

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: P239876

Luminaire Tested: **UTLD-AF24-30-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239876
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 2529 lumens
Efficiency: N/A
Efficacy: 81.6 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 - G1

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

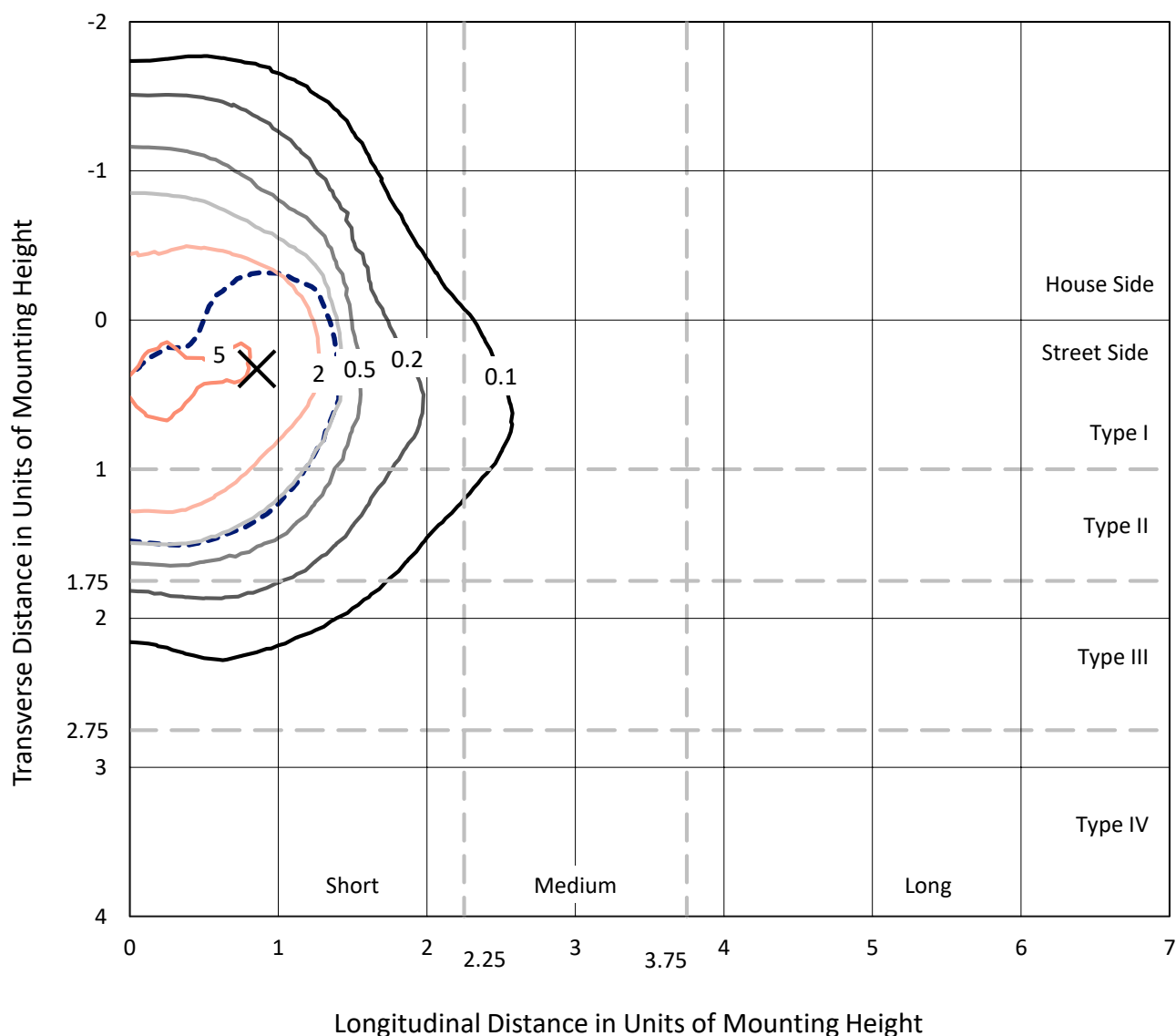


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

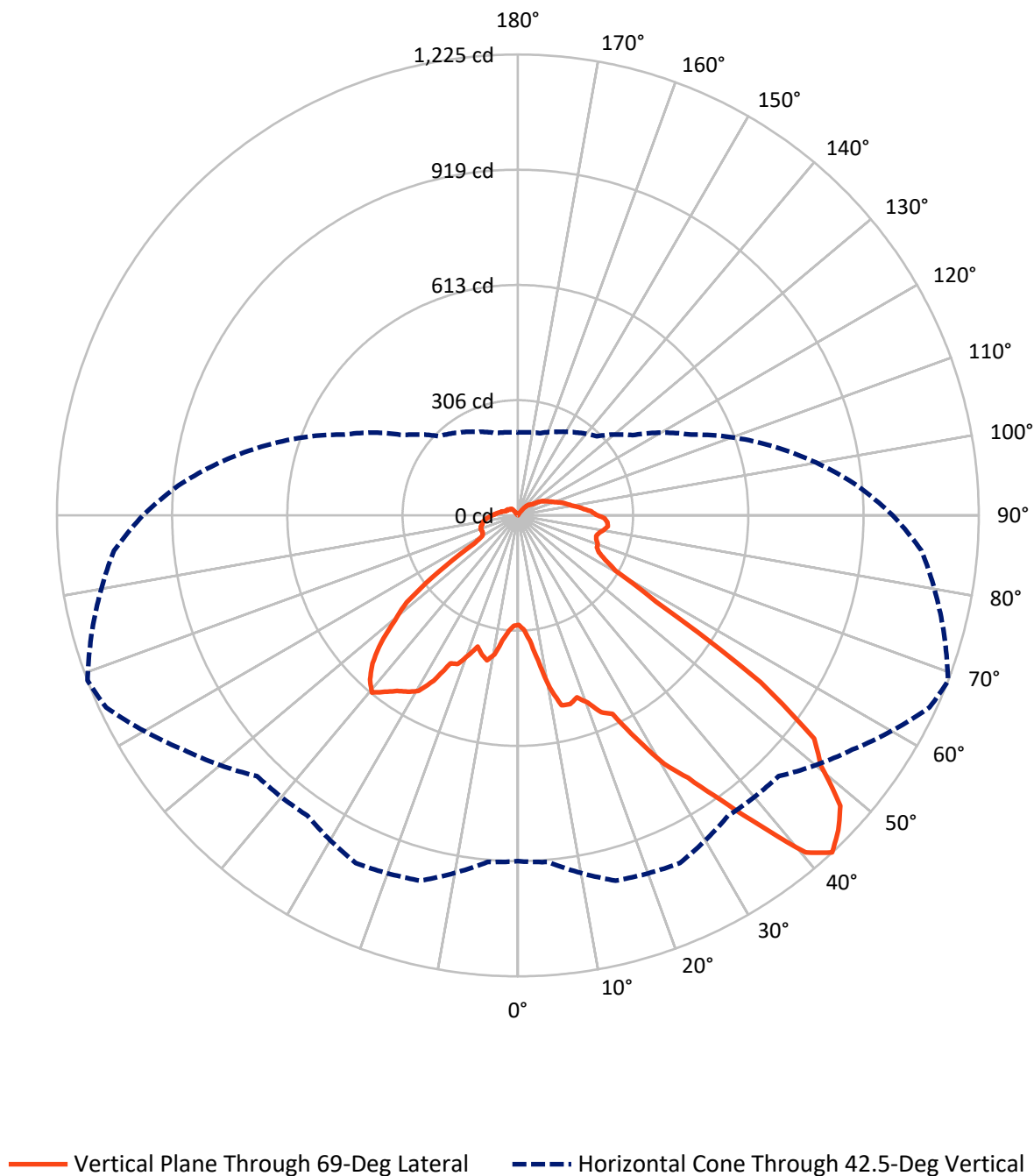


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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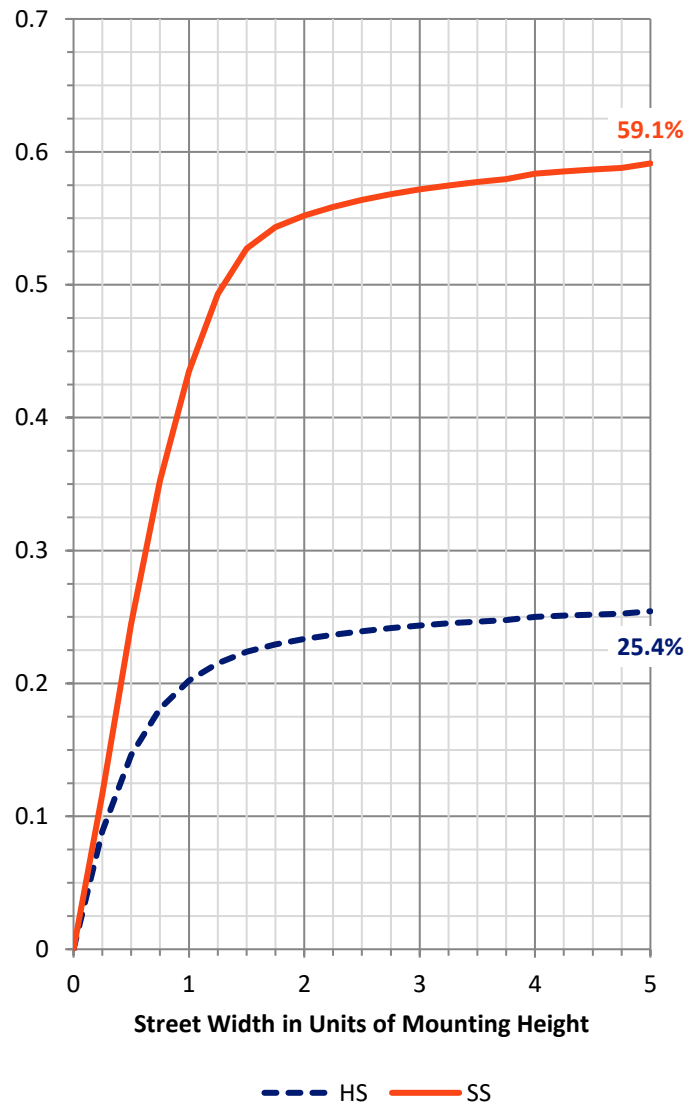
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.3	80.3	746.6
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	1544.1	238.2	1782.3
	% Fixture	61.1	9.4	70.5
Total	Lumens	2210.4	318.5	2529.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	1.3
10°-20°	121.7	4.8
20°-30°	248.8	9.8
30°-40°	418.5	16.5
40°-50°	554.0	21.9
50°-60°	399.5	15.8
60°-70°	156.9	6.2
70°-80°	141.4	5.6
80°-90°	137.8	5.4
90°-100°	116.2	4.6
100°-110°	82.6	3.3
110°-120°	55.7	2.2
120°-130°	36.4	1.4
130°-140°	21.8	0.9
140°-150°	5.5	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2210.4	87.4
0°-180°	2529.0	100.0

Coefficient of Utilization



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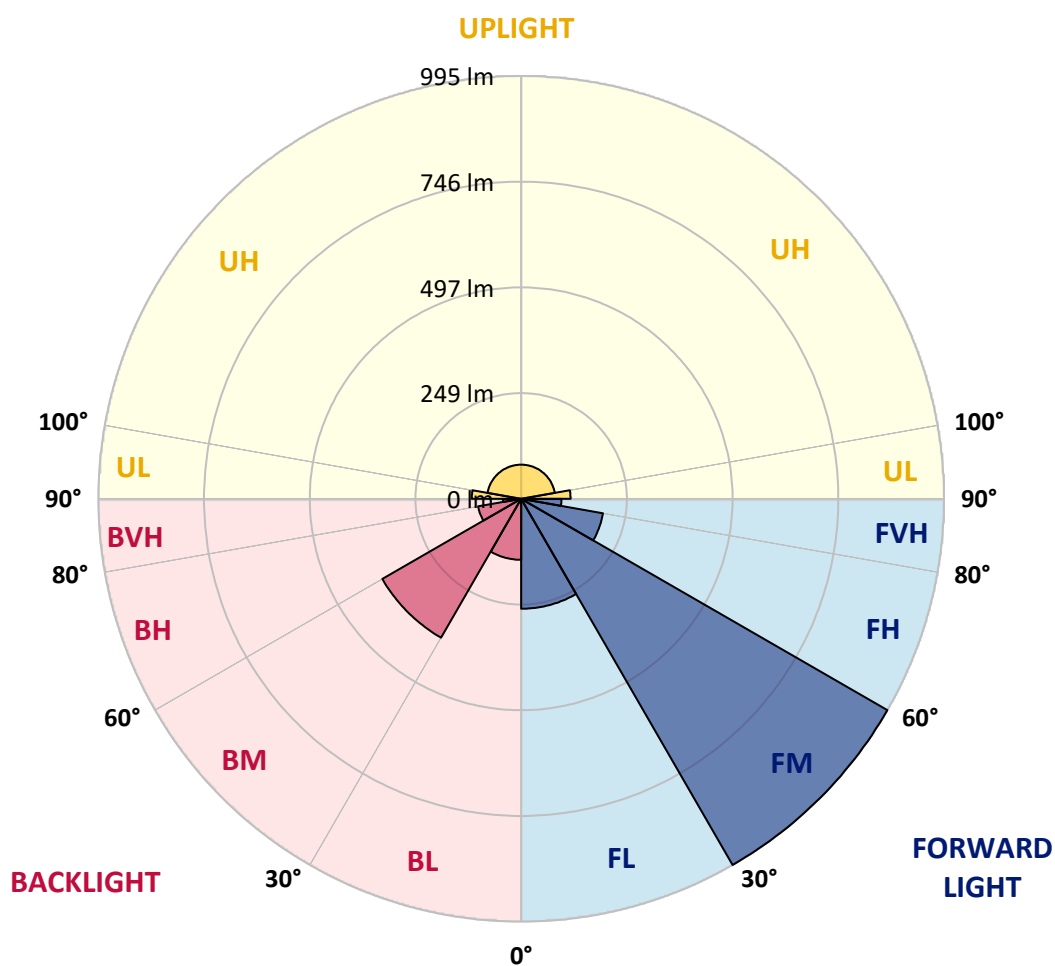
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.7	10.2			
FM	(30°-60°)	994.9	39.3			
FH	(60°-80°)	195.6	7.7			G0/660
