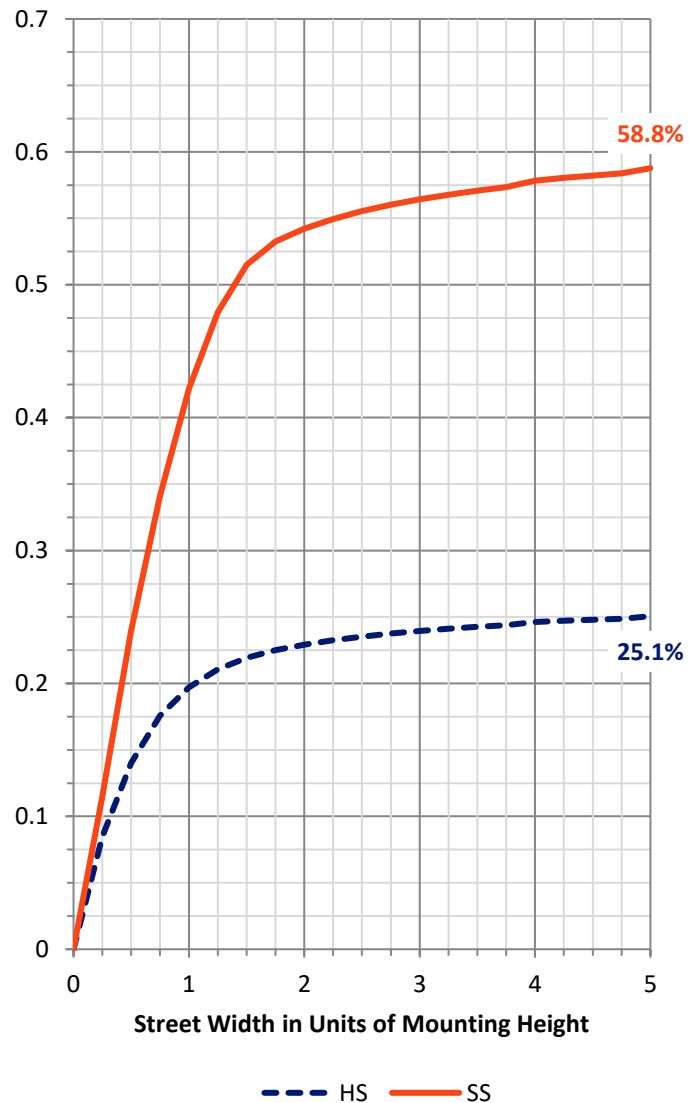
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.7	91.1	822.8
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	1717.1	273.1	1990.2
	% Fixture	61.0	9.7	70.7
Total	Lumens	2448.8	364.2	2813.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	1.2
10°-20°	136.2	4.8
20°-30°	277.0	9.8
30°-40°	453.4	16.1
40°-50°	590.1	21.0
50°-60°	441.6	15.7
60°-70°	183.9	6.5
70°-80°	167.3	5.9
80°-90°	165.9	5.9
90°-100°	133.4	4.7
100°-110°	94.8	3.4
110°-120°	64.1	2.3
120°-130°	41.2	1.5
130°-140°	24.4	0.9
140°-150°	5.9	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2448.8	87.1
0°-180°	2813.0	100.0

Coefficient of Utilization



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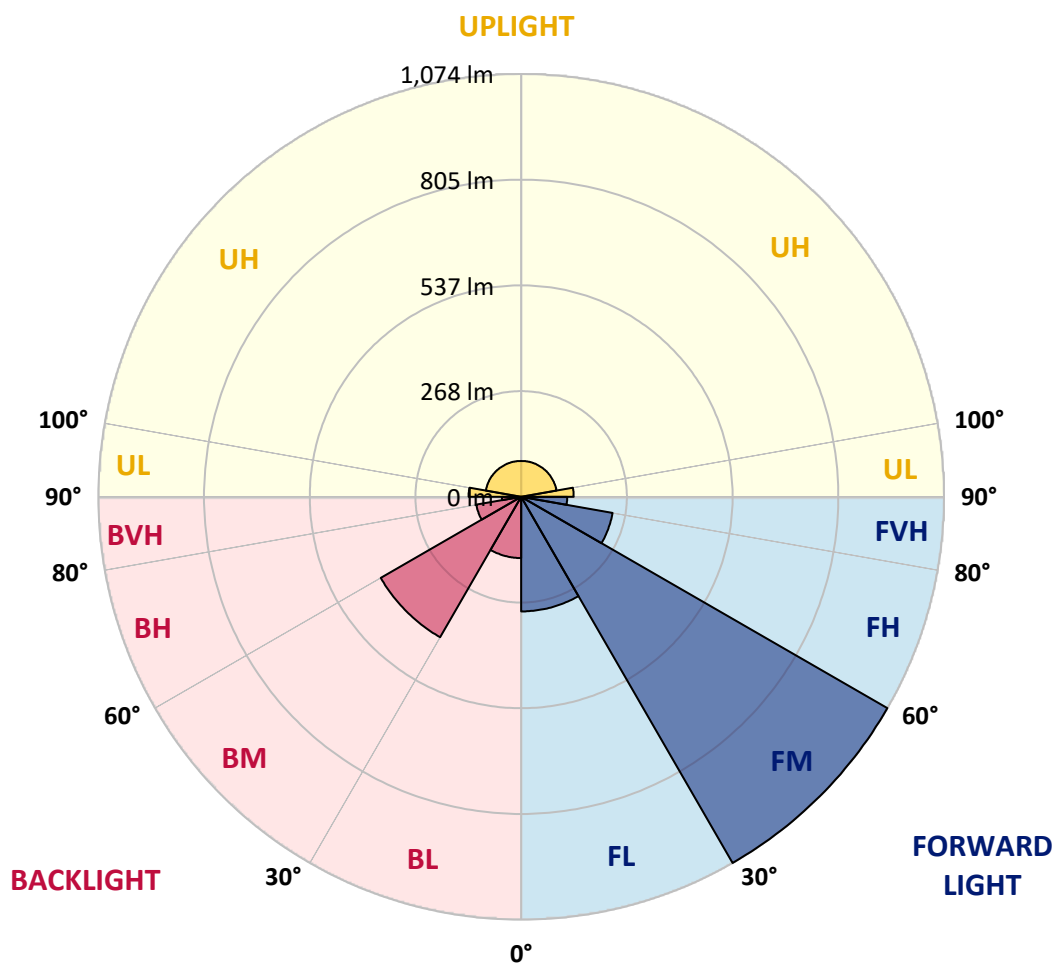
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.0	10.3			
FM	(30°-60°)	1073.5	38.2			
FH	(60°-80°)	235.6	8.4			G0/660
FVH	(80°-90°)	117.0	4.2			G2/225
BL	(0°-30°)	155.5	5.5	B1/500		
BM	(30°-60°)	411.6	14.6	B1/1000		
BH	(60°-80°)	115.7	4.1	B1/500		G1/500
BVH	(80°-90°)	48.9	1.7			G1/100
UL	(90°-100°)	133.4	4.7		U3/500	
UH	(100°-180°)	91.1	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6
2.5°	334.9	333.3	334.1	334.1	332.2	331.4	329.5	327.1	324.0	320.5	317.4
5°	368.0	366.8	366.4	366.0	365.6	360.6	354.7	349.7	344.2	338.4	330.2
7.5°	429.0	428.6	426.3	423.6	419.7	411.1	400.6	395.6	388.2	379.2	366.8
10°	505.3	499.8	494.8	494.8	487.0	483.9	480.8	473.4	468.7	456.3	438.4
12.5°	548.8	546.1	556.6	555.8	565.9	584.2	590.5	596.7	568.3	532.1	498.7
15°	589.7	589.7	602.9	603.3	633.2	673.7	704.4	674.5	622.3	564.0	519.3
17.5°	645.7	649.2	668.2	681.1	721.5	791.2	770.2	714.9	637.1	567.5	517.3
20°	670.2	678.0	707.1	723.9	786.5	852.2	832.0	767.0	676.8	597.5	546.9
22.5°	685.4	690.8	725.0	748.8	828.9	884.5	881.4	815.7	730.5	631.3	572.9
25°	747.6	751.1	790.0	814.5	899.3	917.2	881.8	836.3	752.7	649.6	598.2
27.5°	768.6	769.0	828.9	865.8	935.5	929.2	883.3	864.3	821.9	740.6	706.0
30°	797.0	796.2	870.1	909.8	952.2	925.7	888.8	905.5	908.2	842.1	779.1
