

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: P240310

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T2U-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4668.6 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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

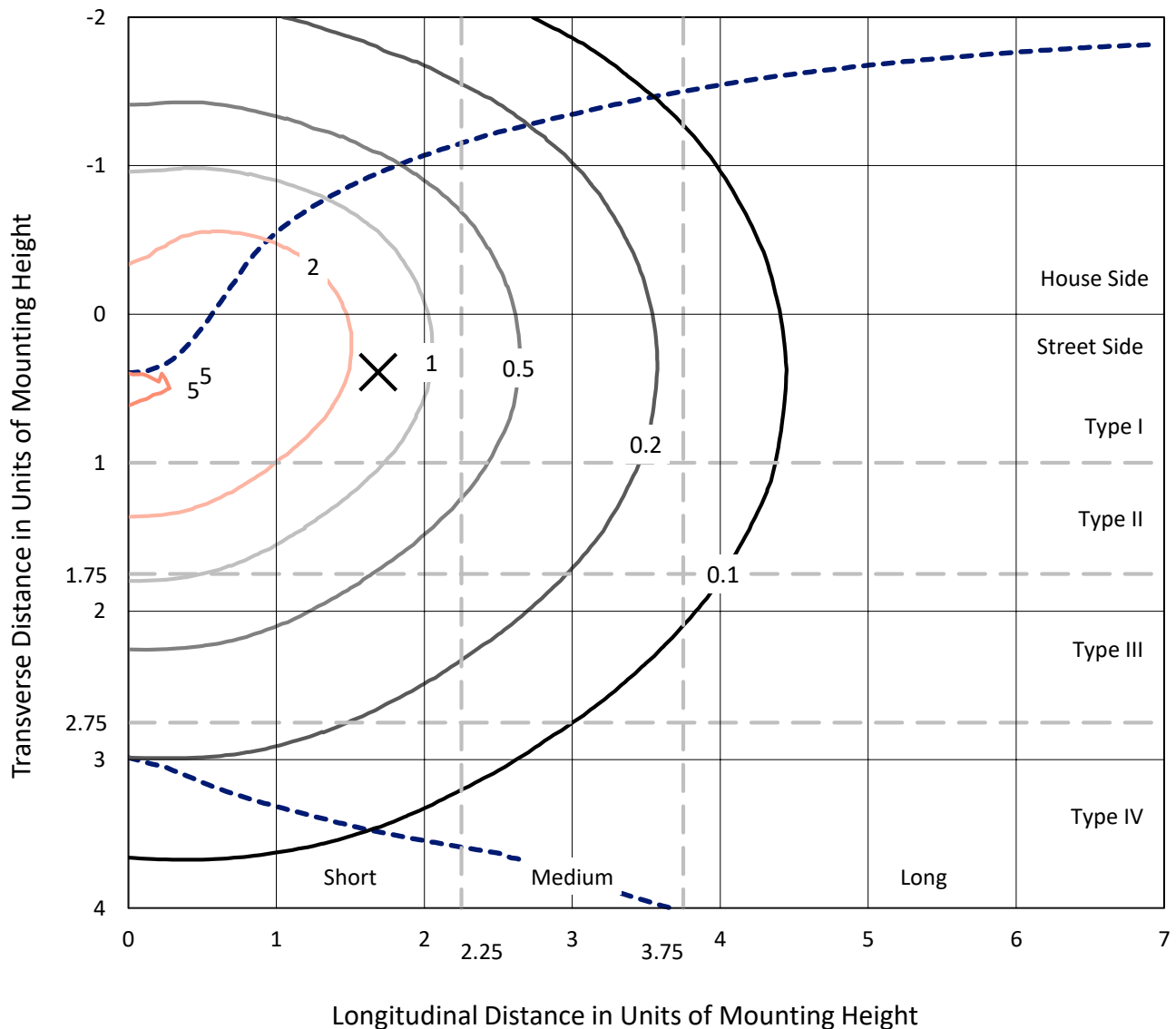


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

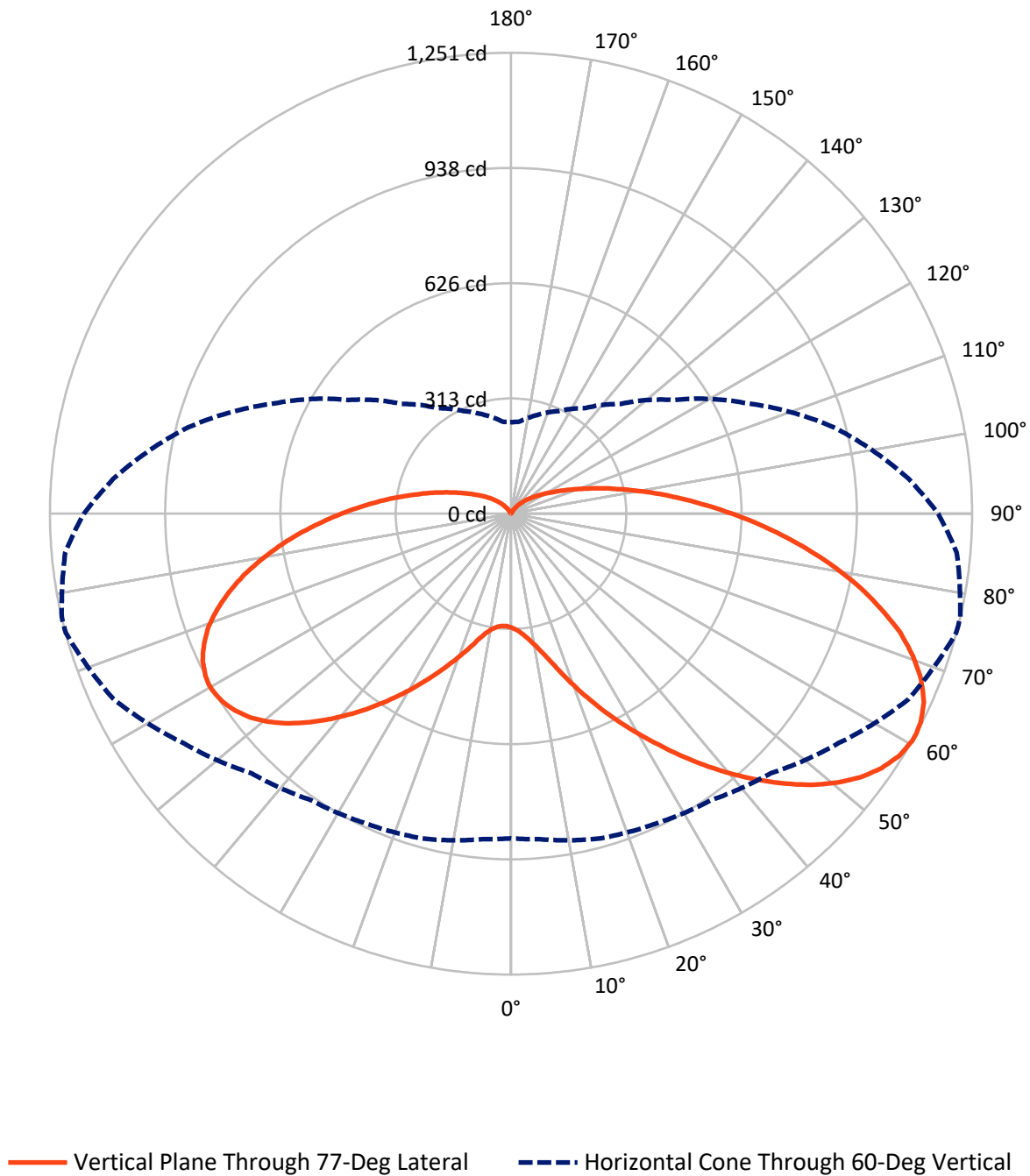


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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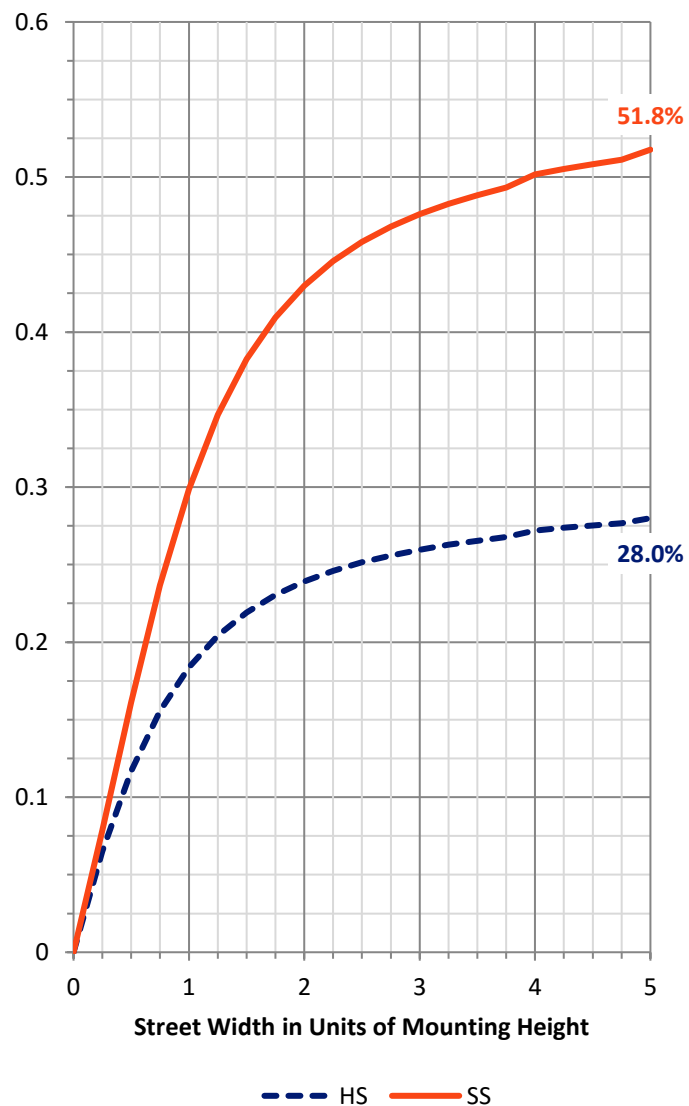
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1388.4	298.2	1686.6
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	2561.2	420.9	2982.1
	% Fixture	54.9	9.0	63.9
Total	Lumens	3949.6	719.1	4668.6
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	0.7
10°-20°	108.7	2.3
20°-30°	233.0	5.0
30°-40°	401.6	8.6
40°-50°	583.0	12.5
50°-60°	717.5	15.4
60°-70°	743.5	15.9
70°-80°	648.2	13.9
80°-90°	483.2	10.3
90°-100°	319.4	6.8
100°-110°	194.9	4.2
110°-120°	111.7	2.4
120°-130°	59.0	1.3
130°-140°	26.1	0.6
140°-150°	7.3	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3949.6	84.6
0°-180°	4668.6	100.0

Coefficient of Utilization



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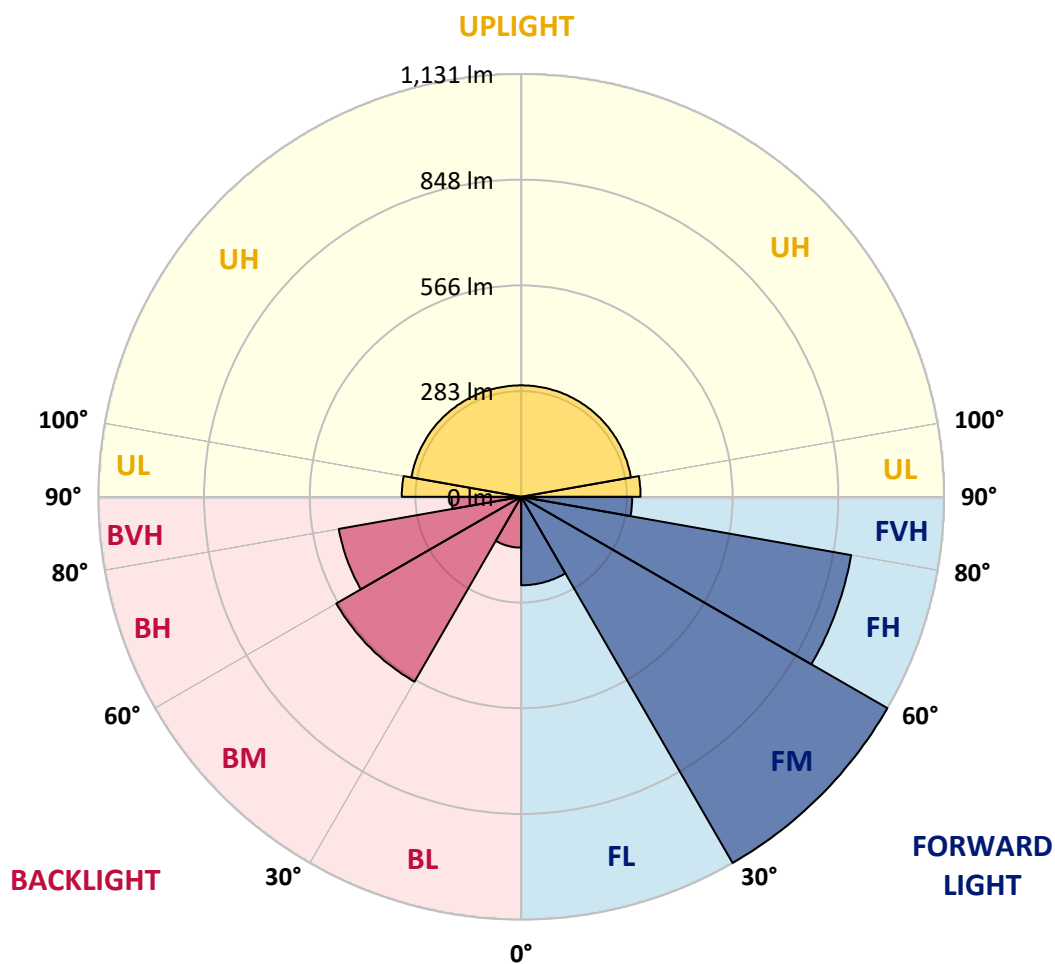
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	236.6	5.1			
FM	(30°-60°)	1131.1	24.2			
FH	(60°-80°)	896.5	19.2			G1/1800
FVH	(80°-90°)	297.0	6.4			G3/500
BL	(0°-30°)	136.0	2.9	B1/500		
BM	(30°-60°)	571.1	12.2	B1/1000		