FVH	(80°-90°)	95.0	3.8			G1/100
BL	(0°-30°)	143.5	5.7	B1/500		
BM	(30°-60°)	377.2	14.9	B1/1000		
BH	(60°-80°)	102.8	4.1	B0/110		G0/110
BVH	(80°-90°)	42.9	1.7			G1/100
UL	(90°-100°)	116.2	4.6		U3/500	
UH	(100°-180°)	80.3	3.2		U3/500	

BUG Rating: B1-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0
2.5°	309.9	308.2	307.5	307.5	306.5	306.2	306.8	305.8	304.1	303.7	301.7
5°	331.6	330.9	330.6	333.4	335.8	336.5	335.8	335.8	333.7	333.7	327.2
7.5°	366.4	365.4	368.1	375.0	377.4	384.7	393.3	388.1	389.5	385.7	373.3
10°	406.7	405.0	417.7	427.0	448.4	457.3	468.4	467.3	465.3	458.7	438.0
12.5°	443.2	442.2	458.7	492.5	521.0	550.0	552.4	528.6	517.9	494.5	468.7
15°	488.7	489.7	514.8	562.7	605.1	616.8	587.5	540.7	520.7	496.6	458.4
17.5°	562.0	565.5	608.2	662.6	690.8	643.6	581.0	527.2	508.3	482.1	445.3
20°	604.7	606.8	665.3	739.0	747.3	670.8	605.8	547.9	531.4	510.7	480.4
22.5°	630.2	637.8	704.9	795.2	790.3	734.2	644.0	589.2	568.6	540.3	515.5
25°	671.2	676.7	741.1	828.2	806.9	754.9	678.1	605.1	584.8	564.1	539.3
27.5°	726.6	731.8	804.1	854.4	832.0	782.4	729.0	682.2	671.5	668.1	657.4
30°	756.3	759.7	841.0	883.3	845.1	822.0	807.2	769.7	766.6	759.7	735.2
32.5°	773.1	786.2	880.6	905.0	855.1	852.3	861.3	838.2	832.0	820.3	792.1
35°	788.3	794.8	883.7	920.9	871.3	869.9	931.5	942.2	928.4	904.3	836.8
37.5°	905.0	908.1	969.1	956.0	892.6	900.2	1001.8	1057.2	1044.8	1014.9	968.4
40°	968.4	973.9	1030.4	1003.2	937.7	946.4	1052.4	1167.4	1178.5	1177.4	1136.8
