

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: P266311

Luminaire Tested: **UTLD-AF24-30-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2482.2 lumens
Efficiency: N/A
Efficacy: 80.1 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

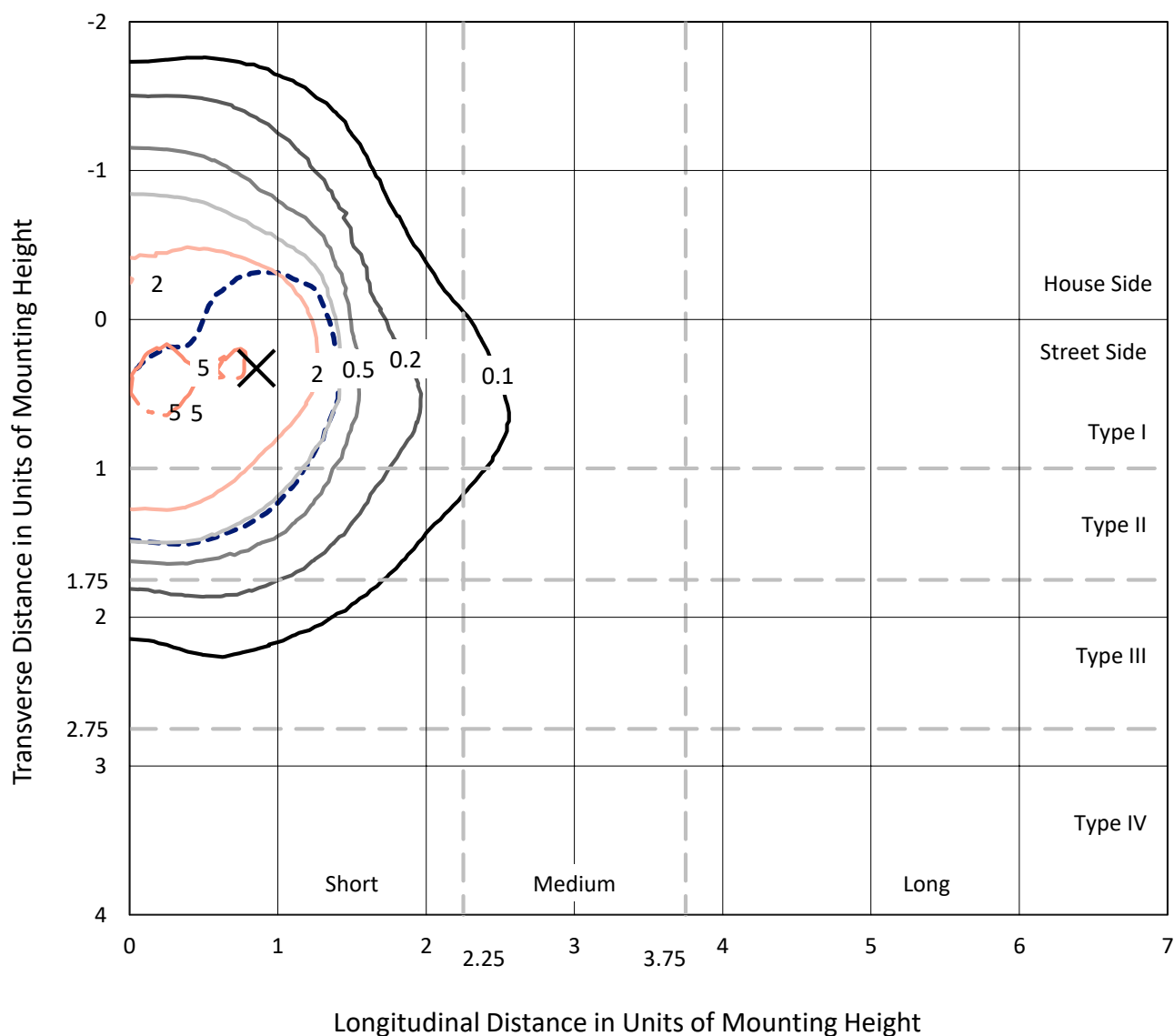


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

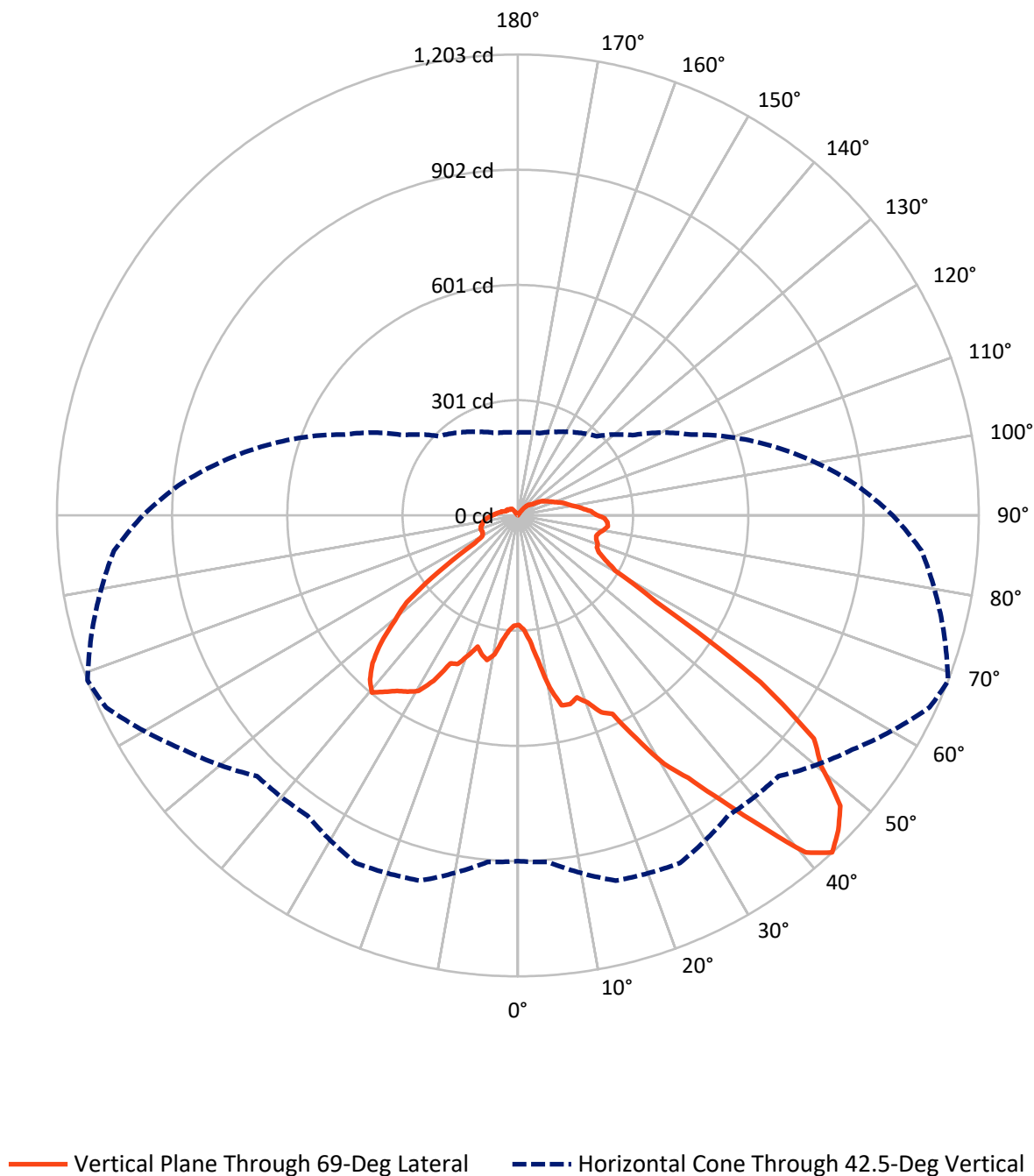


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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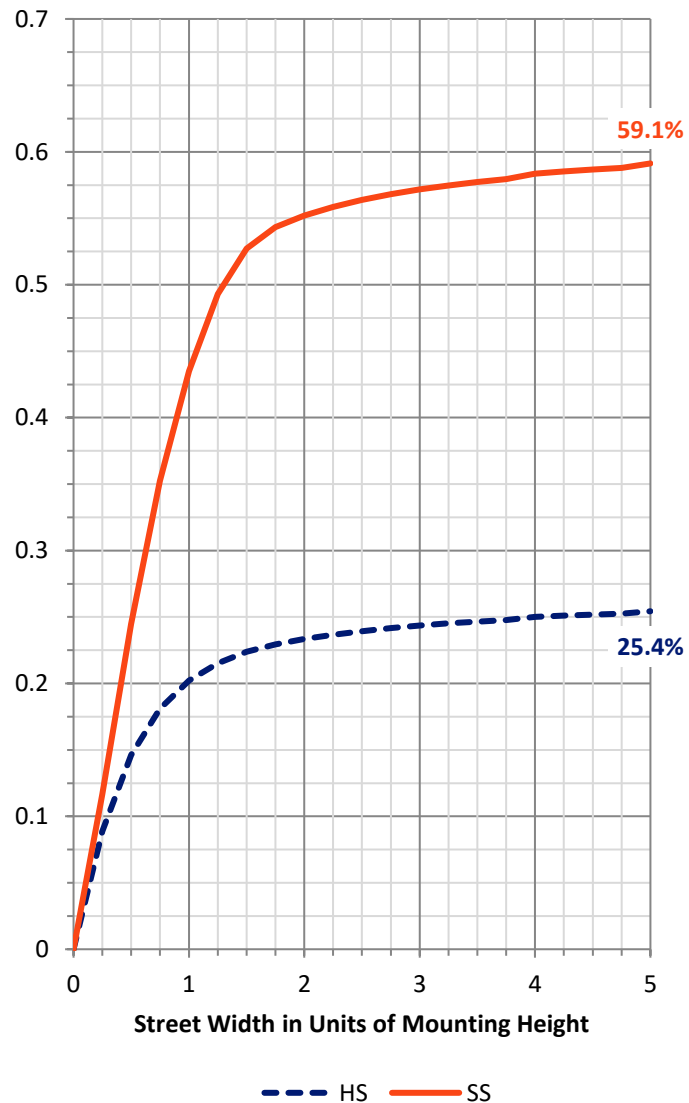
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.0	78.8	732.8
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	1515.5	233.8	1749.3
	% Fixture	61.1	9.4	70.5
Total	Lumens	2169.5	312.6	2482.2
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	1.3
10°-20°	119.4	4.8
20°-30°	244.2	9.8
30°-40°	410.8	16.5
40°-50°	543.8	21.9
50°-60°	392.1	15.8
60°-70°	154.0	6.2
70°-80°	138.8	5.6
80°-90°	135.3	5.4
90°-100°	114.1	4.6
100°-110°	81.1	3.3
110°-120°	54.7	2.2
120°-130°	35.8	1.4
130°-140°	21.4	0.9
140°-150°	5.4	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2169.5	87.4
0°-180°	2482.2	100.0

Coefficient of Utilization



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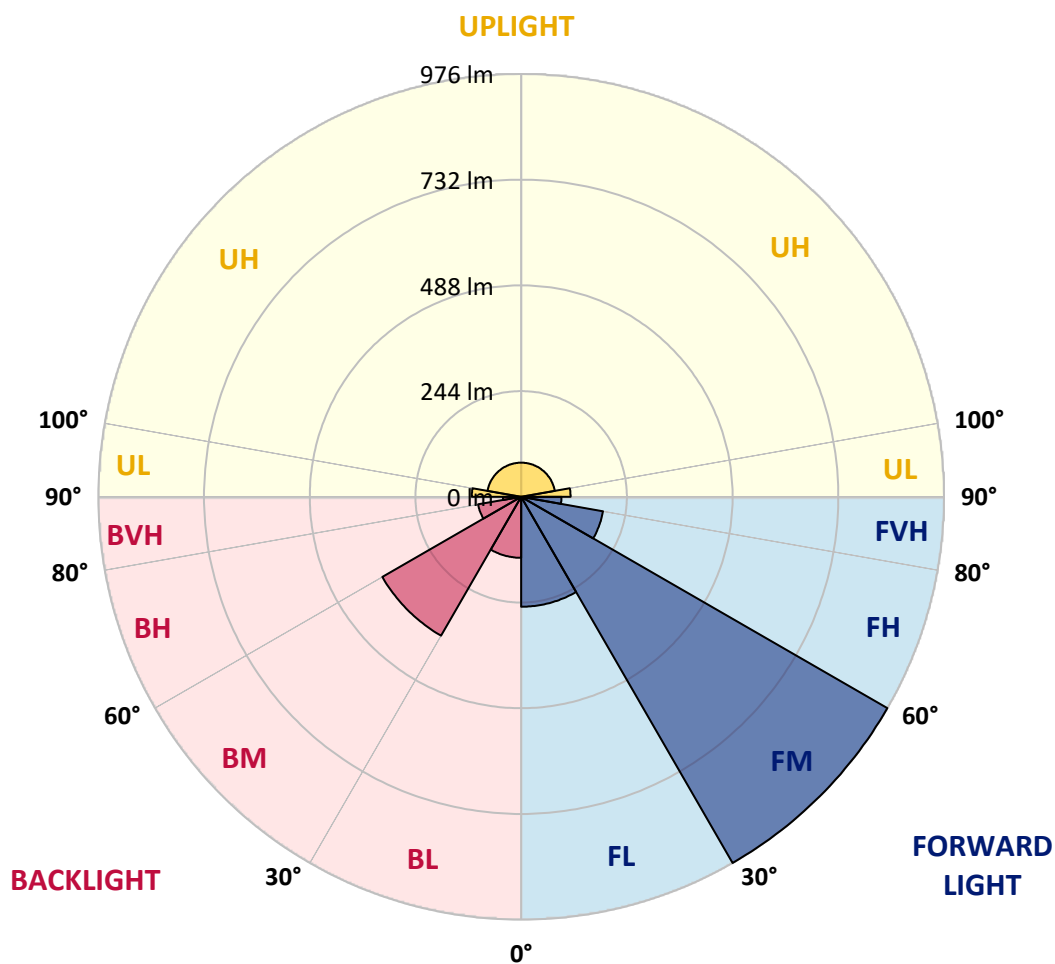
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.9	10.2			
FM	(30°-60°)	976.5	39.3			
FH	(60°-80°)	191.9	7.7			G0/660
FVH	(80°-90°)	93.2	3.8			G1/100