BH	(60°-80°)	495.2	10.6	B1/500		G1/500
BVH	(80°-90°)	186.2	4.0			G2/225
UL	(90°-100°)	319.4	6.8		U3/500	
UH	(100°-180°)	298.2	6.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9
2.5°	336.5	336.5	335.3	334.8	332.3	329.3	326.2	322.0	317.7	316.6	314.1
5°	365.7	365.7	364.5	361.4	357.2	351.7	345.0	338.3	329.9	328.1	321.4
7.5°	398.4	397.1	394.2	391.1	385.0	377.2	368.1	357.9	346.3	343.8	334.2
10°	431.1	431.1	428.1	423.3	415.9	405.7	394.8	382.1	366.9	363.9	351.2
12.5°	468.7	467.5	462.7	459.1	450.5	439.0	426.8	411.2	393.0	389.9	373.5
15°	508.8	508.2	503.9	496.0	486.3	475.4	462.7	445.7	426.3	421.4	403.2
17.5°	553.6	550.0	547.6	539.0	528.9	514.8	505.1	487.6	466.3	460.8	438.4
20°	594.9	595.5	590.0	582.8	573.1	563.3	549.3	533.6	510.6	503.3	477.9
22.5°	641.6	641.6	636.1	628.9	619.2	614.2	598.5	582.2	554.3	548.8	520.3
25°	690.1	688.3	682.9	676.1	671.3	665.3	650.6	631.3	602.8	597.3	565.2
27.5°	735.0	735.6	728.9	723.4	722.9	715.0	702.9	682.3	654.9	647.1	612.5
30°	781.1	781.6	776.9	770.2	770.8	765.9	755.6	734.3	708.3	699.1	662.2
32.5°	827.1	825.9	819.2	818.7	816.8	813.2	805.4	792.0	763.5	753.8	715.5
35°	868.4	868.4	861.7	864.1	860.5	859.9	857.4	847.2	821.7	812.1	770.8
37.5°	906.7	906.0	902.4	902.9	900.6	899.9	904.1	902.9	879.3	871.5	829.0
40°	941.7	938.1	935.0	937.6	935.0	938.7	949.0	956.3	936.4	930.3	887.1
42.5°	966.0	964.8	963.5	967.8	964.2	972.7	989.1	1006.6	994.5	988.5	945.4
45°	985.4	983.0	985.4	989.7	987.2	998.2	1027.2	1054.0	1054.0	1045.5	1001.2
47.5°	993.2	992.7	998.7	1002.4	1001.2	1018.8	1057.6	1098.2	1106.7	1100.0	1055.1