42.5°	919.1	925.0	1005.2	1019.7	974.6	980.4	1085.5	1207.7	1225.3	1171.2	1077.6
45°	1079.6	1084.1	1129.2	1023.5	949.5	971.8	1059.7	1178.5	1194.3	1178.5	1098.2
47.5°	1079.3	1073.8	1111.3	1034.2	947.7	932.6	1003.5	1122.3	1153.7	1117.5	1030.4
50°	948.8	948.4	1041.1	996.6	929.1	894.0	941.9	1035.9	1043.5	1001.1	884.4
52.5°	828.6	827.9	935.0	912.3	868.2	833.7	863.4	957.0	986.0	948.8	851.3
55°	722.2	751.8	845.8	797.2	779.0	744.9	774.5	797.6	782.8	679.5	458.4
57.5°	437.4	470.1	592.7	627.8	631.9	607.5	540.3	461.5	433.2	346.1	206.6
60°	203.9	211.8	311.0	378.5	461.8	422.2	341.6	297.5	297.5	261.4	179.4
62.5°	143.6	149.1	204.2	244.2	276.5	272.7	242.4	248.6	261.0	244.9	172.9
65°	135.0	138.4	181.8	193.9	206.3	208.7	204.6	223.5	236.6	234.5	175.3
67.5°	125.4	129.8	166.0	173.9	183.6	188.0	191.1	213.2	226.9	234.5	182.2
70°	114.0	119.2	153.2	164.3	173.6	183.9	187.7	211.4	225.6	233.1	184.6
72.5°	103.3	107.8	136.4	150.1	166.7	178.7	193.9	208.3	218.0	225.9	186.0
75°	93.0	98.1	122.3	138.1	157.4	180.1	198.4	209.0	215.6	221.8	184.2
77.5°	86.1	91.6	110.5	128.8	151.9	183.2	203.9	217.6	221.4	222.5	182.2
80°	79.9	86.1	106.1	125.4	150.5	184.6	210.4	226.9	232.1	234.5	193.9
82.5°	84.4	89.9	107.1	130.5	155.0	184.2	208.7	234.9	240.7	239.3	197.7
85°	95.4	99.9	120.9	142.9	161.9	181.1	202.5	231.1	239.3	246.6	209.4
87.5°	116.1	118.1	133.3	153.6	169.1	175.3	196.6	223.5	231.1	233.5	203.9
90°	127.1	129.1	147.0	163.9	168.7	170.8	175.3	202.2	207.7	217.3	194.9
92.5°	139.8	139.8	158.4	168.4	168.4	159.8	162.9	187.0	196.3	201.8	181.1