BL	(0°-30°)	140.9	5.7	B1/500		
BM	(30°-60°)	370.2	14.9	B1/1000		
BH	(60°-80°)	100.9	4.1	B0/110		G0/110
BVH	(80°-90°)	42.1	1.7			G1/100
UL	(90°-100°)	114.1	4.6		U3/500	
UH	(100°-180°)	78.8	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°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7
2.5°	304.2	302.5	301.8	301.8	300.8	300.6	301.1	300.2	298.4	298.1	296.1
5°	325.5	324.7	324.5	327.3	329.6	330.2	329.6	329.6	327.5	327.5	321.1
7.5°	359.6	358.7	361.3	368.0	370.5	377.6	386.0	380.9	382.3	378.5	366.4
10°	399.1	397.5	409.9	419.1	440.1	448.9	459.8	458.7	456.7	450.2	429.8
12.5°	435.0	434.1	450.2	483.4	511.3	539.8	542.1	518.9	508.4	485.4	460.0
15°	479.6	480.7	505.2	552.3	593.9	605.4	576.6	530.7	511.0	487.4	450.0
17.5°	551.6	555.1	597.0	650.4	678.0	631.7	570.2	517.5	498.9	473.1	437.0
20°	593.5	595.5	653.0	725.3	733.5	658.4	594.6	537.7	521.6	501.3	471.5
22.5°	618.6	625.9	691.9	780.4	775.6	720.6	632.0	578.2	558.0	530.3	505.9
25°	658.7	664.1	727.4	812.8	791.9	740.9	665.6	593.9	573.9	553.6	529.3
27.5°	713.2	718.3	789.3	838.6	816.6	768.0	715.5	669.5	659.0	655.8	645.3
30°	742.3	745.7	825.5	867.0	829.5	806.8	792.2	755.5	752.4	745.7	721.6
32.5°	758.8	771.6	864.3	888.2	839.2	836.5	845.3	822.7	816.6	805.2	777.5
35°	773.7	780.1	867.4	903.9	855.1	853.7	914.2	924.7	911.2	887.5	821.3
37.5°	888.2	891.3	951.1	938.3	876.0	883.6	983.3	1037.6	1025.4	996.1	950.4
40°	950.4	955.8	1011.3	984.6	920.4	928.8	1033.0	1145.8	1156.7	1155.6	1115.8