32.5°	832.0	828.9	917.2	964.6	978.3	925.0	897.7	926.1	967.4	898.9	831.2
35°	864.3	867.0	961.9	994.2	1007.0	929.6	902.4	964.6	1048.3	995.4	881.8
37.5°	1072.0	1068.9	1098.8	1110.1	1077.8	945.6	920.3	1012.5	1135.0	1112.1	990.3
40°	1119.1	1108.6	1198.0	1204.6	1147.8	1002.0	969.3	1041.3	1203.5	1244.3	1147.5
42.5°	1079.4	1076.7	1174.3	1183.2	1142.4	1040.1	1001.6	1064.6	1211.2	1244.7	1083.7
45°	1254.0	1239.6	1290.6	1280.1	1166.9	1023.8	981.8	1038.5	1184.4	1278.1	1150.6
46°	1234.2	1215.9	1280.1	1293.3	1190.2	1015.6	961.9	992.6	1157.6	1272.7	1151.3
47.5°	1173.5	1175.1	1260.6	1261.4	1166.5	1016.8	929.2	965.0	1097.7	1203.1	1041.3
50°	1024.5	1007.0	1163.4	1168.5	1077.8	972.8	895.8	912.1	1038.5	1103.1	938.6
52.5°	986.4	972.8	1065.0	1064.2	982.5	905.9	834.7	851.8	994.6	1068.1	950.6
55°	906.3	901.6	979.0	972.4	915.2	823.4	772.5	783.0	825.0	796.2	473.8
57.5°	602.1	620.0	753.8	766.7	767.0	723.9	660.1	563.2	487.4	414.6	231.8
60°	245.8	266.4	415.4	434.9	463.3	542.6	478.4	376.5	314.7	327.1	200.3
62.5°	185.5	193.3	277.3	280.8	291.7	330.2	326.3	273.1	268.8	296.0	191.8
65°	172.7	179.7	245.8	244.7	239.6	250.1	249.3	236.9	241.5	275.8	191.0
67.5°	163.4	170.4	228.3	228.7	224.4	226.4	227.9	221.7	232.6	268.0	196.0
70°	154.0	161.4	210.0	211.2	214.3	221.3	224.0	219.4	229.1	258.3	195.7
72.5°	142.8	150.9	192.9	194.9	201.1	217.0	226.4	225.2	226.4	243.9	194.9
75°	138.9	147.0	178.5	182.0	191.0	215.1	239.2	231.4	223.7	234.5	190.2
77.5°	121.7	131.1	163.4	171.1	191.0	221.3	247.8	245.0	230.7	228.3	185.1
80°	117.1	126.0	157.1	165.7	187.1	226.8	256.3	256.7	249.3	236.9	190.2
82.5°	117.9	126.4	158.7	168.4	192.9	230.7	249.3	259.1	259.8	244.3	196.0
85°	138.5	146.6	177.4	187.5	208.9	229.5	243.9	250.9	257.9	257.9	215.1
87.5°	147.8	155.2	178.5	187.5	208.1	232.2	229.9	241.5	248.6	257.5	221.7
90°	156.4	161.0	185.1	193.7	204.6	224.0	217.8	214.3	220.2	229.5	207.7
92.5°	162.6	166.9	188.3	195.7	205.0	209.3	199.9	189.8	204.2	211.6	193.3
95°	173.9	177.8	189.0	191.8	190.6	194.5	180.1	176.2	182.4	190.6	178.9