95°	152.2	151.5	161.9	167.7	158.8	146.7	151.9	170.8	176.7	182.5	168.4
97.5°	156.0	155.7	161.9	158.4	143.6	132.2	138.8	155.0	161.2	167.4	152.9
100°	151.9	150.1	151.9	144.3	130.5	121.9	125.7	139.1	145.7	150.8	137.8
102.5°	142.9	141.9	142.6	135.0	120.5	110.2	115.4	129.5	134.3	138.4	126.7
105°	138.8	137.1	134.0	122.9	108.8	101.6	106.1	120.2	124.7	132.9	123.3
107.5°	118.1	116.7	114.3	108.5	101.2	95.7	99.5	109.5	112.3	116.4	107.4
110°	101.9	101.2	100.6	99.2	94.7	90.9	93.0	98.5	101.9	105.0	96.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	98.5	97.5	96.8	94.4	88.5	84.4	85.8	91.9	94.0	95.0	85.4
115°	94.0	93.0	89.2	85.8	81.6	79.6	79.9	85.1	86.4	87.1	81.3
117.5°	83.3	82.3	79.9	78.5	76.1	75.1	76.8	79.6	79.9	80.2	75.1
120°	77.1	76.8	75.4	73.0	71.3	68.9	71.6	74.4	75.4	76.5	73.0
122.5°	70.3	69.6	68.2	65.1	65.1	63.7	63.4	65.1	65.4	68.2	66.5
125°	62.0	61.3	59.9	57.2	60.6	60.6	58.2	54.4	55.4	57.9	56.5
127.5°	55.4	54.8	53.4	52.0	56.8	58.5	54.4	47.5	48.2	48.9	47.9
130°	54.4	53.7	52.0	49.6	51.0	56.1	48.9	43.4	44.4	45.1	44.4
132.5°	53.4	53.0	50.6	47.5	45.8	50.6	42.4	41.0	42.0	43.0	42.4
135°	49.9	49.6	47.5	43.0	38.2	40.6	33.7	35.8	37.5	38.9	38.2
137.5°	44.4	44.1	42.4	37.9	31.3	29.3	25.8	30.6	32.0	33.7	33.7
140°	35.8	35.5	33.7	29.3	22.0	15.5	16.5	23.4	24.8	26.9	27.2
142.5°	26.2	25.5	23.8	19.6	12.4	5.2	9.3	14.1	15.8	17.9	19.3
145°	17.9	17.6	15.2	11.7	5.9	0.7	4.1	8.6	9.6	11.0	12.4
147.5°	11.4	11.4	9.6	6.5	1.7	0.7	1.0	4.5	5.5	6.9	7.9
150°	6.9	6.9	5.2	2.1	0.3	0.3	0.3	0.7	1.7	3.1	4.1