50°	991.5	991.5	1001.2	1006.6	1007.8	1030.9	1080.0	1133.3	1152.8	1147.3	1103.1
52.5°	979.9	979.9	994.5	1001.2	1006.1	1035.1	1095.3	1163.1	1191.6	1188.5	1144.3
55°	958.1	957.5	976.3	984.9	995.2	1030.9	1101.3	1182.5	1221.9	1219.5	1179.5
57.5°	924.3	925.4	948.5	961.8	975.1	1017.5	1098.2	1192.2	1242.5	1241.3	1201.9
60°	881.0	887.1	913.3	928.3	948.5	996.3	1085.5	1190.4	1250.5	1251.0	1214.1
61°	862.9	868.9	895.7	913.9	935.0	986.1	1078.2	1186.8	1249.8	1251.0	1215.3
62.5°	833.8	837.5	868.9	890.8	913.9	967.3	1063.6	1177.0	1245.5	1247.4	1213.5
65°	779.2	785.9	818.1	845.3	872.7	930.9	1032.1	1152.1	1228.0	1231.1	1199.4
67.5°	719.3	727.1	764.0	795.6	827.1	889.1	993.2	1116.4	1196.5	1200.1	1172.8
70°	659.8	669.4	708.3	739.8	778.6	842.3	945.9	1070.3	1153.3	1157.0	1133.3
72.5°	599.2	610.1	650.1	686.4	725.9	790.7	893.2	1015.8	1099.4	1104.3	1082.4
75°	538.5	552.5	590.0	631.8	671.3	738.0	838.7	957.5	1033.4	1038.2	1021.2
77.5°	483.9	496.0	533.0	576.7	619.7	683.4	779.2	888.4	967.3	969.6	954.5
80°	428.8	441.5	481.5	522.7	568.2	629.5	718.0	818.7	887.1	893.8	878.1
82.5°	379.5	392.3	429.9	474.8	518.4	577.3	655.5	747.2	807.8	815.0	804.1
85°	338.3	347.5	384.5	427.5	470.0	525.7	600.9	680.3	735.0	736.2	725.3
87.5°	297.1	306.8	342.0	383.8	426.8	477.9	542.2	610.6	654.9	659.2	648.2
90°	263.2	269.3	302.6	343.8	385.6	432.3	488.2	548.8	584.5	584.5	576.2
92.5°	233.5	236.5	269.9	309.3	349.3	389.3	438.4	485.1	516.0	515.4	505.8
95°	206.2	209.8	237.7	275.9	314.7	351.7	391.7	428.8	451.8	453.0	441.5
97.5°	181.9	184.3	210.5	248.0	282.6	317.2	350.5	380.2	395.4	395.9	387.6