42.5°	902.1	907.8	986.6	1000.8	956.5	962.3	1065.4	1185.4	1202.7	1149.6	1057.7
45°	1059.6	1064.0	1108.2	1004.6	931.9	953.8	1040.1	1156.7	1172.2	1156.7	1077.8
47.5°	1059.3	1053.9	1090.7	1015.1	930.1	915.4	984.9	1101.5	1132.4	1096.8	1011.3
50°	931.3	930.9	1021.8	978.2	911.9	877.5	924.4	1016.7	1024.2	982.6	868.0
52.5°	813.2	812.5	917.7	895.4	852.1	818.3	847.5	939.3	967.7	931.3	835.6
55°	708.9	737.9	830.2	782.5	764.5	731.1	760.1	782.9	768.3	666.9	450.0
57.5°	429.3	461.4	581.7	616.1	620.2	596.3	530.3	452.9	425.2	339.6	202.7
60°	200.1	207.9	305.2	371.4	453.3	414.4	335.2	291.9	291.9	256.6	176.1
62.5°	140.9	146.3	200.4	239.7	271.4	267.6	238.0	244.0	256.1	240.3	169.7
65°	132.5	135.9	178.5	190.4	202.5	204.9	200.9	219.4	232.2	230.1	172.0
67.5°	123.1	127.4	163.0	170.7	180.2	184.5	187.6	209.2	222.7	230.1	178.9
70°	111.8	117.0	150.3	161.2	170.4	180.5	184.2	207.5	221.4	228.8	181.2
72.5°	101.4	105.8	133.8	147.3	163.6	175.3	190.4	204.5	213.9	221.7	182.5
75°	91.3	96.3	120.1	135.6	154.5	176.7	194.8	205.2	211.6	217.7	180.7
77.5°	84.5	89.9	108.4	126.4	149.1	179.8	200.1	213.5	217.3	218.4	178.9
80°	78.4	84.5	104.2	123.1	147.7	181.2	206.5	222.7	227.8	230.1	190.4
82.5°	82.9	88.3	105.1	128.1	152.2	180.7	204.9	230.5	236.3	234.8	194.0
85°	93.7	98.1	118.7	140.2	158.9	177.8	198.7	226.8	234.8	242.1	205.5
87.5°	113.9	115.9	130.9	150.7	165.9	172.0	193.0	219.4	226.8	229.2	200.1
90°	124.8	126.8	144.3	160.8	165.6	167.7	172.0	198.4	203.8	213.3	191.2