152.5°	1.7	1.7	1.0	0.7	0.3	0.0	0.3	0.3	0.3	0.3	0.7
155°	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.0	0.3	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°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0
2.5°	300.6	298.6	295.8	292.0	288.2	284.5	280.7	278.6	277.6	276.9	276.5
5°	325.4	321.0	313.7	303.7	291.3	284.1	278.9	272.7	268.6	267.2	266.2
7.5°	369.2	361.9	347.5	326.1	311.0	289.6	271.4	259.7	251.1	246.2	246.2
10°	427.7	417.4	392.2	363.0	324.1	286.5	258.3	236.9	226.9	222.8	221.8
12.5°	453.5	443.6	413.9	379.8	338.5	294.8	259.0	233.5	221.4	216.6	217.3
15°	440.5	426.7	401.2	369.2	336.8	309.3	279.3	247.6	226.9	221.4	223.2
17.5°	427.4	413.3	386.0	350.6	318.9	300.6	279.6	258.3	238.7	230.7	229.4
20°	465.6	455.3	418.4	378.1	330.6	284.5	269.6	260.0	253.5	253.8	250.7
22.5°	502.1	488.0	454.2	407.1	355.7	315.5	291.3	278.6	271.4	274.5	274.8
25°	526.6	515.9	465.9	409.5	366.8	336.8	302.0	284.1	272.1	272.1	270.7
27.5°	650.9	624.4	545.2	458.7	395.0	345.4	303.4	282.7	267.6	263.1	263.8
30°	716.0	689.8	599.2	494.2	427.4	366.1	307.2	275.2	271.4	268.3	269.3
32.5°	771.8	733.2	626.1	503.5	421.5	369.2	315.5	276.9	258.6	255.5	256.9
35°	799.3	756.3	647.4	511.7	424.3	356.1	305.5	269.6	257.9	254.8	255.9
37.5°	926.4	862.0	681.2	524.1	423.6	338.9	292.0	263.1	241.4	232.1	232.1
40°	1072.4	977.7	740.1	523.5	397.4	324.1	277.2	250.4	233.1	225.9	225.6
42.5°	996.6	906.4	705.6	508.0	371.9	297.2	269.0	244.9	226.3	221.4	220.4
45°	1028.3	931.9	680.8	464.6	333.7	275.8	249.3	232.5	211.1	200.1	199.7