97.5°	166.1	168.8	179.7	182.8	182.0	176.2	161.8	159.5	164.9	171.1	158.3
100°	166.1	169.6	177.8	179.7	175.0	160.3	145.5	144.7	148.2	151.3	139.3
102.5°	169.6	171.1	172.7	173.9	165.3	149.0	138.1	135.4	136.5	138.1	127.2
105°	160.6	161.0	161.8	158.3	151.3	138.9	128.0	123.3	127.2	131.9	122.9
107.5°	138.9	138.5	138.9	137.7	136.9	129.5	121.7	115.9	115.9	117.5	108.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	129.5	129.9	129.5	129.5	126.0	121.0	113.6	107.4	104.2	105.0	97.2
112.5°	118.6	118.6	119.0	119.4	117.5	112.8	105.4	99.2	95.3	94.5	87.1
115°	118.6	117.5	114.0	113.6	109.7	103.1	97.6	89.9	87.1	87.1	82.5
117.5°	105.8	105.0	102.3	101.5	99.2	93.7	90.6	84.4	82.5	81.3	77.0
120°	93.7	93.7	92.6	92.2	89.9	86.7	80.1	77.8	76.2	77.8	75.1
122.5°	87.1	87.1	85.2	84.4	81.7	79.3	73.5	69.2	66.5	69.6	68.1
125°	80.1	79.7	77.0	76.6	72.0	72.0	68.8	63.4	56.0	59.1	58.3
127.5°	70.4	70.0	66.5	66.1	63.4	66.5	65.7	58.7	48.6	50.6	50.6
130°	67.7	66.9	63.8	63.0	60.3	59.5	62.6	51.3	45.5	47.5	47.1
132.5°	67.7	66.9	63.0	61.8	57.6	53.3	56.4	44.7	43.6	45.9	45.5
135°	61.1	61.1	57.6	55.2	51.0	43.2	44.0	34.6	38.1	41.6	41.6
137.5°	51.7	51.7	48.2	47.5	42.4	34.6	31.1	26.4	32.3	36.2	36.6
140°	40.5	40.5	37.7	36.2	32.7	22.9	14.4	16.3	24.5	28.0	29.2
142.5°	29.2	28.8	26.4	24.5	21.0	12.4	4.7	9.3	14.4	19.1	20.6
145°	20.2	19.8	17.1	15.9	12.8	5.8	1.2	3.9	8.6	11.3	13.2
147.5°	12.1	12.1	10.1	9.7	6.6	1.6	0.8	1.2	4.3	7.0	8.2
150°	7.0	7.0	5.1	3.9	1.6	0.4	0.4	0.4	1.2	3.1	3.9
152.5°	1.6	1.6	1.2	0.8	0.8	0.4	0.0	0.4	0.4	0.4	0.8
155°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
162.5°	0.4	0.4	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0.4	0.4
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°	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6
2.5°	315.8	314.3	310.8	306.5	303.4	300.7	298.7	297.6	296.8	294.8	295.6
5°	327.5	324.4	316.2	309.6	302.6	296.4	291.7	288.6	287.4	285.9	285.9
7.5°	361.0	353.6	341.1	325.6	311.2	298.7	287.1	280.4	274.6	271.5	270.7
10°	426.7	417.0	390.1	358.2	326.7	298.7	276.2	259.8	252.1	249.3	249.3