92.5°	137.3	137.3	155.4	165.3	165.3	156.8	159.9	183.6	192.6	198.0	177.8
95°	149.4	148.7	158.9	164.6	155.9	144.0	149.1	167.7	173.5	179.1	165.3
97.5°	153.2	152.8	158.9	155.4	140.9	129.7	136.3	152.2	158.2	164.3	150.0
100°	149.1	147.3	149.1	141.7	128.1	119.7	123.3	136.5	143.0	148.0	135.3
102.5°	140.2	139.2	140.0	132.5	118.2	108.2	113.2	127.1	131.8	135.9	124.3
105°	136.3	134.6	131.5	120.6	106.8	99.7	104.2	117.9	122.3	130.4	121.0
107.5°	115.9	114.5	112.2	106.4	99.4	94.0	97.6	107.4	110.2	114.3	105.5
110°	100.0	99.4	98.8	97.3	93.0	89.2	91.3	96.7	100.0	103.0	94.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	96.7	95.7	95.0	92.6	86.9	82.9	84.3	90.2	92.3	93.2	83.8
115°	92.3	91.3	87.6	84.3	80.0	78.2	78.4	83.5	84.8	85.5	79.8
117.5°	81.7	80.8	78.4	77.1	74.6	73.8	75.4	78.2	78.4	78.7	73.8
120°	75.6	75.4	74.0	71.7	70.0	67.6	70.2	73.0	74.0	75.1	71.7
122.5°	69.0	68.4	67.0	63.9	63.9	62.5	62.3	63.9	64.1	67.0	65.2
125°	60.8	60.1	58.7	56.1	59.5	59.5	57.1	53.4	54.3	56.9	55.4
127.5°	54.3	53.8	52.5	51.1	55.8	57.4	53.4	46.6	47.3	48.0	47.0
130°	53.4	52.7	51.1	48.7	50.0	55.1	48.0	42.6	43.6	44.2	43.6
132.5°	52.5	52.0	49.6	46.6	44.9	49.6	41.6	40.2	41.2	42.2	41.6
135°	49.0	48.7	46.6	42.2	37.5	39.9	33.1	35.2	36.8	38.2	37.5
137.5°	43.6	43.3	41.6	37.2	30.7	28.7	25.3	30.1	31.4	33.1	33.1
140°	35.2	34.9	33.1	28.7	21.6	15.2	16.2	22.9	24.3	26.4	26.7
142.5°	25.7	25.1	23.4	19.3	12.1	5.1	9.2	13.8	15.5	17.5	19.0
145°	17.5	17.2	14.9	11.5	5.7	0.7	4.0	8.4	9.4	10.8	12.1