47.5°	927.8	850.3	630.2	409.5	300.6	242.4	225.9	214.9	201.5	192.2	191.1
50°	804.8	726.6	530.3	363.0	256.2	214.9	203.5	198.0	184.6	173.9	174.6
52.5°	769.0	674.3	462.2	316.8	220.4	187.3	181.8	175.6	162.2	149.8	151.2
55°	381.2	315.8	281.0	246.2	184.9	162.9	160.5	156.7	143.3	132.6	132.9
57.5°	177.7	153.2	134.3	142.9	139.5	141.5	140.5	138.1	125.4	110.2	109.2
60°	159.1	136.4	114.0	108.1	114.7	123.6	122.9	115.4	99.2	81.3	79.2
62.5°	153.6	130.5	110.5	101.9	104.7	110.5	106.4	96.8	83.7	67.2	66.8
65°	156.3	131.9	110.2	99.5	101.6	104.0	98.1	91.3	83.3	72.0	72.0
67.5°	162.2	137.1	112.6	98.5	99.5	101.9	96.4	91.6	87.5	79.9	79.9
70°	163.9	139.5	114.0	98.8	97.8	99.9	96.1	91.6	89.2	83.0	82.7
72.5°	164.6	140.9	113.3	97.1	94.7	96.4	93.7	91.6	90.6	85.8	85.1
75°	161.5	139.5	109.9	93.3	90.9	91.6	90.9	90.6	91.9	88.8	87.8
77.5°	157.7	137.4	107.1	89.2	86.4	86.8	86.1	87.1	88.5	86.4	84.7
80°	165.6	143.3	107.4	86.1	80.9	79.2	79.6	80.6	82.3	77.8	75.4
82.5°	168.4	143.6	102.6	79.2	72.7	70.3	70.9	73.7	75.1	70.9	68.5
85°	178.7	150.1	99.2	73.0	65.4	63.0	63.7	65.4	64.7	59.9	57.9
87.5°	174.6	145.7	93.0	65.8	59.6	57.5	57.9	58.5	56.1	49.9	48.2
90°	168.7	140.5	86.1	57.9	52.7	52.0	51.3	50.3	46.1	39.6	37.9
92.5°	158.1	131.2	79.9	52.3	46.8	46.5	45.5	43.4	39.6	33.1	31.3
95°	149.1	122.9	74.0	47.9	42.0	40.6	40.6	38.6	34.4	28.9	28.2
97.5°	134.3	111.9	68.2	44.1	37.5	36.2	35.8	34.4	31.3	27.2	26.9
100°	121.6	101.2	62.0	39.9	33.7	32.4	31.7	31.0	28.6	26.2	26.2
102.5°	112.6	93.7	57.9	36.5	30.3	28.9	28.9	28.2	26.9	25.1	25.1