100°	162.5	162.5	187.4	220.7	254.1	285.0	313.5	336.0	342.6	342.0	334.8
102.5°	145.6	144.3	165.5	197.6	228.6	255.3	278.4	293.0	298.4	296.5	291.7
105°	129.2	130.3	146.7	177.1	205.0	228.6	246.2	258.3	258.3	257.1	252.3
107.5°	117.0	116.5	129.2	157.2	183.8	204.4	218.3	224.4	222.6	220.7	217.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	104.9	104.9	114.6	140.7	163.8	182.6	192.2	195.9	190.4	189.8	189.2
112.5°	94.6	94.6	102.4	124.3	146.2	161.9	169.8	170.5	164.3	163.8	164.3
115°	86.8	86.8	91.0	110.4	130.3	144.3	151.0	147.9	141.9	141.3	143.1
117.5°	78.8	78.8	82.5	96.3	115.3	128.0	132.2	128.0	122.5	122.5	124.9
120°	72.1	72.1	73.4	84.2	101.3	112.2	115.3	110.4	106.1	106.1	108.5
122.5°	66.1	65.4	66.1	73.4	87.3	97.7	98.9	94.6	91.6	92.3	95.8
125°	60.0	60.0	59.4	63.7	75.2	83.7	84.9	80.1	80.1	80.1	83.0
127.5°	54.6	54.6	53.3	55.1	63.7	70.9	70.9	67.3	68.5	69.7	72.1
130°	49.7	49.7	48.5	48.5	52.8	58.8	58.8	56.4	59.4	60.0	62.5
132.5°	44.9	44.2	43.0	41.2	43.0	46.7	46.7	46.1	51.0	51.6	53.3
135°	40.0	39.5	38.2	35.2	34.5	35.7	35.7	37.5	42.5	43.0	45.5
137.5°	34.5	34.5	32.8	29.7	26.1	26.1	26.1	29.7	34.5	35.7	37.0
140°	29.7	29.7	27.9	24.2	19.4	17.6	18.2	23.1	27.9	28.5	29.7
142.5°	24.2	24.2	22.4	18.8	13.9	10.3	11.5	16.4	20.6	21.9	23.1
145°	18.8	18.8	16.9	13.3	8.5	5.5	6.7	11.5	14.5	15.2	16.4
147.5°	13.9	13.9	12.1	9.1	4.8	1.8	3.6	6.7	9.8	10.3	11.5
150°	9.1	9.1	7.8	4.8	2.4	0.0	1.2	3.6	5.5	6.1	6.7
152.5°	4.8	4.8	3.6	2.4	0.6	0.0	0.0	1.2	2.4	2.4	3.1
155°	2.4	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6	1.2