147.5°	11.1	11.1	9.4	6.4	1.6	0.7	1.0	4.4	5.4	6.7	7.7
150°	6.7	6.7	5.1	2.1	0.3	0.3	0.3	0.7	1.6	3.1	4.0
152.5°	1.6	1.6	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°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7
2.5°	295.1	293.0	290.3	286.6	282.8	279.3	275.5	273.4	272.5	271.7	271.4
5°	319.3	315.0	307.8	298.1	285.9	278.8	273.8	267.6	263.7	262.2	261.2
7.5°	362.3	355.2	341.0	320.1	305.2	284.3	266.3	254.8	246.4	241.6	241.6
10°	419.8	409.6	385.0	356.3	318.1	281.2	253.5	232.5	222.7	218.6	217.7
12.5°	445.1	435.4	406.3	372.7	332.3	289.3	254.2	229.2	217.3	212.5	213.3
15°	432.4	418.8	393.7	362.3	330.5	303.5	274.2	243.0	222.7	217.3	219.0
17.5°	419.5	405.7	378.8	344.1	313.0	295.1	274.4	253.5	234.3	226.5	225.1
20°	457.0	446.8	410.6	371.1	324.5	279.3	264.6	255.2	248.8	249.1	246.0
22.5°	492.8	478.9	445.7	399.6	349.1	309.6	285.9	273.4	266.3	269.4	269.8
25°	516.9	506.4	457.2	401.9	360.0	330.5	296.4	278.8	267.1	267.1	265.7
27.5°	638.9	612.9	535.1	450.2	387.7	339.0	297.8	277.4	262.7	258.3	258.9
30°	702.7	677.1	588.1	485.1	419.5	359.3	301.6	270.1	266.3	263.4	264.3
32.5°	757.5	719.6	614.5	494.2	413.7	362.3	309.6	271.7	253.9	250.7	252.2
35°	784.5	742.3	635.5	502.2	416.5	349.5	299.9	264.6	253.1	250.1	251.2
37.5°	909.3	846.1	668.6	514.4	415.7	332.6	286.6	258.3	237.0	227.8	227.8
40°	1052.5	959.6	726.4	513.8	390.0	318.1	272.0	245.7	228.8	221.7	221.4
42.5°	978.2	889.6	692.6	498.6	365.0	291.7	264.0	240.3	222.2	217.3	216.3