12.5°	481.2	466.0	431.0	395.2	353.2	309.2	275.8	253.6	243.1	239.6	239.6
15°	497.5	477.7	436.4	401.4	363.7	326.7	295.6	263.7	244.7	238.8	236.9
17.5°	492.4	473.0	435.6	393.2	350.8	323.2	295.6	278.5	261.0	250.9	249.3
20°	524.7	506.8	467.9	420.5	368.4	306.5	289.0	285.1	280.8	274.2	274.2
22.5°	551.6	534.8	495.9	445.0	382.4	341.9	315.8	312.0	307.3	306.1	305.3
25°	572.2	554.3	501.0	442.3	396.7	367.2	333.7	320.5	309.2	305.7	304.6
27.5°	682.2	654.6	569.1	485.8	420.5	375.7	337.2	320.1	309.6	305.3	308.1
30°	746.8	716.9	623.1	513.8	448.9	394.4	344.2	324.0	326.7	330.2	333.0
32.5°	796.2	756.9	646.9	517.3	444.2	397.9	355.5	331.4	323.6	328.3	329.1
35°	844.8	797.0	677.6	539.5	450.4	385.1	347.7	333.7	331.4	337.6	336.5
37.5°	943.6	881.0	715.7	545.7	444.6	369.9	334.5	319.7	307.7	306.1	308.1
40°	1072.8	988.8	753.8	543.0	417.4	351.6	317.8	301.1	291.7	285.9	282.4
42.5°	1008.2	923.8	704.8	521.2	384.3	319.0	300.7	285.9	273.8	266.4	264.5
45°	1079.0	996.5	717.3	477.3	346.6	289.8	275.0	264.9	248.2	241.2	240.0
46°	1057.6	964.3	703.3	463.6	328.3	277.3	264.9	254.4	241.9	232.2	231.4
47.5°	979.8	870.9	662.0	427.1	315.8	256.7	248.2	241.9	235.3	224.0	222.5
50°	874.4	791.2	587.7	379.6	266.1	229.1	221.7	219.8	212.4	198.8	199.9
52.5°	866.2	785.7	547.3	349.3	236.1	200.7	198.4	192.5	186.3	174.3	173.9
55°	417.8	355.1	303.8	273.4	197.6	177.8	176.6	173.9	166.1	155.2	157.1
57.5°	198.0	172.3	149.0	157.9	155.2	156.0	156.8	156.4	147.4	132.6	135.7
60°	173.5	150.5	128.7	122.1	128.4	138.1	138.1	132.2	119.8	102.3	100.7
62.5°	167.3	144.3	124.5	115.5	118.6	124.5	121.4	112.0	99.6	83.6	82.9
65°	168.0	143.5	124.1	112.8	115.5	117.9	112.0	104.6	98.0	86.7	86.7
67.5°	171.5	146.6	125.6	111.6	113.6	115.1	109.7	104.2	100.4	91.8	92.6
70°	172.3	148.6	127.2	112.0	111.6	113.2	109.3	104.2	102.3	96.5	96.1
72.5°	172.3	150.1	125.6	109.3	108.5	109.3	107.0	104.2	103.9	100.4	99.6
75°	166.5	146.6	120.2	103.9	103.1	103.9	103.1	102.7	104.2	102.7	101.1
77.5°	160.6	143.1	116.3	99.6	98.4	98.0	97.6	98.0	100.4	99.2	96.9