157.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	0.6	0.6	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°	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9
2.5°	311.7	309.3	304.4	300.8	296.5	293.0	289.9	287.5	286.8	285.0	285.6
5°	317.2	312.9	303.8	295.9	287.5	280.1	274.1	269.9	266.8	265.6	264.4
7.5°	327.4	320.2	306.8	294.1	282.0	271.1	261.3	255.3	250.4	248.0	248.0
10°	342.0	332.9	314.1	297.1	280.1	265.6	253.5	243.7	237.7	234.7	235.2
12.5°	361.9	349.8	326.9	303.8	283.2	264.4	248.0	237.7	230.4	226.8	226.8
15°	390.5	377.2	346.3	316.6	288.7	265.6	248.0	236.5	231.1	228.6	228.1
17.5°	425.1	407.5	372.3	336.5	301.3	272.9	255.3	244.4	236.5	233.5	232.8
20°	460.3	440.2	399.1	359.0	319.6	288.7	267.4	252.8	242.5	238.3	237.7
22.5°	500.3	477.3	428.8	381.5	339.0	309.3	279.6	260.8	248.7	243.2	242.5
25°	541.5	516.0	461.5	408.1	365.0	329.3	294.7	268.7	254.1	247.4	246.8
27.5°	585.2	557.9	495.5	434.8	389.9	348.1	308.6	275.9	259.0	251.7	251.1
30°	633.7	600.9	532.4	465.8	414.7	365.7	322.0	284.4	263.8	255.3	254.1
32.5°	684.1	647.7	570.0	498.4	437.8	381.5	332.9	293.5	268.7	259.0	258.3
35°	736.7	696.2	608.8	530.6	458.5	395.4	342.6	301.3	272.3	262.0	260.8
37.5°	792.0	747.2	649.4	560.9	478.4	407.5	350.5	308.1	275.9	263.8	262.6
40°	847.2	795.6	689.5	591.8	496.7	417.8	357.2	312.9	278.4	265.6	264.4
42.5°	900.6	847.8	730.1	620.4	512.4	425.7	361.9	317.2	280.8	266.8	265.0
45°	952.6	897.4	768.9	644.6	525.7	431.8	365.0	319.6	283.7	266.8	265.0
47.5°	1004.8	944.2	807.1	665.8	535.5	436.1	366.2	320.7	285.6	266.3	264.4
50°	1052.1	986.1	839.8	684.6	542.7	437.2	365.7	320.2	286.3	265.0	262.6