45°	1009.2	914.7	668.2	456.0	327.5	270.7	244.7	228.2	207.1	196.4	196.0
47.5°	910.6	834.5	618.6	401.9	295.1	238.0	221.7	210.9	197.7	188.6	187.6
50°	789.9	713.2	520.5	356.3	251.4	210.9	199.8	194.4	181.2	170.7	171.3
52.5°	754.8	661.8	453.6	311.0	216.3	183.9	178.5	172.4	159.2	147.1	148.4
55°	374.1	309.9	275.8	241.6	181.5	159.9	157.6	153.8	140.7	130.2	130.4
57.5°	174.5	150.3	131.8	140.2	136.9	138.9	137.9	135.6	123.1	108.2	107.2
60°	156.1	133.8	111.8	106.1	112.6	121.4	120.6	113.2	97.3	79.8	77.8
62.5°	150.7	128.1	108.4	100.0	102.8	108.4	104.5	95.0	82.1	65.9	65.5
65°	153.4	129.4	108.2	97.6	99.7	102.0	96.3	89.7	81.7	70.6	70.6
67.5°	159.2	134.6	110.5	96.7	97.6	100.0	94.6	89.9	85.9	78.4	78.4
70°	160.8	136.9	111.8	96.9	95.9	98.1	94.3	89.9	87.6	81.4	81.1
72.5°	161.5	138.2	111.2	95.3	93.0	94.6	91.9	89.9	88.9	84.3	83.5
75°	158.6	136.9	107.8	91.5	89.2	89.9	89.2	88.9	90.2	87.1	86.1
77.5°	154.8	134.8	105.1	87.6	84.8	85.2	84.5	85.5	86.9	84.8	83.2
80°	162.6	140.7	105.5	84.5	79.4	77.8	78.2	79.1	80.8	76.4	74.0
82.5°	165.3	140.9	100.7	77.8	71.3	69.0	69.6	72.4	73.8	69.6	67.3
85°	175.3	147.3	97.3	71.7	64.1	61.9	62.5	64.1	63.5	58.7	56.9
87.5°	171.3	143.0	91.3	64.6	58.5	56.5	56.9	57.4	55.1	49.0	47.3
90°	165.6	137.9	84.5	56.9	51.7	51.1	50.3	49.3	45.3	38.8	37.2
92.5°	155.1	128.7	78.4	51.4	46.0	45.6	44.6	42.6	38.8	32.5	30.7
95°	146.3	120.6	72.7	47.0	41.2	39.9	39.9	37.9	33.7	28.3	27.7
97.5°	131.8	109.9	67.0	43.3	36.8	35.6	35.2	33.7	30.7	26.7	26.4