80°	163.4	144.7	115.5	96.1	92.6	91.0	91.0	91.4	91.4	87.9	84.4
82.5°	168.0	147.4	111.6	89.5	83.6	80.9	81.7	84.4	85.6	82.9	80.1
85°	185.1	159.9	112.4	84.8	76.2	73.1	74.3	77.8	75.5	71.6	68.5
87.5°	192.5	164.1	110.1	77.8	70.8	69.6	69.6	71.6	70.0	63.8	61.1
90°	184.0	157.1	99.6	66.1	61.5	62.6	63.0	61.1	54.5	47.5	45.1
92.5°	172.3	147.0	92.2	60.7	54.5	54.1	53.7	52.5	47.5	39.7	38.1
95°	162.6	138.5	85.2	55.6	49.8	48.6	48.2	46.7	42.0	36.2	35.4
97.5°	141.6	121.0	77.4	51.3	44.7	44.0	43.6	41.6	37.3	33.1	32.7
100°	127.2	107.7	69.2	46.3	40.5	39.3	38.9	37.7	34.2	31.1	30.7
102.5°	115.5	98.8	64.2	42.4	36.2	34.6	34.6	33.8	31.9	30.0	30.0
105°	112.4	96.9	62.2	38.9	32.3	31.5	31.1	31.1	29.6	28.4	28.4
107.5°	98.8	84.8	53.7	34.6	29.2	28.4	28.4	28.4	28.0	27.6	28.0



REPORT NUMBER: P239939

CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	89.1	76.6	49.4	32.3	27.2	26.1	26.1	26.1	26.1	26.8	26.8
112.5°	79.3	68.8	45.5	30.7	25.3	24.1	23.3	22.9	22.6	24.1	24.5
115°	75.1	65.7	43.6	29.2	24.1	22.9	21.4	20.6	19.4	20.6	21.0
117.5°	70.8	62.2	42.8	28.8	23.3	21.4	19.8	19.1	17.5	18.7	18.7
120°	69.6	61.8	43.6	29.2	22.6	19.8	18.7	16.7	15.9	16.7	17.1
122.5°	64.2	57.2	40.8	27.2	21.4	19.1	17.5	14.4	14.0	15.2	15.2
125°	54.5	49.0	35.4	24.5	20.2	18.7	17.1	12.8	13.2	14.0	14.4
127.5°	47.8	43.2	32.3	23.7	20.2	19.1	15.9	11.3	12.4	13.6	14.0
130°	44.7	41.2	32.3	24.5	21.0	19.4	13.2	10.5	11.7	12.8	12.8
132.5°	43.6	40.8	33.1	26.1	21.8	18.7	10.9	9.7	10.9	11.7	11.7
135°	40.1	37.7	31.5	25.3	19.8	14.8	8.6	8.6	10.1	10.9	10.9
137.5°	35.4	33.5	28.4	23.3	17.5	11.3	6.2	7.4	8.6	9.3	9.3
140°	28.4	27.2	23.3	18.3	12.4	6.2	4.7	5.8	7.0	7.8	7.8
142.5°	20.2	19.4	16.3	11.7	7.4	2.7	3.1	4.3	5.4	6.2	6.2
145°	13.2	12.4	10.1	7.4	3.1	0.8	1.9	3.1	4.3	4.7	4.7
147.5°	8.2	7.8	6.2	3.5	1.2	0.8	0.8	2.3	3.1	3.5	3.5
150°	4.3	3.9	2.7	1.2	0.4	0.4	0.4	0.8	1.9	2.3	2.7
152.5°	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	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	0.4	0.0	0.4	0.4	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)