52.5°	1091.0	1023.0	867.2	697.9	547.0	436.6	363.9	318.9	285.6	262.6	260.8
55°	1124.3	1051.5	887.1	706.5	547.0	433.5	360.8	316.6	283.2	259.5	257.1
57.5°	1146.1	1072.7	900.6	710.0	544.5	428.1	355.3	312.3	280.8	255.3	252.8
60°	1158.8	1083.1	906.0	707.7	537.9	420.8	349.3	307.4	277.1	250.4	248.0
61°	1160.2	1084.3	906.0	705.3	534.9	417.8	346.9	305.6	275.4	248.7	245.7
62.5°	1158.8	1083.1	902.9	699.8	528.9	412.4	342.0	301.3	271.6	244.4	242.5
65°	1146.6	1071.5	890.8	685.8	515.4	401.4	333.6	294.7	265.6	238.3	235.2
67.5°	1120.7	1048.5	868.9	666.5	499.7	388.8	323.9	286.8	259.0	231.1	227.4
70°	1083.1	1014.5	841.8	644.0	482.1	374.8	312.9	277.7	250.4	223.8	218.9
72.5°	1036.4	973.3	803.5	615.4	461.5	360.2	301.3	268.0	241.4	215.2	209.2
75°	978.1	920.5	761.1	584.0	438.4	343.2	289.2	257.1	231.1	206.2	199.5
77.5°	913.9	862.3	715.0	549.3	415.4	326.9	275.9	245.0	220.1	195.9	189.2
80°	843.5	798.6	662.7	513.0	391.1	309.9	262.6	233.5	209.2	185.5	177.6
82.5°	771.4	731.4	610.6	476.1	365.0	292.3	248.0	220.7	197.1	174.6	166.2
85°	697.9	663.4	557.9	437.8	339.0	274.7	234.7	208.0	184.3	163.2	155.8
87.5°	625.2	595.5	503.9	401.4	315.3	257.8	220.7	195.2	172.2	151.7	144.3
90°	557.3	531.9	454.2	367.4	291.7	240.2	206.8	182.6	160.1	139.6	134.6
92.5°	493.0	471.2	406.3	331.7	268.0	223.1	192.9	169.3	146.7	128.0	124.9
95°	434.8	414.2	362.6	300.1	246.2	208.0	179.5	157.2	134.6	117.0	114.6
97.5°	377.8	365.0	322.0	269.9	225.0	191.6	166.2	144.9	123.1	106.7	105.6
100°	330.5	317.2	282.6	242.0	205.6	177.1	153.4	132.8	112.2	97.0	96.3
102.5°	287.5	278.4	249.2	218.3	186.8	161.2	140.7	121.3	101.3	88.0	88.0