105°	110.2	91.9	56.1	33.4	26.9	26.2	26.5	26.5	25.5	24.5	24.5
107.5°	95.7	79.2	48.2	29.6	24.5	23.8	24.1	24.5	24.1	23.8	23.8
110°	85.4	72.0	44.8	27.9	23.1	22.0	22.0	22.0	22.0	22.4	22.7



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CATALOG NUMBER: UTLD-AF24-30-D-U-T3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	76.5	64.1	41.0	26.5	21.7	20.7	20.3	20.0	19.6	21.0	21.0
115°	73.0	62.3	39.9	25.8	20.7	19.6	18.6	17.9	17.2	18.3	18.6
117.5°	67.8	58.5	38.9	25.8	20.3	18.6	17.6	16.5	15.5	16.5	16.5
120°	66.5	58.2	39.6	26.2	19.6	17.2	16.2	14.8	14.1	15.2	15.5
122.5°	61.3	54.4	37.5	24.8	18.9	16.5	15.5	12.7	12.7	13.4	13.8
125°	52.0	46.1	32.4	22.4	17.9	16.5	15.2	11.4	11.7	12.4	12.4
127.5°	44.4	39.9	29.6	21.7	18.3	16.9	14.1	10.7	11.4	12.4	12.4
130°	42.0	38.2	30.0	22.7	18.9	17.2	11.7	9.3	11.0	12.1	12.1
132.5°	40.3	37.2	30.0	23.8	19.6	15.8	9.3	8.3	9.3	10.0	10.0
135°	36.5	34.4	28.6	22.7	17.9	12.4	7.6	7.2	8.6	9.3	9.3
137.5°	32.7	30.6	26.2	21.0	15.8	10.0	5.5	6.5	7.2	7.9	7.9
140°	26.9	25.5	21.7	17.2	11.7	5.5	4.1	5.2	6.2	6.9	6.9
142.5°	18.9	18.3	15.2	11.0	6.5	2.1	2.8	3.8	4.5	5.2	5.2
145°	12.4	11.7	9.6	6.9	2.8	0.7	1.7	2.4	3.4	3.8	3.8
147.5°	7.9	7.6	5.9	3.4	1.0	0.7	0.7	1.7	2.8	3.1	3.1
150°	3.8	3.4	2.4	1.0	0.7	0.3	0.3	0.7	1.7	2.1	2.1
152.5°	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.3	0.3	0.7	0.7
155°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.3	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	0.3	0.3	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)