100°	119.4	99.4	60.8	39.2	33.1	31.8	31.1	30.5	28.0	25.7	25.7
102.5°	110.5	91.9	56.9	35.8	29.7	28.3	28.3	27.7	26.4	24.7	24.7
105°	108.2	90.2	55.1	32.8	26.4	25.7	26.1	26.1	25.1	24.1	24.1
107.5°	94.0	77.8	47.3	29.0	24.1	23.4	23.6	24.1	23.6	23.4	23.4
110°	83.8	70.6	43.9	27.4	22.6	21.6	21.6	21.6	21.6	22.0	22.3



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CATALOG NUMBER: UTLD-AF24-30-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	75.1	62.9	40.2	26.1	21.3	20.3	19.9	19.7	19.3	20.7	20.7
115°	71.7	61.2	39.2	25.3	20.3	19.3	18.2	17.5	16.9	18.0	18.2
117.5°	66.6	57.4	38.2	25.3	19.9	18.2	17.2	16.2	15.2	16.2	16.2
120°	65.2	57.1	38.8	25.7	19.3	16.9	15.9	14.6	13.8	14.9	15.2
122.5°	60.1	53.4	36.8	24.3	18.5	16.2	15.2	12.4	12.4	13.1	13.6
125°	51.1	45.3	31.8	22.0	17.5	16.2	14.9	11.1	11.5	12.1	12.1
127.5°	43.6	39.2	29.0	21.3	18.0	16.6	13.8	10.5	11.1	12.1	12.1
130°	41.2	37.5	29.5	22.3	18.5	16.9	11.5	9.2	10.8	11.9	11.9
132.5°	39.5	36.6	29.5	23.4	19.3	15.5	9.2	8.2	9.2	9.8	9.8
135°	35.8	33.7	28.0	22.3	17.5	12.1	7.5	7.0	8.4	9.2	9.2
137.5°	32.1	30.1	25.7	20.7	15.5	9.8	5.4	6.4	7.0	7.7	7.7
140°	26.4	25.1	21.3	16.9	11.5	5.4	4.0	5.1	6.1	6.7	6.7
142.5°	18.5	18.0	14.9	10.8	6.4	2.1	2.8	3.8	4.4	5.1	5.1
145°	12.1	11.5	9.4	6.7	2.8	0.7	1.6	2.3	3.4	3.8	3.8
147.5°	7.7	7.5	5.7	3.4	1.0	0.7	0.7	1.6	2.8	3.1	3.1
150°	3.8	3.4	2.3	1.0	0.7	0.3	0.3	0.7	1.6	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)