105°	251.1	242.5	220.7	194.1	168.6	147.9	128.0	109.2	90.3	78.8	79.4
107.5°	216.5	211.0	192.9	171.6	151.7	134.1	115.9	97.7	79.4	70.4	70.9



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CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	188.6	183.1	169.3	153.4	136.5	121.3	104.4	86.8	69.2	63.7	63.7
112.5°	163.8	160.1	148.6	135.8	122.5	109.2	94.0	76.4	60.6	56.4	57.1
115°	143.1	140.1	130.3	120.6	109.8	98.3	83.7	66.7	52.8	51.0	51.0
117.5°	124.3	122.5	114.6	106.1	97.7	87.3	74.0	57.6	45.5	45.5	45.5
120°	108.5	106.7	100.6	93.4	86.1	77.0	63.7	49.1	40.0	40.0	40.7
122.5°	95.2	94.0	88.0	82.5	75.8	66.7	54.6	41.2	35.2	35.7	35.7
125°	83.0	81.8	77.6	71.6	65.4	57.1	46.1	34.0	30.4	31.5	31.5
127.5°	72.1	71.6	67.3	61.8	55.8	48.5	37.5	28.5	26.7	27.9	27.9
130°	63.1	62.5	58.2	52.8	47.3	39.5	30.4	23.6	23.1	24.2	24.2
132.5°	54.0	53.3	49.7	44.2	38.8	31.5	23.6	18.8	20.0	21.2	21.2
135°	45.5	44.9	42.5	36.4	31.5	24.9	18.2	15.8	16.9	18.2	18.2
137.5°	37.5	37.0	34.5	29.1	23.6	18.2	13.3	12.8	13.9	15.2	15.2
140°	30.4	29.7	27.4	22.4	16.9	12.8	9.1	10.3	11.5	12.8	12.8
142.5°	23.1	23.1	21.2	16.9	11.5	7.8	6.1	7.8	9.1	10.3	10.3
145°	16.9	16.9	14.5	11.5	6.7	4.3	3.6	5.5	7.3	7.8	7.8
147.5°	11.5	11.5	9.8	7.3	3.6	1.8	2.4	3.6	4.8	5.5	6.1
150°	6.7	6.7	5.5	3.6	1.8	0.6	0.6	2.4	3.1	3.6	3.6
152.5°	3.1	3.1	2.4	1.2	0.6	0.6	0.6	0.6	1.8	1.8	1.8
155°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.6	0.6	0.6
157.5°	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.6	0.6	0.6	0.6	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)